CENTRAL ELECTRICITY REGULATORY COMMISSION **NEW DELHI**

Petition No. 101/TT/2020

Coram:

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

Date of Order: 08.06.2021

In the Matter of:

Approval under Regulation 86 of Central Electricity Regulatory Commission (Conduct of Business) Regulations, 1999 and truing up of transmission tariff of the 2014-19 tariff period under Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2014 and determination of transmission tariff of the 2019-24 tariff period under Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 of 400 kV S/C Kankroli-Jodhpur Transmission Line along with associated bays under "System Strengthening Scheme in South-Western Part of Northern Grid (Part-B)" in Northern Region.

And in the matter of:

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

....Petitioner

Vs

- 1. Rajasthan Rajya Vidyut Prasaran Nigam Ltd., Vidyut Bhawan, Vidyut Marg, Jaipur – 302 005.
- 2. Ajmer Vidyut Vitran NigamLtd., 132 KV, GSS RVPNL Sub-station Building, Caligiri Road, Malviya Nagar, Jaipur-302017.
- 3. Jaipur Vidyut Vitran Nigam Ltd., 132 KV, GSS RVPNL Sub-station Building, Caligiri Road, Malviya Nagar, Jaipur-302017.
- 4. Jodhpur Vidyut Vitran Nigam Ltd., 132 KV, GSS RVPNL Sub-station Building. Caligiri Road, Malviya Nagar,



Jaipur-302017.

- 5. Himachal Pradesh State Electricity Board, Vidyut Bhawan, Kumar House Complex Building II, Shimla-171004.
- 6. Punjab State Electricity Board, Thermal Shed Tia, Near 22 Phatak, Patiala-147001.
- 7. Haryana Power Purchase Centre, Shakti Bhawan, Sector-6, Panchkula - 134 109.
- 8. Power Development Department, Government of Jammu & Kashmir, Mini Secretariat, Jammu.
- 9. Uttar Pradesh Power Corporation Ltd., (Formerly Uttar Pradesh State Electricity Board), Shakti Bhawan, 14, Ashok Marg, Lucknow - 226001.
- 10. Delhi Transco Ltd., Shakti Sadan, Kotla Road, New Delhi- 110002.
- 11. BSES Yamuna Power Ltd., B-Block, Shakti Kiran, Bldg. (Near Karkadooma Court), Karkadooma 2nd Floor, New Delhi-110092.
- 12. BSES Rajdhani Power Ltd., BSES Bhawan, Nehru Place, New Delhi-110019.
- 13. Tata Power Delhi Distribution Limited NDPL house, Hudson Lines Kingsway Camp, Delhi – 110009.
- 14. Chandigarh Administration, Sector-9, Chandigarh.
- 15. Uttarakhand Power Corporation Ltd., Urja Bhawan, Kanwali Road, Dehradun.
- 16. North Central Railway, Allahabad



New Delhi Municipal Council, 17. Palika Kendra, Sansad Marg, New Delhi-110002

....Respondent(s)

For Petitioner Shri S. S. Raju, PGCIL

Shri A. K. Verma, PGCIL Shri B. Dash, PGCIL

Shri Ved Prakash Rastogi, PGCIL

For Respondents: Shri R. B. Sharma, Advocate, BRPL

Shri Sachin Dubey, Advocate, BYPL

Ms. Megha Bajpeyi, BRPL

ORDER

The instant petition has been filed by the Petitioner, Power Grid Corporation of India Ltd., a deemed transmission licensee, for truing up of transmission tariff for 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 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 the following asset (hereinafter referred to as 'the transmission asset") under "System Strengthening Scheme in South-Western Part of Northern Grid (Part-B)" in Northern Region (hereinafter referred to as the "transmission project"):

Asset - 400 kV S/C Kankroli-Jodhpur Transmission Line along with associated bays

- 2. The Petitioner has made the following prayers in the instant petition:
 - "1) 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.
 - 2) 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 9 and 10 above for respective block.

- 3) 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.
- 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.
- 5) 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 respondents.
- 6) 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 10.6 above.
- 7) Allow the petitioner to claim the capital spares at the end of tariff block as per actual.
- 8) 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 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:
 - The Investment Approval (IA) and expenditure sanction for the (a) transmission project was accorded by the Board of Directors of the Petitioner vide Memorandum No. C/CP/SSSWng-part-B dated 27.10.2006 for ₹15026 lakh, including an IDC of ₹907 lakh based on 2nd Quarter, 2006 price level.
 - (b) The scope of work covered under the transmission project is as follows: 400 kV S/C Kankroli-Jodhpur Transmission Line along with associated bays



- (c) The entire scope of work covered under the transmission project has been completed and is covered under the instant petition.
- (d) The transmission asset was put under commercial operation on 1.8.2010. The time over-run of 9 months was condoned by the Commission vide order dated 16.9.2011 in Petition No. 324/2010.
- (e) The transmission tariff of the transmission asset covered in the instant petition from COD to 31.3.2014 was determined vide order dated 16.9.2011 in Petition No. 324/2010 as per the 2009 Tariff Regulations. The transmission charges were trued-up for 2009-14 period and tariff for the 2014-19 tariff period was determined for the transmission asset vide order dated 29.1.2016 in Petition No. 431/TT/2014.
- (f) The AFC approved by the Commission vide order dated 29.1.2016 in Petition No. 431/TT/2014 and the trued-up tariff claimed by the Petitioner in respect of the transmission asset for the 2014-19 tariff period are as follows:

(₹ in lakh)

| Particulars | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 |
|---|---------|---------|---------|---------|---------|
| Annual Fixed Charges (AFC) approved vide order dated29.1.2016 in Petition No. 431/TT/2014 | | 2332.52 | 2271.50 | 2210.63 | 2150.07 |
| AFC claimed by the Petitioner based on truing up in the instant petition | 2393.44 | 2336.08 | 2274.66 | 2213.83 | 2155.51 |

- 4. The Respondents are distribution licensees, transmission utilities, power departments and transmission licensees, who are procuring transmission services from the Petitioner, mainly beneficiaries of the Northern 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. BSES Rajdhani Power Ltd. (BRPL) i.e. Respondent No. 12 has filed

its reply vide affidavit dated 6.4.2021 and has raised issues like truing up of 2009-14 tariff period, tax on transmission business, Indian accounting standards, deferred tax liability, overpayment of Income Tax during 2009-14 and 2014-19 tariff periods, security expenses, GST and filing fees. In response, the representative of the Petitioner submitted that the contention raised by BRPL is similar to that raised in Petition No. 24/TT/2020 and their rejoinder filed in Petition No. 24/TT/2020 may be considered in the instant petition.

- 6. The hearing in this matter was held on 6.4.2021 through video conference and the order was reserved.
- 7. BRPL has submitted that truing up of tariff vide order dated 29.1.2016 in Petition No. 431/TT/2014 for the 2009-14 tariff period is not in accordance with Regulation 6(1) of the 2009 Tariff Regulations. Referring to Regulation 15(3) of the 2009 Tariff Regulations, BRPL has submitted that actual tax rate applicable to the transmission company was to be trued-up and if the tariff recovered from the beneficiaries exceeded the approved tariff, then the difference was liable to be refunded to the said beneficiaries. It was further submitted that transmission licensees have been allowed huge tax benefits under the Income Tax Act, 1961 ("1961 Act") in the form of Tax Holiday for enterprises engaged in infrastructure development etc. as per Section 80IA of the 1961 Act as well as other benefits like the higher depreciation allowed in initial years. It was also submitted that the claim for grossing up can be allowed only if the Petitioner can submit any document indicating payment of tax on its transmission business. BRPL has submitted that order of the Commission dated 29.1.2016 in Petition No. 431/TT/2014 may be revisited in view of the above submissions.

- 8. We have considered the submissions of BRPL and have also gone through the record. We are of the view that the above submissions of BRPL with regard to 2009-14 tariff period are in the nature of a review and hence the same cannot be entertained in a true-up petition. If BRPL was aggrieved with order dated 29.1.2016 in Petition No. 431/TT/2014, it had the option to prefer an appeal. Not having done so, BRPL cannot raise this issue now as the order has attained finality. As regards the submissions of BRPL with regard to 2014-19 tariff period on the issues of grossing up of RoE, MAT rate, effective tax rates, tax holiday benefit etc., they have been discussed in the relevant paragraphs of this order.
- 9. This order is issued considering the submissions made by the Petitioner in the petition dated 1.1.2020 and the reply of BRPL.
- 10. Having heard the representatives of the Petitioner and learned counsels of BRPL and BYPL (who adopted the submissions made on behalf of BRPL in reply to the petition and during the hearing) and having carefully perused the material on record, we proceed to dispose of the petition.

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

The details of the 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 | 723.61 | 723.61 | 723.61 | 723.61 | 723.61 |
| Interest on Loan | 605.97 | 539.32 | 472.67 | 406.02 | 339.35 |
| Return on Equity | 805.97 | 809.66 | 809.25 | 809.25 | 811.43 |
| Interest on working capital | 60.08 | 59.00 | 57.84 | 56.69 | 55.60 |
| O & M Expenses | 197.81 | 204.49 | 211.29 | 218.26 | 225.52 |
| Total | 2393.44 | 2336.08 | 2274.66 | 2213.83 | 2155.51 |

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

| | | | | (₹ i | n lakh) |
|-----------------------------|---------|---------|---------|---------|---------|
| Particulars | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 |
| O&M expenses | 16.48 | 17.04 | 17.61 | 18.19 | 18.79 |
| Maintenance Spares | 29.67 | 30.67 | 31.69 | 32.74 | 33.83 |
| Receivables | 398.91 | 389.35 | 379.11 | 368.97 | 359.25 |
| Total | 445.06 | 437.06 | 428.41 | 419.90 | 411.87 |
| Rate of Interest (%) | 13.50 | 13.50 | 13.50 | 13.50 | 13.50 |
| Interest on Working Capital | 60.08 | 59.00 | 57.84 | 56.69 | 55.60 |

Capital Cost

- 13. The capital cost allowed vide order dated 29.1.2016 in Petition No. 431/TT/2014 was ₹13690.17 lakh for transmission asset as on 31.3.2014.
- 14. The details of FR approved capital cost, capital cost admitted as on 31.3.2014, ACE incurred upto 31.3.2019 as claimed by the Petitioner for the transmission asset are as follows:

 Approved Cost (FR)
 Actual Capital Cost as on COD
 ACE 2014-19
 Total Capital Cost as on 31.3 2019

 15026.00
 13690.17
 0.00
 13690.17

- 15. The Petitioner has claimed a capital cost of ₹13690.17 lakh for the transmission asset as on 31.3.2014. The Petitioner has not claimed any ACE for the 2014-19 period.
- 16. BRPL has submitted that the Petitioner has adopted the Indian Accounting Standard (IND AS 101) due to which tariff for the transmission asset has increased. BRPL has submitted that Indian Accounting Standard is for the purposes of the Companies Act, 2013 and it is not for the purposes of tariff determination. Same issue has been raised by BRPL is several other petitions and the Commission has already rejected the contention of BRPL (e.g. in order dated 24.1.2021 in Petition

No.136/TT/2020). It has been held by the Commission that adoption of IND AS 101 does not lead to any increase in tariff since tariff is determined in terms of applicable Tariff Regulations. In view of above, there is no need to give a fresh finding on this issue again.

Cost Over-run

17. The completion cost including ACE in respect of the transmission asset is ₹13694.86 lakh and the approved FR cost is ₹15026.00 lakh. Hence, the completion cost in respect of the transmission asset is within the approved FR cost and, therefore, there is no cost over-run with regard to the transmission asset.

Debt-Equity Ratio

18. The Petitioner has claimed debt-equity ratio of 70:30 as on 31.3.2014. The debt-equity ratio of 70:30 has been considered for capital cost as on 31.3.2014 and ACE during the 2014-19 tariff period as provided under Regulation 19 of the 2014 Tariff Regulations. The same has been summarised as follows:

| Particulars | Amount as on 1.4.2014 (₹ in lakh) | (%) | Amount as on 31.3.2019 (₹ in lakh) | (%) |
|-------------|---|--------|--|--------|
| Debt | 9583.33 | 70.00 | 9583.33 | 70.00 |
| Equity | 4106.84 | 30.00 | 4106.84 | 30.00 |
| Total | 13690.17 | 100.00 | 13690.17 | 100.00 |

Depreciation

19. The depreciation has been allowed as per the methodology provided in Regulation 27 of the 2014 Tariff Regulations. Depreciation has been allowed considering capital expenditure as on 1.4.2014 and approved ACE during the 2014-19 tariff period. The Gross Block during the 2014-19 tariff period has been depreciated at weighted average rate of depreciation (WAROD) and working of WAROD is at Annexure-1. WAROD has been worked out after taking into account the

depreciation rates of asset as specified in the 2014 Tariff Regulations and depreciation allowed during the 2014-19 tariff period is as follows:

(₹ in lakh)

| | | | | | (\ III lakii) |
|--|----------|----------|----------|----------|---------------|
| Particulars | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 |
| Opening Gross Block | 13690.17 | 13690.17 | 13690.17 | 13690.17 | 13690.17 |
| Additional Capitalisation | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Closing Gross Block | 13690.17 | 13690.17 | 13690.17 | 13690.17 | 13690.17 |
| Average Gross Block | 13690.17 | 13690.17 | 13690.17 | 13690.17 | 13690.17 |
| Weighted average rate of Depreciation (WAROD) (%) | 5.29 | 5.29 | 5.29 | 5.29 | 5.29 |
| Lapsed useful life of the asset at the beginning of the year (Year) | 3 | 4 | 5 | 6 | 7 |
| Balance useful life of the asset at the beginning of the year (Year) | 31 | 30 | 29 | 28 | 27 |
| Aggregated Depreciable Value | 12321.15 | 12321.15 | 12321.15 | 12321.15 | 12321.15 |
| Depreciation during the year | 723.61 | 723.61 | 723.61 | 723.61 | 723.61 |
| Remaining Aggregated Depreciable Value | 8974.48 | 8250.87 | 7527.25 | 6803.64 | 6080.03 |
| Cumulative Depreciation at the end of the year | 3346.67 | 4070.29 | 4793.90 | 5517.51 | 6241.12 |

20. The details of the depreciation allowed vide order dated 29.1.2016 in Petition No. 431/TT/2014, as claimed by the Petitioner in the instant petition and trued-up in the instant order is as follows:

(₹ in lakh)

| | | | | | (|
|--|---------|---------|---------|---------|---------|
| Particulars | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 |
| Allowed vide order dated 29.1.2016 in Petition No. 431/TT/2014 | 723.74 | 723.87 | 723.87 | 723.87 | 723.87 |
| Claimed by the Petitioner in the instant petition | 723.61 | 723.61 | 723.61 | 723.61 | 723.61 |
| Approved after true-up in this order | 723.61 | 723.61 | 723.61 | 723.61 | 723.61 |

Interest on Loan (IoL)

21. 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, in accordance with Regulation 26 of the 2014 Tariff Regulations. The details of IoL allowed are as follows:

(₹ in lakh)

| Particular | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 |
|---|---------|---------|---------|---------|---------|
| Gross Normative Loan | 9583.33 | 9583.33 | 9583.33 | 9583.33 | 9583.33 |
| Cumulative Repayments up to Previous Year | 2623.06 | 3346.67 | 4070.29 | 4793.90 | 5517.51 |
| Net Loan-Opening | 6960.27 | 6236.66 | 5513.04 | 4789.43 | 4065.82 |
| Addition due to Additional Capitalization | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Repayment during the year | 723.61 | 723.61 | 723.61 | 723.61 | 723.61 |
| Net Loan-Closing | 6236.66 | 5513.04 | 4789.43 | 4065.82 | 3342.21 |
| Average Loan | 6598.46 | 5874.85 | 5151.24 | 4427.63 | 3704.01 |
| Weighted Average Rate of Interest on Loan (%) | 9.184 | 9.180 | 9.176 | 9.170 | 9.162 |
| Interest on Loan | 605.97 | 539.32 | 472.67 | 406.02 | 339.35 |

22. The details of IoL allowed vide order dated 29.1.2016 in Petition No. 431/TT/2014, claimed by the Petitioner in the instant petition and trued-up vide this order is as follows:

(₹ in lakh)

| Particulars | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 |
|--|---------|---------|---------|---------|---------|
| Allowed vide order dated 29.1.2016 in Petition No. 431/TT/2014 | 606.11 | 539.60 | 472.93 | 406.25 | 339.55 |
| Claimed by the Petitioner in the instant petition | 605.97 | 539.32 | 472.67 | 406.02 | 339.35 |
| Approved after true-up in this order | 605.97 | 539.32 | 472.67 | 406.02 | 339.35 |

Return on Equity (RoE)

23. The Petitioner has claimed RoE in respect of the instant 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:

| Year | Claimed effective tax (in %) | Grossed-up RoE [Base Rate/(1-t)] (in %) |
|---------|------------------------------|--|
| 2014-15 | 21.018 | 19.624 |
| 2015-16 | 21.382 | 19.715 |

| 2016-17 | 21.338 | 19.704 |
|---------|--------|--------|
| 2017-18 | 21.337 | 19.704 |
| 2018-19 | 21.549 | 19.757 |

- 24. BRPL has submitted that the Petitioner has calculated the effective tax rate after grossing up the rate of return on equity at the end of every financial year which is not based on actual tax paid. It was further submitted that the Petitioner has not enclosed the details of the actual tax paid.
- 25. We have considered the submissions of BRPL and have also gone through the record. BRPL has raised this issue in a number of other petitions including Petition No. 136/TT/2020 and the Commission has rejected the contention of BRPL.
- 26. The Commission in 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 as follows:

| Year | Notified MAT rates (%) (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 |

27. The 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 the 2014-19 tariff period in terms of the provisions of the 2014 Tariff Regulations, which is as follows:

| Year | MAT Rate (%) | Grossed-up RoE [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 |
|---------|--------|--------|
|---------|--------|--------|

28. Accordingly, RoE allowed for the transmission asset is as follows:

(₹ in lakh)

| Particulars | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 |
|---|---------|---------|---------|---------|---------|
| Opening Equity | 4106.84 | 4106.84 | 4106.84 | 4106.84 | 4106.84 |
| Addition due to Additional Capitalization | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Closing Equity | 4106.84 | 4106.84 | 4106.84 | 4106.84 | 4106.84 |
| Average Equity | 4106.84 | 4106.84 | 4106.84 | 4106.84 | 4106.84 |
| Return on Equity (Base Rate) (%) | 15.500 | 15.500 | 15.500 | 15.500 | 15.500 |
| Tax Rate applicable (%) | 20.961 | 21.342 | 21.342 | 21.342 | 21.549 |
| Rate of Return on Equity (Pre-tax) | 19.610 | 19.705 | 19.705 | 19.705 | 19.758 |
| Return on Equity (Pre-tax) | 805.35 | 809.25 | 809.25 | 809.25 | 811.43 |

29. The details of RoE allowed vide order dated 29.1.2016 in Petition No. 431/TT/2014, as claimed by the Petitioner in the instant petition and trued-up in the instant order is as follows:

(₹ in lakh)

| Particulars | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 |
|--|---------|---------|---------|---------|---------|
| Allowed vide order dated 29.1.2016 in Petition No. 431/TT/2014 | 805.51 | 805.65 | 805.65 | 805.65 | 805.65 |
| Claimed by the Petitioner in the instant petition | 805.97 | 809.66 | 809.25 | 809.25 | 811.43 |
| Approved after true-up in this order | 805.35 | 809.25 | 809.25 | 809.25 | 811.43 |

Operation & Maintenance Expenses (O&M Expenses)

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

(₹ in lakh)

| Particulars | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 |
|-------------------------------|---------|---------|---------|---------|---------|
| Sub-station Bays | | | | | |
| 400kV – Kankroli: Jodhpur Bay | 1 | 1 | 1 | 1 | 1 |
| 400kV – Jodhpur: KankroliBay | 1 | 1 | 1 | 1 | 1 |
| Norm (₹ lakh/bay) | | | | | |
| 400kV | 60.300 | 62.300 | 64.370 | 66.510 | 68.710 |
| Total Sub-station O&M | 120.60 | 124.60 | 128.74 | 133.02 | 137.42 |
| AC Transmission Lines | | | | | |
| Kankroli- Jodhpur 400kV | 4.152 | 4.152 | 4.152 | 4.152 | 4.152 |

| Double Circuit Line | | | | | |
|-------------------------------|---------|---------|---------|---------|---------|
| (Twin/ Triple Conductor) | | | | | |
| transmission line | | | | | |
| Kankroli: Jodhpur 400kV | | | | | |
| Single Circuit transmission | 183.848 | 183.848 | 183.848 | 183.848 | 183.848 |
| Line (Twin/ Triple Conductor) | | | | | |
| Norm (₹ lakh/KM) | | | | | |
| Double Circuit Line | 0.707 | 0.731 | 0.755 | 0.780 | 0.806 |
| (Twin/ Triple Conductor) | 0.707 | 0.731 | 0.755 | 0.760 | 0.800 |
| Single Circuit Line | 0.404 | 0.418 | 0.432 | 0.446 | 0.461 |
| (Twin/ Triple Conductor) | 0.404 | 0.416 | 0.432 | 0.440 | 0.401 |
| Total Transmission Line | 77.21 | 79.88 | 82.56 | 85.23 | 88.10 |
| Total O&M Expenses | 197.81 | 204.48 | 211.30 | 218.25 | 225.52 |

31. The details of the O&M Expenses approved vide order dated 29.1.2016 in Petition No. 431/TT/2014, O&M Expenses claimed by the Petitioner in the instant petition and trued-up O&M Expenses approved in the instant order are as follows:

(₹ in lakh)

| Particulars | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 |
|--|---------|---------|---------|---------|---------|
| Allowed vide order dated 29.1.2016 in Petition No. 431/TT/2014 | 197.81 | 204.48 | 211.30 | 218.25 | 225.52 |
| Claimed by the Petitioner in the instant petition | 197.81 | 204.49 | 211.29 | 218.26 | 225.52 |
| Approved after true-up in this order | 197.81 | 204.48 | 211.30 | 218.25 | 225.52 |

Interest on Working Capital (IWC)

32. The Petitioner has claimed IWC in terms of Regulation 28(1)(c) of the 2014 Tariff Regulations as follows:

Maintenance spares:

Maintenance spares have been worked out based on 15% of Operation and Maintenance Expenses.

ii. O & M Expenses:

O&M Expenses have been considered for one month of the allowed O&M Expenses.

iii. Receivables:

The receivables have been worked out on the basis of 2 months of annual transmission charges as worked out above.



iv. Rate of interest on working capital:

Rate of interest on working capital is considered on normative basis in accordance with Clause (3) of Regulation 28 of the 2014 Tariff Regulations.

33. The trued-up IWC approved for the transmission asset is as follows:

(₹ in lakh)

| Particulars | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 |
|---|---------|---------|---------|---------|---------|
| O & M Expenses (O&M expenses for 1 month) | 16.48 | 17.04 | 17.61 | 18.19 | 18.79 |
| Maintenance Spares (15% of O&M expenses) | 29.67 | 30.67 | 31.69 | 32.74 | 33.83 |
| Receivables (Equivalent to 2 months of annual fixed cost / annual transmission charges) | 398.80 | 389.28 | 379.11 | 368.97 | 359.25 |
| Total | 444.96 | 436.99 | 428.41 | 419.90 | 411.87 |
| Rate of Interest on working capital (%) | 13.50 | 13.50 | 13.50 | 13.50 | 13.50 |
| Interest of working Capital | 60.07 | 58.99 | 57.84 | 56.69 | 55.60 |

34. The details of the IWC allowed vide order dated 29.1.2016 in Petition No. 431/TT/2014, trued-up IWC claimed by the Petitioner and trued-up IWC approved in the instant order is as follows:

(₹ in lakh)

| Particulars | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 |
|--|---------|---------|---------|---------|---------|
| Allowed vide order dated 29.1.2016 in Petition No. 431/TT/2014 | 60.08 | 58.92 | 57.76 | 56.61 | 55.48 |
| Claimed by the Petitioner in the instant petition | 60.08 | 59.00 | 57.84 | 56.69 | 55.60 |
| Allowed after true-up in this order | 60.07 | 58.99 | 57.84 | 56.69 | 55.60 |

Approved Annual Fixed Charges for the 2014-19 Tariff Period

35. The trued-up annual fixed charges allowed for the transmission asset for the 2014-19 tariff period are as follows:

(₹ in lakh)

| Particulars | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 |
|--------------|---------|---------|---------|---------|---------|
| Depreciation | 723.61 | 723.61 | 723.61 | 723.61 | 723.61 |



| Total | 2392.82 | 2335.66 | 2274.67 | 2213.82 | 2155.51 |
|-------------------------|---------|---------|---------|---------|---------|
| Op. and Maintenance | 197.81 | 204.48 | 211.30 | 218.25 | 225.52 |
| Int. on Working Capital | 60.07 | 58.99 | 57.84 | 56.69 | 55.60 |
| Return on Equity | 805.35 | 809.25 | 809.25 | 809.25 | 811.43 |
| Interest on Loan | 605.97 | 539.32 | 472.67 | 406.02 | 339.35 |

36. Accordingly, the Annual Transmission Charges allowed vide order dated 29.1.2016 in Petition No. 431/TT/2014, 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 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 |
|--|---------|---------|---------|---------|---------|
| Allowed vide order dated 29.1.2016 in Petition No. 431/TT/2014 | 2393.25 | 2332.50 | 2271.50 | 2210.63 | 2150.07 |
| Claimed by the Petitioner in the instant petition | 2393.44 | 2336.08 | 2274.66 | 2213.83 | 2155.51 |
| Approved after true-up in this order | 2392.82 | 2335.66 | 2274.67 | 2213.82 | 2155.51 |

Determination of Annual Fixed Charges for the 2019-24 Tariff Period

The Petitioner has claimed the following transmission charges for the 37. transmission asset for the 2019-24 tariff period:

(₹ in lakh)

| Particulars | 2019-20 | 2020-21 | 201-22 | 2022-23 | 2023-24 |
|-----------------------------|---------|---------|---------|---------|---------|
| Depreciation | 723.61 | 723.61 | 723.61 | 723.61 | 144.80 |
| Interest on Loan | 272.70 | 206.07 | 139.50 | 73.18 | 33.57 |
| Return on Equity | 771.35 | 771.35 | 771.35 | 771.35 | 771.35 |
| Interest on Working Capital | 33.64 | 32.96 | 32.21 | 31.47 | 22.38 |
| Operation and Maintenance | 161.90 | 167.60 | 173.38 | 179.43 | 185.75 |
| Total | 1963.20 | 1901.59 | 1840.05 | 1779.05 | 1157.84 |

38. The Petitioner has claimed the following Interest on Working Capital for the transmission asset for the 2019-24 tariff period:

(₹ in lakh)

| Particulars | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 |
|-----------------------------|---------|---------|---------|---------|---------|
| O&M expenses | 13.49 | 13.97 | 14.45 | 14.95 | 15.48 |
| Maintenance Spares | 24.29 | 25.14 | 26.01 | 26.92 | 27.86 |
| Receivables | 241.38 | 234.44 | 226.86 | 219.34 | 142.36 |
| Total | 279.15 | 273.55 | 267.31 | 261.20 | 185.70 |
| Rate of Interest | 12.05 | 12.05 | 12.05 | 12.05 | 12.05 |
| Interest on Working Capital | 33.64 | 32.96 | 32.21 | 31.47 | 22.38 |



Capital Cost

- 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 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
 - (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."
- 40. The Petitioner has claimed a capital cost of ₹13690.17 lakh as on 31.3.2019 for the transmission asset. Against the overall approved capital cost (as per FR) of ₹15026.00 lakh, the estimated completion cost including ACE is ₹13690.17 lakh as



on 31.3.2024. The Petitioner has not claimed any ACE for the 2019-24 tariff period. Accordingly, the admitted capital cost of ₹13690.17 lakh as on 31.3.2019 as trued-up in above paragraphs is considered as the capital cost as on 1.4.2019 for the purpose of determination of tariff for the 2019-24 tariff period.

Debt-Equity Ratio

- 41. 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:

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

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."
- 42. The details of the debt-equity considered for the purpose of computation of tariff for the 2019-24 tariff period for the transmission asset are as follows:

| Particulars | Capital Cost as on 1.4.2019 (₹ in lakh) | (%) | Total Capital Cost as on 31.3.2024 (₹ in lakh) | (%) |
|-------------|---|--------|--|--------|
| Debt | 9583.33 | 70.00 | 9583.33 | 70.00 |
| Equity | 4106.84 | 30.00 | 4106.84 | 30.00 |
| Total | 13690.17 | 100.00 | 13690.17 | 100.00 |

Depreciation

- 43. Regulations 33(1), (2) and (5) of the 2019 Tariff Regulations provide 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."
- "(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."
- We have considered the submissions of the Petitioner. WAROD has been worked out at Annexure-2 after taking into account the depreciation rates as specified in the 2019 Tariff Regulations. The transmission asset will complete 12 years of life on 31.3.2023, hence the remaining depreciable value of ₹3185.58 lakh has been spread across the balance useful life of 22 years in accordance with Regulation 33(5) of the 2019 Tariff Regulations. The depreciation has been worked out considering the admitted capital expenditure as on 31.3.2019 and accumulated depreciation up to 31.3.2019. The depreciation allowed for the transmission asset is as follows:

(₹ in lakh)

| Particulars | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 |
|--------------------------------|----------|----------|----------|----------|----------|
| Opening Gross Block | 13690.17 | 13690.17 | 13690.17 | 13690.17 | 13690.17 |
| Addition during the year 2019- | | | | | |
| 24 due to projected Additional | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Capitalisation | | | | | |
| Closing Gross Block | 13690.17 | 13690.17 | 13690.17 | 13690.17 | 13690.17 |
| Average Gross Block | 13690.17 | 13690.17 | 13690.17 | 13690.17 | 13690.17 |
| Weighted average rate of | 5.29 | 5.29 | 5.29 | 5.29 | 1.06 |
| Depreciation (WAROD) (%) | 5.29 | 5.29 | 5.29 | 5.29 | 1.00 |
| Lapsed useful life at the | 8 | 9 | 10 | 11 | 12 |
| beginning of the year (Year) | 0 | 9 | 10 | 11 | 12 |
| Balance useful life at the | 26 | 25 | 24 | 23 | 22 |
| beginning of the year (Year) | 20 | 25 | 24 | 23 | 22 |
| Aggregated Depreciable Value | 12321.15 | 12321.15 | 12321.15 | 12321.15 | 12321.15 |
| Depreciation during the year | 723.61 | 723.61 | 723.61 | 723.61 | 144.80 |
| Cumulative Depreciation at the | 6964.74 | 7688.35 | 8411.96 | 9135.58 | 9280.37 |
| end of the year | 0904.74 | 7000.55 | 0411.90 | 9133.36 | 9200.37 |
| Remaining Aggregate | | | | | |
| Depreciable Value at the end | 5356.42 | 4632.80 | 3909.19 | 3185.58 | 3040.78 |
| of the year | | | | | |

Interest on Loan (IoL)

45. 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 decapitalization 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".
- 46. The weighted average rate of IoL has been considered on the basis of the rates 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 the 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 is follows:

(₹ in lakh)

| Particular | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 |
|---|---------|---------|---------|---------|---------|
| Gross Normative Loan | 9583.33 | 9583.33 | 9583.33 | 9583.33 | 9583.33 |
| Cumulative Repayments up to Previous Year | 6241.12 | 6964.74 | 7688.35 | 8411.96 | 9135.58 |
| Net Loan-Opening | 3342.21 | 2618.59 | 1894.98 | 1171.37 | 447.75 |



| Addition due to Additional Capitalization | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|---|---------|---------|---------|--------|--------|
| Repayment during the year | 723.61 | 723.61 | 723.61 | 723.61 | 144.80 |
| Net Loan-Closing | 2618.59 | 1894.98 | 1171.37 | 447.75 | 302.96 |
| Average Loan | 2980.40 | 2256.79 | 1533.17 | 809.56 | 375.36 |
| Weighted Average Rate of Interest on Loan (%) | 9.150 | 9.131 | 9.098 | 9.039 | 8.943 |
| Interest on Loan | 272.69 | 206.07 | 139.49 | 73.18 | 33.57 |

Return on Equity (RoE)

- 47. 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-ofriver 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 cutoff 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."



- 48. BRPL has submitted that as per Regulation 31(3) of the 2019 Tariff Regulations, the Petitioner has a statutory duty to undertake the true up of the grossed-up rate of RoE at the end of every financial year based on actual tax paid.
- 49. We have considered the submissions of BRPL and 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. RoE allowed for the transmission asset under Regulation 30 of the 2019 Tariff Regulations is as follows:

(₹ in lakh)

| Particulars | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 |
|---|---------|---------|---------|---------|---------|
| Opening Equity | 4106.84 | 4106.84 | 4106.84 | 4106.84 | 4106.84 |
| Addition due to Additional Capitalization | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Closing Equity | 4106.84 | 4106.84 | 4106.84 | 4106.84 | 4106.84 |
| Average Equity | 4106.84 | 4106.84 | 4106.84 | 4106.84 | 4106.84 |
| Return on Equity (Base Rate) (%) | 15.500 | 15.500 | 15.500 | 15.500 | 15.500 |
| Tax Rate applicable (%) | 17.472 | 17.472 | 17.472 | 17.472 | 17.472 |
| Rate of Return on Equity (Pre-tax) | 18.782 | 18.782 | 18.782 | 18.782 | 18.782 |
| Return on Equity (Pre-tax) | 771.35 | 771.35 | 771.35 | 771.35 | 771.35 |

Operation & Maintenance Expenses (O&M Expenses)

Regulation 35(3)(a) of the 2019 Tariff Regulations provides as follows: 50.

"35 (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 Norms for sub-station Bays (₹ Lakh per 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 17.83 18.46 16.08 16.64 17.23 Norms for Transformers (₹ Lakh per MVA) 0.491 0.508 0.545 765 kV 0.526 0.564 400 kV 0.398 0.358 0.371 0.384 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 (₹ Lakh per km)

| Single Circuit (Bundled Conductor with six or more sub-conductors) | 0.881 | 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:

- 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;
- the O&M expenses norms for HVDC bi-pole line shall be considered as Double ii. 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);
- the O&M expenses of ±800 kV Champa-Kurukshetra HVDC bi-pole scheme iv. (3000 MW) shall be on the basis of the normative O&M expenses for ±800 kV, Bishwanath-Agra HVDC bi-pole scheme;
- 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."
- 51. O&M Expenses claimed by the Petitioner for the transmission asset are as follows:

(₹ in lakh)

| Particulars | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 |
|--------------------------------|---------|---------|---------|---------|---------|
| Sub-station Bays | | | | | |
| 400kV – Kankroli: Jodhpur Bay | 1 | 1 | 1 | 1 | 1 |
| 400kV – Jodhpur: Kankroli Bay | 1 | 1 | 1 | 1 | 1 |
| Norm (₹ lakh/bay) | | | | | |
| 400kV | 32.150 | 33.280 | 34.450 | 35.660 | 36.910 |
| Total Sub-station O&M | 64.30 | 66.56 | 68.90 | 71.32 | 73.82 |
| AC transmission Lines | | | | | |
| Kankroli: Jodhpur 400kV Double | | | | | |
| Circuittransmission Line | 4.152 | 4.152 | 4.152 | 4.152 | 4.152 |
| (Twin/ Triple Conductor) | | | | | |
| Kankroli: Jodhpur 400kV Single | | | | | |
| Circuit Transmission Line | 183.848 | 183.848 | 183.848 | 183.848 | 183.848 |
| (Twin/ Triple Conductor) | | | | | |
| Norm (₹ lakh/KM) | | | | | |
| Double Circuit Line | 0.881 | 0.912 | 0.944 | 0.977 | 1.011 |
| (Twin/ Triple Conductor) | 0.001 | 0.912 | 0.944 | 0.977 | 1.011 |
| Single Circuit Line | 0.503 | 0.521 | 0.539 | 0.558 | 0.578 |
| (Twin/ Triple Conductor) | 0.503 | 0.521 | 0.559 | 0.556 | 0.576 |
| Total Transmission Line | 96.13 | 99.57 | 103.01 | 106.64 | 110.46 |
| Communication System | | | | | |
| PLCC (₹ in lakh) | 73.51 | 73.51 | 73.51 | 73.51 | 73.51 |
| Norms (%) | 2 | 2 | 2 | 2 | 2 |

| Total Communication System | 1.47 | 1.47 | 1.47 | 1.47 | 1.47 |
|-----------------------------------|--------|--------|--------|--------|--------|
| Total O&M Expenses | 161.90 | 167.60 | 173.38 | 179.43 | 185.75 |

52. 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 a part of the Substation 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. The relevant portions of the order dated 24.1.2021 in Petition No.126/TT/2020 are extracted hereunder.

"103. Thus, although PLCC equipment is a communication system, it has been considered as a part of sub-station, as it is used both for protection and communication. Therefore, we are of the considered view that rightly, it was not considered for separate O&M Expenses while framing norms of O&M for 2019-24 tariff period. While specifying norms for bays and transformers, O&M Expenses for PLCC have been included within norms for O&M Expenses for sub-station. Norms of O&M Expenses @2% of the capital cost in terms of Regulation 35(4) of the 2019 Tariff Regulations have been specified for communication system such as PMU, RMU, OPGW etc. and not for PLCC equipment."

"105. In our view, granting of O&M Expenses for PLCC equipment @2% of its capital cost under Regulation 35(4) of the 2014 Tariff Regulations under the communication system head would tantamount to granting O&M Expenses twice for PLCC equipment as PLCC equipment has already been considered as part of the sub-station. Therefore, the Petitioner's prayer for grant of O&M Expenses for the PLCC equipment @2% of its capital cost under Regulation 35(4) of the 2014 Tariff Regulations is rejected.

106. The principle adopted in this petition that PLCC is part of sub-station and accordingly no separate O&M Expenses is admissible for PLCC equipment in the 2019-24 tariff period under Regulation 35(4) of the 2019 Tariff Regulations shall be applicable in case of all petitions where similar claim is made by the Petitioner. As already mentioned, the Commission, however, on the basis of the claim made by the Petitioner has inadvertently allowed O&M Expenses for PLCC equipment @2% of its original project cost, which is applicable for other "communication system", for 2019-24 period in 31 petitions given in Annexure-3 of this order. Therefore, the decision in

this order shall also be applicable to all the petitions given in Annexure-3. Therefore, PGCIL is directed to bring this decision to the notice of all the stakeholders in the 31 petitions given in Annexure-3 and also make revised claim of O&M Expenses for PLCC as part of the sub-station at the time of truing up of the tariff allowed for 2019-24 period in respective petitions."

53. In view of the above finding, the Petitioner's claim for separate O&M Expenses for PLCC @2% is rejected. Accordingly, the O&M Expenses allowed for the asset covered in the instant petition are as follows:

(₹ in lakh)

| Particulars | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 |
|--------------------------------|---------|---------|---------|---------|---------|
| Sub-station Bays | | | | | |
| 400kV - Kankroli: Jodhpur Bay | 1 | 1 | 1 | 1 | 1 |
| 400kV – Jodhpur: Kankroli Bay | 1 | 1 | 1 | 1 | 1 |
| Norm (₹ lakh/bay) | | | | | |
| 400kV | 32.150 | 33.280 | 34.450 | 35.660 | 36.910 |
| Total Sub-station O&M | 64.30 | 66.56 | 68.90 | 71.32 | 73.82 |
| AC & HVDC Lines | | | | | |
| Kankroli: Jodhpur 400kV Double | | | | | |
| Circuit Line | 4.152 | 4.152 | 4.152 | 4.152 | 4.152 |
| (Twin/ Triple Conductor) | | | | | |
| Kankroli: Jodhpur 400kV Single | | | | | |
| Circuit Line | 183.848 | 183.848 | 183.848 | 183.848 | 183.848 |
| (Twin/ Triple Conductor) | | | | | |
| Norm (₹ lakh/KM) | | | | | |
| Double Circuit Line | 0.881 | 0.912 | 0.944 | 0.977 | 1.011 |
| (Twin/ Triple Conductor) | 0.001 | 0.512 | 0.544 | 0.311 | 1.011 |
| Single Circuit Line | 0.503 | 0.521 | 0.539 | 0.558 | 0.578 |
| (Twin/ Triple Conductor) | | | | | |
| Total Transmission Line | 96.13 | 99.57 | 103.01 | 106.64 | 110.46 |
| Total O&M Expenses | 160.43 | 166.13 | 171.91 | 177.96 | 184.28 |

Interest on Working Capital (IWC)

- Regulations 34(1)(c), 34(1)(3) and 34(1)(4) and 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;"
- The Petitioner has submitted that it has computed the 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 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 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) | 13.37 | 13.84 | 14.33 | 14.83 | 15.36 |
| Maintenance Spares (15% of O&M expenses) | 24.07 | 24.92 | 25.79 | 26.69 | 27.64 |
| Receivables (Equivalent to 45 days of annual fixed cost / annual transmission charges) | 241.19 | 233.98 | 226.40 | 218.88 | 141.98 |
| Total | 278.62 | 272.74 | 266.51 | 260.41 | 184.98 |
| Rate of Interest (%) | 12.05 | 11.25 | 11.25 | 11.25 | 11.25 |
| Interest of working capital | 33.57 | 30.68 | 29.98 | 29.30 | 20.81 |

Annual Fixed Charges for the 2019-24 Tariff Period

The transmission charges allowed for the transmission asset for the 2019-24 tariff period are summarised as follows:

(₹ in lakh)

| Particulars | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 |
|-----------------------------|---------|---------|---------|---------|---------|
| Depreciation | 723.61 | 723.61 | 723.61 | 723.61 | 144.80 |
| Interest on Loan | 272.69 | 206.07 | 139.49 | 73.18 | 33.57 |
| Return on Equity | 771.35 | 771.35 | 771.35 | 771.35 | 771.35 |
| Interest on Working Capital | 33.57 | 30.68 | 29.98 | 29.30 | 20.81 |
| Operation and Maintenance | 160.43 | 166.13 | 171.91 | 177.96 | 184.28 |
| Total | 1961.66 | 1897.84 | 1836.35 | 1775.40 | 1154.81 |

Filing Fee and Publication Expenses

- 57. 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.
- BRPL has objected to the claim of filing fee, submitting that the same is at the discretion of the Commission. It also submitted that this Commission in its order dated 11.9.2009 in Petition No. 129 of 2005 declined the reimbursement of filing fee holding that the Central Power Sector undertakings in furtherance of their business interests, are statutorily required to approach the Commission for determination and approval of the tariff.
- 59. We have considered the submissions of the Petitioner and BRPL. The Petitioner shall be entitled for reimbursement of 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

The Petitioner shall be entitled for reimbursement of licence fee in accordance with Regulation 70(4) of the 2019 Tariff Regulations for the 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 the 2019-24 tariff period.

Goods and Services Tax

- 61. The Petitioner has sought to recover GST on transmission charges separately from the Respondents, if at any time GST on transmission is withdrawn from negative list in future.
- 62. BRPL has objected to the prayer of the Petitioner regarding GST.
- 63. We have considered the submissions of the Petitioner and are of the opinion that GST is not levied on transmission service at present. Therefore, we are of the view that Petitioner's prayer is pre-mature and the Petitioner is at liberty to approach this Commission if GST is levied upon transmission service in future.

Security Expenses

64. The Petitioner has submitted that security expenses for the 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. 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 will be filed on 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 the difference, if any, between the estimated security expenses and actual security expenses as the

audited accounts may be allowed to be recovered from the beneficiaries on a yearly basis.

BRPL has submitted that if separate petitions are to be filed for claiming security expenses, then there is no need for IWC as the same is claimed in advance. BRPL also submitted that the Petitioner should clarify the provision of Regulations, under which such a claim has been made.

We have considered the submissions of the Petitioner and BRPL. 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 Petition No.260/MP/2020 claiming consolidated security expenses on projected basis for the 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

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

68. The billing, collection and disbursement of the transmission charges approved shall be governed by the provisions of the Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) Regulations, 2010 or the Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) Regulations, 2020, as applicable, as provided in Regulation 43

of the 2014 Tariff Regulations for the 2014-19 tariff period and Regulation 57 of the 2019 Tariff Regulations for the 2019-24 tariff period.

69. To summarise:

(b) The trued-up Annual Fixed Charges allowed for the transmission asset for the 2014-19 tariff period are as follows:

(c)

(₹ in lakh)

| Asset | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 |
|-------|---------|---------|---------|---------|---------|
| AFC | 2392.82 | 2335.66 | 2274.67 | 2213.82 | 2155.51 |

(b) The Annual Fixed Charges allowed for the transmission asset for the 2019-24 tariff period in this order are as follows:

 Asset
 2019-20
 2020-21
 2021-22
 2022-23
 2023-24

 AFC
 1961.66
 1897.84
 1836.35
 1775.40
 1154.81

- 70. Annexure-1 and Annexure-2 enclosed hereinafter form part of the order.
- 71. This order disposes of Petition No. 101/TT/2020 in terms of the above discussion and findings.

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

Annexure-1

| 2014-19 | Admitted Capital Cost as on | ACE (₹ in lakh) | Admitted Capital Cost as on 31.3.2019 (₹ in lakh) | Rate of Depreciation (%) | Annual Depreciation as per Regulations | | | | | |
|-------------------------------------|-----------------------------------|--------------------|---|--------------------------------|--|------------------------|------------------------|------------------------|------------------------|--|
| Capital Expenditure as on COD | COD (₹ in lakh) | 2014-19 | , | | 2014-15 (₹ in lakh) | 2015-16 (₹ in lakh) | 2016-17 (₹ in lakh) | 2017-18 (₹ in lakh) | 2018-19 (₹ in lakh) | |
| Transmission Line | 11911.39 | 0.00 | 11911.39 | 5.28 | 628.92 | 628.92 | 628.92 | 628.92 | 628.92 | |
| Sub Station | 1705.27 | 0.00 | 1705.27 | 5.28 | 90.04 | 90.04 | 90.04 | 90.04 | 90.04 | |
| PLCC | 73.51 | 0.00 | 73.51 | 6.33 | 4.65 | 4.65 | 4.65 | 4.65 | 4.65 | |
| TOTAL | 13690.17 | 0.00 | 13690.17 | | 723.61 | 723.61 | 723.61 | 723.61 | 723.61 | |
| | | | Average Gross Block (₹ in lakh) | | 13690.17 | 13690.17 | 13690.17 | 13690.17 | 13690.17 | |
| | | | Weighted Average Rate of Depreciation (%) | | 5.29 | 5.29 | 5.29 | 5.29 | 5.29 | |

Annexure-2

| 2019-24 | Admitted Capital Cost as on | Admitted Capital Cost as on | Rate of Depreciation | Annual Depreciation as per Regulations | | | | | |
|--|---|--------------------------------------|------------------------|--|------------------------|------------------------|------------------------|------------------------|--|
| Capital Expenditure as on 1.4.2019 | 1.4.2019 (₹ in lakh) | 31.3.2019 (₹ in lakh) | (%) | 2019-20 (₹ in lakh) | 2020-21 (₹ in lakh) | 2021-22 (₹ in lakh) | 2022-23 (₹ in lakh) | 2023-24 (₹ in lakh) | |
| Transmission Line | 11911.39 | 11911.39 | 5.28 | 628.92 | 628.92 | 628.92 | 628.92 | | |
| Sub Station | 1705.27 | 1705.27 | 5.28 | 90.04 | 90.04 | 90.04 | 90.04 | | |
| PLCC | 73.51 | 73.51 | 6.33 | 4.65 | 4.65 | 4.65 | 4.65 | | |
| TOTAL | 13690.17 | 13690.17 | | 628.92 | 628.92 | 628.92 | 628.92 | 144.80 | |
| | | _ | Gross Block n lakh) | 13690.17 | 13690.17 | 13690.17 | 13690.17 | 13690.17 | |
| | Weighted Average Rate of Depreciation (%) | | 5.29 | 5.29 | 5.29 | 5.29 | 1.06 | | |