

**CENTRAL ELECTRICITY REGULATORY COMMISSION  
NEW DELHI**

**Petition No. 386/TT/2019**

**Coram:**

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

**Date of order: 19.06.2021**

**In the matter of:**

Approval under Regulation 86 of Central Electricity Regulatory Commission (Conduct of Business) Regulations, 1999 and revision of transmission tariff of 2004-09 and 2009-14 tariff periods and truing up of transmission tariff of 2014-19 period under the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2014 and determination of transmission tariff of 2019-24 period under the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 for Fixed and Thyristor Controlled Series Compensation for 400 kV D/C Raipur-Rourkela Transmission Line at Raipur in the Western Region.

**And in the matter of:**

Power Grid Corporation of India Ltd.,  
SAUDAMINI, Plot No-2,  
Sector-29, Gurgaon - 122001 (Haryana).

**.....Petitioner**

**Vs.**

1. Madhya Pradesh Power Management Company Ltd.,  
Shakti Bhawan, Rampur, Jabalpur – 482008.
2. Madhya Pradesh Power Transmission Company Ltd.,  
Shakti Bhawan, Rampur, Jabalpur – 482 008.
3. Madhya Pradesh Audyogik Kendra Vikas Nigam (Indore) Ltd.,  
3/54, Press Complex,  
Agra-Bombay Road, Indore – 452 008.
4. Maharashtra State Electricity Distribution Company Ltd.,  
Hongkong Bank Building, 3rd Floor,  
M.G. Road, Fort, Mumbai – 400 001.



5. Maharashtra State Electricity Transmission Company Ltd.,  
Prakashganga, 6th Floor, Plot No. C-19, E-Block,  
Bandra Kurla Complex, Bandra (East) Mumbai – 400 051.
6. Gujarat Urja Vikas Nigam Ltd.,  
Sardar Patel Vidyut Bhawan,  
Race Course Road, Vadodara – 390 007.
7. Gujarat Energy Transmission Corporation Ltd.,  
Sardar Patel Vidyut Bhawan,  
Race Course Road, Vadodara – 390 007.
8. Electricity Department,  
Govt. Of Goa, Vidyut Bhawan, Panaji,  
Near Mandvi Hotel, Goa – 403 001.
9. Electricity Department,  
Administration of Daman & Diu, Daman – 396 210.
10. Electricity Department,  
Administration of Dadra Nagar Haveli,  
U.T. Silvassa – 396 230.
11. Chhattisgarh State Electricity Board,  
P.O. Sunder Nagar, Dangania,  
Raipur Chhattisgarh – 492 013.
12. Chhattisgarh State Power Transmission Company Ltd.,  
Office of the Executive Director (C&P),  
State Load Despatch Building,  
Dangania, Chhattisgarh – 492 013.
13. Chhattisgarh State Power Distribution Company Ltd.,  
P.O. Sunder Nagar, Dangania,  
Raipur, Chhattisgarh – 492 013.

...Respondent(s)

**For Petitioner:** Shri S.S. Raju, PGCIL  
Shri B. Dash, PGCIL  
Shri V.P. Rastogi, PGCIL  
Shri A.K. Verma, PGCIL  
Shri D. K. Biswal, PGCIL

**For Respondent:** Shri Anindya Kumar Khare, MPPMCL

### **ORDER**

The instant petition has been filed by the Petitioner, Power Grid Corporation of India Limited, a deemed transmission licensee, for revision of transmission tariff of



2004-09 and 2009-14 tariff periods and truing of capital expenditure of the period from 1.4.2014 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 for determination of tariff under the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 (hereinafter referred to as “the 2019 Tariff Regulations”) for the period from 1.4.2019 to 31.3.2024 for “Fixed and Thyristor Controlled Series Compensation for 400 kV D/C Raipur-Rourkela Transmission Line at Raipur” (hereinafter referred to as “the transmission asset”) in the Western Region.

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

*“1) Approve the revised Transmission Tariff for 2004-09 block and transmission tariff for 2009-14 block for the assets covered under this petition, as per para 8 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 9 and 10 above.*

*3) (a) 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 regulations 2014 and Tariff regulation 19 as per para 9 & 10 above for respective block.*

*(b) 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 49 of 2014 and regulation 67 of 2019 tariff regulation. The petitioner may be allow to recover the deferred tax liability materialized directly without making any application before the commission as provided in the regulation.*

*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 respondents 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 10.5 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 respondents, if GST on transmission is levied at any rate in future. Further, any taxes including GST and duties including cess etc. imposed by any statutory/Govt./municipal authorities shall be allowed to be recovered from the beneficiaries.

and pass such other relief as 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 for the transmission asset was accorded by the Board of Directors of the Petitioner Company under Memorandum dated 14.5.2002 at an estimated cost of ₹9690 lakh including IDC of ₹699 lakh. Subsequently, approval for revised cost estimates in respect of the transmission asset was accorded by the Board of Directors of the Petitioner Company vide letter dated 1.9.2005 at an estimated cost of ₹12793 lakh including IDC of ₹507 lakh based on 3<sup>rd</sup> quarter of 2004 price level. As per the investment approval, the project was to be completed within 24 months i.e. by January, 2005. The date of the commercial operation of the transmission asset is 1.11.2004.

b. The tariff from 1.11.2004 to 31.3.2009 in respect of the transmission asset was allowed vide order dated 27.10.2006 in Petition No. 11/2005. The tariff from 1.4.2005 to 31.3.2009 in respect of the transmission asset was revised due to additional capitalization incurred during the year 2005-06 vide order dated 7.8.2009 in Petition No. 73/2009 based on admitted capital cost of ₹12201.05 lakh in respect of the transmission asset as on 1.4.2006.

c. The tariff for 1.4.2009 to 31.3.2014 period was determined vide order dated 18.8.2010 in Petition No. 70/2010. The tariff for 2009-14 period was trued



up and transmission tariff for 2014-19 period was determined vide order dated 7.10.2015 in Petition No. 155/TT/2014.

d. The Petitioner has sought revision of transmission tariff approved for 2004-09 tariff period on account of change in Interest on Loan (IoL) and Interest on Working Capital (IWC) to the extent of revision in IoL and Maintenance Spares in terms of the judgement of the Appellate Tribunal for Electricity (APTEL) dated 22.1.2007 and dated 13.6.2007 in Appeal No. 81/2005 and batch matters and Appeal No. 139/2006 and batch matters respectively. The Petitioner has sought consequential revision of tariff allowed for 2009-14 tariff period; truing up of tariff of 2014-19 tariff period; and determination of tariff of 2019-24 tariff period in respect of the transmission asset.

e. APTEL in its judgment dated 22.1.2007 in Appeal No. 81 of 2005 and batch matters pertaining to generating stations of NTPC had considered 4 (four) issues. The issues considered by APTEL and its decisions are as given in the following table:

Sr. No.	Issue	APTEL's decision/direction
1	Whether APTEL can enquire into the validity of Regulations framed by the Commission	Challenge to the validity of Regulations framed by the Commission falls outside the purview of APTEL.
2	Computation of interest on loan	In view of the order of the APTEL dated 14.11.2016 in Appeal Nos. 94 and 96 of 2005 and order dated 24.1.2007 passed in Appeal Nos. 81 to 87, 89 to 93 of 2005, computation of loan has to be based on loan repayment on normative basis. Commission is required to recalculate the loan outstanding as on 31.3.2004 based on loan repayment on normative basis.
3(a)	O&M Expenses: Inadequate provision of employee costs as part of O&M Expenses due to variation in salary and wages	Commission's view upheld.
3(b)	O&M Expenses: Non-inclusion of incentives and ex-gratia payment to employees	Commission's view upheld.
4	Cost of spares for calculation of working capital	Commission's view upheld.

f. APTEL in its judgment dated 13.6.2007 in Appeal No. 139 of 2006 and batch matters pertaining to generating stations of NTPC had considered 9 (nine)



issues. The issues considered and the decisions of APTEL are given in the following table:

Sr. No.	Issue	APTEL's decision/direction
I	Computation of outstanding loan at the beginning of the tariff period i.e. 1.4.2004	The Commission is required to recalculate the loan outstanding as on 31.3.2004 based on loan repayment on normative basis.
II	Consequence of refinance of loan	Commission to consider the issue afresh.
III	Treating depreciation available as deemed repayment of loan	Commission to make a fresh computation of outstanding loan.
IV	Admissibility of depreciation up to 90%	Commission to consider the issue afresh.
V	Cost of Maintenance Spares	Commission to consider the issue afresh.
VI	Impact of de-capitalisation of the assets on cumulative repayment of Loan	The cumulative repayment of the loan proportionate to the assets decapitalized required to be reduced. Commission to act accordingly.
VII	Non-consideration of normative transit loss for coal import.	Commission to consider afresh the transit losses for coal imported from coal mines other than the dedicated ones.
VIII	Foreign Exchange Rate Variation (FERV)	FERV has been kept as pass through to ensure that any liability or gain, if any, arising on account of any variation in foreign exchange rates is passed on to the beneficiary as held in order dated 4.10.2006 in Appeal No.135 to 140 of 2005. Commission to act accordingly.
IX	Computation of interest on loan in Singrauli Station	Net loan closing at the end of a year is reflected as net loan opening on the first day of the next year. Commission shall re-compute the interest accordingly.

g. The Commission and certain beneficiaries filed Appeals against the APTEL's judgments before the Hon'ble Supreme Court in 2007. The Appeals were admitted and initially stay was granted by the Hon'ble Supreme Court. Subsequently, on an assurance by NTPC that the issues under Appeal would not be pressed for implementation during the pendency of the Appeals, the stay was vacated by the Hon'ble Supreme Court.

h. Based on the APTEL's judgments dated 22.1.2007 and dated 13.6.2007, the Petitioner sought revision of tariff of its transmission assets for 2001-04 and 2004-09 tariff periods in Petition No. 121/2007. The Commission after taking into consideration the pending Appeals before the Hon'ble Supreme Court adjourned the said petition *sine die* and directed to revive the same after disposal of the Civil Appeals by the Hon'ble Supreme Court.



i. The Hon'ble Supreme Court vide its order dated 10.4.2018 dismissed the said Civil Appeals filed against APTEL's said judgments. Thus, the judgments of APTEL have attained finality.

j. Consequent to the Hon'ble Supreme Court's order dated 10.4.2018 in NTPC matters, Petition No. 121/2007 was listed for hearing on 8.1.2019. The Commission vide order dated 18.1.2019 in Petition No. 121/2007, directed the Petitioner to submit its claim separately for the assets at the time of filing of truing up petitions for 2014-19 tariff period in respect of concerned transmission assets.

k. The instant petition was heard on 20.4.2021 and in view of APTEL's judgments dated 22.1.2007 in Appeal No. 81/2005 and batch matters along with judgment dated 13.6.2007 in Appeal No. 139/2006 and batch matters and the order of Hon'ble Supreme Court dated 10.4.2018 in Civil Appeal No. 5622 of 2007 along with other Civil Appeals, tariff is being revised. Period-wise transmission tariff is being re-worked based on the Tariff Regulations applicable for the respective tariff periods and suitable assumptions have been made at certain places and applied, which are indicated.

4. The Respondents are distribution licensees and power departments, which are procuring transmission service from the Petitioner, mainly beneficiaries of the Western Region.

5. The Petitioner has served the petition on the Respondents and notice of this petition has been published in newspapers in accordance with Section 64 of the Electricity Act, 2003. No comments/ objections have been received from the general public in response to the aforesaid notice published in the newspapers by the Petitioner. Madhya Pradesh Power Management Company Ltd. (MPPMCL), Respondent No. 1, has filed its reply vide affidavit dated 17.1.2020 wherein it has raised issues of revision of tariff of 2004-09 and 2009-14 periods and RoE. The Petitioner vide affidavit dated 28.7.2020 has filed rejoinder to the reply of MPPMCL.



The issues raised by MPPMCL and the clarifications given by the Petitioner are dealt in the relevant paragraphs of this order.

**Re: Interest on Loan (IoL)**

6. APTEL while dealing with the issue of computation of IoL, in judgment dated 22.1.2007, observed that IoL for the period from 1.4.1998 to 31.3.2001 shall be computed only on normative loan repayment as per its judgment dated 14.11.2006 in Appeal Nos. 94 and 96 of 2005. APTEL vide its judgment dated 14.11.2006 had set aside the Commission's methodology of computation of loan on the actual repayment basis or normative repayment whichever is higher and held that the Commission is required to adopt normative debt repayment methodology for working out IoL liability order for the period 1.4.1998 to 31.3.2001. In view of the above, the interest allowed for the 2004-09 tariff period is revised on the basis of the normative debt repayment methodology.

**Re: Additional Capital Expenditure (ACE)**

7. APTEL vide judgment dated 13.6.2007 in Appeal No. 139/2006 and others held that additional capitalisation after the date of commercial operation should also be considered for computation of maintenance spares. In view of the above, the maintenance spares to be considered for computation of working capital for 2004-09 period are also required to be revised taking into consideration the ACE after the date of commercial operation.

**Re: Depreciation**

8. As regards depreciation, APTEL in its judgement dated 13.6.2007 in Appeal No.139 of 2006 observed that depreciation is an expense and it cannot be deployed for deemed repayment of loan and accordingly directed the Commission to compute the outstanding loan afresh. In view of the above directions of APTEL, the outstanding





loan allowed for the transmission asset for the 2004-09 tariff period is revised in the instant order.

9. The revision of transmission tariff allowed for 2004-09 tariff period necessitates the revision of tariff allowed for 2009-14 period, which is also allowed in the instant order. The implementation of the directions of APTEL in the case of the Petitioner was kept pending waiting for the outcome of the Civil Appeals filed before the Hon'ble Supreme Court. Taking into consideration the facts of the case and keeping in view the interest of the consumers, we are of the view that the beneficiaries should not be burdened with the carrying cost for the difference in the tariff allowed earlier and allowed in the instant order for 2004-09 and 2009-14 tariff periods. Therefore, we direct that the Petitioner will neither claim nor pay any carrying cost from or to the beneficiaries for the difference, if any, in the tariff allowed earlier and the tariff being allowed in the instant order. Further, the said difference in tariff shall be recovered/ paid over a period of six months from the date of issue of this order.

10. The hearing in this matter was held on 20.4.2021 through video conference and the Commission reserved order in the matter.

11. This order is issued considering the submissions made by the Petitioner vide affidavits dated 4.9.2019 and dated 3.8.2020, MPPMCL's reply filed vide affidavit dated 17.1.2020 and the Petitioner's rejoinder filed vide affidavit dated 28.7.2020.

12. Having heard the representatives of the Petitioner and perused the material on record, we proceed to dispose of the petition.



## Revision of Transmission Charges Allowed for 2004-09 and 2009-14 Tariff Periods

### 2004-09 Period

13. The Commission vide order dated 27.10.2006 in Petition No. 11/2005 approved the transmission charges from 1.11.2004 to 31.3.2009. The Commission vide order dated 7.8.2009 in Petition No. 73/2009 approved the following revised transmission charges in respect of the transmission asset for 1.4.2005 to 31.3.2009 period:

(₹ in lakh)

Particulars	2004-05 (1.11.2004 to 31.3.2005)	2005-06	2006-07	2007-08	2008-09
Depreciation	176.69	436.19	436.38	436.38	436.38
Interest on Loan	289.54	691.22	653.74	605.28	549.11
Return on Equity	177.46	441.56	441.83	441.83	441.83
Advance against Depreciation	0.00	0.00	35.67	266.08	266.08
Interest on Working Capital	17.39	42.56	43.40	47.47	47.45
O & M Expenses	46.87	117.00	121.68	126.52	131.60
<b>Total</b>	<b>707.94</b>	<b>1728.52</b>	<b>1732.70</b>	<b>1923.55</b>	<b>1872.45</b>

14. The Petitioner has claimed the following revised transmission charges in respect of the transmission asset for 2004-09 tariff period in the instant petition:

(₹ in lakh)

Particulars	2004-05 (1.11.2004 to 31.3.2005)	2005-06	2006-07	2007-08	2008-09
Depreciation	176.69	436.19	436.38	436.38	436.38
Interest on Loan	292.48	722.63	700.99	649.02	588.79
Return on Equity	177.46	441.56	441.83	441.83	441.83
Advance against Depreciation	0.00	0.00	69.78	316.84	316.84
Interest on Working Capital	17.60	44.34	46.13	50.50	50.50
O&M Expenses	46.87	117.00	121.68	126.52	131.60
<b>Total</b>	<b>711.10</b>	<b>1761.72</b>	<b>1816.79</b>	<b>2021.09</b>	<b>1965.94</b>

15. We have considered the Petitioner's claim. The tariff is allowed in respect of the transmission asset on the basis of the following:



- a. Admitted capital cost of ₹11456.02 lakh as on 1.11.2004 vide order dated 27.10.2006 in Petition No. 11/2005 and admitted capital cost of ₹12187.84 lakh as on 1.4.2005 vide order dated 7.8.2009 in Petition No. 73/2009 in respect of the transmission asset.
- b. Weighted Average Rate of Interest on actual loan adopted from order dated 27.10.2006 in Petition No. 11/2005 and order dated 7.8.2009 in Petition No. 73/2009.
- c. With respect to calculation of IoL, the interest allowed for 2004-09 period is revised on the basis of the normative debt repayment methodology. However, during the year 2004-05 moratorium period was availed by the Petitioner and no actual repayment of loan was made. Therefore, depreciation provided during 2008-09 has been considered as loan repayment in accordance with Regulation 56(i)(f) of 2004 Tariff Regulations. Regulation 56(i)(f) of the 2004 Tariff Regulations provides as under:

**“56 (i) Interest on Loan Capital**

*(f) In case any moratorium period is availed of by the transmission licensee, depreciation provided for in the tariff during the years of moratorium shall be treated as repayment during those years and interest on loan capital shall be calculated accordingly;”*

- d. Weighted Average Rate of Depreciation, Rate of Interest for Working Capital and O&M Expenses as per order dated 27.10.2006 in Petition No. 11/2005 and as per order dated 7.8.2009 in Petition No. 73/2009.
- e. There is ACE during 2004-09 period and it is required to be revised for the purpose of maintenance spares component for calculating IWC.

16. In view of the above, revised transmission charges allowed in respect of the transmission asset for 2004-09 tariff period are as follows:

Particulars	(₹ in lakh)				
	2004-05	2005-06	2006-07	2007-08	2008-09
Depreciation	176.69	436.19	436.38	436.38	436.38
Interest on Loan	289.54	708.52	687.30	636.35	577.30
Return on Equity	177.46	441.56	441.83	441.83	441.83
Advance against Depreciation	0.00	0.00	0.00	0.00	231.30
Interest on Working Capital	17.55	43.68	44.23	44.31	48.31
O&M Expenses	46.87	117.00	121.68	126.52	131.60
<b>Total</b>	<b>708.11</b>	<b>1746.95</b>	<b>1731.43</b>	<b>1685.39</b>	<b>1866.72</b>



17. AFC allowed for 2004-09 period vide orders dated 27.10.2006 in Petition No. 11/2005 that was revised vide order dated 7.8.2009 in Petition No. 73/2009, the revised AFC claimed in the instant petition and AFC allowed in the instant order is as follows:

(₹ in lakh)					
Particulars	2004-05	2005-06	2006-07	2007-08	2008-09
AFC approved vide order dated 27.10.2006 in Petition No. 11/2005 and revised as per order dated 7.8.2009 in Petition No. 73/2009	707.94	1728.52	1732.70	1923.55	1872.45
Claimed by the Petitioner in the instant petition	711.10	1761.72	1816.79	2021.09	1965.94
AFC allowed after true-up in the instant order	708.11	1746.95	1731.43	1685.39	1866.72

### **2009-14 Period**

18. The Commission vide order dated 18.8.2010 in Petition No. 70/2010 approved the tariff of the transmission asset for 2009-14 tariff period and vide order dated 7.10.2015 in Petition No. 155/TT/2014 tried up the tariff for 2009-14 tariff period and the same is as follows:

(₹ in lakh)					
Particulars	2009-10	2010-11	2011-12	2012-13	2013-14
Depreciation	641.13	641.13	641.13	641.13	641.13
Interest on Loan	495.38	444.09	392.78	341.46	290.10
Return on Equity	589.34	610.93	611.53	611.53	618.88
Interest on Working Capital	46.46	46.44	46.01	45.61	45.41
O&M Expenses	209.60	221.60	234.28	247.68	261.84
<b>Total</b>	<b>1981.92</b>	<b>1964.19</b>	<b>1925.74</b>	<b>1887.41</b>	<b>1857.37</b>

19. The Petitioner has claimed the following revised transmission charges in respect of the transmission asset for 2009-14 period:

(₹ in lakh)					
Particulars	2009-10	2010-11	2011-12	2012-13	2013-14
Depreciation	641.13	641.13	641.13	641.13	641.13
Interest on Loan	533.02	481.70	430.35	378.97	327.55
Return on Equity	589.34	610.93	611.53	611.53	618.88
Interest on Working Capital	47.24	47.22	46.80	46.40	46.19
O&M Expenses	209.60	221.60	234.28	247.68	261.84
<b>Total</b>	<b>2020.33</b>	<b>2002.58</b>	<b>1964.09</b>	<b>1925.71</b>	<b>1895.58</b>



20. We have considered the submissions of the Petitioner. The tariff is allowed for the transmission asset on the basis of the following:

- a) Admitted capital cost of ₹12201.05 lakh as on 1.4.2009.
- b) Weighted Average Rate of Interest on actual loan derived/ adopted from order dated 7.10.2015 in Petition No 155/TT/2014.
- c) Weighted Average Rate of Depreciation as per order dated 7.10.2015 in Petition No 155/TT/2014.

21. In view of the above, the revised transmission charges allowed in respect of the transmission asset for 2009-14 tariff period are as follows:

(₹ in lakh)					
Particulars	2009-10	2010-11	2011-12	2012-13	2013-14
Depreciation	641.13	641.13	641.13	641.13	641.13
Interest on Loan	522.12	470.81	419.47	368.11	316.70
Return on Equity	589.34	610.93	611.53	611.53	618.88
Interest on Working Capital	47.01	46.99	46.57	46.17	45.96
O & M Expenses	209.60	221.60	234.28	247.68	261.84
<b>Total</b>	<b>2009.20</b>	<b>1991.46</b>	<b>1952.98</b>	<b>1914.62</b>	<b>1884.51</b>

22. AFC allowed for 2009-14 tariff period vide order dated 7.10.2015 in Petition No 155/TT/2014, the revised AFC claimed in the instant petition and AFC allowed in the instant order are as follows:

(₹ in lakh)					
Particulars	2009-10	2010-11	2011-12	2012-13	2013-14
AFC approved vide order dated 7.10.2015 in Petition No. 155/TT/2014	1981.92	1964.19	1925.74	1887.41	1857.37
Claimed by the Petitioner in the instant petition	2020.33	2002.58	1964.09	1925.71	1895.58
AFC allowed in the instant order	2009.20	1991.46	1952.98	1914.62	1884.51

### **Truing up of Annual Fixed Charges for 2014-19 Tariff Period**

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



(₹ in lakh)

Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Depreciation	641.13	641.13	641.13	248.19	248.19
Interest on Loan	276.04	224.35	172.20	132.66	102.28
Return on Equity	619.36	622.20	621.88	621.88	623.55
Interest on Working Capital	48.69	48.01	47.26	37.78	37.60
O&M Expenses	241.20	249.20	257.48	266.04	274.84
<b>Total</b>	<b>1826.42</b>	<b>1784.89</b>	<b>1739.95</b>	<b>1306.55</b>	<b>1286.46</b>

24. The details of the trued-up IWC claimed by the Petitioner in respect of the transmission asset are as follows:

(₹ in lakh)

Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
O&M Expenses	20.10	20.77	21.46	22.17	22.90
Maintenance Spares	36.18	37.38	38.62	39.91	41.23
Receivables	304.40	297.48	289.99	217.76	214.41
<b>Total Working Capital</b>	<b>360.68</b>	<b>355.63</b>	<b>350.07</b>	<b>279.84</b>	<b>278.54</b>
Rate of Interest (%)	13.50	13.50	13.50	13.50	13.50
<b>Interest on Working Capital</b>	<b>48.69</b>	<b>48.01</b>	<b>47.26</b>	<b>37.78</b>	<b>37.60</b>

### Capital Cost

25. The Commission vide order dated 7.10.2015 in Petition No. 155/TT/2014 approved the transmission tariff in respect of the transmission asset for 2014-19 period based on capital cost of ₹12201.05 lakh as on 1.4.2014. Therefore, the admitted capital cost of ₹12201.05 lakh as on 1.4.2014 has been considered for working out the true-up tariff for 2014-19 tariff period. The capital cost of the transmission asset has been calculated in accordance with Regulations 9(3) and 9(6) of the 2014 Tariff Regulations.

26. The petitioner has not claimed any ACE for 2014-19 period.

### Debt-Equity ratio

27. As per Regulation 19(3) of the 2014 Tariff Regulations, debt-equity ratio allowed by the Commission for determination of tariff for the period ending on



31.3.2014 is considered for the purpose of truing up of the tariff of the transmission asset for 2014-19 tariff period. The details of debt-equity ratio as on 1.4.2014 and 31.3.2019 in respect of the transmission asset is as follows:

(₹ in lakh)				
Funding	Capital Cost as on 1.4.2014	(%)	Capital Cost as on 31.3.2019	(%)
Debt	9045.10	74.13	9045.10	74.13
Equity	3155.95	25.87	3155.95	25.87
<b>Total</b>	<b>12201.05</b>	<b>100.00</b>	<b>12201.05</b>	<b>100.00</b>

### Depreciation

28. The Gross block during 2014-19 tariff period has been depreciated at Weighted Average Rate of Depreciation (WAROD). WAROD has been worked out (as placed in Annexure-I to this order) after taking into account the depreciation rates of assets as prescribed in the 2014 Tariff Regulations. The transmission asset has completed 12 years of useful life as on 31.3.2017. Therefore, the remaining depreciable value has been spread across the balance useful life in accordance with Regulation 27(5) of the 2014 Tariff Regulations. The Gross Block during 2014-19 tariff period has been depreciated accordingly and is as follows:

(₹ in lakh)					
Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
<b>Depreciation</b>					
Opening Gross Block	12201.05	12201.05	12201.05	12201.05	12201.05
Additional Capitalisation	0.00	0.00	0.00	0.00	0.00
Closing Gross Block	12201.05	12201.05	12201.05	12201.05	12201.05
Average Gross Block	12201.05	12201.05	12201.05	12201.05	12201.05
Weighted average rate of Depreciation (WAROD) (%)	5.25	5.25	5.25	2.33	2.33
Balance useful life of the asset (Year)	16	15	14	13	12
Lapsed life at the beginning of the year (Year)	9	10	11	12	13
Depreciable Value	10980.95	10980.95	10980.95	10980.95	10980.95
<b>Depreciation during the year</b>	<b>641.13</b>	<b>641.13</b>	<b>641.13</b>	<b>284.50</b>	<b>284.50</b>
Cumulative Depreciation	6000.12	6641.25	7282.39	7566.89	7851.40
Remaining Depreciable Value	4980.83	4339.69	3698.56	3414.05	3129.55



29. Accordingly, depreciation approved vide order dated 7.10.2015 in Petition No. 155/TT/2014, depreciation claimed by the Petitioner and as trued up in the instant order is as follows:

(₹ in lakh)					
Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Approved vide order dated 7.10.2015 in Petition No. 155/TT/2014	641.13	641.13	641.13	258.62	258.62
Claimed by the Petitioner in the instant petition	641.13	641.13	641.13	248.19	248.19
Allowed after true-up in this order	641.13	641.13	641.13	284.50	284.50

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

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

(₹ in lakh)					
Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
<b>Interest on Loan</b>					
Gross Normative Loan	9045.10	9045.10	9045.10	9045.10	9045.10
Cumulative Repayments up to Previous Year	5358.98	6000.12	6641.25	7282.39	7566.89
Net Loan-Opening	3686.12	3044.98	2403.85	1762.71	1478.21
Additions	0.00	0.00	0.00	0.00	0.00
Repayment during the year	641.13	641.13	641.13	284.50	284.50
Net Loan-Closing	3044.98	2403.85	1762.71	1478.21	1193.70
Average Loan	3365.55	2724.41	2083.28	1620.46	1335.95
Weighted Average Rate of Interest on Loan (%)	7.8807	7.8401	7.7551	7.4701	6.6953
<b>Interest on Loan</b>	<b>265.23</b>	<b>213.60</b>	<b>161.56</b>	<b>121.05</b>	<b>89.45</b>

31. Accordingly, IoL approved vide order dated 7.10.2015 in Petition No 155/TT/2014, IoL claimed by the Petitioner and as trued up in the instant order is as follows:

(₹ in lakh)					
Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Approved vide order dated 7.10.2015 in Petition No 155/TT/2014	238.71	187.21	135.46	96.88	69.51
Claimed by the Petitioner in the instant petition	276.04	224.35	172.20	132.66	102.28
Allowed after true-up in this order	265.23	213.60	161.56	121.05	89.45





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

32. The Petitioner is entitled for RoE in respect of the transmission asset in terms of Regulations 24 and 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 the 2014-19 tariff period:

<b>Year</b>	<b>Claimed effective tax rate (in %)</b>	<b>Grossed up RoE [Base Rate/(1-t)] (in %)</b>
2014-15	21.02	19.625
2015-16	21.38	19.715
2016-17	21.34	19.705
2017-18	21.34	19.705
2018-19	21.55	19.758

33. MPPMCL has submitted that the Petitioner has grossed up RoE on the basis of actual taxes paid during 2016-17 and 2017-18 and has not placed on record the assessment orders for 2016-17 and 2017-18. MPPMCL has further submitted that the Petitioner has not claimed grossed up RoE on the basis of actual taxes paid for 2018-19 Period. MPPMCL has also submitted that the Petitioner has not finalized its income tax assessment orders for 2016-17, 2017-18 and 2018-19. MPPMCL has submitted that the Petitioner has neither submitted copy of assessment orders for 2014-15 and 2015-16 periods nor audited accounts in respect of actual taxes paid for 2016-17 and 2017-18 periods. According to MPPMCL, in absence of these essential documents, it is not possible to scrutinize the claim of the Petitioner in a proper way.

34. In response, the Petitioner has submitted that Income Tax assessment of the Petitioner has been completed and assessment orders have been issued by the Income Tax Department for 2014-15, 2015-16 and 2016-17 and Income Tax Returns have been filed with the Income Tax Department for 2017-18 and 2018-19. The Petitioner has further submitted that basis of year-wise effective tax rate and grossed up RoE tried up accordingly for 2014-19 tariff period has already been mentioned in



the instant petition. The Petitioner has further submitted that the assessment orders for the 2014-15 and 2015-16 have already been submitted in reply to Technical Validation (TV) letter in Petition No. 20/TT/2020 and a copy of the assessment order for year 2016-17 has also been filed. The Petitioner has further requested to allow the Petitioner to claim the differential tariff on account of the trued up RoE based on effective tax rate calculated on completion of income-tax assessment/ re-assessment for 2014-15, 2015-16, 2016-17, 2017-18 and 2018-19 on receipt of the respective assessment orders, directly from the beneficiaries, on yearly basis as per the 2014 Tariff Regulations.

35. We have considered the submissions of the Petitioner and MPPMCL. As regards MPPMCL's submission that the grossed up rate of RoE for the periods 2016-17 and 2017-18 is not based on MAT rates approved by the Income Tax Authorities, it is observed that effective rate of tax considered for 2014-15, 2015-16 and 2016-17 is based on assessment orders issued by Income Tax Authorities and the effective rate of tax considered for 2017-18 and 2018-19 is based on the Income Tax Returns filed for the purpose of grossing up of RoE rate of respective years. In view of the clarification given by the Petitioner, we are of the view that there is no merit in the submissions of MPPMCL. Accordingly, we reject the above submissions of MPPMCL.

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

<b>Year</b>	<b>Notified MAT rates (%) (inclusive of surcharge &amp; cess)</b>	<b>Effective tax (in %)</b>
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. The MAT rates as considered in order dated 27.4.2020 for the purpose of grossing up of rate of RoE for truing up of the tariff of 2014-19 period, in terms of the provisions of the 2014 Tariff Regulations is considered in the instant case which is as follows:

Year	Notified MAT rates (in %) (inclusive of surcharge and cess)	Base rate of RoE (in %)	Grossed up RoE [Base Rate/(1-t)] (in %)
2014-15	20.961	15.50	19.610
2015-16	21.342	15.50	19.705
2016-17	21.342	15.50	19.705
2017-18	21.342	15.50	19.705
2018-19	21.549	15.50	19.758

38. The Petitioner has claimed RoE for 2014-19 period after grossing up RoE of 15.50% with effective tax rates (based on MAT rates) each year as per the above said Regulation. RoE is trued up on the basis of the MAT rate applicable in the respective years and is allowed in respect of the transmission asset as follows:

(₹ in lakh)

Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
<b>Return on Equity</b>					
Opening Equity	3155.95	3155.95	3155.95	3155.95	3155.95
Additions due to ACE	0.00	0.00	0.00	0.00	0.00
Closing Equity	3155.95	3155.95	3155.95	3155.95	3155.95
Average Equity	3155.95	3155.95	3155.95	3155.95	3155.95
Return on Equity (Base Rate) (%)	15.500	15.500	15.500	15.500	15.500
MAT Rate for respective year (%)	20.961	21.342	21.342	21.342	21.549
Rate of Return on Equity (%)	19.610	19.705	19.705	19.705	19.758
<b>Return on Equity</b>	<b>618.88</b>	<b>621.88</b>	<b>621.88</b>	<b>621.88</b>	<b>623.55</b>

39. Accordingly, RoE approved vide order dated 7.10.2015 in Petition No. 155/TT/2014, RoE claimed by the Petitioner and as trued up in the instant order is as follows:

(₹ in lakh)

Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Approved vide order dated 7.10.2015 in Petition No. 155/TT/2014	618.88	618.88	618.88	618.88	618.88
Claimed by the Petitioner in the instant petition	619.36	622.20	621.88	621.88	623.55
Allowed after true-up in this order	618.88	621.88	621.88	621.88	623.55



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

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

Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
<b>O&amp;M Expenses</b>					
<b>Sub-station (Raipur bays)</b>					
400 kV					
Number of bays	4	4	4	4	4
Norms ((₹ lakh/bay)	60.30	62.30	64.37	66.51	68.71
<b>Total O&amp;M Expense (₹ in lakh)</b>	<b>241.20</b>	<b>249.20</b>	<b>257.48</b>	<b>266.04</b>	<b>274.84</b>

41. O & M Expenses have been considered and allowed as per Regulation 29(3) of the 2014 Tariff Regulations.

42. Accordingly, O&M Expenses approved vide order dated 7.10.2015 in Petition No. 155/TT/2014, as claimed by the Petitioner and trued up in the instant order are as follows:

Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Approved vide order dated 7.10.2015 in Petition No. 155/TT/2014	241.20	249.20	257.48	266.04	274.84
Claimed by the Petitioner in the instant petition	241.20	249.20	257.48	266.04	274.84
Allowed after true-up in this order	241.20	249.20	257.48	266.04	274.84

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

43. IWC has been worked out as per the methodology provided in Regulation 28 of the 2014 Tariff Regulations and is allowed in respect of the transmission assets as follows:

Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
<b>Interest on Working Capital</b>					
O&M Expenses (O&M expenses for 1 month)	20.10	20.77	21.46	22.17	22.90
Maintenance Spares (Maintenance spares @ 15% of	36.18	37.38	38.62	39.91	41.23



O&M expenses)					
Receivables (Receivables equivalent to 2 months of fixed cost)	302.48	295.59	288.18	221.97	218.41
<b>Total Working Capital</b>	<b>358.76</b>	<b>353.74</b>	<b>348.26</b>	<b>284.05</b>	<b>282.54</b>
Rate of Interest (%)	13.50	13.50	13.50	13.50	13.50
<b>Interest of working capital</b>	<b>48.43</b>	<b>47.76</b>	<b>47.01</b>	<b>38.35</b>	<b>38.14</b>

44. Accordingly, IWC approved vide order dated 7.10.2015 in Petition No. 155/TT/2014, IWC claimed by the Petitioner and as trued up in the instant order is as follows:

(₹ in lakh)					
Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Approved vide order dated 7.10.2015 in Petition No. 155/TT/2014	47.82	47.08	46.34	37.12	36.98
Claimed by the Petitioner in the instant petition	48.69	48.01	47.26	37.78	37.60
Allowed after true-up in this order	48.43	47.76	47.01	38.35	38.14

#### **Approved Annual Fixed Charges for 2014-19 Tariff Period**

45. The trued up annual fixed charges approved in respect of the transmission asset for 2014-19 tariff period are as follows:

(₹ in lakh)					
Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Depreciation	641.13	641.13	641.13	284.50	284.50
Interest on Loan	265.23	213.60	161.56	121.05	89.45
Return on Equity	618.88	621.88	621.88	621.88	623.55
Interest on Working Capital	48.43	47.76	47.01	38.35	38.14
O&M Expenses	241.20	249.20	257.48	266.04	274.84
<b>Total</b>	<b>1814.88</b>	<b>1773.57</b>	<b>1729.07</b>	<b>1331.82</b>	<b>1310.49</b>

46. Accordingly, Annual Transmission Charges as approved vide order dated 7.10.2015 in Petition No. 155/TT/2014, as claimed by the Petitioner and as approved after truing up in the instant order are as follows:



(₹ in lakh)

Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Approved vide order dated 7.10.2015 in Petition No. 155/TT/2014	1787.75	1743.51	1699.30	1277.54	1258.83
Claimed by the Petitioner in the instant petition	1826.42	1784.89	1739.95	1306.55	1286.46
Allowed after true-up in this order	1814.88	1773.57	1729.07	1331.82	1310.49

### **Determination of Annual Fixed Charges for 2019-24 Tariff Period**

47. The Petitioner has claimed the following transmission charges for 2019-24 tariff period:

(₹ in lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Depreciation	248.19	248.19	248.19	248.19	248.18
Interest on Loan	104.23	84.15	63.90	43.65	23.39
Return on Equity	623.55	623.55	623.55	623.55	623.55
Interest on Working Capital	20.28	20.22	20.12	20.03	19.89
O&M Expenses	128.60	133.12	137.80	142.64	147.64
<b>Total</b>	<b>1124.85</b>	<b>1109.23</b>	<b>1093.56</b>	<b>1078.06</b>	<b>1062.65</b>

48. The details of IWC claimed by the Petitioner for 2019-24 period is as follows:

(₹ in lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
O&M Expenses	10.72	11.09	11.48	11.89	12.30
Maintenance Spares	19.29	19.97	20.67	21.40	22.15
Receivables	138.30	136.75	134.82	132.91	130.65
Total Working Capital	168.31	167.81	166.97	166.20	165.10
Rate of Interest (%)	12.05	12.05	12.05	12.05	12.05
<b>Interest on Working Capital</b>	<b>20.28</b>	<b>20.22</b>	<b>20.12</b>	<b>20.03</b>	<b>19.89</b>

### **Capital Cost**

49. 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 de-capitalisation 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 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 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;*
- (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 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 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 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 assets.*

- (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.”*

50. The Petitioner has claimed capital cost of ₹12201.05 lakh as on 31.3.2019 in respect of the transmission asset. The same capital cost has been admitted by the Commission as on 31.3.2019. Therefore, opening capital cost as on 1.4.2019 of ₹12201.05 lakh has been considered for determination of tariff in accordance with Regulation 19 of the 2019 Tariff Regulations.

51. The Petitioner has not projected any ACE during 2019-24 tariff period in respect of the transmission asset.





## **Debt-Equity ratio**

52. 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 utilised for meeting the capital expenditure of the generating station or the transmission system.

(2) The generating company or the transmission licensee, as the case may be, shall submit the resolution of the Board of the company or 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 modernisation expenditure for life extension shall be serviced in the manner specified in clause (1) of this Regulation.”

53. The debt-equity ratio considered for the purpose of computation of tariff for the 2019-24 tariff period is as follows:

(₹ in lakh)				
Particulars	Capital Cost as on 1.4.2019	%	Capital Cost as on 31.3.2024	%
Debt	9045.10	74.13	9045.10	74.13
Equity	3155.95	25.87	3155.95	25.87
<b>Total</b>	<b>12201.05</b>	<b>100.00</b>	<b>12201.05</b>	<b>100.00</b>

### Depreciation

54. Regulations 33(1), 33(2) and 33(5) 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 there of 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”

(5) Depreciation shall be calculated annually based on 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 station shall be spread over the balance useful life of the assets.”*

55. The transmission asset has already completed 12 years of life as on 31.3.2017. The remaining depreciable value has been spread across the balance useful life in accordance with Regulation 33(5) of the 2019 Tariff Regulations. The depreciation allowed is as follows:

(₹ in lakh)					
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Opening Gross Block	12201.05	12201.05	12201.05	12201.05	12201.05
Additional Capitalisation	0.00	0.00	0.00	0.00	0.00
Closing Gross Block	12201.05	12201.05	12201.05	12201.05	12201.05
Average Gross Block	12201.05	12201.05	12201.05	12201.05	12201.05
Weighted average rate of Depreciation (WAROD) (%)	2.33	2.33	2.33	2.33	2.33
Balance useful life of the asset (Year)	11	10	9	8	7
Lapsed life at the beginning of the year (Year)	14	15	16	17	18
Depreciable Value	10980.95	10980.95	10980.95	10980.95	10980.95
<b>Depreciation during the year</b>	<b>284.50</b>	<b>284.50</b>	<b>284.50</b>	<b>284.50</b>	<b>284.50</b>
Cumulative Depreciation at the end of the year	8135.90	8420.41	8704.91	8989.41	9273.92
Remaining Depreciable Value at the end of the year	2845.04	2560.54	2276.03	1991.53	1707.03

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

56. 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 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 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.”

57. Weighted Average Rate of Rate of Interest has been considered on the basis of rate prevailing as on 1.4.2019. The Petitioner has prayed that the 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. IoL has been allowed in accordance with Regulation 32 of the 2019 Tariff Regulations. IoL allowed is as follows:

(₹ in lakh)					
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Gross Normative Loan	9045.10	9045.10	9045.10	9045.10	9045.10
Cumulative Repayments up to Previous Year	7851.40	8135.90	8420.41	8704.91	8989.41
Net Loan-Opening	1193.70	909.20	624.69	340.19	55.69
Additions due to ACE	0.00	0.00	0.00	0.00	0.00
Repayment during the year	284.50	284.50	284.50	284.50	55.69
Net Loan-Closing	909.20	624.69	340.19	55.69	0.00
Average Loan	1051.45	766.95	482.44	197.94	27.84
Weighted Average Rate of Interest on Loan (%)	8.1500	8.1500	8.1500	8.1500	8.1500
<b>Interest on Loan</b>	<b>85.69</b>	<b>62.51</b>	<b>39.32</b>	<b>16.13</b>	<b>2.27</b>



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

58. Regulations 30 and 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:

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

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:

$$\text{Rate of return on equity} = 15.50 / (1 - 0.2155) = 19.758\%$$

(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.”

59. The Petitioner has submitted that MAT rate is applicable to the Petitioner's Company. We have considered the submissions of the Petitioner. The 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. The RoE allowed in respect of the transmission asset is as follows:



(₹ in lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Opening Equity	3155.95	3155.95	3155.95	3155.95	3155.95
Additions due to ACE	0.00	0.00	0.00	0.00	0.00
Closing Equity	3155.95	3155.95	3155.95	3155.95	3155.95
Average Equity	3155.95	3155.95	3155.95	3155.95	3155.95
Return on Equity (Base Rate) (%)	15.50	15.50	15.50	15.50	15.50
MAT Rate for respective year (%)	17.472	17.472	17.472	17.472	17.472
Rate of Return on Equity (%)	18.782	18.782	18.782	18.782	18.782
<b>Return on Equity</b>	<b>592.75</b>	<b>592.75</b>	<b>592.75</b>	<b>592.75</b>	<b>592.75</b>

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

60. The O&M expenses claimed by the Petitioner in respect of the transmission asset for 2019-24 tariff period are as follows:

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
<b>O&amp;M Expenses</b>					
<b>Sub-station (Raipur bays)</b>					
Number of bays	4	4	4	4	4
<b>Total O&amp;M Expenses</b>	<b>128.60</b>	<b>133.12</b>	<b>137.80</b>	<b>142.64</b>	<b>147.64</b>

61. The norms specified under Regulation 35(3)(a) of the 2019 Tariff Regulations provides as follows:

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

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
<b>Norms for sub-station Bays (₹ Lakh per bay)</b>					
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
<b>Norms for Transformers (₹ Lakh per MVA)</b>					
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
<b>Norms for AC and HVDC lines (₹ Lakh per km)</b>					
Single Circuit (Bundled Conductor with six or more sub-conductors)	0.881	0.912	0.944	0.977	1.011



<b>Particulars</b>	<b>2019-20</b>	<b>2020-21</b>	<b>2021-22</b>	<b>2022-23</b>	<b>2023-24</b>
<i>Single Circuit (Bundled conductor with four sub-conductors)</i>	0.755	0.781	0.809	0.837	0.867
<i>Single Circuit (Twin &amp; Triple Conductor)</i>	0.503	0.521	0.539	0.558	0.578
<i>Single Circuit (Single Conductor)</i>	0.252	0.260	0.270	0.279	0.289
<i>Double Circuit (Bundled conductor with four or more sub-conductors)</i>	1.322	1.368	1.416	1.466	1.517
<i>Double Circuit (Twin &amp; Triple Conductor)</i>	0.881	0.912	0.944	0.977	1.011
<i>Double Circuit (Single Conductor)</i>	0.377	0.391	0.404	0.419	0.433
<i>Multi Circuit (Bundled Conductor with four or more sub-conductor)</i>	2.319	2.401	2.485	2.572	2.662
<i>Multi Circuit (Twin &amp; Triple Conductor)</i>	1.544	1.598	1.654	1.713	1.773
<b>Norms for HVDC stations</b>					
<i>HVDC Back-to-Back stations (Rs Lakh per 500 MW) (Except Gazuwaka BTB)</i>	834	864	894	925	958
<i>Gazuwaka HVDC Back-to-Back station (₹ Lakh per 500 MW)</i>	1,666	1,725	1,785	1,848	1,913
<i>500 kV Rihand-Dadri HVDC bipole scheme (Rs Lakh) (1500 MW)</i>	2,252	2,331	2,413	2,498	2,586
<i>±500 kV Talcher- Kolar HVDC bipole scheme (Rs Lakh) (2000 MW)</i>	2,468	2,555	2,645	2,738	2,834
<i>±500 kV Bhiwadi-Balia HVDC bipole scheme (Rs Lakh) (2500 MW)</i>	1,696	1,756	1,817	1,881	1,947
<i>±800 kV, Bishwanath-Agra HVDC bipole scheme (Rs Lakh) (3000 MW)</i>	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  $\pm 500$  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  $\pm 500$  kV Talchar-Kolar HVDC bi-pole scheme (2000 MW);*
- iv. the O&M expenses of  $\pm 800$  kV Champa-Kurukshetra HVDC bi-pole scheme (3000 MW) shall be on the basis of the normative O&M expenses for  $\pm 800$  kV, Bishwanath-Agra HVDC bi-pole scheme;*
- v. the O&M expenses of  $\pm 800$  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  $\pm 800$  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 year*

*(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.”*

62. The O&M Expenses allowed as per the norms specified in the 2019 Tariff

Regulations are as follows:



Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
4 Numbers of 400 kV Sub-station bays at Raipur	128.60	133.12	137.80	142.64	147.64
<b>Total</b>	<b>128.60</b>	<b>133.12</b>	<b>137.80</b>	<b>142.64</b>	<b>147.64</b>

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

63. Regulation 34(1)(c), Regulation 34(3), Regulation 34(4) and Regulation 3(7) of the 2019 Tariff Regulations specifies as follows:

***“34. Interest on Working Capital***

*(1)...*

***(c) For Hydro Generating Station (including Pumped Storage Hydro Generating Station) and Transmission System:***

- i. Receivables equivalent to 45 days of 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.Definitions ...*

*(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;”*

64. The Petitioner has submitted that it has computed IWC for the 2019-24 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 ROI considered is 12.05% (SBI 1-year MCLR applicable as on 1.4.2019 of 8.55% plus 350 basis points) for 2019-20,



whereas, ROI for 2020-21 onwards has been considered as 11.25% (SBI 1 year MCLR applicable as on 1.4.2020 of 7.75% plus 350 basis points). The components of the working capital and interest allowed thereon is as follows:

(₹ in lakh)					
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
O & M Expenses (O&M Expenses for 1 month)	10.72	11.09	11.48	11.89	12.30
Maintenance Spares (Maintenance spares @ 15% of O&M expenses)	19.29	19.97	20.67	21.40	22.15
Receivables (Receivables equivalent to 2 months of fixed cost)	136.68	134.57	132.27	129.99	128.55
<b>Total Working Capital</b>	<b>166.68</b>	<b>165.63</b>	<b>164.43</b>	<b>163.28</b>	<b>162.99</b>
Rate of Interest (%)	12.05	11.25	11.25	11.25	11.25
<b>Interest of working capital</b>	<b>20.09</b>	<b>18.63</b>	<b>18.50</b>	<b>18.37</b>	<b>18.34</b>

### **Annual Fixed Charges of the 2019-24 Tariff Period**

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

(₹ in lakh)					
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Depreciation	284.50	284.50	284.50	284.50	284.50
Interest on Loan	85.69	62.51	39.32	16.13	2.27
Return on Equity	592.75	592.75	592.75	592.75	592.75
Interest on Working Capital	20.09	18.63	18.50	18.37	18.34
O & M Expenses	128.60	133.12	137.80	142.64	147.64
<b>Total</b>	<b>1111.63</b>	<b>1091.51</b>	<b>1072.87</b>	<b>1054.40</b>	<b>1045.50</b>

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

66. The Petitioner has sought reimbursement of fee paid by it for filing the petition and publication expenses. 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 & RLDC Fees and Charges**

67. The Petitioner shall be entitled for reimbursement of licence 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**

68. 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.

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

### **Security Expenses**

70. The Petitioner has submitted that security expenses for the transmission assets are not claimed in the instant petition and it would file a separate petition for claiming the overall security expenses and the consequential IWC. The Petitioner has requested to consider the actual security expenses incurred during 2018-19 for claiming estimated security expenses for 2019-20 which shall be subject to true up at the end of the year based on the actuals. The Petitioner has submitted that similar petition for security expenses for 2020-21, 2021-22, 2022-23 and 2023-24 shall be filed on a yearly basis on the basis of the actual expenses of previous year subject to



true up at the end of the year on actual expenses. The Petitioner has submitted that difference, if any, between the estimated security expenses and actual security expenses as per the audited accounts may be allowed to be recovered from the beneficiaries on a yearly basis.

71. We have considered the submissions of the Petitioner. We are of the view that the Petitioner should claim security expenses for all the transmission assets in one petition. The Commission observes that the Petitioner has already filed the Petition No. 260/MP/2020 claiming consolidated security expenses on projected basis for 2019-24 tariff period on the basis of actual security expenses incurred in 2018-19. Therefore, security expenses will be dealt with in Petition No. 260/MP/2020 in accordance with the applicable provisions of the 2019 Tariff Regulations.

### **Capital Spares**

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

### **Sharing of Transmission Charges**

73. During the tariff periods 2004-09 and 2009-14 (up to 30.6.2011), the transmission charges for inter-State transmission systems were being shared in accordance with the tariff regulations for the respective tariff periods. With effect from 1.7.2011, sharing of transmission charges for inter-State transmission system was governed by the Central Electricity Regulatory Commission (Sharing of Transmission Charges and Losses) Regulations, 2010. With effect from 1.11.2020, sharing of transmission charges is governed by the Central Electricity Regulatory Commission (Sharing of Transmission Charges and Losses) Regulations, 2020 (in short, 'the 2020



Sharing Regulations'). Accordingly, the liabilities of 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 shall be recovered from the concerned DICs through Bill 2 under Regulation 15(2)(b) of the 2020 Sharing Regulations. For subsequent period, the billing, collection and disbursement of the transmission charges approved in this order shall be governed by the provisions of the 2020 Sharing Regulations as provided in Regulation 57 of the 2019 Tariff Regulations.

**74. To summarise:**

(a) The revised Annual Fixed Charges allowed in respect of the transmission asset for 2004-09 tariff period as per the APTEL's judgements are:

(₹ in lakh)

Particulars	2004-05 (1.11.2004 to 31.3.2005)	2005-06	2006-07	2007-08	2008-09
Annual Fixed Charges	708.11	1746.95	1731.43	1685.39	1866.72

(b) The consequential revision of Annual Fixed Charges allowed in respect of the transmission asset for 2009-14 tariff period are:

(₹ in lakh)

Particulars	2009-10	2010-11	2012-13	2013-14	2014-15
Annual Fixed Charges	2009.20	1991.46	1952.98	1914.62	1884.51

(c) The trued-up Annual Fixed Charges allowed in respect of the transmission asset for 2014-19 tariff period are:

(₹ in lakh)

Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Annual Fixed Charges	1814.88	1773.57	1729.07	1331.82	1310.49

(d) The Annual Fixed Charges allowed in this order in respect of the transmission asset for 2019-24 tariff period are:

(₹ in lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Annual Fixed Charges	1111.63	1091.51	1072.87	1054.40	1045.50



75. Annexure-1 given hereinafter forms part of the instant order.

76. This order disposes of Petition No. 386/TT/2019 in terms of the above discussions and findings.

sd/-  
**(Pravas Kumar Singh)**  
Member

sd/-  
**(Arun Goyal)**  
Member

sd/-  
**(I. S. Jha)**  
Member

sd/-  
**(P. K. Pujari)**  
Chairperson



**ANNEXURE-1**

2014-19  Capital Expenditure	Admitted Capital Cost as on 1.4.2014 (₹ in lakh)	Admitted Capital Cost as on 31.3.2019 (₹ in lakh)	Rate of Depreciation as per Regulations	Annual Depreciation as per Regulations (₹ in lakh)				
				2014-15	2015-16	2016-17	2017-18	2018-19
Building Civil Works & Colony	158.80	158.80	3.34	5.30	5.30	5.30		
Sub Station	12042.25	12042.25	5.28	635.83	635.83	635.83		
<b>Total</b>	<b>12201.05</b>	<b>12201.05</b>	<b>Total</b>	<b>641.13</b>	<b>641.13</b>	<b>641.13</b>		
<b>Average Gross Block (₹ in lakh)</b>				<b>12201.05</b>	<b>12201.05</b>	<b>12201.05</b>	<b>12201.05</b>	<b>12201.05</b>
<b>Weighted Average Rate of Depreciation</b>				<b>5.25%</b>	<b>5.25%</b>	<b>5.25%</b>	<b>2.33%</b>	<b>2.33%</b>

