THE CENTRAL ELECTRICITY REGULATORY COMMISSION NEW DELHI

Petition	No.	/TT/

IN THE MATTER OF: -

Petition for truing up of transmission tariff for 2019-24 and determination of transmission tariff for 2024-29 tariff block for **Additional Special Energy Meters in Northern Region** under Section 62 read with Section 79 (1) (d) of the Electricity Act, 2003 and under the Regulation 15 (1) (a) and Regulation 23 of Central Electricity Regulatory Commission (Conduct of Business) Regulations, 2023 read with Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 and Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024.

Power Grid Corporation of India Ltd.

--- PETITIONER

Registered office: B-9, Qutab Institutional Area,

Katwaria Sarai, New Delhi, 110 016.

Corporate Centre: 'SAUDAMINI', Plot No-2,

Sector-29, Gurgaon-122 001 (Haryana).

--- RESPONDENT(S)

Uttar Pradesh Power Corporation Ltd.

Shakti Bhawan, 14, Ashok Marg

Lucknow - 226 001

Represented by Its Chairman

And others

FILED BY

POWER GRID CORPORATION OF INDIA LTD.

GURGAON

REPRESENTED BY

DATED: 25.07.2024

(V.C. Sekhar)

Sr. General Manager (Regulatory Cell)



THE CENTRAL ELECTRICITY REGULATORY COMMISSION NEW DELHI

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POWER GRID CORPORATION OF INDIA LTD.

GURGAON

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(V.C. Sekhar)

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THE CENTRAL ELECTRICITY REGULATORY COMMISSION NEW DELHI

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IN THE MATTER OF: Petition for truing up of transmission tariff for 2019-24 and determination of transmission tariff for 2024-29 tariff block for Additional Special Energy Meters in Northern Region under Section 62 read with Section 79 (1) (d) of the Electricity Act, 2003 and under the Regulation 15 (1) (a) and Regulation 23 of Central Electricity Regulatory Commission (Conduct of Business) Regulations, 2023 read with Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 and Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024.

Power Grid Corporation of India Ltd.

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Uttar Pradesh Power Corporation Ltd.

---- RESPONDENT(S)

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Lucknow - 226 001

Represented by Its Chairman

And others

To
The Secretary
Central Electricity Regulatory Commission
New Delhi 110001
Sir,

The present tariff Petition is filed under Section 62 read with Section 79 (1) (d) of the Electricity Act, 2003 and under the Regulation 15 (1) (a) and Regulation 23 of Central Electricity Regulatory Commission (Conduct of Business) Regulations, 2023 read with Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 and Central Electricity Regulatory Commission (Terms and Conditions of Tariff)

Regulations, 2024 and same may please be registered and taken on record by the Hon'ble Commission.

GURGAON FILED BY

DATED:- 25.07.2024

POWER GRID CORPORATION OF INDIA LTD.

REPRESENTED BY

(V.C. Sekhar)

Sr. General Manager (Regulatory Cell)



THE CENTRAL ELECTRICITY REGULATORY COMMISSION NEW DELHI

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Uttar Pradesh Power Corporation Ltd.

---- RESPONDENT(S)

Shakti Bhawan, 14, Ashok Marg

Lucknow - 226 001

Represented by Its Chairman

And others

MEMO OF PARTIES

Power Grid Corporation of India Ltd.

VERSUS

--- PETITIONER

Northern Region

--- RESPONDENT

- 1. UTTAR PRADESH POWER CORPORATION LTD. SHAKTI BHAWAN, 14, ASHOK MARG LUCKNOW - 226 001 REPRESENTED BY ITS CHAIRMAN
- 2. AJMER VIDYUT VITRAN NIGAM LTD CORPORATE OFFICE, VIDYUT BHAWAN, PANCHSHEEL NAGAR, MAKARWALI ROAD AJMER-305004 (RAJASTHAN) REPRESENTED BY ITS MANAGING DIRECTOR





- 3. JAIPUR VIDYUT VITRAN NIGAM LTD 132 KV, GSS RVPNL SUB- STATION BUILDING, CALIGIRI ROAD, MALVIYA NAGAR, JAIPUR-302017 (RAJASTHAN) REPRESENTED BY ITS MANAGING DIRECTOR
- 4. JODHPUR VIDYUT VITRAN NIGAM LTD NEW POWER HOUSE, INDUSTRIAL AREA , JODHPUR – 342 003(RAJASTHAN) REPRESENTED BY ITS MANAGING DIRECTOR
- 5. HIMACHAL PRADESH STATE ELECTRICITY BOARD LTD VIDYUT BHAWAN KUMAR HOUSE COMPLEX BUILDING II SHIMLA-171 004 REPRESENTED BY ITS CHAIRMAN
- 6. PUNJAB STATE POWER CORPORATION LIMITED THE MALL, PSEB HEAD OFFICE, PATIALA - 147 001 REPRESENTED BY ITS CHAIRMAN AND MANAGING DIRECTOR
- 7. HARYANA POWER PURCHASE CENTRE SHAKTI BHAWAN, SECTOR-6 PANCHKULA (HARYANA) 134 109 REPRESENTED BY ITS S.E. / C & R-1
- 8. JAMMU KASHMIR POWER CORPORATION LIMITED 220/66/33 KV GLADNI SS SLDC BULIDING NARWAL, JAMMU REPRESENTED BY ITS CHAIRMAN
- BSES YAMUNA POWER Ltd,
 B-BLOCK, SHAKTI KIRAN, BLDG.
 (NEAR KARKADOOMA COURT),
 KARKADOOMA 2ND FLOOR,
 NEW DELHI-110092
 REPRESENTED BY ITS CEO
- 10. BSES RAJDHANI POWER Ltd, BSES BHAWAN, NEHRU PLACE, NEW DELHI REPRESENTED BY ITS CEO



- 11. TATA POWER DELHI DISTRIBUTION LTD.
 33 KV SUBSTATION, BUILDING
 HUDSON LANE, KINGSWAY CAMP
 NORTH DELHI 110009
 REPRESENTED BY ITS CEO
- 12. CHANDIGARH ELECTRICITY DEPTT.
 CHANDIGARH ADMINISTRATION
 SECTOR -9, CHANDIGARH.
 REPRESENTED BY ITS CHIEF ENGINEER
- 13. UTTARAKHAND POWER CORPORATION LTD.
 URJA BHAWAN
 KANWALI ROAD
 DEHRADUN.
 REPRESENTED BY ITS MANAGING DIRECTOR
- 14. NORTH CENTRAL RAILWAY
 ALLAHABAD.
 REPRESENTED BY CHIEF ELECTRICAL
 DISTRIBUTIONENGINEER
- 15. NEW DELHI MUNICIPAL COUNCIL PALIKA KENDRA, SANSAD MARG, NEW DELHI-110002 REPRESENTED BY CHAIRMAN

PETITIONER

POWER GRID CORPORATION OF INDIA LTD.

GURGAON

REPRESENTED BY

DATED: 25.07.2024

(V.C. Sekhar)

Sr. General Manager (Regulatory Cell)



THE CENTRAL ELECTRICITY REGULATORY COMMISSION NEW DELHI

Petition No. ---/TT/----

IN THE MATTER OF: Petition for truing up of transmission tariff for 2019-24 and determination of transmission tariff for 2024-29 tariff block for Additional Special Energy Meters in Northern Region under Section 62 read with Section 79 (1) (d) of the Electricity Act, 2003 and under the Regulation 15 (1) (a) and Regulation 23 of Central Electricity Regulatory Commission (Conduct of Business) Regulations, 2023 read with Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 and Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024.

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Uttar Pradesh Power Corporation Ltd.

Shakti Bhawan, 14, Ashok Marg

Lucknow - 226 001

Represented by Its Chairman

And others

--- RESPONDENT(S)

MEMO OF APPEARANCE

POWER GRID CORPORATION OF INDIA LTD.

-- PETITIONER

- 1. Shri Dilip Nagesh Rozekar, ED (Commercial & RC), POWERGRID
- 2. Shri Mohd. Mohsin, Chief GM (Comml- Petition), POWERGRID
- 3. V.C. Sekhar, Sr. GM (Commercial-RC), POWERGRID
- 4. Shri Zafrul Hasan, GM (Comml- Petition), POWERGRID



I, V.C. Sekhar, the Petitioner above named do hereby nominate to act, plead and appear on my behalf in the aforesaid matter.

IN WITNESS WHEREOF I have set and subscribed my hands to this writing on this --- day of July 2024.

PETITIONER

POWER GRID CORPORATION OF INDIA LTD.

GURGAON

DATED:- 25.07.2024

(V.C. Sekhar)

Sr. General Manager (Regulatory Cell)



THE CENTRAL ELECTRICITY REGULATORY COMMISSION NEW DELHI

PETITION NO.:	
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IN THE MATTER OF: Petition for truing up of transmission tariff for 2019-24 and determination of transmission tariff for 2024-29 tariff block for Additional Special Energy Meters in Northern Region under Section 62 read with Section 79 (1) (d) of the Electricity Act, 2003 and under the Regulation 15 (1) (a) and Regulation 23 of Central Electricity Regulatory Commission (Conduct of Business) Regulations, 2023 read with Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 and Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024.

Power Grid Corporation of India Ltd

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Uttar Pradesh Power Corporation Ltd.

---- RESPONDENT(S)

Shakti Bhawan, 14, Ashok Marg

Lucknow - 226 001

Represented by Its Chairman

And others

A. Executive Summary of the Petition:

(i) Brief Background of the Petitioner

1. The Petitioner herein, Power Grid Corporation of India Ltd. (Hereinafter referred to as "POWERGRID/Petitioner") is a Government Company within the meaning of the Companies Act, 2013. POWERGRID is deemed transmission licensee in terms of Section 14 of the Electricity Act, 2003. POWERGRID by virtue of a transmission licensee is required to inter-alia build, own, operate and maintain an efficient, coordinated and economical inter-state transmission system ("ISTS"). POWERGRID operates and functions within the regulatory control of this Hon'ble Central Electricity Regulatory Commission (hereinafter referred to as "Hon'ble Commission"). Tanton

the transmission system established by POWERGRID is required to be determined by this Hon'ble Commission in accordance with the Tariff Regulations as notified by this Hon'ble Commission in exercise of its powers under Section 178 of the Electricity Act, 2003.

(ii) Brief background of the Respondent(s):

POWERGRID has impleaded distribution licensees and Government departments of the respective states which are engaged in distribution of electricity in Northern Region of India. The respondents are also 'Designated Inter State Transmission Customer' (hereinafter referred to as 'DICs') from Northern region in terms of the 2020 Sharing Regulations.

(iii) Background of Transmission Assets:

2. POWERGRID has filed the present petition for truing up of transmission tariff for 2019-24 and determination of transmission tariff for 2024-29 tariff block for below asset in Northern Region:

Asset No	Asset Name	DOCO	Remarks
Asset-1	Additional Special Energy Meters in Northern Region	01.04.2011	-

(iv)Summary of Claims:

- 3. A. POWERGRID is seeking truing up of transmission tariff for 2019-24 and determination of transmission tariff for 2024-29 tariff block for aforesaid transmission asset on capital cost comprising of expenditure incurred/Admitted upto 31.03.2019/DOCO and additional capital expenditure during 2019-24 & 2024-29 in accordance with provisions of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 ("Tariff Regulations, 2019") and Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 ("Tariff Regulations, 2024").
- 4. The details of capital cost as on 31.03.2019 and additional capital expenditure during 2019-24 and 2024-29 tariff block are as under:



Rs in lakhs

Asset No.	Expenditure	Expenditure	Actual Cost
	Up to DOCO	during 2019-24	as on
	/31.03.2019	tariff block	31.03.2024
Asset-1	159.18	No add cap	159.18

Rs in lakhs

Asset No.	Expenditure	Expenditure	Actual Cost
	Up to	during 2024-29	as on
	31.03.2024	tariff block	31.03.2029
Asset-1	159.18	No add cap	159.18

5. Details of tariff claimed are as under:

True up annual transmission tariff for 2019-24 tariff block:

Rs in Lakhs

Name of the asset	Particular	2019-20	2020-21	2021-22	2022-23	2023-24
	AFC approved	22.26	22.15	21.28	20.42	14.65
Asset-1	Revised AFC based on truing up	21.51	20.68	19.85	19.04	13.32

Tariff claimed for 2024-29 tariff block:

Rs in Lakhs

Name of the asset	2024-25	2025-26	2026-27	2027-28	2028-29
Asset-1	13.00	12.69	12.48	12.43	12.44

- **6.** It is prayed to hon'ble commission to reimburse expenditure of petition filing fee, license fee, newspaper publication expenses and RLDC fee & charges etc.
 - B. Detailed Petition:

MOST RESPECTFULLY SHOWETH:

Issue wise submission(s):



- 7. The Petitioner herein, Power Grid Corporation of India Ltd/ POWERGRID. is a Government Company within the meaning of the Companies Act, 1956. POWERGRID is a deemed transmission licensee under Section 14 of the Electricity Act 2003.
- 8. POWERGRID being transmission licensee is required to inter-alia build, own, operate and maintain an efficient, coordinated and economical inter-state transmission system (ISTS). The tariff for the said transmission systems shall be determined by the Hon'ble Commission in accordance with the provisions of Tariff Regulations, 2019 and 2024.
- 9. That the subject project/petition covers approval of transmission tariff for following Asset:

Asset No	Asset Name	DOCO	Remarks
Asset-1	Additional Special Energy Meters in Northern Region	01.04.2011	Earlier covered under petition no. 103/TT/2020 now covered under instant petition

10. Cost details:

The capital cost of Rs. 159.18 Lakhs as on 31.03.2019 and Rs. 167.68 as on 31.03.2024 for subject Asset has been admitted by Hon'ble commission vide order dated 17.10.2021 in petition no. 103/TT/2020. Copy of order is enclosed as **Encl-1**. In the current petition, no additional capital expenditure was incurred during the 2019-24 tariff block, and no additional capital expenditures are proposed during the 2024-29 tariff block.

11. <u>Transmission tariff:</u>

The truing up exercise for the period 2019-2024 is to be done at the time of filing tariff petition for next block, i.e. 2024-29 period as per Regulation 13 of Tariff Regulation, 2019.

Regulation 13 of Tariff Regulation, 2019:

Quote



"The Commission shall carry out truing up exercise for the period 2019-24 along with the tariff petition filed for the next tariff period, for the following:

Unquote

That the Petitioner is required to adjust the yearly impact of MAT as per Regulation 31 (3) of the Tariff Regulations, 2019 dated 07.03.2019 in the truing up petition for 2019-24 tariff block.

Regulation 31 (3) of the tariff Regulation, 2019:

Quote

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.

Unquote

It is submitted that the Income Tax assessment of the Petitioner has been completed and Assessment Orders have been issued by the Income Tax Department for FY 2019-20 and 2020-21; and that the Income Tax returns have been filed with the Income Tax Department for FY 2021-22 & 2022-23. Further, it is submitted that the Income Tax Return for 2023-24 will be filed in due course.

As such, basis of year wise effective tax rate and Grossed up ROE to be trued up accordingly for the block period 2019-24 is summarized as under:-

Financial Basis Year considered	Total Tax & Interest paid (Rs)	Assessed MAT Income under Sec 115 JB (Rs)	Effective Tax percentage	Grossed up ROE (Base rate/(1-t)	
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2019-20	Assessment Order	24,52,62,76,991	1,40,37,47,53,855	17.472%	18.782%
2020-21	Assessment Order	26,08,93,59,008	1,49,32,09,65,036	17.472%	18.782%
2021-22	Actual Tax paid	31,81,46,40,406	1,82,08,92,88,030	17.472%	18.782%
2022-23	Actual Tax paid	30,42,88,20,993	1,74,15,76,29,306	17.472%	18.782%
2023-24	Applicable Rate #		#	17.472%	18.782%

Based on the applicable rate of MAT @ 15 %, Surcharge @ 12% & Cess @ 4%

The above Effective Tax percentage shall be applied by the petitioner in arriving out the Grossed up ROE rate in all cases of truing up petitions to be filed for the period 2019-24. It is submitted that effective rate of tax considered for FY 2019-20 and 2020-21 are based on Assessment Order issued by Income-Tax authorities, for the purpose of grossing up of ROE rate and that the effective rate of tax considered for F/Y 2021-22 and F/Y 2022-23 are based on the Income-tax returns filed, for the purpose of grossing up of ROE rate of respective years. Further, for F/Y 2023-24, pending filing of ITR, effective tax rate is calculated based the applicable MAT rate (i.e. MAT 15% + Surcharge 12.00% + Cess 4%), for the purpose of grossing up of ROE rate.

The Hon'ble Commission is 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 the F/Y 2019-20, 2020-21,2021-22,2022-23 and 2023-24 on receipt of the respective assessment orders, directly from the beneficiaries, on year to year basis as provided in the regulation.

In line with the above Regulation, the tariff for each year of the tariff period 2019-24 block has been trued up considering the above Effective Tax percentage to arrive at Grossed up ROE rate.

While filing Tariff petition for 2019-24 period, the petitioner had prayed for allowing the floating rate of Interest on loan adjustments. As per Hon'ble Commission order dated 18.04.2022 in petition no. 26/TT/2021, it has been stated that the weighted average rate of IoL has been considered on the basis of rate prevailing as on 1.4.2019 and accordingly,

the floating rate of interest on actual, applicable from time to time, if any, during 2019-24 tariff shall be considered at the time of true up or next revision of tariff.

Accordingly in the present petition, truing up of transmission tariff for the tariff block 2019-24 is being carried out based on of actual additional capitalization during 2019-24 tariff block, change in MAT rate as well as actual floating rate of interest during 2019-24.

12. The trued up annual transmission tariff for the tariff period 2019-24 is summarized as below:

Rs in Lakh

Project		2019-20	2020-21	2021-22	2022-23	2023-24
Asset-1	AFC approved	22.26	22.15	21.28	20.42	14.65
	Revised AFC based on truing up	21.51	20.68	19.85	19.04	13.32

Tariff filing forms along with the other relevant information and supporting documents are attached hereto as **Encl-2**.

That in the subject petition, details are provided in various Tariff Forms with respect to Capital Cost as per books / Gross Block amount as per Books. It is submitted that the petitioner has opted for deemed cost exemption as per Para D7 AA of Ind AS 101 'First-time Adoption of Indian Accounting Standards". Accordingly Carrying value i.e. Gross Block less Accumulated Depreciation is considered as deemed cost as on the date of transition i.e. 1st April 2015. As such, in case of assets commissioned before 01.04.2015, the accumulated depreciation as on 1st April 2015 is added back to the deemed Capital Cost as per books / Gross Block amount as per Books for arriving at the figures to be provided in various Tariff Forms.

13. The tariff worked out for 2024-29 tariff block is summarized below:

Rs in Lakh

Project		2024-25	2025-26	2026-27	2027-28	2028-29
Asset-1	AFC	13.00	12.69	12.48	12.43	12.44

Tariff filing forms along with the other relevant information and supporting documents are attached hereto as **Encl-3**.

- 14. The asset has completed 12 Yrs of life in 2022-23, and thus the remaining depreciable amount at end of 12 yrs have been spread over the balance useful life of the asset as per clause 33 (5) of the CERC Tariff Regulations, 2024. The details have been computed and are provided in Form- 10 A.
- 15. That, it is submitted that the petitioner is currently liable to pay income tax at MAT rate specified in Income-tax Act,1961. Therefore, ROE has been calculated @ 18.782% after grossing up the ROE with MAT rate of 17.472% (Base Rate 15% + Surcharge 12% + Cess 4%) based on the formula given at regulation 31 of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 for 2024-29 period. That as per clause 31 (3) of the above regulation, the grossed up rate of ROE at the end of every financial year shall be trued up 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 IT authorities pertaining to the tariff period 2024-29 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 ROE 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. It is further submitted that adjustment due to any additional tax demand including interest duly adjusted for any refund of tax including interest received from IT authorities shall be recoverable /adjustable during the tariff period 2024-29 on year to year basis on receipt of Income Tax assessment order.
- 16. Under CGST Act, 2017 implemented w.e.f. 01.07.2017, the Govt. of India has exempted the charges of transmission of electricity vide notification no. 12/2017 Central Tax (Rate) dated 28.06.2017 at serial no. 25 under the heading 9969 "Transmission or distribution of electricity by an electric transmission or distribution utility" by giving applicable GST rate as NIL. Hence, the Transmission Charges as indicated at para 12 and para-13 above is exclusive of GST. Further, 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 & billed separately by the petitioner. Further additional taxes, if any, are to be paid by the petitioner on account of demand from Govt. Statutory authorities, the same may be allowed to be recovered from the beneficial experience.

17. In the tariff calculations for 2019-24 period, Interest on Loan has been calculated on the basis of actual rate of interest of various loans deployed for each year. In the tariff calculations for 2024-29 period, Interest on Loan has been calculated on the basis of interest rates prevailing as on 01.04.2024 for respective loans. The change in Interest rate due to floating rate of interest applicable, if any, for the project needs to be claimed / adjusted over the tariff block of 05 years directly from / with the beneficiaries.

For the purpose of the supporting documents for rate of interest, a compendium of floating rate of interest of various loans during the tariff period 2019-24 will be submitted shortly with a Truing-up petition and the details of the same will be submitted through an affidavit once submitted. These documents/details will also be made available on our website www.powergrid.in.

- **18.** No O&M expense have been claimed in instant Petition.
- 19. That as per Regulation 36(3)(d) of CERC Tariff Regulations, 2024, the Security Expenses, Insurance and Capital Spares more than Rs. 10 Lakh for transmission system shall be allowed separately after prudence check.

Security Expenses:

In this regard, it is submitted that a separate petition shall be filed for truing up of security expenses from 01.04.2019 to 31.03.2024 under the Regulation 35 (3) (C) of Central Electricity Regulatory Commission (Terms and Condition of Tariff) Regulations, 2019 and recovery of security expenses from 01.04.2024 to 31.03.2029 under the Regulation 36 (3) (d) of Central Electricity Regulatory Commission (Terms and Condition of Tariff) Regulations, 2024.

Insurance:

In this regard, it is submitted that a separate petition shall be filed before Hon'ble Commission for claiming the overall Insurance Expenses and consequential Interest on Working Capital (IOWC) on the same considering actual Insurance Expense incurred by the Petitioner for the F/Y 2023-24 after escalating the same at 5.25% per annum for arriving at the Estimated Insurance Expense for the year 2024-25, 2025-26, 2026-27, 2027-28 and 2028-29.

Capital Spare:

With regard to Capital Spares, the Petitioner has filed a separate Petition bearing No 45/MP/2024 for claiming the capital spares under Tariff Regulation, 2019 for 2019-24 period. Further, as per Tariff Regulations, 2024, Capital spares consumed and consequential Interest on Working Capital (IOWC) on the same shall be claimed by the Petitioner for 2024-29 period as per actual through a separate petition.

Accordingly, these expenses are not claimed in the subject petition through the relevant Tariff Forms and shall be claimed separately.

20. That as per Regulation 99 of CERC Tariff Regulations, 2024, the fees and charges of Central Transmission Utility of India Limited ('CTUIL') shall be allowed separately by the Commission through a separate regulation. Further, it provides that until such regulation is issued by the Commission, the expenses of CTUIL shall be borne by POWERGRID which shall be recovered by POWERGRID as additional O&M expenses through a separate petition.

Accordingly, the expenses of CTUIL borne by POWERGRID shall be claimed through a separate petition.

- 21. The application filing fee, expenses incurred on publication of Notices in Newspapers and License fee may be allowed to be recovered separately from the respondents in terms of Regulation 94(1) and Regulation 94(4) of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024. The fees and charges to be paid by the petitioner as ISTS licensee (deemed ISTS licensee) under CERC (Fees and Charges of RLDC and other matters) Regulations, 2023 as amended from time to time shall also be recoverable from the DICs as provided under clause 94(3) of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024.
- 22. The Transmission Charges and other related Charges indicated at para 12 & 13 above, is exclusive of incentive, late payment surcharge, FERV, any statutory taxes, levies, duties, cess, filing fees, license fee, RLDC fees and charges or any other kind of imposition (s) and/ or other surcharges etc. whatsoever imposed / charged by any Government (Central/State) and / or any other local bodies/authorities in relation to transmission of electricity, environmental protection, and/or

in respect of any of its installation associated with the Transmission System and the same shall be borne and additionally paid by the respondent(s) to the petitioner and the same shall be charged, billed separately by the petitioner on the respondents.

23. Sharing of Transmission Charges

Tariff for Transmission of Electricity (Annual Fixed Cost) for 2019-24 as per para 12 above shall be recovered on monthly basis in accordance with Regulation 57 of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 and shall be shared by the beneficiaries and long-term transmission customers in terms of Central Electricity Regulatory Commission (Sharing of Inter State Transmission Charges and Losses) Regulations, 2010 and/or Central Electricity Regulatory Commission (Sharing of Inter State Transmission Charges and Losses) Regulations, 2020, as amended from to time for the applicable periods.

Tariff for Transmission of Electricity (Annual Fixed Cost) for 2024-29 as per para 13 above shall be recovered on monthly basis in accordance with Regulation 78 of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 and shall be shared by the beneficiaries and long-term transmission customers in terms of Central Electricity Regulatory Commission (Sharing of Inter State Transmission Charges and Losses) Regulations, 2020, as amended from to time.

24. In the circumstances mentioned above, it will be just and proper that the transmission tariff for the asset covered under this petition be allowed to be charged from the beneficiaries on the basis set out above. The Petitioner submits that Encl.-1 to Encl.-3 may please be treated as integral part of this petition.

A. PRAYER

It is respectfully prayed that the Hon'ble Commission may be pleased to:

- a) Approve the trued-up Transmission Tariff for 2019-24 block and transmission tariff for 2024-29 block for the asset covered under this petition, as per para 12 and 13 above.
- b) Allow the petitioner to recover the shortfall or refund the excess Annual Fixed Charges, on account of Return on Equity due to change in applicable Minimum Alternate/Corporate Income Tax rate as per the Income Tax Act, 1961 (as amended from time to time) of the respective financial year directly without making any

application before the Commission as provided in Tariff Regulations, 2019 and Tariff Regulations, 2024 as per para 12 and 13 above for respective block.

- c) Approve the reimbursement of expenditure by the beneficiaries towards petition filing fee, and expenditure on publishing of notices in newspapers in terms of Regulation 94
 (1) Central Electricity Regulatory Commission (Terms and Conditions of Tariff)
 Regulations, 2024, and other expenditure (if any) in relation to the filing of petition.
- d) Allow the petitioner to bill and recover RLDC fees & charges and Licensee fee, separately from the respondents in terms of Regulation 94 (3) and (4) Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024.
- e) Allow the petitioner to bill and adjust impact on Interest on Loan due to change in Interest rate on account of floating rate of interest applicable during 2024-29 period, if any, from the respondents.
- f) Allow the petitioner to file a separate petition before Hon'ble Commission for claiming the overall security expenses and consequential IOWC on that security expenses as mentioned at para 19 above.
- g) Allow the petitioner to file a separate petition before Hon'ble Commission for claiming the overall insurance expenses and consequential IOWC on that insurance expenses as mentioned at para 19 above.
- h) Allow the petitioner to file a separate petition before Hon'ble Commission for claiming the overall capital spares at the end of tariff block as per actual as mentioned at Para 19 above.
- Allow the petitioner to claim expenses of CTUIL borne by POWERGRID through a separate petition as mentioned at para 20 above.
- j) Allow the Petitioner to bill and recover GST on Transmission Charges separately from the respondents, if GST on transmission is levied at any rate in future. Further, any taxes including GST and duties including cess etc. imposed by any statutory/Govt./municipal authorities shall be allowed to be recovered from the

beneficiaries.

and pass such other relief as Hon'ble Commission deems fit and appropriate under the circumstances of the case and in the interest of justice

FILED BY

GURGAON

POWER GRID CORPORATION OF INDIA LTD.

DATED:- 25.07.2024

REPRESENTED BY

(V.C. Sekhar)

Sr. General Manager (Regulatory Cell)



THE CENTRAL ELECTRICITY REGULATORY COMMISSION NEW DELHI

PETITION NO.:

IN THE MATTER OF: Petition for truing up of transmission tariff for 2019-24 and determination of transmission tariff for 2024-29 tariff block for Additional Special Energy Meters in Northern Region under Section 62 read with Section 79 (1) (d) of the Electricity Act, 2003 and under the Regulation 15 (1) (a) and Regulation 23 of Central Electricity Regulatory Commission (Conduct of Business) Regulations, 2023 read with Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 and Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024.

Power Grid Corporation of India Ltd.

Registered office: B-9, Qutab Institutional Area,

--- PETITIONER

Katwaria Sarai, New Delhi. 110 016.

Corporate Centre: 'SAUDAMINI', Plot No-2,

Sector-29, Gurgaon-122 001 (Haryana).

Uttar Pradesh Power Corporation Ltd.

---- RESPONDENT(S)

Shakti Bhawan, 14, Ashok Marg

Lucknow - 226 001

Represented by Its Chairman

And others

AFFIDAVIT VERIFYING THE PETITION

I, V.C. Sekhar, S/O Late Sh. V. Devaiah, working as Senior General Manager (Regulatory Cell) in the Power Grid Corporation of India Ltd., having its registered Office at B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi-110 016, do hereby solemnly affirm and state as under: -

1. That the deponent is the Senior General Manager of Petitioner and is well conversant with the facts and the circumstances of the case and therefore competent to sweathis

affidavit.

Mahender S. Punia Gurugram Regn. No. 3999

- 2. That the accompanying Petition under Section 62 of the Electricity Act, 2003, has been filed by my authorized representative/nominated counsel under my instruction and the contents of the same are true and correct to the best of my knowledge and belief.
- 3. That the contents of Para 01 to 24 of the facts as mentioned in the Petition are true and correct based on my personal knowledge, belief and records maintained in the office and the contents of Para 01 to 24 of the Petition are believed to be true on the basis of the legal advice received.
- 4. That the annexures annexed to the Petition are correct and true copies of the respective originals.
- 5. That the Deponent has not filed any other Petition or Appeal before any other forum or court of law with respect to the subject matter of the dispute

VERIFICATION

Solemnly affirmed at Gurgaon on this 25th day of July' 2024 that the contents of the affidavit are true to my knowledge and belief and no part of it is false and nothing hateria has been concealed there from.

(DEPONENT)









पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड

(भारत सरकार का उद्यम)

POWER GRID CORPORATION OF INDIA LIMITED

(A Government of India Enterprise)

पावर ग्रिड कॉरपोरेशन ऑफ इन्डिया लिमिटेड केन्द्रीय वाणिज्यिक विभाग

Ref: CC/Commercial/2022

Date:-13.12.2022

LETTER OF AUTHORIZATION

Pursuant to the POWER OF ATTORNEY dated 08.12.2022 and in supersession of the letters of authorization dated 19.07.2022, I hereby authorize the following Executives to sign on Vakalatnama, Affidavits and to appear and conduct case proceedings on behalf of the company before CERC, SERC, APTEL, High Courts and Supreme Court.

- 1. Sh. Zafrul Hasan, Sr. DGM (Commercial)
- 2. Sh. V.C Sekhar, GM (Regulatory Cell)
- 3. Sh. Bipin Bihari Rath, Sr.GM (Commercial)
- 4. Sh. Mohd Mohsin, Sr. GM (Commercial)
- 5. Sh. V. Srinivas, CGM (Commercial BCD)

6. Sh. S.S Raju, CGM (Commercial)

Mukesh Khanna

ED (Commercial &RC)

केन्द्रीय कार्यालय : ''सौदामिनी'' प्लॉट सं. 2, सेक्टर-29, गुरूग्राम-122001 (हरियाणा), दूरभाष : 0124-2822000 (Corporate Office : "Saudamini", Plot No. 2, Sector-29, Gurugram-122001, (Haryana) Tel. : 0124-2822000)

पंजीकृत कार्यालय : बी-9, कुतुब इंस्टीट्यूशनल एरिया, कटवारिया सराय, नई दिल्ली-110016 011-26560112, 26564812, 26564892, सीआ (1995) 1988 GOI038121 Registered Office : B-9, Qutab Institutional Area, Katwaria Saral, New Delhi-110016. Tel.: 011-26560112, 26564812, 26564892, CIN (2010) 1989 GOI038121 Website : www.powergrid.in

CENTRAL ELECTRICITY REGULATORY COMMISSION NEW DELHI

Petition No. 103/TT/2020

Coram:

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

Date of order: 17.10.2021

In the matter of:

Approval under Regulation 86 of the Central Electricity Regulatory Commission (Conduct of Business) Regulations, 1999 for 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 in respect of Additional Special Energy Meters in Northern Region.

And in the matter of:

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

.....Petitioner

Versus

- 1. Rajasthan Rajya Vidyut Prasaran Nigam Limited, Vidyut Bhawan, Vidyut Marg, Jaipur – 302005, (Rajasthan).
- Ajmer Vidyut Vitran Nigam Limited, 400 kV, GSS Building (Ground Floor), Ajmer Road, Heerapura, Jaipur (Rajasthan).
- Jaipur Vidyut Vitran Nigam Limited,
 400 kV, GSS Building (Ground Floor),
 Ajmer Road, Heerapura,
 Jaipur (Rajasthan).
- Jodhpur Vidyut Vitran Nigam Limited,
 400 kV, GSS Building (Ground Floor),

Power Grid Corporation of India Ltd. Plot No. 2, Sector-28, Gurgaon-122001 (HARYANA)



Order in Petition No.103/TT/2020

Ajmer Road, Heerapura, Jaipur (Rajasthan).

- Himachal Pradesh State Electricity Board, Vidyut Bhawan, Kumar House Complex Building- II, Shimla – 171004, (Himachal Pradesh).
- 6. Punjab State Electricity Board, Thermal Shed Tia, Near 22 Phatak, Patiala - 147001 (Punjab).
- 7. Haryana Power Purchase Centre, Shakti Bhawan, Sector-6, Panchkula -134109 (Haryana).
- 8. Power Development Department, Government of Jammu & Kashmir, Mini Secretariat, Jammu.
- 9. Uttar Pradesh Power Corporation Limited, (Formarly Uttar Pradesh State Electricity Board), Shakti Bhawan, 14, Ashok Marg, Lucknow - 226001.
- Delhi Transco Limited,
 Shakti Sadan, Kotla Road,
 New Delhi 110 002.
- BSES Yamuna Power Limited,
 B-Block, Shakti Kiran Building. (Near Karkardooma Court),
 Karkardooma 2nd Floor,
 New Delhi 110092.
- BSES Rajdhani Power Limited, BSES Bhawan, Nehru Place, New Delhi.
- 13. Tata Power Delhi Distribution Limited, NDPL House, Hudson Lines, Kingsway Camp, Delhi - 110009.
- 14. Chandigarh Administration, Sector-9, Chandigarh.





Order in Petition No.103/TT/2020

- Uttarakhand Power Corporation Limited,
 Urja Bhawan, Kanwali Road,
 Dehradun (Uttarakhand).
- 16. North Central Railway, Allahabad (Uttar Pradesh).
- 17. New Delhi Municipal Council, Palika Kendra, Sansad Marg, New Delhi - 110002

...Respondent(s)

For Petitioner:

Shri S.S. Raju, PGCIL

Shri D.K. Biswal, PGCIL

Shri Ved Prakash Rastogi, PGCIL

Shri A.K. Verma, PGCIL

For Respondents: None

The instant petition has been filed by Power Grid Corporation of India Limited, a deemed transmission licensee, for truing 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 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 in respect of Additional Special Energy Meters in Northern Region (hereinafter referred to as "the transmission asset").

ORDER

- 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-6.0 & 7.0 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, 1967 (as amended from time to time) of the respective financial year directly without making any

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Order in Petition No.103/TT/2020

application before Hon'ble Commission as provided in Tariff Regulation 2014 and Tariff regulations 2019 as per para 5 and 6 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.
- 4) Allow the petitioner to bill and recover Licensee fee and RLDC fees and charges, separately from the beneficiaries in terms of Regulation 70 (3) and (4) Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019.
- 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 beneficiaries.
- 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 7.6 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 beneficiaries, if GST on transmission is withdrawn from negative list at any time 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

- The brief facts of the case are as follows:
 - a. The Petitioner in Petition No. 76/TT/2012 requested the Commission to consider the approval granted in the 15th TCC and 16th NRPC meeting for Northern Region held on 4.5.2010 as formal approval of the project. It was submitted that in the earlier project for implementation of special energy meters (SEM) in NR (covered in Petition No. 288/2010), the agreement of all the parties in 114th NREB meeting on 15.1.1998 was considered by the Commission as the approval for that project. The Petitioner has submitted that no Investment Approval or approval of Revised Cost Estimate (RCE) has been obtained for this project. Accordingly, the Commission vide its order dated 31.12.2013 in Petition

No. 76/TT/2012 allowed the tariff in respect of the transmission asset for the period from 1.4.2009 to 31.3.2014.

- b. The scope of work covered under the instant petition comprises only of Additional Special Energy Meters for Northern Region.
- c. The commercial date of operation (COD) of the transmission asset is 1.4.2011.
- d. The transmission tariff for 2009-14 period was allowed *vide* order dated 31.12.2013 in Petition No. 76/TT/2012. The transmission tariff was trued up in respect of the transmission asset from COD to 31.3.2014 and tariff for 2014-19 period was allowed *vide* order dated 21.7.2016 in Petition No. 510/TT/2014.
- e. Transmission tariff allowed in respect of the transmission asset for 2014-19 period vide order dated 21.7.2016 in Petition No. 510/TT/2014 and the trued-up transmission tariff claimed by the Petitioner for 2014-19 tariff period in the instant petition is as follows:

(₹ in lakh)

Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Annual Fixed Charges approved <i>vide</i> order dated 21.7.2016 in Petition No. 510/TT/2014	27.04	27.31	26.43	25.56	24.68
Revised Annual Fixed Charges based on truing up	26.07	25.41	24.58	23.76	22.97

- 4. The Respondents are distribution licensees, power departments, power utilities and transmission licensees, which are procuring transmission service from the Petitioner, mainly beneficiaries of Northern Region.
- 5. The Petitioner has served the petition on the Respondents and notice of this petition has also been published in the newspapers in accordance with Section 64 of the Electricity Act, 2003. No comments or suggestions have been received to the

general public in response to the aforesaid notices published in the newspapers by the Petitioner. None of the Respondents have filed any reply to the instant petition.

- 6. The hearing in this matter was held on 31.8.2021 through video conference and order was reserved.
- 7. This order is issued considering the submissions made by the Petitioner in the petition vide affidavit dated 7.1.2020 and affidavit dated 30.7.2021.
- 8. Having heard the representatives of the Petitioner and perused the material on record, we proceed to dispose of the petition.

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

9. The details of the trued-up transmission charges claimed by the Petitioner in respect of the transmission asset for 2014-19 period are as follows:

(₹ in lakh)

					/ C III I MICHIN
Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Depreciation	8.37	8.40	8.40	8.40	8.40
Interest on Loan	7.78	7.03	6.22	5.42	4.62
Return on Equity	9.33	9.41	9.41	9.41	9.43
O&M Expenses	0.00	0.00	0.00	0.00	0.00
Interest on Working Capital	0.59	0.57	0.55	0.53	0.52
Total	26.07	25.41	24.58	23.76	22.97

10. The details of the trued-up Interest on Working Capital (IWC) claimed by the Petitioner in respect of the transmission asset for 2014-19 period is as follows:

(₹ in lakh)

					(< in lakn)
Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
O&M Expenses	0.00	0.00	0.00	0.00	0.00
Maintenance Spares	0.00	0.00	0.00	0.00	0.00
Receivables	4.35	4.24	4.10	3.96	3.83
Total Working Capital	4.35	4.24	4.10	3.96	3.83
Rate of Interest on working capital (in %)	13.50	13.50	13.50	13.50	ORP 3.50
Interest on Working Capital	0.59	0.57	0.55	0,53	0.52
				1.57	Dh \-7



Order in Petition No.103/TT/2020

Capital Cost

11. The capital cost has been calculated in accordance with Regulation 9(3) of the 2014 Tariff Regulations. The details of capital cost approved *vide* order dated 21.7:2016 in Petition No. 510/TT/2014 are as follows:

(₹ in lakh)

Capital cost as on 1.4.2014	Additional Capital Expenditure (ACE) during 2014-15	Capital cost as on 31.3.2019
157.74	12.38	170.12

12. The details of capital cost claimed by the Petitioner in the instant petition are as follows:

(₹ in lakh)

Capital cost as on 1.4.2014	ACE 2014-15	Capital cost as on 31.3.2019	
157.74	1.44	159.18	

13. The Petitioner has claimed capital cost of ₹157.74 lakh as on 1.4.2014 in the instant petition and the same capital cost as on 1.4.2014 was approved by the Commission *vide* order dated 21.7.2016 in Petition No. 510/TT/2014. We have considered the capital cost of ₹157.74 lakh as on 1.4.2014 as approved vide order dated 21.7.2016 in Petition No. 510/TT/2014 for truing-up of transmission tariff for 2014-19 period.

Additional Capital Expenditure ("ACE")

14. The Commission allowed the following ACE in respect of the transmission asset during 2014-19 tariff period in accordance with Regulation 14(3)(v) of the 2014 Tariff Regulations *vide* order dated 21.7.2016 in Petition No. 510/TT/2014:

(₹ in lakh)

ACE allowed in 2014-19 period						
2014-15	2015-16	2016-17	2017-18	2018-19		
12.38	0.00	0.00	0.00	O CO B. BO		



Order in Petition No.103/TT/2020

15. The Petitioner has submitted the following details of ACE claimed in the instant petition for 2014-19 tariff period on account of balance and retention payment:

Year	ACE (₹ in lakh)	Party Name	Package
2014-15	1.44	L&T	Sub-station

- 16. The Petitioner has further submitted that COD of the transmission asset is 1.4.2011 and cut-off date comes out to be 31.3.2014. The Petitioner has submitted that ACE claimed pertains to balance and retention payment for works executed prior to the cut-off date. The Petitioner has claimed ACE during 2014-15 in accordance with Regulation 14(3)(v) of the 2014 Tariff Regulations.
- 17. We have considered the submission of the Petitioner. ACE claimed for 2014-15 is beyond the cut-off date and pertains to the balance and retention payments for works executed within the cut-off date and as such it is allowed under Regulation 14(3)(v) of the 2014 Tariff Regulations. Accordingly, the details of approved capital cost is as follows:

(₹ in lakh)

Capital cost as on 1.4.2014	ACE	Capital cost as on 31.3.2019		
	2014-15			
157.74	1.44	159.18		

Debt-Equity Ratio

18. Debt-equity ratio has been allowed in accordance with Regulation 19(3) of the 2014 Tariff Regulations. 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 shall be considered. Accordingly, debt-equity ratio for the period ending on 31.3.2014, considered for the purpose of determination of tariff of 2014-19 period has been considered for the purpose of truing up of the tariff of the transmission asset

Rage 8 of 33

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:

Particulars	Capital Cost as on 1.4.2014 (₹ in lakh)	(in %)	ACE 2014-19	(in %)	Capital Cost as on 31.3.2019 (₹ in lakh)	(in %)
Debt	110.42	70.00	1.01	70.00	111.43	70.00
Equity	47.32	30.00	0.43	30.00	47.75	30.00
Total	157.74	100.00	1.44	100.00	159.18	100.00

Depreciation

19. 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 2014-19 tariff period. The Gross Block during 2014-19 tariff period has been depreciated at Weighted Average Rate of Depreciation (WAROD) and working of WAROD is given in Annexure-I. Depreciation for 2014-19 tariff period is trued-up as per the methodology provided under Regulation 27 of the 2014 Tariff Regulations and the same is as follows:

(₹ in lakh)

(VIII Idili)					
Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Depreciation					
Opening Gross Block	157.74	159.18	159.18	159.18	159.18
ACE	1.44	0.00	0.00	0.00	0.00
Closing Gross Block	159.18	159.18	159.18	159.18	159.18
Average Gross Block	158.46	159.18	159.18	159.18	159.18
Weighted Average Rate of Depreciation (in %)	5.28	5.28	.5.28	5.28	5.28
Balance useful life of the asset at the beginning of the year (Years)	22	21	20	19	18
Lapsed life at the beginning of the year (Years)	3	4	5	6	7
Depreciable Value at the beginning of the year	142.61	143.26	143.26	143.26	143.26
Depreciation during the year	8.37	8.40	8.40	8.40	8.40
Cumulative depreciation at the end of the year	33.36	41.76	50.17	58.57	66.98
Remaining Depreciable Value at the end of the year	109.26	101.50	93.10	ORF 84.69	76.29

Order in Petiti

20. The details of depreciation approved vide order dated 21.7.2016 in Petition No. 510/TT/2014, as claimed by the Petitioner in the instant petition and trued-up depreciation in the instant order is as follows:

					(₹ in lakh)
Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Approved <i>vide</i> order dated 21.7.2016 in Petition No. 510/TT/2014	8.66	8.98	8.98	8.98	8.98
Claimed by the Petitioner in the instant petition	8.37	8.40	8.40	8.40	8.40
Allowed after true-up in this order	8.37	8.40	8.40	8.40	8.40

Interest on Loan ("IoL")

- 21. The Petitioner has claimed the Weighted Average Rate of IoL (WAROI), based on its actual loan portfolio and rate of interest.
- 22. loL has been calculated based on actual interest rate submitted by the Petitioner in accordance with Regulation 26 of the 2014 Tariff Regulations. Trued-up IoL allowed in respect of the transmission asset for 2014-19 tariff period is as follows:

(₹ in lakh)

Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Interest on Loan					
Gross Normative Loan	110.42	111.43	111.43	111.43	111.43
Cumulative Repayments up to Previous Year	24.99	33.36	41.76	50.17	58.57
Net Loan-Opening	85.43	78.07	69.66	61.26	52.86
Additions	1.01	-			-
Repayment during the year	8.37	8.40	8.40	8.40	8.40
Net Loan-Closing	78.07	69.66	61.26	52.86	44.45
Average Loan	81.75	73.87	65.46	57.06	48.65
Weighted Average Rate of Interest on Loan (in %)	9.5171	9.5135	9.5081	9.5022	9.4956
Interest on Loan	7.78	7.03	6.22	5.42	4.62



23. The details of IoL approved vide order dated 21.7.2016 in Petition No. 510/TT/2014, as claimed by the Petitioner in the instant petition and trued up IoL in the instant order is as follows:

(₹ in lakh)

Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Approved <i>vide</i> order dated 21.7.2016 in Petition No. 510/TT/2014	8.13	7.70	6.85	5.99	5.14
Claimed by the Petitioner in the instant petition	7.78	7.03	6.22	5.42	4.62
Allowed after true-up in this order	7.78	7.03	6.22	5.42	4.62

Return on Equity ("RoE")

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

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

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

Year	Notified MAT rates (in %) (inclusive of surcharge & cess)	Effective tax (in %)
2014-15	20.961	20.961
2015-16	21.342	21.342
2016-17	21.342	21.3420R4
2017-18	21.342	21.342
2018-19	21.549	21.549

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26. MAT rates considered in order dated 27.4.2020 in Petition No. 274/TT/2019 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 %)	Base rate of	Grossed up RoE
rear	(inclusive of surcharge & cess)	RoE (in %)	[(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

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

(₹ in lakh)

Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Opening Equity	47.32	47.75	47.75	47.75	47.75
Additions	0.43	0.00	0.00	0.00	0.00
Closing Equity	47.75	47.75	47.75	47.75	47.75
Average Equity	47.54	47.75	47.75	47.75	47.75
Return on Equity (Base Rate) (in %)	15.500	15.500	15.500	15.500	15.500
MAT Rate for respective year (in %)	20.961	21.342	21.342	21.342	21.549
Rate of Return on Equity (in %)	19.610	19.705	19.705	19.705	19.758
Return on Equity	9.32	9.41	9.41	9.41	9.44

28. The details of RoE approved *vide* order dated 21.7.2016 in Petition No. 510/TT/2014, as claimed by the Petitioner in the instant petition and trued up RoE in the instant order is as follows:



(₹ in lakh)

Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Approved <i>vide</i> order dated 21.7.2016 in Petition No. 510/TT/2014	9.64	10.01	10.01	10.01	10.01
Claimed by the Petitioner in the instant petition	9.33	9.41	9.41	9.41	9.43
Allowed after true-up in this order	9.32	9.41	9.41	9.41	9.44

29. The Petitioner has not claimed any O&M Expenses.

Interest on Working Capital ("IWC")

30. IWC has been worked out as per the methodology provided in Regulation 28 of the 2014 Tariff Regulations and trued-up IWC has been allowed in respect of the transmission asset is as follows:

(₹ in lakh)

(S. III IMMI)									
Particulars .	2014-15	2015-16	2016-17	2017-18	2018-19				
Interest on Working Capital									
Working Capital for Receivables (Equivalent to two months of annual transmission charges)	4.34	4.24	4.10	3.96	3.83				
Total Working Capital	4.34	4.24	4.10	3.96	3.83				
Rate of Interest on working capital (in %)	13.50	13.50	. 13.50	13.50	13.50				
Interest on Working Capital	0.59	0.57	0.55	0.53	0.52				

31. The details of IWC approved *vide* order dated 21.7.2016 in Petition No. 510/TT/2014, as claimed by the Petitioner in the instant petition and trued up IWC in the instant order is as follows:

(₹ in lakh)

Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Approved <i>vide</i> order dated 21.7.2016 in Petition No. 510/TT/2014	0.61	0.61	0.59	0.58	0.56
Claimed by the Petitioner in the instant petition	0.59	0.57	0.55	0.53	0.52
Allowed after true-up in this order	0.59	0.57	0.55	0.53	0.52



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Approved Annual Fixed Charges for 2014-19 Tariff Period

32. 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	8.37	8.40	8.40	8.40	8.40
Interest on Loan	7.78	7.03	6.22	5.42	4.62
Return on Equity	9.32	9.41	9.41	9.41	9.44
O&M Expenses	0.00	0.00	0.00	0.00	0.00
Interest on Working Capital	0.59	0.57	0.55	0.53	0.52
Total	26.06	25.41	24.59	23.77	22.98

33. The details of Annual Transmission Charges approved *vide* order dated 21.7.2016 in Petition No. 510/TT/2014, as claimed by the Petitioner in the instant petition and approved after truing up in the instant order is as follows:

(₹ in lakh)

					(III lakii)
Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Approved <i>vide</i> order dated 21.7.2016 in Petition No. 510/TT/2014	27.04	27.31	26.43	25.56	24.68
Claimed by the Petitioner in the instant petition	26.07	25.41	24.58	23.76	22.97
Allowed after true-up in this order	26.06	25.41	24.59	23.77	22.98

DETERMINATION OF ANNUAL FIXED CHARGES FOR 2019-24 TARIFF PERIOD

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

(₹ in lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Depreciation	8.63	8.85	8.85	8.85	3.75
Interest on Loan	4.09	3.54	2.70	1.86	1.26
Return on Equity	9.21	9.45	9.45	9.45	9.45
O&M Expenses	0.00	0.00	0.00	0.00	0.00
Interest on Working Capital	0.33	0.33	0.32	0.30	0.22
Total	22.26	22.17	21.32	COP 20 46	14.68

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35. The details of IWC claimed by the Petitioner for 2019-24 period in respect of the transmission asset are as follows:

(₹ in lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Working Capital for O&M Expenses (O&M Expenses for one Month)	0.00	0.00	0.00	0.00	0.00
Working Capital for Maintenance Spares (15% of O&M Expenses)	0.00	0.00	0.00	0.00	0.00
Working Capital for Receivables (Equivalent to two months of annual fixed cost/ annual transmission charges)	2.74	2.73	2.63	2.52	1.80
Total Working Capital	2.74	2.73	2.63	2.52	1.80
Rate of Interest on working capital (in %)	12.05	12.05	12.05	12.05	12.05
Interest on Working Capital	0.33	0.33	0.32	0.30	0.22

Capital Cost

- 36. 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 intrastructure and its augmentation for transportation of coal upto the receiving and 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 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;

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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."
- 37. The Petitioner has claimed the capital cost of ₹159.18 lakh as on 31.3.2019 in respect of the transmission asset. The capital cost of ₹159.18 lakh has been worked out by the Commission as on 31.3.2019 and considered as the opening capital cost as on 1.4.2019 for determination of tariff in accordance with Regulation 19 of the 2019 Tariff Regulations.

Additional Capital Expenditure ("ACE")

- 38. Regulation 24 and Regulation 25 of the 2019 Tariff Regulations provide as follows:
 - "24. Additional Capitalisation within the original scope and upto the cut-off date:
 - (1) The additional capital expenditure in respect of a new project or an existing project incurred or projected to be incurred, on the following counts within the original scope of work, after the date of commercial operation and up to the cut-off date may be admitted by the Commission, subject to prudence check:
 - (a) Undischarged liabilities recognized to be payable at a future date;
 - (b) Works deferred for execution;
 - (c) Procurement of initial capital spares within the original scope of work, in accordance with the provisions of Regulation 23of these regulations;
 - (d) Liabilities to meet award of arbitration or for compliance of the directions or order of any statutory authority or order or decree of any court of law;
 - (e) Change in law or compliance of any existing law; and
 - (f) Force Majeure events:

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

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

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

- (1) The additional capital expenditure incurred or projected to be incurred in respect of an existing project or a new project on the following counts within the original scope of work and after the cut-off date may be admitted by the Commission, subject to prudence check:
 - (a) Liabilities to meet award of arbitration or for compliance of the directions or order of any statutory authority, or order or decree of any court of law;
 - (b) Change in law or compliance of any existing law;
 - (c) Deferred works relating to ash pond or ash handling system in the original scope of work;
 - (d) Liability for works executed prior to the cut-off date;
 - (e) Force Majeure events:
 - (f) Liability for works admitted by the Commission after the cut-off date to the extent of discharge of such liabilities by actual payments; and
 - (g) Raising of ash dyke as a part of ash disposal system.
- (2) In case of replacement of Asset deployed under the original scope of the existing project after cut-off date, the additional capitalization may be admitted by the Commission, after making necessary adjustments in the gross fixed Asset and the cumulative depreciation, subject to prudence check on the following grounds:
 - (a) The useful life of the Asset is not commensurate with the useful life of the project and such Asset have been fully depreciated in accordance with the provisions of these regulations;
 - (b) The replacement of the asset or equipment is necessary on account of change in law or Force Majeure conditions;
 - (c) The replacement of such asset or equipment is necessary on account of obsolescence of technology; and
 - (d) The replacement of such asset or equipment has otherwise been allowed by the Commission.
- 39. The Petitioner has claimed ACE of ₹8.50 lakh for 2019-24 period in respect of the transmission asset in accordance with Regulation 25(1)(d) of the 2019 Tariff Regulations. The Petitioner has claimed ACE on account of un-discharged liability towards final payment for works executed within the cut-off date and the same is as follows:

(₹ in lakh)

Capital cost as on 1.4.2019	ACE claimed for 2019-20	Capital cost as on 31.3.2024
159.18	8.50	167.68





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40. The Petitioner has submitted the following details of ACE incurred/ projected to be incurred after the cut-off date on account of balance and retention payment as per Regulation 25(1)(d) of the 2019 Tariff Regulations:

Year	ACE (₹ in lakh)	Party Name	Package
2019-20	8.50	L&T	Sub-station

41. We have considered the submissions of the Petitioner. ACE claimed by the Petitioner is allowed under Regulation 25(1)(d) of the 2019 Tariff Regulations as it is towards liabilities for works executed prior to the cut-off date. Accordingly, the capital cost considered for 2019-24 tariff period is as follows:

(₹ in lakh)

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Capital cost as on 1.4.2019	ACE claimed for 2019-20	Capital cost as on 31.3.2024	
159.18	8.50	167.68	

Debt-Equity Ratio

- 42. 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.

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- (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."
- 43. Debt-equity considered for the purpose of computation of tariff for 2019-24 tariff period is as follows:

Particulars	Capital Cost as on 1.4.2019 (₹ in lakh)	(In %)	ACE for 2019- 24 period (₹ in lakh)	(In %)	Capital Cost as on 31.3.2024 (₹ in lakh)	(ln %)
Debt	111.43	70.00	5.95	70.00	117.38	70.00
Equity	47.75	30.00	2.55	30.00	50.30	30.00
Total	159.18	100.00	8.50	100.00	167.68	100.00

Depreciation

44. Regulation 33 of the 2019 Tariff Regulations provides as follows:

"33. Depreciation: (1) Depreciation shall be computed from the date of commercial operation of a generating station or unit thereof or a transmission

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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"
- (3) The salvage value of the asset shall be considered as 10% and depreciation shall be allowed up to maximum of 90% of the capital cost of the asset:

Provided that the salvage value for IT equipment and software shall be considered as NIL and 100% value of the assets shall be considered depreciable;

Provided further that in case of hydro generating stations, the salvage value shall be as provided in the agreement, if any, signed by the developers with the State Government for development of the generating station:

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

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

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

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- (6) In case of the existing projects, the balance depreciable value as on 1.4.2019 shall be worked out by deducting the cumulative depreciation as admitted by the Commission upto 31.3.2019 from the gross depreciable value of the assets.
- (7) The generating company or the transmission licensee, as the case may be, shall submit the details of proposed capital expenditure five years before the completion of useful life of the project along with justification and proposed life extension. The Commission based on prudence check of such submissions shall approve the depreciation on capital expenditure.
- (8) In case of de-capitalization of assets in respect of generating station or unit thereof or transmission system or element thereof, the cumulative depreciation shall be adjusted by taking into account the depreciation recovered in tariff by the decapitalized asset during its useful services."
- 45. WAROD has been worked out and is given at Annexure-II of this order which is based on the rates of depreciation specified in the 2019 Tariff Regulations. Depreciation is approved considering the admitted capital expenditure as on 31.3.2019 and accumulated depreciation up to 31.3.2019. The transmission asset will complete 12 years of life as on 31.3.2023. The remaining depreciable value has been spread across the balance useful life in accordance with Regulation 33(5) of the 2019 Tariff Regulations. Depreciation allowed in respect of transmission asset for 2019-24 tariff period is as follows:

(₹ in lakh) **Particulars** 2019-20 2020-21 2021-22 2022-23 2023-24 Depreciation Opening Gross Block 159.18 167.68 167.68 167.68 167.68 Addition during the year 8.50 0.00 0.00 0.00 0.00 2019-24 due to projected ACE Closing Gross Block 167.68 167.68 167.68 167.68 167.68 Average Gross Block 163.43 167.68 167.68 167.68 167.68 Weighted average rate 5.28 5.28 5.28 5.28 2.24 Depreciation (WAROD) (in %) Balance useful life at the 17 16 15 14 13 beginning of the year (Years) Lapsed life of the asset (Years) 8 9 10 11 12 Depreciable Value at 147.09 150.91 150.91 150.91 150.91 beginning of the year Depreciation during the year 8.63 8.85 8.85 8.85 3.73 Cumulative Depreciation at the 75.60 84.46 93.31 102.17 105.91 end of the year Remaining Depreciable Value 71.48 66.45 57.60 45.00 at the end of the year



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Interest on Loan ("loL")

- 46. 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."
- 47. The weighted average rate of loL has been considered on the basis of rate prevailing as on 1.4.2019. The Petitioner has prayed that change in interest rate due to floating rate of interest applicable, if any, during 2019-24 tariff period will be adjusted. Accordingly, the floating rate of interest, if any, shall be considered at the time of truing up. Therefore, loL has been allowed in accordance with Regulation 32 of

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the 2019 Tariff Regulations. loL allowed in respect of the transmission asset for 2019-24 tariff period is as follows:

(₹	in	lakh)

(Citi Man)						
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24	
Gross Normative Loan	111.43	117.38	117.38	117.38	117.38	
Cumulative Repayments up to Previous Year	66.98	75.60	84.46	93.31	102.17	
Net Loan-Opening	44.45	41.77	32.92	24.06	15.21	
Additions	5.95	0.00	0.00	0.00	0.00	
Repayment during the year	8.63	8.85	8.85	8.85	3.75	
Net Loan-Closing	41.77	32.92	24.06	15.21	11.46	
Average Loan	43.11	37.34	28.49	19.64	13.34	
Weighted Average Rate of Interest on Loan (in %)	9.4889	9.4814	9.4726	9.4628	9.4519	
Interest on Loan	4.09	3.54	2.70	1.86	1.26	

Return on Equity ("RoE")

- 48. Regulation 30 and Regulation 31 of the 2019 Tariff Regulations provide as follows:
 - **"30. Return on Equity:** (1) Return on equity shall be computed in rupee terms, on the equity base determined in accordance with Regulation 18 of these regulations.
 - (2) Return on equity shall be computed at the base rate of 15.50% for thermal generating station, transmission system including communication system and run-of river hydro generating station, and at the base rate of 16.50% for the storage type hydro generating stations including pumped storage hydro generating stations and run-of river generating station with pondage:

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

Provided further that:

i. In case of a new project, the rate of return on equity shall be reduced by 1.00% for such period as may be decided by the Commission, if the generating station or transmission system is found to be declared under commercial operation without commissioning of any of the Restricted Governor Mode Operation (RGMO) or Free Governor Mode Operation (FGMO), data telemetry, communication system up to load dispatch centre or protection system based on the report submitted by the respective RLDC:

ii. in case of existing generating station, as a grownen any of the requirements under (i) above of this Regulation are found lacking based on

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Order in Petition No.103/TT/2020

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 cma
 - (c) Effective Tax Rate for the year 2019-20 = Rs 240 Grore/Rs 1000 Crore = 24%;

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Order in Petition No.103/TT/2020

- (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."
- 49. The Petitioner has submitted that MAT rate is applicable to the Petitioner's Company.
- 50. We have considered the submissions of the Petitioner. MAT rate applicable in 2019-20 period has been considered for the purpose of RoE which shall be trued-up with actual tax rate in accordance with Regulation 31(3) of the 2019 Tariff Regulations. RoE allowed in respect of the transmission asset for 2019-24 tariff period is as follows:

(₹ in lakh)

					1 minari
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Opening Equity	47.75	50.30	50.30	50.30	50.30
Additions	2.55	0.00	0.00	0.00	0.00
Closing Equity	50.30	50.30	50.30	50.30	50.30
Average Equity	49.03	50.30	50.30	50.30	50.30
Return on Equity (Base Rate) (in %)	15.50	15.50	15.50	15.50	15.50
MAT Rate for respective year (in %)	17.472	17.472	17.472	17.472	17.472
Rate of Return on Equity (in %)	18.782	18.782	18.782	18.782	18.782
Return on Equity	9.21	9.45	9.45	9.45	9.45

51. The Petitioner has not claimed any O&M Expenses.

Interest on Working Capital ("IWC")

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

"34. Interest on Working Capital





*Order in Petition No.103/TT/2020

- (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 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;"
- 53. The Petitioner has submitted that it has computed IWC for 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 Interest (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, 11.25% (SBI 1-year MCLR applicable as on 1.4.2020 of 7.75% plus 350 basis points) for 2020-2021 and from 2021-22 onwards as 10.50% (SBI 1-year MCLR applicable as on 1.4.2021 of 7.00% plus 350 basis points). The components of the working capital and interest thereon allowed are as follows:





(₹ in lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Working Capital for Receivables (Equivalent to 45 days of annual fixed cost/ annual transmission charges)	2.74	2.73	2.62	2.52	1.80
Total Working Capital	2.74	2.73	2.62	2.52	1.80
Rate of Interest on working capital (in %)	12.05	11.25	10.50	10.50	10.50
Interest on Working Capital	0.33	0.31	0.28	0.26	0.19

Annual Fixed Charges for 2019-24 Tariff Period

54. 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	8.63	8.85	8.85	8.85	3.75
Interest on Loan	4.09	3.54	2.70	1.86	1.26
Return on Equity	9.21	9.45	9.45	9.45	9.45
O&M Expenses	0.00	0.00	0.00	0.00	0.00
Interest on Working Capital	0.33	0.31	0.28	0.26	0.19
Total	22.26	22.15	21.28	20.42	14.65

Filing Fee and the Publication Expenses

55. The Petitioner has sought reimbursement of fee paid by it for filing the petition and publication expenses, in terms of Regulation 70(1) of the 2019 Tariff Regulations. The Petitioner shall be entitled for reimbursement of 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

56. 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

- 57. 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
- 58. 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 in this regard is premature.

Security Expenses

- 59. The Petitioner has submitted that security expenses for the transmission asset are not claimed in the instant petition and it would file a separate petition for claiming the overall security expenses and the consequential IWC.
- 60. We have considered the submissions of the Petitioner. The Petitioner has claimed consolidated security expenses for the transmission asset owned by it on projected basis for 2019-24 tariff period on the basis of actual security expenses incurred in 2018-19 in Petition No. 260/MP/2020. The Commission vide order dated 3.8.2021 in Petition No. 260/MP/2020 approved security expenses from 1.4.2019 to 31.3.2024. Therefore, security expenses will be shared in terms of the order dated 3.8.2021 in Petition No. 260/MP/2020. Therefore, the Petitioner's prayer in the instant petition for allowing it to file a separate petition for claiming the overall security expenses and consequential IWC has become infructuous.



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Capital Spares

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

Sharing of Transmission Charges

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

63. To summarise:

(a) Trued-up AFC allowed 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
AFC	26.06	25.41	24.59	23.77	22.98

(b) AFC approved 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
AFC	22.26	22.15	21.28	20.42	14.65





Order in Petition No.103/TT/2020

- 64. Annexure-I and Annexure-II given hereinafter form part of this order.
- 65. This order disposes of Petition No. 103/TT/2020 in terms of the above discussions and findings.

Sd/ (P.K. Singh) Member Sd/ (Arun Goyal) Member Sd/ (P.K. Pujari) Chairperson

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A.

CERC Website S. No. 503/2021

Annexure-I

	o	0			_
ions	2018-19	8.40	8.40	159.18	5.28%
er Regulat	2017-18	8.40	8.40	159.18	5.28%
iation as p (₹ in lakh)	2016-17	8.40	8.40	159.18	5.28%
Annual Depreciation as per Regulations (₹ in lakh)	2014-15 2015-16 2016-17 2017-18	8.40	8.40	159.18	5.28%
Annu	2014-15	8.37	8.37	158.46	5.28%
Rate of Depreciation as per	Regulations	5.28%	Total	Average Gross Block (₹ in lakh)	Weighted Average Rate of Depreciation
Admitted Capital Cost as on	31.3.2019 (₹ in lakh)	159.18	159.18	Average	rerage Rate of
	2018-19	00.00	0.00		eighted Av
	2017-18	0.00	0.00		8
äkh)	2016-17	0.00	0.00		
ACE (₹ in lakh)	2015-16	00.00	00.0		
	2015-16	1.44	1.44		
Admitted Capital Cost as on	COD (₹ in lakh)	157.74	157.74		
2014-19	Expenditure	Sub Station	Total		







Annexure-II

2019-24	Admitted Capital Cost		Additio	Additional Capitalization (₹ in lakh)	lization		Admitted Capital Cost	Rate of Depreciation	Ann	ual Depre	ciation as p (₹ in lakh)	Annual Depreciation as per Regulations (₹ in lakh)	ations
Capital Expenditure	as on 1.4.2019 (₹ in lakh)	2019-20	2020-21	2019-20 2020-21 2021-22	2022-23 2023-24	2023-24	as on 31.3.2024 (₹ in lakh)	as per Regulations	2019-20	2020-21	2021-22	2022-23	2023-24
Sub Station	159.18	8.50	0.00	00.00	00.00	00'0	167.68	5.28%	8.63	8.85	8.85	8.85	3.73
Total	159.18	8.50	00.0	00.0	0.00	0.00	167.68	Total	8.63	8.85	8.85	8.85	3.73
							Average	Average Gross Block (₹ in lakh)	163.43	167.68	167.68	167.68	167.68
					W	∋ighted Av	erage Rate of	Weighted Average Rate of Depreciation	5.28%	5.28%	5.28%	5.28%	2.24%





Summary of Tariff

Name of the	Transmission Licensee:	Power Grid Corporation	on of India Limited	
Project	Additional Special Ener	rgy Meters in Northern	Region	
Element Description	Special Energy meters	including DCD & Meter	r testing equipmen	ts
Region	Northern Region		DOCO Date	Apr 1, 2011

(Amount in Rs. Lakh)

				(Amount in R	s. Lanii)
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Year Days	366.00	365.00	365.00	365.00	366.00
Tariff Days	366.00	365.00	365.00	365.00	366.00
Depreciation-Form No. 10A	8.40	8.40	8.40	8.40	3.28
Interest on Loan-Form No. 9E	3.82	3.02	2.22	1.42	0.87
Return on Equity-Form No. 8	8.97	8.97	8.97	8.97	8.97
Int. on Working capital-Form No.11	0.32	0.29	0.26	0.25	0.20
Op. and maintenance-Form No.2	0.00	0.00	0.00	0.00	0.00
Total AFC	21.51	20.68	19.85	19.04	13.32

(Petitioner)



Name of the T	Fransmission Licensee	Power Grid Corporation of India Limited
Project	Additional Special Energ	Meters in Northern Region
Element Description	Special Energy meters in	cluding DCD & Meter testing equipments
Region	Northern Region	DOCO Date Apr 1, 2011

(Amount in Rs. Lakh) **Particulars** 2018-19 2019-20 2020-21 2021-22 2022-23 2023-24 Base Rate of Return of Equity (in %) 21.55 17.472 17.472 17.472 17.472 17.472 Tax Rate (in %) Effective tax rate (in %) 18.782 Grossed up Rate of ROE (in %) 19.758 18.782 18.782 18.782 18.782 98.00 Target availability - AC System (in %) 98.00 98.00 98.00 98.00 98.00 96.00 96.00 96.00 96.00 96.00 96.00 Target availability - HVDC System (in %) Norms for sub-station Bays (Rs Lakh per bay) 45.01 46.60 765 kV 96.20 48.23 49.93 51.68 400 kV 68.71 32.15 33.28 34.45 35.66 36.91 220 kV 48.10 22.51 23.30 24.12 24.96 25.84 132 kV and below 34.36 16.08 16.64 17.23 17.83 18.46 Norms for Transformers (Rs Lakh per MVA) 765 kV 0.00 0.491 0.508 0.526 0.545 0.564 0.00 0.358 0.371 0.384 400 kV 0.398 0.411 0.254 220 kV 0.00 0.245 0.263 0.272 0.282 0.00 132 kV and below 0.245 0.254 0.263 0.272 0.282 Norms for AC and HVDC lines (Rs Lakh per km) Single Circuit (Bundled Conductor with six or 0.806 0.881 0.912 1.011 0.977 more sub-conductors) Single Circuit (Bundled conductor with four sub-0.691 0.837 0.755 0.781 0.867 conductors) Single Circuit (Twin & Triple Conductor) 0.461 0.503 0.521 0.578

0.23	0.252	0.26	0.27	0.279	0.289
1.21	1.322	1.368	1.416	1.466	1.517
0.806	0.881	0.912	0.944	0.977	1.011
0.346	0.377	0.391	0.404	0.419	0.433
2.123	2.319	2.401	2.485	2.572	2.662
1.413	1.544	1.598	1.654	1.713	1.773
0.00	834.00	864.00	894.00	925.00	958.00
0.00	1,666.00	1,725.00	1,785.00	1,848.00	1,913.00
0.00	2,252.00	2,331.00	2,413.00	2,498.00	2,586.00
0.00	2,468.00	2,555.00	2,645.00	2,738.00	2,834.00
0.00	1,696.00	1,756.00	1,817.00	1,881.00	1,947.00
0.00	2,563.00	2,653.00	2,746.00	2,842.00	2,942.00
	1.21 0.806 0.346 2.123 1.413 0.00 0.00 0.00 0.00 0.00	1.21 1.322 0.806 0.881 0.346 0.377 2.123 2.319 1.413 1.544 0.00 834.00 0.00 1,666.00 0.00 2,252.00 0.00 2,468.00 0.00 1,696.00	1.21 1.322 1.368 0.806 0.881 0.912 0.346 0.377 0.391 2.123 2.319 2.401 1.413 1.544 1.598 0.00 834.00 864.00 0.00 1,666.00 1,725.00 0.00 2,252.00 2,331.00 0.00 2,468.00 2,555.00 0.00 1,696.00 1,756.00	1.21 1.322 1.368 1.416 0.806 0.881 0.912 0.944 0.346 0.377 0.391 0.404 2.123 2.319 2.401 2.485 1.413 1.544 1.598 1.654 0.00 834.00 864.00 894.00 0.00 1,666.00 1,725.00 1,785.00 0.00 2,252.00 2,331.00 2,413.00 0.00 2,468.00 2,555.00 2,645.00 0.00 1,696.00 1,756.00 1,817.00	1.21 1.322 1.368 1.416 1.466 0.806 0.881 0.912 0.944 0.977 0.346 0.377 0.391 0.404 0.419 2.123 2.319 2.401 2.485 2.572 1.413 1.544 1.598 1.654 1.713 0.00 834.00 864.00 894.00 925.00 0.00 1,666.00 1,725.00 1,785.00 1,848.00 0.00 2,252.00 2,331.00 2,413.00 2,498.00 0.00 2,468.00 2,555.00 2,645.00 2,738.00 0.00 1,696.00 1,756.00 1,817.00 1,881.00

(Petitioner)



Calculation of ROE

Name of the	Transmission Licensee	Power Grid Corporation of India L	Limited	
Project	Additional Special Ener	gy Meters in Northern Region		
Element Description	Special Energy meters	ncluding DCD & Meter testing equ	quipments	
Region	Northern Region	DOCO Da	ate Apr 1, 2011	

(Amount in Rs. Lakh)

j 				(Amount in R	s. Lakn)
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
No. of Days in the year	366.00	365.00	365.00	365.00	366.00
No. of days for which tariff claimed	366.00	365.00	365.00	365.00	366.00
Opening Normative Equity	47.75	47.75	47.75	47.75	47.75
Less: Adjustment in Equity*	0.00	0.00	0.00	0.00	0.00
Adjustment during the year	0.00	0.00	0.00	0.00	0.00
Net opening equity (Normal)	47.75	47.75	47.75	47.75	47.75
Add: Increase in Equity due to addition during the year / period	0.00	0.00	0.00	0.00	0.00
Less: Decrease due to de-capitalisation during the year / period	0.00	0.00	0.00	0.00	0.00
Add: Increase due to discharge during the year / period	0.00	0.00	0.00	0.00	0.00
Closing Normative Equity	47.75	47.75	47.75	47.75	47.75
Average Normative Equity	47.75	47.75	47.75	47.75	47.75
Rate of return on Equity (%)	18.782	18.782	18.782	18.782	18.782
Reduced rate of 1% decided by commission under Regulation 30(2) (if any)	0.00	0.00	0.00	0.00	0.00
Effective rate of ROE	15.50	15.50	15.50	15.50	15.50
MAT/Corporate Rate	17.472	17.472	17.472	17.472	17.472
Grossed up rate of ROE	18.782	18.782	18.782	18.782	18.782
Return on Equity	8.97	8.97	8.97	8.97	8.97
Pro rata return on Equity	8.97	8.97	8.97	8.97	8.97

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0312001 : Truing Up: Special Energy meters including D



Calculation of WAR of interest on actual loan

Name of the T	ransmission Licensee	Power Grid Corporation	on of India Limited	·
Project	Additional Special Ener	gy Meters in Northern	Region	
Element Description	Special Energy meters	including DCD & Mete	r testing equipmen	ts
Region	Northern Region		DOCO Date	Apr 1, 2011

(Amount in Rs. Lakh)

				(Amount in R	s. Lakn)
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
BOND-XXXV -					
Gross Loan- Opening	54.13	54.13	54.13	54.13	54.13
Cumulative repayments of Loans upto previous year	18.04	22.55	27.07	31.58	36.09
Net loan-Opening	36.09	31.58	27.06	22.55	18.04
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	4.51	4.51	4.51	4.51	4.51
Net Loan-Closing	31.58	27.07	22.55	18.04	13.53
Average Net Loan	33.84	29.33	24.81	20.30	15.79
Rate of Interest on Loan on Annual Basis	9.64	9.64	9.64	9.64	9.64
Interest on loan	3.2622	2.8274	2.3917	1.9569	1.5222

BOND XXXIX -					
Gross Loan- Opening	56.29	56.29	56.29	56.29	56.29
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.00	0.00
Net loan-Opening	56.29	56.29	56.29	56.29	56.29
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	0.00	0.00	0.00	GRID CORDO	0.00
Net Loan-Closing	56.29	56.29	56.29	56.29	56.29

Average Net Loan	56.29	56.29	56.29	56.29	56.29
Rate of Interest on Loan on Annual Basis	9.40	9.40	9.40	9.40	9.40
Interest on loan	5.2913	5.2913	5.2913	5.2913	5.2913

BOND XLVI -					
Gross Loan- Opening	1.01	1.01	1.01	1.01	1.01
Cumulative repayments of Loans upto previous year	0.00	0.34	0.34	0.34	0.34
Net loan-Opening	1.01	0.67	0.67	0.67	0.67
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	0.34	0.00	0.00	0.00	0.00
Net Loan-Closing	0.67	0.67	0.67	0.67	0.67
Average Net Loan	0.84	0.67	0.67	0.67	0.67
Rate of Interest on Loan on Annual Basis	9.30	9.30	9.30	9.30	9.30
Interest on loan	0.0781	0.0623	0.0623	0.0623	0.0623

Summary

Gross Loan- Opening	111.43	111.43	111.43	111.43	111.43
Cumulative repayments of Loans upto previous year	18.04	22.89	27.41	31.92	36.43
Net loan-Opening	93.39	88.54	84.02	79.51	75.00
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	4.85	4.51	4.51	4.51	4.51
Net Loan-Closing	88.54	84.03	79.51	75.00	70.49
Average Net Loan	90.97	86.29	81.77	77.26	72.75
Rate of Interest on Loan on Annual Basis	9.4884	9.4808	9.4721	9.4622	9.4513
Interest on loan	8.6316	8.181	7.7453	GRV03905	6.8758

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0312001 Truing Up: Special Energy meters including DCD & Me

Calculation of interest on Normative Ioan

Name of the T	ransmission Licensee	Power Grid Corporati	on of India Limited					
Project Additional Special Energy Meters in Northern Region								
Element Description	Spacial Engray matere including 11(1) & Mater tecting equipments							
Region	Northern Region		DOCO Date	Apr 1, 2011				

(Amount in Rs. Lakh)

		(Amount in Rs. Lakn)					
2019-20	2020-21	2021-22	2022-23	2023-24			
366.00	365.00	365.00	365.00	366.00			
366.00	365.00	365.00	365.00	366.00			
111.43	111.43	111.43	111.43	111.43			
66.98	75.38	83.78	92.18	100.58			
44.45	36.05	27.65	19.25	10.85			
0.00	0.00	0.00	0.00	0.00			
0.00	0.00	0.00	0.00	0.00			
8.40	8.40	8.40	8.40	3.28			
0.00	0.00	0.00	0.00	0.00			
36.05	27.65	19.25	10.85	7.57			
40.25	31.85	23.45	15.05	9.21			
9.4884	9.4808	9.4721	9.4622	9.4513			
3.82	3.02	2.22	1.42	0.87			
3.82	3.02	2.22	1.42	0.87			
	366.00 366.00 111.43 66.98 44.45 0.00 0.00 8.40 0.00 36.05 40.25 9.4884 3.82	366.00 365.00 366.00 365.00 111.43 111.43 66.98 75.38 44.45 36.05 0.00 0.00 0.00 0.00 8.40 8.40 0.00 0.00 36.05 27.65 40.25 31.85 9.4884 9.4808 3.82 3.02	366.00 365.00 365.00 366.00 365.00 365.00 111.43 111.43 111.43 66.98 75.38 83.78 44.45 36.05 27.65 0.00 0.00 0.00 0.00 0.00 0.00 8.40 8.40 8.40 0.00 0.00 0.00 36.05 27.65 19.25 40.25 31.85 23.45 9.4884 9.4808 9.4721 3.82 3.02 2.22	2019-20 2020-21 2021-22 2022-23 366.00 365.00 365.00 365.00 366.00 365.00 365.00 365.00 111.43 111.43 111.43 111.43 66.98 75.38 83.78 92.18 44.45 36.05 27.65 19.25 0.00 0.00 0.00 0.00 8.40 8.40 8.40 8.40 9.00 0.00 0.00 0.00 36.05 27.65 19.25 10.85 40.25 31.85 23.45 15.05 9.4884 9.4808 9.4721 9.4622 3.82 3.02 2.22 1.42			

(Petitioner)



Calculation of Depreciation Rate on Original Project Cost

Form No. - 10

Name of the 1	Transmission Licensee	Power Grid Corpora	tion of India Limite	ed				
Project	Additional Special Energy Meters in Northern Region							
Element Description	Special Energy meters including DCD & Meter testing equipments							
Region	Northern Region		DOCO Date	Apr 1, 2011				

(Amount in Rs. Lakh)

Name of Assets	Gross block at the beginning of the year	Add Cap during the year	Gross block at the end of the year	Average Gross Block	Depreciation Rate as per CERC's Depreciation Rate Schedule	Depreciation Amount for each year upto 31.03.2024
2019-20						
Land(Freehold)	0.00	0.00	0.00	0.00	0.00	0.00
Civil & Building	0.00	0.00	0.00	0.00	3.34	0.00
Transmission Line	0.00	0.00	0.00	0.00	5.28	0.00
Sub Station	159.18	0.00	159.18	159.18	5.28	8.40
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	6.33	0.00
Leasehold Land	0.00	0.00	0.00	0.00	3.34	0.00
IT/Software/UNMS/URTDSM/ SCADA,etc	0.00	0.00	0.00	0.00	15.00	0.00
Batteries	0.00	0.00	0.00	0.00	5.28	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	6.33	0.00
TOTAL	159.18	0.00	159.18	159.18	0.00	8.40
Weighted Average Rate of Depreciation(%)					5.277045	

2020-21					GRID CO	
Land(Freehold)	0.00	0.00	0.00	0.00	0.00	0.00

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0312001 : Truing Up: Special Energy maters including D 3 8 bits are ing.



Civil & Building	0.00	0.00	0.00	0.00	3.34	0.00
Transmission Line	0.00	0.00	0.00	0.00	5.28	0.00
Sub Station	159.18	0.00	159.18	159.18	5.28	8.40
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	6.33	0.00
Leasehold Land	0.00	0.00	0.00	0.00	3.34	0.00
IT/Software/UNMS/URTDSM/ SCADA,etc	0.00	0.00	0.00	0.00	15.00	0.00
Batteries	0.00	0.00	0.00	0.00	5.28	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	6.33	0.00
TOTAL	159.18	0.00	159.18	159.18	0.00	8.40
Weighted Average Rate of Depreciation(%)					5.277045	

2021-22						
Land(Freehold)	0.00	0.00	0.00	0.00	0.00	0.00
Civil & Building	0.00	0.00	0.00	0.00	3.34	0.00
Transmission Line	0.00	0.00	0.00	0.00	5.28	0.00
Sub Station	159.18	0.00	159.18	159.18	5.28	8.40
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	6.33	0.00
Leasehold Land	0.00	0.00	0.00	0.00	3.34	0.00
IT/Software/UNMS/URTDSM/ SCADA,etc	0.00	0.00	0.00	0.00	15.00	0.00
Batteries	0.00	0.00	0.00	0.00	5.28	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	6.33	0.00
TOTAL	159.18	0.00	159.18	159.18	0.00	8.40
Weighted Average Rate of Depreciation(%)					5.277045	ID CORS

2022-23						
Land(Freehold)	0.00	0.00	0.00	0.00	0.00	0.00
Civil & Building	0.00	0.00	0.00	0.00	3.34	0.00
Transmission Line	0.00	0.00	0.00	0.00	5.28	0.00
Sub Station	159.18	0.00	159.18	159.18	5.28	8.40
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	6.33	0.00
Leasehold Land	0.00	0.00	0.00	0.00	3.34	0.00
IT/Software/UNMS/URTDSM/ SCADA,etc	0.00	0.00	0.00	0.00	15.00	0.00
Batteries	0.00	0.00	0.00	0.00	5.28	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	6.33	0.00
TOTAL	159.18	0.00	159.18	159.18	0.00	8.40
Weighted Average Rate of Depreciation(%)					5.277045	

2023-24						
Land(Freehold)	0.00	0.00	0.00	0.00	0.00	0.00
Civil & Building	0.00	0.00	0.00	0.00	3.34	0.00
Transmission Line	0.00	0.00	0.00	0.00	5.28	0.00
Sub Station	159.18	0.00	159.18	159.18	5.28	3.28
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	6.33	0.00
Leasehold Land	0.00	0.00	0.00	0.00	3.34	0.00
IT/Software/UNMS/URTDSM/ SCADA,etc	0.00	0.00	0.00	0.00	15.00	0.00
Batteries	0.00	0.00	0.00	0.00	5.28	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	633 633	0.00
TOTAL	159.18	0.00	159.18	159.18	* 000	3.28

0312001 : Truing Up: Special Energy meters including DCD & Moler Company



Weighted Average Rate of Depreciation(%)	2.06056	
Depreciation(70)		

(Petitioner)



Statement of Depreciation

Name of the	Transmission Licensee	Power Grid Corporati	on of India Limited					
Project	Additional Special Energy Meters in Northern Region							
Element Description	Special Energy meters including DCD & Meter testing equipments							
Region	Northern Region		DOCO Date	Apr 1, 2011				

(Amount in Rs. Lakh)

			(Amount in Rs. Lakh)		
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
No of Days in the year	366.00	365.00	365.00	365.00	366.00
No of days for which tariff claimed	366.00	365.00	365.00	365.00	366.00
Life at the beginning of the year					
1.1 Weighted Average useful life of the Asset/ Project	25.00	25.00	25.00	25.00	25.00
1.2 Lapsed Weighted Average useful life of the Asset/Project(in completed no. of year)	8.00	9.00	10.00	11.00	12.00
1.3 Balance Weighted Average useful life of the Asset/Project(in completed no. of year)	17.00	16.00	15.00	14.00	13.00
Capital Base					1
1.4 Opening capital cost	159.18	159.18	159.18	159.18	159.18
1.5 Additional Capital Expenditure dr. the year	0.00	0.00	0.00	0.00	0.00
1.6 De-Capitalisation During the year	0.00	0.00	0.00	0.00	0.00
1.7 Closing capital cost	159.18	159.18	159.18	159.18	159.18
1.8 Average capital cost	159.18	159.18	159.18	159.18	159.18
1.9 Freehold land included in 1.8	0.00	0.00	0.00	0.00	0.00
1.10 Asset having NIL salvage value included in 1.8	0.00	0.00	0.00	0.00	0.00
1.11 Asset having 10% salvage value included in 1.8	159.18	159.18	159.18	159.18	159.18
1.12 Depreciable Value(1.10+90% of 1.11)	143.26	143.26	143.26	143.26	143.26
Depreciation for the period and Cum. Depreciation					
1.13 Weighted Average Rate of depreciation	5.277045	5.277045	5.277045	5.277045	2.06056

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0312001 : Truing Up: Special Energy meters including DCD &

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1.14 Depreciation(for the period)	8.40	8.40	8.40	8.40	3.28
1.15 Depreciation(Annualised)	8.40	8.40	8.40	8.40	3.28
Unrecovered Depreciation for DECAP	0.00	0.00	0.00	0.00	0.00
1.16 Cumulative depreciation at the beginning of the period	66.98	75.38	83.78	92.18	100.58
1.17 Less:Adj of Cum. Dep pertaining to decapitalised Asset	0.00	0.00	0.00	0.00	0.00
1.18 Cumulative depreciation at the end of the period	75.38	83.78	92.18	100.58	103.86



Calculation of interest on working Capital

Form No. - 11

Name of the	Transmission Licensee	Power Grid Corporation of India Limited					
Project	Additional Special Energy Meters in Northern Region						
Element Description	ISPACIAL Energy meters including LV LLX Meter testing equipments						
Region	Northern Region		DOCO Date	Apr 1, 2011			

(Amount in Rs. Lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
No of Days in the year	366.00	365.00	365.00	365.00	366.00
No of days for which tariff claimed	366.00	365.00	365.00	365.00	366.00
O&M Expenses-one month	0.00	0.00	0.00	0.00	0.00
Maintenance spares 15% of O&M Expenses	0.00	0.00	0.00	0.00	0.00
Receivables equivalent to 45 days of AFC	2.64	2.55	2.45	2.35	1.64
Total Working capital	2.64	2.55	2.45	2.35	1.64
Bank Rate as on 01.04.2019 or as on 01st April of the COD year,whichever is later.	12.05	11.25	10.50	10.50	12.00
Interest on working capital	0.32	0.29	0.26	0.25	0.20
Pro rata interest on working capital	0.32	0.29	0.26	0.25	0.20



Form No. - 1

Summary of Tariff

Name of the Transmission Licensee: Power Grid Corporation of India Limited						
Project Additional Special Energy Meters in Northern Region						
Element Description	Special Energy meters including DCD & Meter testing equipments					
Region	Northern Region DOCO Date Apr 1, 2011					

(Amount in Rs. Lakh)

2024-25	2025-26	2026-27	2027-28	2028-29
365.00	365.00	365.00	366.00	365.00
365.00	365.00	365.00	366.00	365.00
3.28	3.28	3.28	3.28	3.29
0.56	0.25	0.05	0.00	0.00
8.97	8.97	8.97	8.97	8.97
0.19	0.19	0.18	0.18	0.18
0.00	0.00	0.00	0.00	0.00
13.00	12.69	12.48	12.43	12.44
	365.00 365.00 3.28 0.56 8.97 0.19	365.00 365.00 365.00 365.00 3.28 3.28 0.56 0.25 8.97 8.97 0.19 0.19 0.00 0.00	365.00 365.00 365.00 365.00 365.00 365.00 3.28 3.28 3.28 0.56 0.25 0.05 8.97 8.97 8.97 0.19 0.19 0.18 0.00 0.00 0.00	365.00 365.00 366.00 365.00 365.00 366.00 3.28 3.28 3.28 0.56 0.25 0.05 0.00 8.97 8.97 8.97 8.97 0.19 0.19 0.18 0.18 0.00 0.00 0.00 0.00



Normative parameters considered for tariff computations

Name of the T	ransmission Licensee	Power Grid Corporation of India Limited					
Project	Additional Special Energy Meters in Northern Region						
Element Description	Special Energy meters in	Special Energy meters including DCD & Meter testing equipments					
Region	Northern Region		DOCO Date	Apr 1, 2011			

(Amount in Rs. Lakh) **Particulars** 2023-24 2024-25 2025-26 2026-27 2027-28 2028-29 Base Rate of Return of Equity (in %) 17.472 17.472 17.472 17.472 17.472 Tax Rate (in %) 17.472 Effective tax rate (in %) 18.782 18.782 18.782 18.782 Grossed up Rate for ROE of 15.5% (in %) 18.782 18.782 Grossed up Rate for ROE of 15.0% (in %) 18.176 18.176 18.176 18.176 18.176 18.176 98.00 98.00 Target availability - AC System (in %) 98.00 98.00 98.00 98.00 Target availability - HVDC System (in %) 96.00 96.00 96.00 96.00 96.00 96.00 Norms for sub-station Bays (Rs Lakh per bay) 765 kV 51.68 41.34 43.51 45.79 48.20 50.73 400 kV 36.91 29.53 31.08 32.71 34,43 36.23 220 kV 25.84 20.67 21.75 22.90 24.10 25.36 132 kV and below 18.46 15.78 16.61 17.48 18.40 19.35 Norms for Transformers (Rs Lakh per MVA) 765 kV 0.564 0.262 0.276 0.29 0.305 0.322 0.262 0.276 400 kV 0.411 0.29 0.305 0.322 220 kV 0.282 0.262 0.276 0.29 0.305 0.322 0.276 132 kV and below 0.282 0.262 0.29 0.305 0.322 Norms for Reactor (Rs Lakh per MVAR) 765 kV 0.00 0.262 0.276 0.322 400 kV 0.00 0.262 0.276 0.322



220 kV	0.00	0.262	0.276	0.29	0.305	0.322
132 kV and below	0.00	0.262	0.276	0.29	0.305	0.322
Norms for AC and HVDC lines (Rs Lakh per km)						
Single Circuit (Bundled Conductor with six or more sub-conductors)	1.011	0.861	0.906	0.953	1.003	1.056
Single Circuit (Bundled conductor with four sub-conductors)	0.867	0.738	0.776	0.817	0.86	0.905
Single Circuit (Twin & Triple Conductor)	0.578	0.492	0.518	0.545	0.573	0.603
Single Circuit (Single Conductor)	0.289	0.246	0.259	0.272	0.287	0.302
Double Circuit (Bundled conductor with four or more sub-conductors)	1.517	1.291	1.359	1.43	1.506	1.585
Double Circuit (Twin & Triple Conductor)	1.011	0.861	0.906	0.953	1.003	1.056
Double Circuit (Single Conductor)	0.433	0.369	0.388	0.409	0.43	0.453
Multi Circuit (Bundled Conductor with four or more sub-conductor)	2.662	2.266	2.385	2.51	2.642	2.781
Multi Circuit (Twin & Triple Conductor)	1.773	1.509	1.588	1.671	1.759	1.851
Norms for HVDC stations (Rs Lakh/MW)						
HVDC bipole scheme (Rs Lakh/MW)	0.00	1.04	1.10	1.16	1.22	1.28
HVDC Back-to-Back stations (Rs Lakh/MW) (Except Gazuwaka BTB)	0.00	2.07	2.18	2.30	2.42	2.55
Gazuwaka HVDC Back-to-Back station (Rs Lakh/ MW)	0.00	1.83	1.92	2.03	2.13	2.24



Calculation of ROE

Name of the 1	Fransmission Licensee	Power Grid Corporation of India Limited				
Project	ect Additional Special Energy Meters in Northern Region					
Element Description	Special Energy meters including DCD & Meter testing equipments					
Region	Northern Region		DOCO Date	Apr 1, 2011		

(Amount in Rs. Lakh)

Particulars	2024-25	2025-26	2026-27	(Amount in R	
rai ucuiai s	2024-23	2025-26	2020-27	2027-28	2028-29
No. of Days in the year	365.00	365.00	365.00	366.00	365.00
No. of days for which tariff claimed	365.00	365.00	365.00	366.00	365.00
Opening Normative Equity	47.75	47.75	47.75	47.75	47.75
Less: Adjustment in Equity*	0.00	0.00	0.00	0.00	0.00
Adjustment during the year	0.00	0.00	0.00	0.00	0.00
Net opening equity (Normal)	47.75	47.75	47.75	47.75	47.75
Add: Increase in Equity due to addition during the year / period	0.00	0.00	0.00	0.00	0.00
Less: Decrease due to de-capitalisation during the year / period	0.00	0.00	0.00	0.00	0.00
Add: Increase due to discharge during the year / period	0.00	0.00	0.00	0.00	0.00
Closing Normative Equity	47.75	47.75	47.75	47.75	47.75
Average Normative Equity	47.75	47.75	47.75	47.75	47.75
Rate of return on Equity (%)	18.782	18.782	18.782	18.782	18.782
Reduced rate of 1% decided by commission under Regulation 30(2) (if any)	0.00	0.00	0.00	0.00	0.00
Effective rate of ROE	15.50	15.50	15.50	15.50	15.50
MAT/Corporate Rate	17.472	17,472	17.472	17.472	17.472
Grossed up rate of ROE	18.782	18.782	18.782	18.782	18.782
Pro rata return on Equity	8.97	8.97	8.97	8.97	8.97
Return on Equity	8.97	8.97	8.97	8.97	8.97

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0312001 : Special Energy meters including DCD & Meter testing equipments



Calculation of WAR of interest on actual loan

Name of the	Transmission Licensee	Power Grid Corporation of India Limited					
Project	Additional Special Energy Meters in Northern Region						
Element Description	Special Energy meters including DCD & Meter testing equipments						
Region	Northern Region	DOCO Date Apr 1, 2011					

(Amount in Rs. Lakh)

14		to. Editil)			
Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
BOND-XXXV -					
Gross Loan- Opening	54.13	54.13	54.13	54.13	54.13
Cumulative repayments of Loans upto previous year	40.60	45.11	49.62	54.13	54.13
Net loan-Opening	13.53	9.02	4.51	0.00	0.00
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	4.51	4.51	4.51	0.00	0.00
Net Loan-Closing	9.02	4.51	0.00	0.00	0.00
Average Net Loan	11.28	6.77	2.26	0.00	0.00
Rate of Interest on Loan on Annual Basis	9.64	9.64	9.64	9.64	9.64
Interest on loan	1.0874	0.6526	0.2179	0.00	0.00

BOND XXXIX -					
Gross Loan- Opening	56.29	56.29	56.29	56.29	56.29
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	56.29	56.29
Net loan-Opening	56.29	56.29	56.29	0.00	0.00
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	0.00	0.00	56.29	0.00	0.00
Net Loan-Closing	56.29	56.29	0.00	\$ 6.98P	O.00

Average Net Loan	56.29	56.29	28.15	0.00	0.00
Rate of Interest on Loan on Annual Basis	9.40	9.40	9.40	9.40	9.40
Interest on loan	5.2913	5.2913	2.6461	0.00	0.00

BOND XLVI -					
Gross Loan- Opening	1.01	1.01	1.01	1.01	1.01
Cumulative repayments of Loans upto previous year	0.34	0.67	0.67	0.67	0.67
Net loan-Opening	0.67	0.34	0.34	0.34	0.34
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year.	0.34	0.00	0.00	0.00	0.00
Net Loan-Closing	0.33	0.34	0.34	0.34	0.34
Average Net Loan	0.50	0.34	0.34	0.34	0.34
Rate of Interest on Loan on Annual Basis	9.30	9.30	9.30	9.30	9.30
Interest on loan	0.0465	0.0316	0.0316	0.0316	0.0316

Summary

Gross Loan- Opening	111.43	111.43	111.43	111.43	111.43
Gloss Loan- Opening	111.43	111.43	111.43	111.43	111.43
Cumulative repayments of Loans upto previous year	40.94	45.78	50.29	111.09	111.09
Net loan-Opening	70.49	65.65	61.14	0.34	0.34
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	4.85	4.51	60.80	0.00	0.00
Net Loan-Closing	65.64	61.14	0.34	0.34	0.34
Average Net Loan	68.07	63.40	30.75	0.34	0.34
Rate of Interest on Loan on Annual Basis	9.4391	9.4251	- 9.4166	9.2941	9.2941
Interest on loan	6.4252	5.9755	2.8956	0.0316	0.0316



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0312001 : Special Energy meters including DCD & Meter testing equipments

Name of the T	Fransmission Licensee	Power Grid Corporati	on of India Limited					
Project	Additional Special Energy Meters in Northern Region							
Element Description	Special Energy meters including DCD & Meter testing equipments							
Region	Northern Region	DOCO Date Apr 1, 2011						

(Amount in Rs. Lakh)

		(Amount in Rs. Lakh)					
2024-25	2025-26	2026-27	2027-28	2028-29			
365.00	365.00	365.00	366.00	365.00			
365.00	365.00	365.00	366.00	365.00			
111.43	111.43	111.43	111.43	111.43			
103.86	107.14	110.42	111.43	111.43			
7.57	4.29	1.01	0.00	0.00			
0.00	0.00	0.00	0.00	0.00			
0.00	0.00	0.00	0.00	0.00			
3.28	3.28	1.01	0.00	0.00			
0.00	0.00	0.00	0.00	0.00			
4.29	1.01	0.00	0.00	0.00			
5.93	2.65	0.51	0.00	0.00			
9.4391	9.4251	9.4166	9.2941	9.2941			
0.56	0.25	0.05	0.00	0.00			
0.56	0.25	0.05	0.00	0.00			
	365.00 365.00 111.43 103.86 7.57 0.00 0.00 3.28 0.00 4.29 5.93 9.4391 0.56	365.00 365.00 365.00 365.00 111.43 111.43 103.86 107.14 7.57 4.29 0.00 0.00 0.00 0.00 3.28 3.28 0.00 0.00 4.29 1.01 5.93 2.65 9.4391 9.4251 0.56 0.25	365.00 365.00 365.00 365.00 365.00 365.00 111.43 111.43 111.43 103.86 107.14 110.42 7.57 4.29 1.01 0.00 0.00 0.00 0.00 0.00 0.00 3.28 3.28 1.01 0.00 0.00 0.00 4.29 1.01 0.00 5.93 2.65 0.51 9.4391 9.4251 9.4166 0.56 0.25 0.05	2024-25 2025-26 2026-27 2027-28 365.00 365.00 366.00 365.00 365.00 366.00 111.43 111.43 111.43 103.86 107.14 110.42 111.43 7.57 4.29 1.01 0.00 0.00 0.00 0.00 0.00 3.28 3.28 1.01 0.00 0.00 0.00 0.00 0.00 4.29 1.01 0.00 0.00 5.93 2.65 0.51 0.00 9.4391 9.4251 9.4166 9.2941 0.56 0.25 0.05 0.00			

(Petitioner)



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0312001 : Special Energy meters including DCD & Meter testing equipments

Name of the	Fransmission Licensee	ower Grid Corporation of India Limited						
Project	Additional Special Energy Meters in Northern Region							
Element Description	Special Energy meters including DCD & Meter testing equipments							
Region	Northern Region	DOCO Date Apr 1, 2011						

(Amount in Rs. Lakh)

	(Allouit					
Name of Assets	Gross block at the beginning of the year	Add Cap during the year	Gross block at the end of the year	Average Gross Block	Depreciation Rate as per CERC's Depreciation Rate Schedule	Depreciation Amount for each year upto 31.03.2029
2024-25						
Land(Freehold)	0.00	0.00	0.00	0.00	0.00	0.00
Civil & Building	0.00	0.00	0.00	0.00	3.34	0.00
Transmission Line	0.00	0.00	0.00	0.00	5.28	0.00
Sub Station	159.18	0.00	159.18	159.18	5.28	3.28
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	15.00	0.00
Leasehold Land	0.00	0.00	0.00	0.00	3.34	0.00
IT/Software/UNMS/URTDSM/ SCADA,etc	0.00	0.00	0.00	0.00	15.00	0.00
Batteries	0.00	0.00	0.00	0.00	9.50	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	6.33	0.00
TOTAL	159.18	0.00	159.18	159.18	0.00	3.28
Weighted Average Rate of Depreciation(%)					2.06056	

2025-26				CORPOR	
Land(Freehold)	0.00	0.00	0.00	0.00	0.00

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0312001 Special Energy meters including DCD

Civil & Building	0.00	0.00	0.00	0.00	3.34	0.00
Transmission Line	0.00	0.00	0.00	0.00	5.28	0.00
Sub Station	159.18	0.00	159.18	159.18	5.28	3.28
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	15.00	0.00
Leasehold Land	0.00	0.00	0.00	0.00	3.34	0.00
IT/Software/UNMS/URTDSM/ SCADA,etc	0.00	0.00	0.00	0.00	15.00	0.00
Batteries	0.00	0.00	0.00	0.00	9.50	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	6.33	0.00
TOTAL	159.18	0.00	159.18	159.18	0.00	3.28
Weighted Average Rate of Depreciation(%)					2.06056	

2026-27						
Land(Freehold)	0.00	0.00	0.00	0.00	0.00	0.00
Civil & Building	0.00	0.00	0.00	0.00	3.34	0.00
Transmission Line	0.00	0.00	0.00	0.00	5.28	0.00
Sub Station	159.18	0.00	159.18	159.18	5.28	3.28
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	15.00	0.00
Leasehold Land	0.00	0.00	0.00	0.00	3.34	0.00
IT/Software/UNMS/URTDSM/ SCADA,etc	0.00	0.00	0.00	0.00	15.00	0.00
Batteries	0.00	0.00	0.00	0.00	9.50	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	6.33	0.00
TOTAL	159.18	0.00	159.18	159.18	0.00	3.28
Weighted Average Rate of Depreciation(%)					2.06056	STEE STEE

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2027-28						
Land(Freehold)	0.00	0.00	0.00	0.00	0.00	0.00
Civil & Building	0.00	0.00	0.00	0.00	3.34	0.00
Transmission Line	0.00	0.00	0.00	0.00	5.28	0.00
Sub Station	159.18	0.00	159.18	159.18	5.28	3.28
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	15.00	0.00
Leasehold Land	0.00	0.00	0.00	0.00	3.34	0.00
IT/Software/UNMS/URTDSM/ SCADA,etc	0.00	0.00	0.00	0.00	15.00	0.00
Batteries	0.00	0.00	0.00	0.00	9.50	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	6.33	0.00
TOTAL	159.18	0.00	159.18	159.18	0.00	3.28
Weighted Average Rate of Depreciation(%)					2.06056	

2028-29						
Land(Freehold)	0.00	0.00	0.00	0.00	0.00	0.00
Civil & Building	0.00	0.00	0.00	0.00	3.34	0.00
Transmission Line	0.00	0.00	0.00	0.00	5.28	0.00
Sub Station	159.18	0.00	159.18	159.18	5.28	3.29
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	15.00	0.00
Leasehold Land	0.00	0.00	0.00	0.00	3.34	0.00
IT/Software/UNMS/URTDSM/ SCADA,etc	0.00	0.00	0.00	0.00	15.00	0.00
Batteries	0.00	0.00	0.00	0.00	9.50	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	6.33	0.00
TOTAL	159.18	0.00	159.18	159.18	0.00	3.29

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0312001 : Special Energy meters including DCD & Met



Weighted Average Rate of	2.066942	
Depreciation(%)	2.066843	



Statement of Depreciation

Name of the 1	Fransmission Licensee	Power Grid Corporati	on of India Limited	
Project	Additional Special Energ	gy Meters in Northern	Region	
Element Description	Special Energy meters i	ncluding DCD & Meter	rtesting equipment	s
Region	Northern Region		DOCO Date	Apr 1, 2011

(Amount in Rs. Lakh)

				(Amount in R	s. Lakh)
Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
No of Days in the year	365.00	365.00	365.00	366.00	365.00
No of days for which tariff claimed	365.00	365.00	365.00	366.00	365.00
Life at the beginning of the year		1			
1.1 Weighted Average useful life of the Asset/ Project	25.00	25.00	25.00	25.00	25.00
1.2 Lapsed Weighted Average useful life of the Asset/Project(in completed no. of year)	13.00	14.00	15.00	16.00	17.00
1.3 Balance Weighted Average useful life of the Asset/Project(in completed no. of year)	12.00	11.00	10.00	9.00	8.00
Capital Base					
1.4 Opening capital cost	159.18	159.18	159.18	159.18	159.18
1.5 Additional Capital Expenditure dr. the year	0.00	0.00	0.00	0.00	0.00
1.6 De-Capitalisation During the year	0.00	0.00	0.00	0.00	0.00
1.7 Closing capital cost	159.18	159.18	159.18	159.18	159.18
1.8 Average capital cost	159.18	159.18	159.18	159.18	159.18
1.9 Freehold land included in 1.8	0.00	0.00	0.00	0.00	0.00
1.10 Asset having NIL salvage value included in 1.8	0.00	0.00	0.00	0.00	0.00
1.11 Asset having 10% salvage value included in 1.8	159.18	159.18	159.18	159.18	159.18
1.12 Depreciable Value(1.10+90% of 1.11)	143.26	143.26	143.26	143.26	143.26
Depreciation for the period and Cum. Depreciation					
1.13 Weighted Average Rate of depreciation	2.06056	2.06056	2.06056	2.06056	2.066843

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0312001 : Special Energy meters including DCD &

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1.14 Depreciation(for the period)	3.28	3.28	3.28	3.28	3.29
1.15 Depreciation(Annualised)	3.28	3.28	3.28	3.28	3.29
Unrecovered Depreciation for DECAP	0.00	0.00	0.00	0.00	0.00
1.16 Cumulative depreciation at the beginning of the period	103.86	107.14	110.42	113.70	116.98
1.17 Less:Adj of Cum. Dep pertaining to decapitalised Asset	0.00	0.00	0.00	0.00	0.00
1.18 Cumulative depreciation at the end of the period	107.14	110.42	113.70	116.98	120.27



Calculation of interest on working Capital

Form No. - 11

Name of the	Transmission Licensee	Power Grid Corpora	ation of India Limited	d
Project	Additional Special Energy	Meters in Northern	Region	
Element Description	Special Energy meters inc	cluding DCD & Mete	r testing equipment	s
Region	Northern Region		DOCO Date	Apr 1, 2011

(Amount in Rs. Lakh)

Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
No of Days in the year	365.00	365.00	365.00	366.00	365.00
No of days for which tariff claimed	365.00	365.00	365.00	366.00	365.00
O&M Expenses-one month	0.00	0.00	0.00	0.00	0.00
Maintenance spares 15% of O&M Expenses	0.00	0.00	0.00	0.00	0.00
Receivables equivalent to 45 days of AFC	1.60	1.56	1.54	1.53	1.53
Total Working capital	1.60	1.56	1.54	1.53	1.53
Bank Rate as on 01.04.2019 or as on 01st April of the COD year,whichever is later.	11.90	11.90	11.90	11.90	11.90
Interest on working capital	0.19	0.19	0.18	0.18	0.18
Pro rata interest on working capital	0.19	0.19	0.18	0.18	0.18



	Summa	ary of issue involved in the petition	PART-III FORM- 15
l. Nan	ne of the Petitioner	Powergrid Corpora	tion of India Ltd
2. Peti	tion Category	Transmission	
. Tari	ff Period	2024-29	
. Nan	ne of the Project		
		Additional Special	Energy Meters in Northern Region
. Inve	stment Approval date		
. SCO	D of the Project		
. Actı	al COD of the project	01.04.2011	
. Whe	ther entire scope is covered in t	ne present petition.	
	of Assets covered in instant peti		
0. No	of Assets having time over run		
1. Est	imated Project Cost as per IA		
	there any REC? if so, provide the		
	rised Estimated Project Cost (if a	• •	
4. Cor	mpletion cost for all the assets co	vered in the instant petition.	
5. No.	of Assets covered in instant pet	ition and having cost overrun.	
17	Key details and any Specific i 1) There is No add-cap in 2019		
18	Respondents		
	Name of Respondents		
	1	AJMER VIDYUT VITRAN NIG	AM LTD
	2	JAIPUR VIDYUT VITRAN NIC	
	3	JODHPUR VIDYUT VITRAN N	
	4	HIMACHAL PRADESH STATE ELECT	RICITY BOARD
	5	PUNJAB STATE POWER CORPORA	
	6	HARYANA POWER PURCHASI	CENTRE
7 POWER DI		POWER DEVELOPMENT D	
	8	UTTAR PRADESH POWER CORPO	RATION LTD.
	9	BSES YAMUNA POWER	
	10	BSES RAJDHANI POWER	
	11	TATA POWER DELHI DISTRIBU	ITION LTD
	12	CHANDIGARH ADMINISTR	ATION
	13	UTTARAKHAND POWER CORPO	RATION LTD
	14	NORTH CENTRAL RAILV	IAV
	17	NORTH CENTRAL RAILV	VAT





		Su	Summary of Capital	pital Cost & Annual Fixed Cost (AFC) Claimed for ALL the assets covered in the present petition.	ixed Cost (A	FC) Claime	d for ALL th	e assets cove	ered in the	resent petit	ion.		
Name of t	Name of the Petitioner							Powerg	Powergrid Corporation of India Ltd	n of India Ltd			
Tariff Period	pot								2024-29				
Name of t	Name of the Transmission Project	Project					A	Additional Special Energy Meters in Northern Region	al Energy Met	ers in Northerr	Region 1		
COD of th	COD of the Project (if entire scope of project is completed)	scope of pr	roject is comp	leted)					01.04.2011				
													Rupees in lakh
A) Summe	A) Summary of Capital Cost as on COD and Additional C	t as on COL	O and Additic	anal Capital Expenditure claimed for all the assets Covered in the instant petition.	rre claimed f	or all the as	sets Covere	in the insta	nt petition.				
				i) Apportioned Approved Cost	proved Cost								
								ii) Summ	ary of Actu	al/Projecte	ii) Summary of Actual / Projected Capital Cost	ost	
		СОО	Cut-off										
S. No.	Asset No.		ر عاد	As per Investment approval	As per RCE	As on COD	2024-25	2025-26	2026-27	2027-28	2028-29	Capital Cost as on 31.03.2029	Capital Cost as on cutoff date
		1	2	3	4	יט	9		7 8	6	10	11=(5+6+7 +8+9+10)	12
1	Asset-1	01.04.2011	31.03.2014			159.18	,					159.18	159.18
	Total Capital Cost Claimed	ost Claimec	75			159.18		0	0	0	0	159.18	159.18
B) Summa	B) Summary of Annual Fixed Cost (AFC) claimed for all	d Cost (AFC	C) claimed for	r all the assets covered in the instant petition.	in the insta	nt petition.							
S. No.	Asset No.			Asset Name	Asset Name and its location	ion			2024-25	2025-26	2026-27	2027-28	2028-29
1	Asset-1	Additional S _F	pecial Energy Ma	Additional Special Energy Meters in Northern Region					13.00	12.69	12.48	12,43	12.44
			Tota	Total AFC for all the Assets	ž.				13.00	12.69	12.48	12.43	12.44
Note: 1) T	he purpose of this	form is to su	ummarise the	Note: 1) The purpose of this form is to summarise the Capital cost & AFC claimed for all the assets covered in the instant petition.	aimed for all	the assets cc	overed in the	instant petit	ion.				



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PART-III
Checklist of Forms and other information/documents for tariff filing for
Transmission System& Communication System

Form No.	Title of Tariff Filing Forms (Transmission& Communication System)	Tick
FORM-1	Summary of Tariff	1
FORM- 1A	Summary of Asset level cost	NA
FORM-2	Details of Transmission Lines and Substations and Communication	NA
	System covered in the project scope and O&M for instant asset	
FORM-3	Normative parameters considered for tariff computations	1
	Abstract of existing transmission assets/elements under project,	NA
FORM- 4	Determination of Effective COD and Weighted Average Life for single AFC for the project as	
	whole.	
FORM- 4A	Statement of Capital cost	¥
FORM-4B	Statement of Capital Works in Progress	NA
FORM- 4C	Abstract of Capital Cost Estimates and Schedule of Commissioning for	NA
	the New Project/Element	
FORM-5	Element wise Break-up of Project/Asset/Element Cost for	NA
	Transmission System or Communication System	
FORM-5A	Break-up of Construction/Supply/Service packages	NA
FORM-5B	Details of all the assets covered in the project	NA
FORM- 6	Actual Cash Expenditure and Financial Package up to COD	NA
FORM-7	Statement of Additional Capitalisation after COD	NA
FORM- 7A	Financing of Additional Capitalisation	NA
FORM- 7B	Statement of Additional Capitalisation during five year before the end	NA
	of the useful life of the project.	
FORM- 8	Calculation of Return on Equity	1
FORM-8A	Details of Foreign Equity	NA
FORM-9	Details of Allocation of corporate loans to various transmission	NA
	elements	
FORM-9A	Details of Project Specific Loans	NA
FORM-9B	Details of Foreign loans	NA
FORM-9C	Calculation of Weighted Average Rate of Interest on Actual Loans	NA
FORM-9D	Loans in Foreign Currency	NA
FORM-9E	Calculation of Interest on Normative Loan	1
FORM- 10	Calculation of Depreciation Rate on original project cost	/
FORM- 10A	Statement of Depreciation	1
FORM- 10B	Statement of De-capitalisation	NA
FORM- 11	Calculation of Interest on Working Capital	1
FORM- 12	Details of time over run	NA
FORM- 12A	Incidental Expenditure during Construction	NA
FORM- 12B	Calculation of IDC & Financing Charges	NA
FORM- 13	Details of Initial spares	NA
FORM- 14	Non-Tariff Income	NA
FORM-15	Summary of issue involved in the petition	✓
FORM A	Summary of Capital Cost & Annual Fixed Cost (AFC) Claimed for ALL	1





. No.	Information/Document	
		Tic
1	Certificate of incorporation, Certificate for Commencement of Business, Memorandum of Association, & Articles of Association (For New Project(s) setup by a company making tariff application for the first time to CERC)	NA
2	Region wise and Corporate audited Balance Sheet and Profit & Loss Accounts with all the Schedules & Annexure for the new Transmission System & Communication System for the relevant years.	NA
3	Copies of relevant loan Agreements	NA
4	Copies of the approval of Competent Authority for the Capital Cost and Financial package.	Yes
5	Copies of the Equity participation agreements and necessary approval for the foreign equity.	NA
6	Copies of the BPTA/TSA/PPA with the beneficiaries, if any	NA
7	Detailed note giving reasons of cost and time over run, if applicable. List of supporting documents to be submitted: a. Detailed Project Report b. CPM Analysis c. PERT Chart and Bar Chart d. Justification for cost and time Overrun	Yes
8	Transmission Licensee shall submit copy of Cost Audit Report along with cost accounting records, cost details, statements, schedules etc. for the transmission system as submitted to the Govt. of India for first two years i.e. 2019-20 and 2020-21 at the time of midterm true-up in 2021-22 and for balance period of tariff period 2019-24 at the time of final true-up in 2024-25. In case of initial tariff filing the latest available Cost Audit Report should be furnished.	NA
9.	BBMB is maintaining the records as per the relevant applicable Acts. Formats specified herein may not be suitable to the available information with BBMB. BBMB may modify formats suitably as per available information to them for submission of required information for tariff purpose.	NA
10.	Any other relevant information, (Please specify)	NA

Note 1: Electronic copy of the petition (in words format) and detailed calculation as per these formats (in excel format) and any other information submitted has to be uploaded in the e-filing website and shall also be furnished in pen drive/flash drive.

