

CCL: POWERGRID/TRUE UP/SR/

दिनांक: 21.10.2024

सचिव,
केंद्रीय विद्युत विनियामक आयोग (सी.ई.आर.सी.)
छठवाँ, सातवाँ एवं आठवाँ तल, टॉवर बी,
वर्ल्ड ट्रेड सेंटर, नौरोजी नगर, नई दिल्ली-110029

विषय:- Petition for truing up of Transmission tariff for 2019-24 and determination of transmission tariff for 2024-29 tariff block for **Unified Load Despatch & Communication Scheme (POWERGRID portion i.e. Communication system portion and SLDC system retained by the petitioner after formation of POSOCO)** in Southern Region under Section 62 read with Section 79 (1) (d) of 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 Condition of Tariff Regulations) 2019 and Central Electricity Regulatory Commission (Terms and Condition of Tariff Regulations) 2024.

महोदय,

उपरोक्त पारेषण प्रणाली के वर्ष 01.04.2019 से 31.03.2024 तथा 01.4.2024 से 31.3.2029 तक के पारेषण टैरिफ हेतु याचिका की 1 मूल व 2 प्रति संलग्न है। पूर्ण याचिका को पावरग्रिड की बेवसाइट पर दर्शाया गया है जिसका पता www.powergrid.in है। माननीय आयोग द्वारा जारी सार्वजनिक सूचना दिनांक 25.08.2010 के अनुसार राशि का भुगतान वार्षिक फाईलिंग फीस के माध्यम से किया गया है। याचिका शुल्क की गणना नई फीस रेगुलेशन, 2012 के पैरा 3(2) के तहत दिये गये निर्देशों के आधार पर निम्ननुसार की गई है:-

Asset	Period	Fin. Year	Revised Tariff (T) (Rs. In. Lakh)	Petition Filing fees already paid (A) (Rs.)	Revised Petition filing fees @...of Tariff (R)	Revised Petition filing fees (B)=(T)X® (Rs.)	Rounded to nearest 100 (min. 40,000: 2009-12 and min. 1,00,000: 2012-25 (Rs.))	Net Filing fee Payable (Rs.) (B-A)
Combined Asset	2019-24	2019-20	43.54	100000	0.11%	4789.4	100000	0
		2020-21	11.23	100000	0.11%	1235.3	100000	0
		2021-22	148.25	100000	0.11%	16307.5	100000	0
		2022-23	137.13	100000	0.11%	15084.3	100000	0
		2023-24	157.89	100000	0.11%	17367.9	100000	0
	2024-29	2024-25	161.95	100000	0.11%	17814.5	100000	0
Total	Filing fee payable							0



Unified Load Despatch & Communication Scheme (POWERGRID portion i.e. Communication system portion and SLDC system retained by the petitioner after formation of POSOCO)

माननीय आयोग द्वारा जारी CBR, 2023 के पैरा 18 (4) एवं 23(4) के तहत दिये गये निर्देशों के आधार पर याचिका की प्रति सभी पंजीकृत प्रतिवादियों को ईमेल द्वारा भेज दी गई है। ईमेल की प्रति संलग्न है। याचिका ई-फाइल कर दी गई है। माननीय आयोग से निवेदन है कि याचिका को स्वीकृत किया जाए। कृपया पावती भेजें।

भवदीय,


(मोहम्मद मोहसिन)

मुख्य महाप्रबंधक
(वाणिज्यिक/विनियामक प्रकोष्ठ)



Form - I (Payment Related Report)

Particulars

1.	Name of the Petitioner / Applicant	POWER GRID CORPORATION OF INDIA LIMITED POWERGRID
2.	Address of the Petitioner / Applicant	Commercial&Regulatory Cell, Power Grid Corporation of India Ltd., 'Saudamini', Plot No.2, Sector 29, Gurgaon, Haryana, India Gurgaon
3.	Subject Matter	(Petition for truing up of Transmission tariff for 2019-24 and determination of transmission tariff for 2024-29 tariff block for Unified Load Despatch & Communication Scheme (POWERGRID portion i.e. Communication system portion and SLDC system retained by the petitioner after formation of POSOCO) in Southern Region under Section 62 read with Section 79 (1) (d) of 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 Condition of Tariff Regulations) 2019 and Central Electricity Regulatory Commission (Terms and Condition of Tariff Regulations) 2024..)
4.	Diary No.	
5.	Petition No., if any	
6.	Details of generation / Transmission assets	TT
	(a) Generating station / units	Asset I
	(b) Capacity in MW / ATC	16195000
	(c) Date of commercial operation	01/07/2002
	(d) Period of which fee paid	2024-2029
	(e) Amount Paid	0
	(f) Surcharge, if any	0
7.	Application fee for licence	
	(a) Trading licence	
	(b) Transmission licence	
	(c) Period of which paid	
	(d) Amount of fee paid	
8.	Fee paid for Miscellaneous Application	
9.	Fee paid for Interlocutory Application	
10.	Fee paid for Regulatory Compliance petition	
	Fee paid for Review Application	
	Licence fee for inter-state trading	
	(a) Category	
	(b) Period	
	(c) Amount of fee paid	
	(d) Surcharge, if any	
	Annual Registration Charge for Power Exchange	
	(a) Period	



(b) Amount of turnover	
(c) Fee paid	
(d) Surcharge, if any	
Details of fee remitted	
(a) UTR No.	
(b) Date of remittance	
(c) Amount remitted	

Note : While Sl. Nos. 1 to 3 and 16 are compulsory, the rest may be filled up as applicable.

Signature of the authorized signatory with date

[Handwritten Signature]
21/10/2024



BEFORE
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 **Unified Load Despatch & Communication Scheme (POWERGRID portion i.e. Communication system portion and SLDC system retained by the petitioner after formation of POSOCO)** in Southern Region under Section 62 read with Section 79 (1) (d) of 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 Condition of Tariff Regulations) 2019 and Central Electricity Regulatory Commission (Terms and Condition of Tariff Regulations) 2024.

Power Grid Corporation of India Ltd.

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).

---Petitioner Name

Assam Power Distribution Company Limited
04th Floor, Bijulee Bhawan, Paltan Bazar,
Guwahati – 781001, Assam
Represented by its Managing Director

And others

---Respondent Name

Place: Gurgaon

Date: 19.10.2024

Petitioner


(Mohd. Mohsin)

Chief General Manager (Commercial/RC)



BEFORE
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 **Unified Load Despatch & Communication Scheme (POWERGRID portion i.e. Communication system portion and SLDC system retained by the petitioner after formation of POSOCO)** in Southern Region under Section 62 read with Section 79 (1) (d) of 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 Condition of Tariff Regulations) 2019 and Central Electricity Regulatory Commission (Terms and Condition of Tariff Regulations) 2024.

Power Grid Corporation of India Ltd.

--- PETITIONER

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Corporate Centre : 'SAUDAMINI', Plot No-2,
Sector-29, Gurgaon-122 001 (Haryana).

Assam Power Distribution Company Limited

----- RESPONDENTS

04th Floor, Bijulee Bhawan, Paltan Bazar,
Guwahati – 781001, Assam

Represented by its Managing Director

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FILED BY

POWER GRID CORPORATION OF INDIA LTD.

GURGAON

REPRESENTED BY

DATED:19.09.2024


Mohd. Mohsin

Chief General Manager (Commercial/RC)



**BEFORE
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 **Unified Load Despatch & Communication Scheme (POWERGRID portion i.e. Communication system portion and SLDC system retained by the petitioner after formation of POSOCO)** in Southern Region under Section 62 read with Section 79 (1) (d) of 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 Condition of Tariff Regulations) 2019 and Central Electricity Regulatory Commission (Terms and Condition of Tariff Regulations) 2024..

Power Grid Corporation of India Ltd.

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).

--- PETITIONER

Assam Power Distribution Company Limited

04th Floor, Bijulee Bhawan, Paltan Bazar,

Guwahati – 781001, Assam

Represented by its Managing Director

----- RESPONDENTS

To
The Secretary
Central Electricity Regulatory Commission
New Delhi 110006
Sir,

The present tariff Petition is filed under Section 62 read with Section 79 (1) (d) of 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 Condition of Tariff Regulations) 2019 and Central Electricity Regulatory Commission (Terms and Condition of Tariff Regulations) 2024 and same may be pleased to be registered and taken on record by the Hon'ble Commission.

GURGAON

FILED BY

DATED:19.10.2024

**POWER GRID CORPORATION OF INDIA LTD.
REPRESENTED BY**


Mohd. Mohsin

Chief General Manager (Commercial/RC)



**BEFORE
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 **Unified Load Despatch & Communication Scheme (POWERGRID portion i.e. Communication system portion and SLDC system retained by the petitioner after formation of POSOCO)** in Southern Region under Section 62 read with Section 79 (1) (d) of 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 Condition of Tariff Regulations) 2019 and Central Electricity Regulatory Commission (Terms and Condition 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).

Assam Power Distribution Company Limited

----- RESPONDENTS

04th Floor, Bijulee Bhawan, Paltan Bazar,
Guwahati – 781001, Assam
Represented by its Managing Director

MEMO OF PARTIES

Power Grid Corporation of India Ltd.

---Petitioner

VERSUS

Southern Region

---Respondent

1. Tamil Nadu Generation and Distribution Corporation Ltd
NPKRR Maaligai, 800, Anna Salai,
Chennai – 600 002
Represented by its Chairman & Managing Director



2.Kerala State Electricity Board Ltd (KSEBL)

Vaidyuthi Bhavanam

Pattom, Thiruvananthapuram – 695 004

Represented by its Chairman

3.Electricity Department

Government of Goa

Vidyuti Bhawan, Panaji, Goa 403001

Represented by Chief Engineer (Electrical)

4.Electricity Department

Govt of Pondicherry,

137, Netaji Subash Chandra Bose Salai

Pondicherry - 605001

Represented by its Chief Secretary

5.Eastern Power Distribution Company of Andhra Pradesh Limited (APEPDCL),

APEPDCL, P&T Colony,

Seethmmadhara, VISHAKHAPATNAM, Andhra Pradesh,

Represented by its Chairman & Managing Director

6.Southern Power Distribution Company of Andhra Pradesh Ltd (APSPDCL)

#19-13-65/A, Srinivasapuram, Tiruchanoor Road

Tirupati – 517503, Andhra Pradesh

Represented by Its Chairman & Managing Director

7.Andhra Pradesh Central Power Distribution Company Limited (APCPDCL)

Corporate Office, Beside Polytechnic College, ITI Road

Vijayawada - 520 008, Krishna District, Andhra Pradesh

Represented by Its Chairman & Managing Director

8.Southern Power Distribution Company of Telangana Limited (TSSPDCL)

6-1-50, Corporate Office, Mint Compound,

HYDERABAD – 500 063, Telangana

Represented by Its Chairman & Managing Director



9.Northern Power Distribution Company of Telangana Limited (TSNPDCL)

H.No 2-5-3 1/2, Vidyut Bhawan, Corporate Office,
Nakkal Gutta, Hanamkonda, WARANGAL – 506 001, Telangana
Represented by Its Chairman & Managing Director

10.Bangalore Electricity Supply Company Ltd., (BESCOM),

Corporate Office, K.R.Circle
BANGALORE – 560 001, Karanataka
Represented by Its Managing Director

11.Gulbarga Electricity Supply Company Ltd., (GESCOM)

Corporate Office, Station Main Road, Opp. Parivar Hotel,
Gulbarga (Kalburgi), KARNATAKA - 585102
Represented by Its Managing Director

12.Hubli Electricity Supply Company Ltd., (HESCOM)

Navanagar, PB Road, HUBLI, Karnataka- 580025
Represented by Its Managing Director

13.Mangalore Electricity Supply Company Ltd., (MESCOM)

Corporate Office,1st Floor, MESCOM Bhavan,
Kavoor Cross Road, Bejai, Mangalore – 575 004,Karnataka
Represented by Its Managing Director

14.Chamundeswari Electricity Supply Corporation Ltd., (CESC)

Corporate Office, #29, Vijayanagara 2nd Stage,
Hinkal, Mysuru-570017, KARNATAKA
Represented by Its Managing Director

GURGAON

DATED:19.10.2024

PETITIONER
POWER GRID CORPORATION OF INDIA LTD.
REPRESENTED BY


Mohd. Mohsin

Chief General Manager (Commercial/RC)



**BEFORE
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 **Unified Load Despatch & Communication Scheme (POWERGRID portion i.e. Communication system portion and SLDC system retained by the petitioner after formation of POSOCO)** in Southern Region under Section 62 read with Section 79 (1) (d) of 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 Condition of Tariff Regulations) 2019 and Central Electricity Regulatory Commission (Terms and Condition of Tariff Regulations) 2024.

Power Grid Corporation of India Ltd.

--- PETITIONER

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Corporate Centre : 'SAUDAMINI', Plot No-2,
Sector-29, Gurgaon-122 001 (Haryana).

Assam Power Distribution Company Limited
04th Floor, Bijulee Bhawan, Paltan Bazar,
Guwahati – 781001, Assam
Represented by its Managing Director

--- RESPONDENT

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 (Commercial/RC), POWERGRID**
3. Shri V.C. Sekhar, Sr. GM (Commercial-RC), POWERGRID
4. Shri Zafrul Hasan, GM (Comml- Petition), POWERGRID




5. Shri Angaru Naresh Kumar, DGM, POWERGRID
6. Shri Arjun Malhotra, Manager (Law), POWERGRID

I, Mohd. Mohsin, 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 19th day of Oct' 2024.

PETITIONER
POWER GRID CORPORATION OF INDIA LTD.

GURGAON
DATED:19.10.2024


Mohd. Mohsin
Chief General Manager (Commercial/RC)



BEFORE
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 **Unified Load Despatch & Communication Scheme (POWERGRID portion i.e. Communication system portion and SLDC system retained by the petitioner after formation of POSOCO)** in Southern Region under Section 62 read with Section 79 (1) (d) of 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 Condition of Tariff Regulations) 2019 and Central Electricity Regulatory Commission (Terms and Condition of Tariff Regulations) 2024.

Power Grid Corporation of India Ltd

--- PETITIONER

Registered office: B-9, Qutab Institutional Area,
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Corporate Centre : 'SAUDAMINI', Plot No-2,
Sector-29, Gurgaon-122 001 (Haryana).

Assam Power Distribution Company Limited

----- RESPONDENTS

04th Floor, Bijulee Bhawan, Paltan Bazar,
Guwahati – 781001, Assam

Represented by its Managing Director

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, maintain and operate an efficient, coordinated



and economical interstate 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 Central Commission**”). Tariff for the transmission system established by POWERGRID is required to be determined by this Hon’ble Central Commission in accordance with the Tariff Regulations as notified by this Hon’ble Central Commission in exercise of its powers under Section 178 of the Electricity Act, 2003.

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

POWERGRID has impleaded Generating stations, distribution licensees and Government department of the respective states which are engaged in distribution of electricity in Southern Region of India. The respondents are also ‘Designated Inter State Transmission Customer’ (hereinafter referred to as ‘DICS’) in terms of the 2020 Sharing Regulations from Southern region.

(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 **Unified Load Despatch & Communication Scheme (POWERGRID portion i.e. Communication system portion and SLDC system retained by the petitioner after formation of POSOCO), DOCO w.e.f. 01.07.2002.**

(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 assets on capital cost comprising of capital cost incurred/Admitted upto 31.03.2019/DOCO and additional capital expenditure during 2019-24 & 2024-29 in accordance with terms 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. It is relevant to mention here that the ULD & C Scheme in Southern Region was commissioned on 01.07.2002 and hence the instant asset has been completed 15 years on 30.06.2017. Accordingly, the entire Capital Cost in respect of Non Microwave system has been recovered upto 30.06.2017 i.e. during 2017-18. Accordingly, the capital recovery for the loan and equity for the above asset has been completed as on 30.06.2017, hence during the Tariff Block 2019-24 & 2024-29, only O&M Charges and Interest on Working Capital for the Central portion has been claimed. The entire recovery of the State portion of the asset has been completed by 30.06.2017 and no charges have been claimed during tariff period 2019-24 and 2024-29.
5. **It is prayed to hon'ble commission to reimburse** expenditure of petition filing fee, license fee, newspaper publication expanses and RLDC fee & charges etc.
6. 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
Asset	AFC approved	162.04	161.59	161.16	161.16	161.16
	Revised AFC based on truing up	43.54	11.23	148.25	137.13	157.89

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	161.95	161.95	161.95	161.95	161.95

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, maintain and operate an efficient, coordinated and economical interstate transmission system (ISTS). The tariff for the said transmission systems shall be determined by the Hon'ble Central Commission in accordance with the 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	Unified Load Despatch & Communication Scheme (POWERGRID portion i.e. Communication system portion and SLDC system retained by the petitioner after formation of POSOCO)	01.07.2002	Earlier covered under petition no. 692/TT/2020 now covered under instant petition

10. Cost detail:

The entire capital cost for subject Asset has already been recovered till 30.06.2017 as per order dated 19.05.2022 in petition no. 692/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. Transmission tariff:

The 2019-2024 truing up exercise 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 2019-24.

Regulation 13 of Tariff Regulation 2019-24:

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 Regulation 2019-24 period dated 07.03.2019 in the truing up petition for 2019-24 tariff block.

Regulation 31 (3) of the tariff Regulation 2019-24:

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

Further, CERC vide order dated 24.12.2013 regarding recovery of income tax has mentioned:

Quote

The concept of grossing up linked with the tariff determination for ordinary assets cannot per se be applied for calculating fees and charges in accordance with the Capital Recovery Factor (CRF) concept. By considering the grossed-up value of RoE, CRF gets distorted because of factoring of tax component. Therefore, in departure from the provisions for recovery of RoE specified under the tariff regulations presently applicable, post-tax RoE of 15.50% per annum, converted to monthly rates, has been considered. As RoE has been considered post-tax, the petitioner shall be entitled to recover income-tax from the respondents in proportion to the fees and charges shared by them in accordance with this order.

Unquote



Accordingly, the applicable income tax will be recovered separately from the beneficiaries.

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

While awarding the annual fees and Charges for the 2019-24 period for the Central Portion of the Non-Microwave communication assets, Hon'ble Commission has considered the O&M expenditure for 2019-24 were 2% of the total capital claimed by which is subject to true up. Accordingly, actual O&M expense for 2019-24 has been considered in the instant petition for calculating the Annual Capital Charges for Central Sector of Non-Microwave portion. The auditor certificate for the actual O&M expenses for 2019-24 block is enclosed as **Encl- 02**.

The details of the O&M Expenses admitted by Hon'ble Commission and actual O&M Expenses for central sector are as below:

	Rs in Lakhs				
Year	2019-20	2020-21	2021-22	2022-23	2023-24
O&M Expenses allowed	155.27	155.27	155.27	155.27	155.27
Actual O&M Expenses	41.72	10.79	142.83	132.12	151.32

Accordingly, the charges have been worked out in line with the Hon'ble Commission's order dated 19.05.2022 in Petition 692/TT/2020. Since the entire cost of Non-Microwave portion of the assets have been recovered by 2017-18, only O&M Charges and Interest on Working Capital for the Central portion of the non-microwave portion of communication system has been claimed.

		Rs in Lakh				
Project		2019-20	2020-21	2021-22	2022-23	2023-24
Asset	AFC approved	162.04	161.59	161.16	161.16	161.16
	Revised AFC based on truing up	43.54	11.23	148.25	137.13	157.89

Tariff Filing Formats along with the other relevant information and supporting documentation are attached hereto as **Encl-3**.



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 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	161.95	161.95	161.95	161.95	161.95

Tariff Filing Formats along with the other relevant information and supporting documentation are attached hereto as **Encl-4**.

14. **O&M CHARGES:** In the above calculation O&M charges of central portion for the tariff block 2024-29 have been considered as 2% of capital cost. Such O&M expenses are subjected to Actual at the time of Truing up of 2024-29 block.
15. 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 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 beneficiaries.



16. In the tariff calculation 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 calculation 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.
17. The transmission charges at para-12 & 13 above is inclusive of O&M expenses derived for the subject asset based on the norms for O&M expenditure for Transmission System as specified under regulation 36 (3) (a) of the tariff regulations for block 2024-29.
18. 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:

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 Regulations 2019. 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 as per actual through a separate petition.

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

19. 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 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.

20. The application filing fee, expenses incurred on publication of Notices in News papers and License fee may be allowed to be recovered separately from the respondents in terms of Regulation 94(1) 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 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.

21. 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, capital spares, security expenses, insurance expenses 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/regulatory 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.

22. Sharing of Transmission Charges

Sharing of annual fees and charges of ULDC Scheme at Para-12 & 13, the Commission vide order dated 22.2.2014 in Petition No 61/TT/2012 held as follows:

"Accordingly, the fees and charges for the Central portion shall be shared by all concerned in accordance with Para 40 of the order dated 8.12.2011 read with Regulation 22 (1) of Fees and Charges of Regional Load Despatch Centre and other related matters Regulations, 2009. The Regulation 22 (1) has been reproduced hereunder:-

"The system operation charges shall be collected from the users as per the norms given below:

Generating stations and sellers : 45% of system operation charges;

Distribution licensees and buyers : 45% of system operation charges;

Inter-state Transmission licensees: 10% of system operation charges"

58. The fees and charges for the States' portion of the Scheme shall be shared by the States in proportion to capital cost incurred for SLDC portion for the respective State."

Truing up 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 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.



23. 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.-4 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 assets covered under this petition, as per para 12 and 13 above.
- b) 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.
- c) Allow the petitioner to bill and recover Licensee fee and RLDC fees & charges, separately from the respondents in terms of Regulation 94 (3) and (4) Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024.
- d) 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.
- e) Allow the petitioner to claim O&M expenses as claimed/as per norms to be notified by Hon'ble Commission at the time of truing up.
- 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 18 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 18 above.



- h) Allow the petitioner to file a separate petition before Hon'ble Commission for claiming the overall capital spares at the end of tariff block as per actual as mentioned at Para 19 above.
- i) Allow the petitioner to claim expenses of CTUIL borne by POWERGRID through a separate petition on year to year/ at the end of tariff block as mentioned at para 19 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

GURGAON

DATED: 19.10.2024

FILED BY
POWER GRID CORPORATION OF INDIA LTD.

REPRESENTED BY


Mohd. Mohsin

Chief General Manager (COMMERCIAL/RC)



BEFORE
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 **Unified Load Despatch & Communication Scheme (POWERGRID portion i.e. Communication system portion and SLDC system retained by the petitioner after formation of POSOCO)** in Southern Region under Section 62 read with Section 79 (1) (d) of 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 Condition of Tariff Regulations) 2019 and Central Electricity Regulatory Commission (Terms and Condition 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).

Assam Power Distribution Company Limited

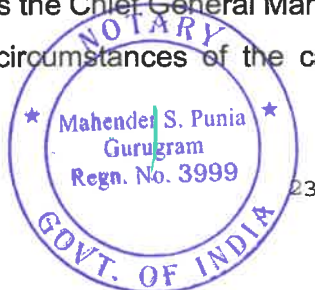
--- RESPONDENT

04th Floor, Bijulee Bhawan, Paltan Bazar,
Guwahati – 781001, Assam
Represented by its Managing Director

AFFIDAVIT VERIFYING THE PETITION

I, Mohd. Mohsin, S/O Late Sh Akhtar Hasan, working as Chief General Manager (Commercial/RC) in the Powergrid Corporation of India Ltd., having its registered Office at B-9, Institutional Area, Katwaria Sarai, New Delhi-110 016, do hereby solemnly affirm and state as under: -

1. That the deponent is the Chief General Manager of Petitioner and is well conversant with the facts and the circumstances of the case and therefore competent to swear this affidavit.



2. That the accompanying Petition under Section 62 of the Electricity Act, 2003, has been filed by my authorised 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 23 of the facts as mentioned in the Petition are true and correct based on the my personal knowledge, belief and records maintained in the office and the contents of Para 01 to 23 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



(DEPONENT)

VERIFICATION

Solemnly affirmed at Gurgaon on this 19th day of Oct' 2024 that the contents of the above affidavit are true to my knowledge and belief and no part of it is false and nothing material has been concealed there from.


(DEPONENT)

ATTESTED
MAHENDER S. PUNIA
ADVOCATE & NOTARY
Distt. Gurugram (Haryana) India





पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया 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. S.S Raju, CGM (Commercial)
2. Sh. V. Srinivas, CGM (Commercial - BCD)
3. Sh. Mohd Mohsin, Sr. GM (Commercial)
4. Sh. Bipin Bihari Rath, Sr. GM (Commercial)
5. Sh. V.C Shekhar, GM (Regulatory Cell)
6. Sh. Zafrul Hasan, Sr. DGM (Commercial)


13/12/22

Mukesh Khanna

ED (Commercial &RC)

Vallur Thermal Power Station,
Vellivoyalchavadi P.O, Ponneri Taluk,
Thiruvallur District, Chennai-600 103.

6. Simhapuri Energy Private Limited,
Madhucon Green Lands,
6-3-866/2, 3rd Floor, Begumpet,
Hyderabad-500 016.
7. Meenakshi Energy Private Limited,
8-2-418, Meenakshi House,
Road No. 7, Banjara Hills,
Hyderabad-500 034.
8. Andhra Pradesh Power Co-ordination Committee,
APTRANSCO, Vidyut Soudha,
Hyderabad-500 082.
9. Telangana State Power Co-ordination Committee,
TSTRANSCO, Vidyut Soudha,
Hyderabad-500 082.
10. Power Company of Karnataka Limited,
Room No. 503, KPTCL Building, Kaveri Bhavan,
Bangalore-560 009, Karnataka.
11. Kerala State Electricity Board,
Vydyuthi Bhavanam, Pattom,
Thiruvananthapuram-695 004.
12. TANGEDCO,
7th Floor, Eastern Wing,
144, Anna Salai,
Chennai-600 002.
13. Electricity Department,
Government of Puducherry,
Poducherry-605 001.
14. Electricity Department,
Government of Goa,
Curti-Ponda,
Goa-403 401.

.....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



Order in Petition No. 692/TT/2020



ORDER

Instant petition has been filed by Power Grid Corporation of India Limited under sub-Section (4) of Section 28 and Section 79(1)(d) of Electricity Act, 2003, for truing up of fees and charges for 2014-19 period and determination of fees and charges for 2019-24 period in respect of Unified Load Despatch and Communication Scheme (Powergrid Portion i.e. Communication System Portion and State Load Despatch Centre (SLDC) System retained by the Petitioner after formation of Power System Operation Corporation Limited (POSOCO) in Southern Region.

2. The Petitioner has made the following prayers in the instant petition:

"1) Approve the Trued-up Fees and charges for the communication system and SLDC system for the period 2014-19 covered under this petition, as per Para-8 above;

2) Approve the Fees and charges for the communication system and SLDC system for the period 2019- 24 covered under this petition, as per Para-9 above;

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 RLDC fees and charges, separately from the respondents in terms of Regulation 70 (3) and (4) Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019.

5) Allow the Petitioner to bill and adjust impact on Interest on Loan due to change in Interest rate on account of floating rate of interest applicable during 2019-24 period, if any, from the respondents.

6) Allow the Petitioner to file a separate petition before Hon'ble Commission for claiming the overall security expenses and consequential IOWC on that security expenses as mentioned at para 8.8 above.

7) Allow the Petitioner to claim the capital spares at the end of tariff block as per actual.



8) Allow the Petitioner to bill and recover GST on Transmission Charges separately from the respondents, if GST on transmission is levied at any rate in future. Further, any taxes including GST and duties including cess etc. imposed by any statutory/Govt./municipal authorities shall be allowed to be recovered from the beneficiaries.

9) Allow the petitioner to claim O&M expenses as per norms to be notified by Hon'ble Commission at the time of truing up.

10) Allow the Petitioner to bill and recover the Charges for 2014-19, for communication system forming part of transmission system to be shared by beneficiaries or long-term transmission customers in accordance with the sharing regulations.

11) Allow the Petitioner to bill and recover the Charges for 2014-19, for communication system other than central transmission system to be shared by beneficiaries in proportion to the capital cost belonging to respective beneficiaries.

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

Background

3. The brief facts of the case are as follows:

(a) Central Electricity Authority had accorded techno-economic clearance for the Scheme vide letter dated 27.1.1994 at an estimated cost of ₹55234 lakh, including IDC of ₹7065 lakh based on 4th quarter 1992 price level. The Investment Approval and expenditure sanction was accorded by the Central Government in Ministry of Power vide letter dated 16.2.1995 at an estimated cost of ₹62157 lakh, including IDC of ₹12598 lakh. During execution of the Scheme there has been an increase in the cost on account of change in scope of approved items of work, Foreign Exchange Rate Variation and other reasons. As such, based on the recommendations of Public Investment Board, the Central Government vide letter dated 5.2.2002, accorded its fresh approval to the Revised Cost Estimates of ₹68380 lakh including IDC of ₹11809 lakh, consisting of (i) Powergrid's Portion of ₹55904 lakh including IDC of ₹9224 lakh



and (ii) States' Portion of ₹12475 lakh including IDC of ₹2585 lakh, based on 2nd quarter 2001 price level. As per the revised approval, the Unified Load Despatch and Communication (ULDC) Scheme was to be declared under commercial operation by June, 2002 and it was in fact declared under commercial operation on 1.7.2002.

- (b) The Commission vide order dated 27.1.2009 in Petition No.143/2005 and order dated 18.3.2011 in Petition No.36/2010 had approved the fees and charges for 2004-09 period with respect to expenditure incurred up to 31.3.2009. The details of the assets (hereinafter referred to as the 'assets') covered in the instant petition is as follows:

Details of the Assets
Communication & SLDC System retained by PGCIL

- (c) Tariff of 2009-14 period in respect of the assets was allowed vide order dated 24.12.2013 in Petition No. 60/TT/2012. Further, tariff for 2014-19 period of the assets was allowed vide order dated 15.7.2016 in Petition No. 545/TT/2014.
- (d) As per the directive of Ministry of Power dated 4.7.2008, Power System Operation Corporation Limited (POSOCO), a wholly owned subsidiary of the Petitioner, responsible for operation of National Load Despatch Centre and Regional Load Despatch Centres (RLDCs) was established. The Government of India had constituted a Task Force to look into the financial aspects for augmentation and up-gradation of the State Load Despatch Centres and issues related to emoluments for the personnel engaged in system operation. The Task Force made certain recommendations with regard to the ownership of the assets. Subsequent to the Task Force's report, Powergrid constituted Committees at the regional level to identify the assets to be transferred to



POSOCO. As per the directions of the Committees, the assets directly related to discharge of load despatch functions raised by the Petitioner under the Scheme have been transferred to POSOCO. The Petitioner was left with the assets associated with the communication system under the Central Portion of the Scheme and assets for SLDCs (the States' Portion).

- (e) The Petitioner filed a Miscellaneous Petition No. 68/2010 under sub-section (4) of Section 28 of Electricity Act, 2003 and Regulations 44 "Power to Relax" of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2009 for fixation of tariff norms for recovery of cost for the assets ("Communication System" and "Sub-Load Dispatch Centre system") to be retained/ to be installed by the Petitioner after formation of POSOCO for the period 2009-14 block.
- (f) Based on the recommendations of the Committees, the assets under the Unified Load Despatch and Communication Scheme were transferred to POSOCO and to the Petitioner vide Commission's order dated 8.12.2011 in Petition No. 68/2010 and the same are as follows:

(A) Assets transferred to POSOCO

- (i) EMS/SCADA system (computer system, hardware and software)
- (ii) Auxiliary power supply system comprising of uninterrupted power supply, diesel generating set etc.
- (iii) Building and civil works.

(B) Assets which remain with the Petitioner

I. Central Portion

- (i) Fibre Optic Cables (overhead and underground)
- (ii) Fibre Optic Communication Equipment
- (iii) Digital Microwave Communication System (Tower, Antenna, Equipment etc.)
- (iv) PABX
- (v) Power Line Carrier Communication System;



(vi) Auxiliary power supply system.

II. State Portion

Entire state portion which consists of the following equipment remains with the Petitioner:

- (i) EMS/SCADA system
- (ii) Fibre Optic System
- (iii) Digital Microwave Communication System (Tower, Antenna, Equipment etc.)
- (iv) PABX
- (v) Power Line Carrier Communication System
- Auxiliary power supply system (part)

(g) The Commission in Petition No. 68/2010 vide order dated 8.12.2011, observed as follows:

"9.....Since the communication system and SLDC system form part of the assets of the Central Transmission Utility (CTU), there is a requirement to specify regulations for determination of tariff of these assets. We direct the staff of the Commission to undertake the exercise separately and include these assets of CTU in the tariff regulations applicable for the next tariff period i.e. 2014-19. As regards the tariff of these assets for the period 2009-14, we are not inclined to determine the tariff of these assets by exercising our power to relaxation under Regulation 44 of the 2009 regulations since there is no provision for determination of tariff for the assets covered under the communication system and ULDC system. We are of the view that the tariff of these assets shall be determined under our general power of determination of tariff for inter-State transmission system under section 79(1)(d) of the Act....."

".....It clearly emerges from the above judgment that the Central Commission can specify the terms and conditions of tariff even in the absence of the regulations. Since no regulation was specified for determination of tariff of the communication system and the ULDC system, the Commission determined the tariff of these assets during the period 2004-09 on levelised basis by adopting some of the parameters of 2004 tariff regulations. We have decided to continue with the levelised tariff for the existing assets in the absence of any provision in 2009 regulations regarding determination of tariff of communication system and ULDC system of the Petitioner. For the new assets, the tariff will be decided as per the regulations for communication systems to be framed. Accordingly, we direct the staff of the Commission to take necessary action to prepare draft regulations for determination of tariff for the communication system and ULDC system of the Petitioner."

"21. We have considered the submission of the Petitioner and the respondents. We are of the view that replacement of microwave links with fibre optic links should be implemented as agreed by the beneficiaries to ensure safe and reliable operation of the power system. Moreover, the Petitioner has submitted that surrender of the microwave frequencies would save substantial cost and the fibre



optic system would be beneficial in the long run as the fibre optic communication network is required for implementation of new technologies like Wide Area Measurement System (WAMS), Special Protection Schemes (SPS) etc. in view of fast development and complexity of the power system in the country. As regards the regulatory approval, we are of the view that since the project has been agreed to be implemented by the constituents of each of the regions, regulatory approval is not considered necessary. The Petitioner is granted liberty to approach the Commission for determination of tariff for the fibre optic network being installed in lieu of microwave links for each of the region separately. As regards the submission of UPPTCL, it is clarified that if the state portion is not being implemented by it separately as proposed earlier, the same shall be implemented by the Petitioner and UPPTCL would be required to share the tariff in proportion to the assets being utilized by it. It is however made clear that the timeline for replacement of the digital microwave by optical fibre should be strictly complied with."

- (h) In the absence of any provision in the 2009 Tariff Regulations regarding determination of tariff of communication system and ULDC system of the Petitioner and to continue with the levelized tariff for the assets, the fees and charges of the communication system and SLDC System retained by the Petitioner were approved vide order dated 24.12.2013 in Petition No. 60/TT/2012 for 2009-14 period based on the principles approved by the Commission vide order dated 8.12.2011 in Petition No 68/2010.
- (i) The assets were put under commercial operation before 1.4.2009 and the capital cost of microwave system has been fully recovered during 2009-14 period. The assets have completed 15 years of their useful life on 30.6.2017. Accordingly, in line with order dated 8.12.2011 in Petition No. 68/2010, total capital cost in respect of non-microwave system shall be recovered up to 30.6.2017 i.e. during 2017-18 period. The net capital cost of the assets as approved vide order dated 15.7.2016 in Petition No. 545/TT/2014 is as under:

(₹ in lakh)

Particulars	Capital	Non-Microwave	
		Central Portion	State Portion
Retained Gross Capital Cost as on 1.4.2014 - "Non-Microwave"	Loan	6928.72	28067.08
	Equity	834.89	3794.62
	Total	7763.62	31861.70
Capital Cost Recovered up to	Loan	4882.67	19691.13



Particulars	Capital	Non-Microwave	
		Central Portion	State Portion
31.3.2014 -"Non-Microwave"	Equity	473.27	2144.10
	Total	5355.94	21835.23
Net Capital Cost as on 1.4.2014- "Non-Microwave"	Loan	2046.05	8375.95
	Equity	361.63	1650.52
	Total	2407.68	10026.47

- (j) The fees and charges for 2014-19 period as approved vide order dated 15.7.2016 in Petition No. 545/TT/2014 for non-microwave system for both Central Portion and State Portion respectively, are as follows:

(₹ in lakh)

Particulars	Non-Microwave-Central Portion			
	2014-15	2015-16	2016-17	2017-18 (Pro-rata)
Annual Capital Recovery Charge-Loan	653.90	653.90	653.90	163.47
Annual Capital Recovery Charge-Equity	142.34	142.34	142.34	35.59
Annual Capital Recovery Charge-Total	796.24	796.24	796.24	199.06
O&M Expenses	166.31	171.84	177.54	45.86
Interest on Working Capital	27.52	27.82	28.14	7.12
Total Fee & Charges	990.07	995.90	1001.92	252.03
Particulars	Non-Microwave – State Portion			
Annual Capital Recovery Charge-Loan	2676.88	2676.88	2676.88	669.22
Annual Capital Recovery Charge-Equity	649.67	649.67	649.67	162.42
Annual Capital Recovery Charge-Total	3326.55	3326.55	3326.55	831.64
O&M Expenses	-	-	-	-
Interest on Working Capital	76.57	76.57	76.57	19.14
Total Fee & Charges	3403.12	3403.12	3403.12	850.78

4. The Commission in Record of Proceedings for the hearing dated 24.9.2021, directed the Petitioner to submit details of the assets covered under Unified Load Despatch and Communication Scheme (ULDC).
5. The Petitioner vide affidavit dated 14.10.2021 has submitted the details of assets covered under Unified Load Despatch and Communication Scheme (ULDC) of Southern Region as under:

EMS/SCADA System



(a) Establishment of Control Centers in States and at Regional level for SCADA (Supervisory Control and Data Acquisition) and EMS (Energy Management Systems).

- RLDC (Regional Load Despatch Center) at Bangalore.
- CPCC (Central Project Coordination Center) at Bangalore
- SLDC/Sub-LDC (State Load Despatch Centers/Sub-Load Despatch Centers at Hyderabad, Warangal, Vijaywada and Cuddapah (Andhra Pradesh), Bangalore, Hubli and Davangere (Karnataka), Chennai, Erode and Madurai (Tamilnadu), Kalamassery, Kannur and Trivandrum (Kerala), Pondichery (UT of Pondichery).

Remote Terminal Units

(a) Supply and Installation of 201 number of RTU's for Central and State Sector.

(b) Adaptation work at sub-stations and generating stations to meet the requirement of data acquisition through RTUs.

Fibre Optic Links

(a) Out of 2324 km of OFC under SR ULDC, three lines were taken up in central sector viz,

- a) Salem-Somanahalli (OPGW 182 km);
- b) Gooty-Somanahalli (Wrap cable 301 km);
- c) Udumalpet-Trichur (Wrap 128 km)

(b) It also includes supply and installation of FO Equipment.

Microwave links

(a) Initially, microwave network comprising of 35 hops was implemented in SR-ULDC project. However, the microwave network was vacated/ upgraded as per directive of DoT.

PLCC System

(a) Establishment of PLCC system for Central Sector and State Sector.

Auxiliary Power Supply System

(a) Supply and installation of equipment for Auxiliary Power Supply System for Central Sector and State Sector



(b) Included items: UPS, Uninterrupted Power Supply (9 numbers), DG set (9 numbers) and DC power supply system (24 numbers) etc.

(c) Other infrastructure related facilities such as air-conditioning, fire-fighting, construction/renovation of buildings, etc.

6. On the issue of assets under ULDC whether upgraded/replaced, details of new assets and details of tariff petition, the Petitioner has submitted that subsequent to formation of POSOCO, assets under instant scheme were divided into two categories viz assets transferred to POSOCO and assets retained by Powergrid. The arrangement of transfer and retention was approved by the Commission vide order dated 8.12.2011 in Petition No. 68/2010. The details of the assets are as under:

(A) Assets transferred to POSOCO

- (i) EMS/SCADA system (computer system, hardware and software)
- (ii) Auxiliary power supply system comprising of uninterrupted power supply, diesel generating set etc.
- (iii) Building and civil works.

(B) Assets which remain with the Petitioner

I. Central Portion:

- (i) Fibre Optic Cables (overhead and underground)
- (ii) Fibre Optic Communication Equipment
- (iii) Digital Microwave Communication System (Tower, Antenna, Equipment etc.)
- (iv) PABX
- (v) Power Line Carrier Communication System;
- (vi) Auxiliary power supply system.

II. State Portion:

Entire State portion which consists of the following equipment remain with the Petitioner:

- (i) EMS/SCADA system
- (ii) Fibre Optic System
- (iii) Digital Microwave Communication System (Tower, Antenna, Equipment etc.)
- (iv) PABX
- (v) Power Line Carrier Communication System
- (vi) Auxiliary power supply system (part)



7. Subsequently, microwave network was also vacated/ upgraded by the end of March, 2012 as per directive of DoT. The microwave links were replaced by Fibre Optic communication system under the following scheme:

“Fibre Optic Communication System (847.124 km) in lieu of existing Unified Load Despatch and Communication (ULDC) Microwave links” in Southern Region

8. The details of the assets covered under the instant scheme as is follows:

Asset No.	Asset's Name	COD	Petition No.
Asset-1	384.474 km of Fiber Optic Communication System in lieu of existing Microwave (State Sector)	1.2.2013	169/TT/2018
Asset-2	31.80 km of Fiber Optic Communication system in lieu of existing Microwave (State Sector)	1.4.2013	169/TT/2018
Asset-3	906.04 km of Fiber Optic Communication System in lieu of existing Microwave (central Sector)	1.4.2013	169/TT/2018
Asset-4	168.46 km of Fiber Optic Communication system in lieu of existing microwave (Central Sector)	1.1.2014	169/TT/2018
Asset-5	3.26 km of Fiber Optic Communication system in lieu of existing microwave (State Sector)	1.1.2014	169/TT/2018
Asset-6	19.50 km Optic Fiber under TSTRANSCO SECTOR (Erstwhile APTRANSCO) (State Sector)	1.6.2015	255/TT/2015
Asset-7	0.697 km Optic Fiber under KSEBL SECTOR (State Sector)	1.6.2015	255/TT/2015
Asset-8	39.006 km Optic Fibre for Neelamangla-Yelahanka (Central Sector)	28.3.2018	143/TT/2019

9. Further, with regard to SCADA/EMS, the Petitioner has submitted that entire EMS/SCADA portion of State is scrapped and are replaced by the State utilities i.e. States have built their own SCADA/EMS system and there is no upgradation of SCADA/EMS in Southern region undertaken by Powergrid.

10. On the issue of the assets under ULDC whether in use, the Petitioner has submitted that the assets under SRULDC have completed their useful life of 15 years on 30.6.2017 and the entire cost of the assets under Central Sector and State Sector has been recovered by 30.6.2017. However, certain assets such as RTUs, Fibre Optic Links, PLCC System and Auxiliary Power Supply System have not yet been upgraded and they are currently in use. However, only O&M Expenses and corresponding Interest



on Working Capital (IWC) for the Central Sector portion is now claimed in the instant true up petition w.e.f. 1.7.2017

11. The Respondents are the generating companies, distribution companies, electricity departments and transmission licensees, which are procuring transmission services (Communication) from the Petitioner and are mainly beneficiaries of the Southern Region.

12. The Petitioner has served the petition on the Respondents and notice of this petition has also been published in newspapers in accordance with Section 64 of the Electricity Act, 2003. No suggestions or objections have been received from the general public in response to the aforesaid notices published in the newspapers by the Petitioner. None of the respondents have filed any reply in the matter.

13. The hearing in this matter was held on 24.9.2021 and order was reserved.

14. This order is issued considering the submissions made by the Petitioner in the petition vide affidavits dated 31.12.2019 and 14.10.2021.

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

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

16. The Commission vide order dated 8.12.2011 in Petition No.68/2010, enlarged the scope of 2009-14 Tariff Regulations to include the communication system used for inter-State transmission of electricity. However, as per Clause (iii) of Regulation 6(1) of the 2014 Tariff Regulations, the tariff of the existing communication system forming part of the transmission system is to be determined as per the methodology followed prior to



1.4.2014. The said Regulation provides as follows:

“(iii) the tariff of the existing communication system forming part of transmission system shall be as per the methodology followed by the Commission prior to 1.4.2014.”

17. The instant assets were put into commercial operation before 1.4.2009 and capital cost of microwave system has been fully recovered during 2009-14 period. Accordingly, we continue to allow levelised tariff for non-microwave system based on the principles approved by the Commission vide order dated 8.12.2011 in Petition No 68/2010. Accordingly, truing-up of annual fees and charges of non-microwave system for 2014-19 period is considered in this order.

18. The details of the trued-up fees and charges claimed by the Petitioner in respect of the assets are as follows:

(₹ in lakh)

Particulars	Non-Microwave-Central Portion				
	2014-15	2015-16	2016-17	2017-18	2018-19
Annual Capital Recovery Charge-Total	795.39	795.48	797.80	199.58	0.00
O&M Expenses	174.07	313.92	303.50	194.51	180.59
Interest on Working Capital	27.92	35.65	35.13	15.34	9.98
Total Fee & Charges	997.38	1145.06	1136.43	409.43	190.57
Particulars	Non-Microwave – State Portion				
Annual Capital Recovery Charge-Total	3323.06	3323.44	3332.91	833.76	0.00
O&M Expenses	0.00	0.00	0.00	0.00	0.00
Interest on Working Capital	76.49	76.50	76.72	19.19	0.00
Total Fee & Charges	3399.55	3399.94	3409.63	852.95	0.00

19. The details of the trued-up IWC claimed by the Petitioner in respect of the assets are as follows:

(₹ in lakh)

Particulars	Non-Microwave-Central Portion				
	2014-15	2015-16	2016-17	2017-18	2018-19
Maintenance Spares (15% of O&M)	26.11	47.09	45.53	29.18	27.09
O&M Expenses (1 Month)	14.51	26.16	25.29	16.21	15.05
Receivables (2 months)	166.23	190.84	189.40	68.24	31.76
Total Working Capital	206.85	264.09	260.22	113.62	73.90



Rate of Interest on Working Capital (%)	13.50	13.50	13.50	13.50	13.50
Total Interest on Working Capital	27.92	35.65	35.13	15.34	9.98
Particulars	Non-Microwave – State Portion				
Maintenance Spares (15% of O&M)	0.00	0.00	0.00	0.00	0.00
O&M Expenses (1 Month)	0.00	0.00	0.00	0.00	0.00
Receivables (2 months)	566.59	566.66	568.27	568.63	0.00
Total Working Capital	566.59	566.66	568.27	568.63	0.00
Rate of Interest on Working Capital (in %)	13.50	13.50	13.50	13.50	13.50
Total Interest on Working Capital	76.49	76.50	76.72	76.77	0.00

Capital Cost

20. The Petitioner has submitted that in line with order dated 8.12.2011 in Petition No. 68/2010, total capital cost in respect of microwave portion has been recovered during 2009-14 tariff period. Hence, in the instant petition, true up of microwave portion has not been carried out. Further, in line with Commission's order dated 15.7.2016 in Petition No. 545/TT/2014, the Petitioner has recovered the cost of microwave portion during 2009-14 tariff period. The date of commercial operation of the asset is 1.7.2002. Hence, the asset has completed 15 years as on 30.6.2017. In terms of Commission's order dated 8.12.2011 in Petition No. 68/2010, total capital cost in respect of non-microwave system shall be recovered up to 30.6.2017 i.e. during 2017-18 period and for the remaining period O&M Expenses and Interest on Working Capital (IWC) for the Central Portion has been claimed by the Petitioner. Entire recovery of the State Portion of the asset has been completed by 30.6.2017 and no charges have been claimed for the remaining period.

21. Net capital cost as approved vide order dated 15.7.2016 in Petition No. 545/TT/2014 has been considered as on 1.4.2014 for the purpose of trueing up of fees and charges for the assets. The Petitioner has not claimed any additional capital expenditure during 2014-19 tariff period. Accordingly, capital cost considered for



determining fees and charges for 2014-19 tariff period in respect of the assets is as follows:

(₹ in lakh)

Particulars	Capital	Non-Microwave	
		Central Portion	State Portion
Retained gross capital cost as on 1.4.2014- "Non-Microwave"	Loan	6928.72	28067.08
	Equity	834.89	3794.62
	Total	7763.62	31861.70
Capital cost recovered up to 31.3.2014-"Non-Microwave"	Loan	4882.67	19691.13
	Equity	473.27	2144.10
	Total	5355.94	21835.23
Net capital cost as on 1.4.2014- "Non-Microwave"	Loan	2046.05	8375.95
	Equity	361.63	1650.52
	Total	2407.68	10026.47

Debt-Equity Ratio

22. The debt: equity ratio as on 1.4.2014 in respect of the assets, as approved vide order dated 15.7.2016 in Petition No. 545/TT/2014 has been considered for the purpose of truing up and same is as follows:

(₹ in lakh)

Particulars	Non-Microwave					
	Central portion		State portion		Total	
	Amount	In %	Amount	In %	Amount	In %
Loan/Debt	2046.05	84.98	8375.95	83.54	10421.99	83.82
Equity	361.63	15.02	1650.52	16.46	2012.15	16.18
Total	2407.68	100.00	10026.47	100.00	12434.15	100.00

Rates for Recovery of loan and equity

23. The Petitioner has not submitted the details of repayment of the loans. However, the Petitioner has submitted the rates of interests corresponding to the loans. We have taken into consideration the rates of the loans as submitted by the Petitioner. The Petitioner has considered Weighted Average Rate of Interest (WAROI) in respect of the assets and the same is given in Annexure-I to this order. We have considered and allowed the same in respect of the assets.



24. Capital Recovery Factor (CRF) for loans in respect of the assets has been calculated by applying weighted average rate of interest on the basis of impact due to change in floating rate of interest of loan and it works out to be 2.2132%, 2.2257%, 2.7598% and 3.2374% for 2014-15, 2015-16, 2016-17 and 2017-18 respectively in respect of non-microwave system. Thus, the rates considered on annual basis, have been converted to monthly rates. Thus, monthly recovery factors for loans for Central Portion and State Portion for the assets are as follows:

Capital Recovery Factors for loans to be considered for Fee & Charges				
Particulars	2014-15	2015-16	2016-17	2017-18
Non-Microwave- Central Portion	0.026598	0.038006	0.067900	0.335134
Non-Microwave – State Portion	0.026598	0.038006	0.067900	0.335134

25. Capital Recovery Factor for equity has been considered as was approved vide order dated 15.7.2016 in Petition No. 545/TT/2014 and post tax return on equity of 15.50% without grossing has been applied for calculating capital recovery factor for equity. Thus, monthly recovery factors for equity of Central Portion and State Portion in respect of the assets is as follows:

Capital Recovery Factors for equity to be considered for Fee & Charges				
Particulars	2014-15	2015-16	2016-17	2017-18
Non-Microwave- Central Portion	0.032801	0.044106	0.073762	0.341981
Non-Microwave – State Portion	0.032801	0.044106	0.073762	0.341981

26. In view of above, the amount of monthly capital recovery charges for loans and equity both for the Central and State Portions in respect of the assets have been considered by using respective Capital Recovery Factors and the same is as follows:

(₹ in lakh)

Monthly Capital Recovery Charges for loan				
Particulars	2014-15	2015-16	2016-17	2017-18 (Pro-rata)
Non-Microwave- Central Portion	54.42	54.43	54.62	54.66
Non-Microwave – State Portion	222.78	222.81	223.60	223.78



(₹ in lakh)

Monthly Capital Recovery Charges for equity				
Particulars	2014-15	2015-16	2016-17	2017-18 (Pro-rata)
Non-Microwave- Central Portion	11.86	11.86	11.86	11.86
Non-Microwave – State Portion	54.14	54.14	54.14	54.14

27. Accordingly, the recovery of capital during 2014-19 has been worked out. The date of commercial operation of the assets is 1.7.2002. Hence, the assets have completed 15 years as on 30.6.2017. In terms of Commission's order dated 8.12.2011 in Petition No. 68/2010, total capital cost in respect of non-microwave system shall be recovered upto 30.6.2017 i.e. during 2017-18 period and the details of the same are as follows:

(₹ in lakh)

Particulars	Capital	Central Portion	State Portion
Capital cost recovered during 2014-19 - "Non-Microwave"	Loan	2046.05	8375.95
	Equity	361.63	1650.52
	Total	2407.68	10026.47

Operation & Maintenance Expenses (O&M Expenses)

28. The Petitioner has not submitted any claim for O&M Expenses of microwave system for Central Portion. The Petitioner has submitted claim for O&M Expenses of non-microwave system for Central Portion on actual basis. The details of O&M Expenses claimed earlier by the Petitioner on projection basis for 2014-19 tariff period and allowed vide order dated 15.7.2016 in Petition No. 545/TT/2014 are as follows:

(₹ in lakh)

Particulars	2014-15	2015-16	2016-17	2017-18
Claimed by the Petitioner in Petition No. 545/TT/2014	775.44	801.18	827.78	213.82
Amount allowed vide order dated 15.7.2016 in Petition No. 545/TT/2014.	166.31	171.84	177.54	45.86
Amount disallowed	609.13	629.34	650.24	167.96

29. The Petitioner vide Auditor's certificate has submitted the detailed break-up of actual O&M Expenses for 2014-19 tariff period. Accordingly, the actual O&M Expenses claimed in the instant petition are as follows:



(₹ in lakh)

Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Claimed by the Petitioner in the instant petition	174.07	313.92	303.50	194.51	180.59
Total claim as per Auditor's certificate dated 21.11.2019 including other projects	207.92	365.03	411.00	409.74	437.76

30. We have considered the submission of the Petitioner. The Petitioner has furnished Auditor's certificate dated 21.11.2019 and has submitted actual O&M Expenses wherein the Petitioner has claimed self-insurance, petition filing charges, advertisement & publicity charges as part of the O&M Expenses.

31. The Commission vide order dated 29.7.2016 in Petition No. 275/TT/2015 disallowed the Petitioner's claim for self-insurance. Relevant portion of the said order is as follows:

"45. The Petitioner was directed vide RoP dated 22.3.2016, to submit the actual O&M Expenses year wise along with details. In response, the Petitioner vide affidavit dated 29.6.2016 has submitted that actual O&M Expenses for 2014-15 towards Asset-I and II are ₹5.75 lakh and ₹4.46 lakh, respectively. Break up of O&M Expenses has also been provided vide Auditor's Certificate dated 15.6.2016. The Petitioner has claimed self-insurance reserved as expenses under O&M Expenses which is not allowable as expenses."

32. In view of above, the Petitioner's claim for self-insurance is disallowed.

33. The Petitioner has also claimed petition filing charges as part of the O&M Expenses. With regard to the claim of petition filing fee, we are of the view that it should be claimed directly from the beneficiaries. Therefore, claim of the Petitioner for petition filing charges cannot be allowed under O&M Expenses. Accordingly, the same is rejected.

34. The Petitioner has also claimed advertisement and publicity charges as part of the O&M Expenses. The claim for advertisement and publicity charges as part of the O&M Expenses cannot be allowed as O&M Expenses. Hence, the same is rejected.



35. Accordingly, O&M Expenses allowed for 2014-19 period as per the Auditor's Certificate after deducting self-insurance portion and also by pro-rata reduction from the total cost approved in respect of the asset and the same is as follows:

Particulars	(₹ in lakh)				
	2014-15	2015-16	2016-17	2017-18	2018-19
Claimed by the Petitioner in the instant petition	174.07	313.92	303.50	194.51	180.59
Total claim as per Auditor's Certificate dated 21.11.2019 including other projects	207.92	365.03	411.00	409.74	437.76
Self-insurance reserve	17.12	19.70	28.59	33.20	40.00
Petition filing fees	8.57	0.13	0.00	0.00	0.00
Advertisement and Publicity	4.31	9.28	1.06	0.00	6.51
Pro-rata reduction					
Self-insurance reserve	14.33	16.94	21.11	15.76	16.50
Petition filing Fees	7.17	0.11	0.00	0.00	0.00
Advertisement and Publicity	3.61	7.98	0.78	0.00	2.69
O&M Expenses allowed for Central Portion	148.95	288.89	281.61	178.75	161.40

Interest on Working Capital (IWC)

36. The Petitioner has claimed O&M Expenses in the case of Central Portion and accordingly O&M Expenses for one month of O&M Expenses, maintenance spares @15% of O&M Expenses, receivables for two months of Fees and Charges and SBI base rate as on 1.4.2014 i.e. 10.00% plus 350 bps (13.50%) have been considered as the rate of Interest on Working Capital for calculating Interest on Working Capital on the Central Portion only.

37. The necessary computations of Interest on Working Capital (annualized) for non-microwave system-Central Portion are as follows:

Particulars	(₹ in lakh)				
	Non-Microwave-Central Portion				
	2014-15	2015-16	2016-17	2017-18	2018-19
Maintenance Spares (15% of O&M Expenses)	22.34	43.33	42.24	26.81	24.21
O&M Expenses (one month of O&M Expenses)	12.41	24.07	23.47	14.90	13.45
Receivables	161.81	186.44	185.55	65.47	28.39



(two months of annual Charges)					
Total Working Capital	196.57	253.85	251.26	107.17	66.05
Rate of Interest on Working Capital (in %)	13.50	13.50	13.50	13.50	13.50
Total Interest on Working Capital	26.54	34.27	33.92	14.47	8.92
Particulars	Non-Microwave – State Portion				
Maintenance Spares (15% of O&M Expenses)	0.00	0.00	0.00	0.00	0.00
O&M Expenses (one month of O&M Expenses)	0.00	0.00	0.00	0.00	0.00
Receivables (two months of annual Charges)	566.59	566.66	568.27	568.63	0.00
Total Working Capital	566.59	566.66	568.27	568.63	0.00
Rate of Interest on Working Capital (in %)	13.50	13.50	13.50	13.50	13.50
Total Interest on Working Capital	76.49	76.50	76.72	76.77	0.00

Annual Fee and charges

38. Detailed computation of various components of the trued up annual fees and charges for the assets for 2014-19 tariff period is summarized as follows:

(₹ in lakh)					
Microwave-Central Portion-fee and charges					
	2014-15	2015-16	2016-17	2017-18	2018-19
Opening Gross Capital Cost	7763.61	7763.61	7763.61	7763.61	7763.61
Opening Gross Notional Loan	6928.72	6928.72	6928.72	6928.72	6928.72
Opening Gross Equity	834.89	834.89	834.89	834.89	834.89
Recovered Gross Capital Cost (As on 1st April)	5355.94	6062.59	6798.36	7565.82	7763.61
Recovered Gross Notional Loan	4882.67	5496.64	6124.28	6765.61	6928.72
Recovered Gross Equity	473.27	565.96	674.08	800.21	834.89
Opening Net Capital Cost	2407.68	1701.02	965.25	197.80	0.00
Opening Net Notional Loan	2046.05	1432.08	804.44	163.11	0.00
Opening Net Equity	361.63	268.94	160.81	34.69	0.00
Recovered Capital Cost (During the Year)	706.66	735.77	767.45	197.80	0.00
Recovered Notional Loan	613.97	627.64	641.33	163.11	0.00
Recovered Equity	92.69	108.12	126.13	34.69	0.00
Closing Net Capital Cost	1701.02	965.25	197.80	0.00	0.00
Closing Net Notional Loan	1432.08	804.44	163.11	0.00	0.00
Closing Net Equity	268.94	160.81	34.69	0.00	0.00
Additional Capital Cost	0.00	0.00	0.00	0.00	0.00
Additional Notional Loan	0.00	0.00	0.00	0.00	0.00
Additional Equity	0.00	0.00	0.00	0.00	0.00



Years (Capital to be recovered up to 30.06.2017)	3.25	2.25	1.25	0.25	0.00
Months	39.00	27.00	15.00	3.00	0.00
Weighted Average Rate of Interest (Per annum)	2.2132%	2.2257%	2.7598%	3.2374%	3.2374%
Weighted Average Rate of Interest (Per month)	0.1844%	0.1855%	0.2300%	0.2698%	0.2698%
Monthly Recovery Factors – Loan	0.026598	0.038006	0.067900	0.335134	-
Monthly Capital Recovery Charge – Loan	54.42	54.43	54.62	54.66	0.00
Annual Capital Recovery Charge – Loan	653.05	653.14	655.45	655.97	0.00
Rate of Return on Equity (Per annum)	15.500%	15.500%	15.500%	15.500%	15.500%
Rate of Return on Equity (Per month)	1.292%	1.292%	1.292%	1.292%	1.292%
Monthly Recovery Factors – Equity	0.032801	0.044106	0.073762	0.341981	-
Monthly Capital Recovery Charge – Equity	11.86	11.86	11.86	11.86	0.00
Annual Capital Recovery Charge – Equity	142.34	142.34	142.34	142.34	0.00
Monthly Capital Recovery Charge – Total	66.28	66.29	66.48	66.53	0.00
Annual Capital Recovery Charge - Total	795.39	795.48	797.80	798.32	0.00
Fee & Charges (2014-19(Annualized))	Non-Microwave: Central Portion – Charges				
Annual Capital Recovery Charge – Loan	653.05	653.14	655.45	655.97	0.00
Annual Capital Recovery Charge – Equity	142.34	142.34	142.34	142.34	0.00
Annual Capital Recovery Charge - Total	795.39	795.48	797.80	798.32	0.00
O&M Expenses	148.95	288.89	281.61	178.75	161.40
Interest on Working Capital	26.54	34.27	33.92	14.47	8.92
Total Fee & Charges (Annualized)	970.88	1118.64	1113.32	392.80	170.32
Interest on Working Capital					
Maintenance Spares (15% of O&M Expenditure)	22.34	43.33	42.24	26.81	24.21
O&M Expenses (One Month of O&M Expenditure)	12.41	24.07	23.47	14.90	13.45
Receivables (Two months of annual Charges)	161.81	186.44	185.55	65.47	28.39
Total	196.57	253.85	251.26	107.17	66.05
Rate of Interest on Working Capital	13.50%	13.50%	13.50%	13.50%	13.50%
Total Interest on Working Capital (Annualized)	26.54	34.27	33.92	14.47	8.92
Fee & Charges (2014-19) (Applicable)	Non-Microwave: Central Portion - Charges				
Particulars	2014-15	2015-16	2016-17	2017-18 (Pro-rata)	2018-19
Annual Capital Recovery Charge – Loan	653.05	653.14	655.45	163.99	0.00
Annual Capital Recovery Charge –	142.34	142.34	142.34	35.59	0.00



Equity					
Annual Capital Recovery Charge - Total	795.39	795.48	797.80	199.58	0.00
O&M Expenses	148.95	288.89	281.61	178.75	161.40
Interest on Working Capital	26.54	34.27	33.92	14.47	8.92
Total Fee & Charges (Applicable)	970.88	1118.64	1113.32	392.80	170.32

(₹ in lakh)

Non-Microwave-State Portion- fee and charges					
Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Opening Gross Capital Cost	31861.70	31861.70	31861.70	31861.70	31861.70
Opening Gross Notional Loan	28067.08	28067.08	28067.08	28067.08	28067.08
Opening Gross Equity	3794.62	3794.62	3794.62	3794.62	3794.62
Recovered Gross Capital Cost (As on 1st April)	21835.23	24771.69	27834.58	31035.65	31861.70
Recovered Gross Notional Loan	19691.13	22204.54	24773.94	27399.34	28067.08
Recovered Gross Equity	2144.10	2567.15	3060.65	3636.31	3794.62
Opening Net Capital Cost	10026.47	7090.01	4027.12	826.05	0.00
Opening Net Notional Loan	8375.95	5862.54	3293.14	667.74	0.00
Opening Net Equity	1650.52	1227.47	733.97	158.31	0.00
Recovered Capital Cost (During the Year)	2936.46	3062.89	3201.07	826.05	0.00
Recovered Notional Loan	2513.41	2569.40	2625.41	667.74	0.00
Recovered Equity	423.06	493.50	575.66	158.31	0.00
Closing Net Capital Cost	7090.01	4027.12	826.05	0.00	0.00
Closing Net Notional Loan	5862.54	3293.14	667.74	0.00	0.00
Closing Net Equity	1227.47	733.97	158.31	0.00	0.00
Additional Capital Cost	0.00	0.00	0.00	0.00	0.00
Additional Notional Loan	0.00	0.00	0.00	0.00	0.00
Additional Equity	0.00	0.00	0.00	0.00	0.00
Years (Capital to be recovered up to 30.6.2017)	3.25	2.25	1.25	0.25	0.00
Months	39.00	27.00	15.00	3.00	0.00
Weighted Average Rate of Interest (Per Annum)	2.2132%	2.2257%	2.7598%	3.2374%	3.2374%
Weighted Average Rate of Interest (Per Month)	0.1844%	0.1855%	0.2300%	0.2698%	0.2698%
Monthly Recovery Factors – Loan	0.026598	0.038006	0.067900	0.335134	-
Monthly Capital Recovery Charge – Loan	222.78	222.81	223.60	223.78	0.00
Annual Capital Recovery Charge – Loan	2673.39	2673.77	2683.25	2685.38	0.00
Rate of Return on Equity (Per Annum)	15.500%	15.500%	15.500%	15.500%	15.500%
Rate of Return on Equity (Per Month)	1.292%	1.292%	1.292%	1.292%	1.292%
Monthly Recovery Factors – Equity	0.032801	0.044106	0.073762	0.341981	-
Monthly Capital Recovery Charge –	54.14	54.14	54.14	54.14	0.00



Equity					
Annual Capital Recovery Charge – Equity	649.67	649.67	649.67	649.67	0.00
Monthly Capital Recovery Charge – Total	276.92	276.95	277.74	277.92	0.00
Annual Capital Recovery Charge - Total	3323.06	3323.44	3332.91	3335.04	0.00
Fee & Charges (2014-19) (Annualized)	Non-Microwave: State Portion - Charges				
Annual Capital Recovery Charge – Loan	2673.39	2673.77	2683.25	2685.38	0.00
Annual Capital Recovery Charge – Equity	649.67	649.67	649.67	649.67	0.00
Annual Capital Recovery Charge - Total	3323.06	3323.44	3332.91	3335.04	0.00
O&M Expenses	0.00	0.00	0.00	0.00	0.00
Interest on Working Capital	76.49	76.50	76.72	76.77	0.00
Total Fee & Charges (Annualized)	3399.55	3399.94	3409.63	3411.81	0.00
Interest on Working Capital					
Maintenance Spares (15% of O&M Expenses)	0.00	0.00	0.00	0.00	0.00
O&M Expenses (One Month of O&M Expenses)	0.00	0.00	0.00	0.00	0.00
Receivables (Two months of annual Charges)	566.59	566.66	568.27	568.63	0.00
Total	566.59	566.66	568.27	568.63	0.00
Rate of Interest on Working Capital	13.50%	13.50%	13.50%	13.50%	13.50%
Total Interest on Working Capital (Annualized)	76.49	76.50	76.72	76.77	0.00
Fee & Charges (2014-19) (Applicable)	Non-Microwave: State Portion - Charges				
Particulars	2014-15	2015-16	2016-17	2017-18 (Pro-rata)	2018-19
Annual Capital Recovery Charge – Loan	2673.39	2673.77	2683.25	671.34	0.00
Annual Capital Recovery Charge – Equity	649.67	649.67	649.67	162.42	0.00
Annual Capital Recovery Charge - Total	3323.06	3323.44	3332.91	833.76	0.00
O&M Expenses	0.00	0.00	0.00	0.00	0.00
Interest on Working Capital	76.49	76.50	76.72	19.19	0.00
Total Fee & Charges (Applicable)	3399.55	3399.94	3409.63	852.95	0.00

DETERMINATION OF ANNUAL FIXED CHARGES FOR THE 2019-24 TARIFF PERIOD

39. The Petitioner has submitted that the assets were put into commercial operation before 1.4.2009 and capital cost of microwave system has been fully recovered during 2009-14 tariff period. As per Clause (iii) of Regulation 8(1) of the 2019 Tariff Regulations, the tariff of the existing communication system forming part of the



transmission system is to be determined as per the methodology followed prior to 1.4.2014. The said Regulation provides as follows:

“(iii) Tariff of the associated communication system forming part of transmission system which has achieved commercial operation prior to 1.4.2014 shall be as per the methodology approved by the Commission prior to 1.4.2014.”

40. In view of above provision in the 2019 Tariff Regulations, for the tariff of the communication system and ULDC system of the Petitioner, we continue to allow levelised tariff for non-microwave system on the principles approved by the Commission vide order dated 8.12.2011 in Petition No 68/2010. Accordingly, fees and charges of non-microwave system are determined in this order.

41. Further, in line with order dated 8.12.2011 in Petition No. 68/2010, the total capital cost in respect of non-microwave system was to be recovered up to 30.6.2017 i.e. during 2017-18 period and for the remaining period; O&M Expenses and Interest on Working Capital for the Central Portion has been claimed by the Petitioner. The entire recovery of the State Portion of the asset has been completed by 30.6.2017 and no charges have been claimed for the remaining period.

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

Particulars	(₹ in lakh)				
	Non-Microwave-Central Portion				
	2019-20	2020-21	2021-22	2022-23	2023-24
Annual Capital Recovery Charge-Total	0.00	0.00	0.00	0.00	0.00
O&M Expenses	155.27	155.27	155.27	155.27	155.27
Interest on Working Capital	6.77	6.77	6.77	6.77	6.77
Total Fee & Charges	162.04	162.04	162.04	162.04	162.04

43. The details of the IWC claimed by the Petitioner in respect of the asset is as follows:



(₹ in lakh)

Particulars	Non-Microwave-Central Portion				
	2019-20	2020-21	2021-22	2022-23	2023-24
Maintenance Spares (15% of O&M Expenses)	23.29	23.29	23.29	23.29	23.29
O&M Expenses (One Month)	12.94	12.94	12.94	12.94	12.94
Receivables (45 days)	19.92	19.92	19.92	19.92	19.92
Total Working Capital	56.15	56.15	56.15	56.15	56.15
Rate of Interest on Working Capital (in %)	12.05	12.05	12.05	12.05	12.05
Total Interest on Working Capital	6.77	6.77	6.77	6.77	6.77

Capital cost

44. The Petitioner has submitted that entire cost of non-microwave portion of the asset has been recovered by 2017-18, therefore, only O&M Expenses and Interest on working Capital for the Central Portion of non-microwave portion of the communication system has been claimed. As the expenditure on account of non-microwave portion of the asset has been recovered by 2017-18, we have considered the same and have allowed fees and charges based on the O&M Expenditure and IWC claimed by the Petitioner for 2019-24 tariff period. The Petitioner has claimed no additional capital expenditure for 2019-24 tariff period. As all the recovery of loans and equity has been completed, therefore, the Commission is only dealing with the O&M Expenses and IWC as claimed by the Petitioner in the instant petition.

Operation & Maintenance Expenses (O&M Expenses)

45. The Petitioner has not claimed O&M Expenses for State Portion. The Petitioner has submitted the claim of O&M Expenses for Central Portion as 2% of the capital cost subject to actual expenditure at the time of truing-up. The capital cost for the Central Portion is ₹7763.61 lakh. O&M Expenses claimed by the Petitioner in respect of the asset are as follows:



Particulars	(₹ in lakh)				
	2019-20	2020-21	2021-22	2022-23	2023-24
Claimed by the Petitioner in the instant petition	155.27	155.27	155.27	155.27	155.27

46. We have considered the submissions of the Petitioner. The Petitioner has claimed O&M Expenses of ₹ 776.35 lakh for 2019-24 tariff period. O&M Expenses allowed for 2014-19 Period is ₹1059.6 lakh. Taking into the consideration the fact that O&M Expenses claimed for the 2019-24 tariff period is lower than the O&M Expenses allowed for 2014-19 tariff period, O&M Expenses claimed for 2019-24 tariff period are allowed subject to truing up based on the actual expenditure. The Petitioner is directed to submit actual O&M Expenses in respect of the asset duly certified by the Auditor at the time of truing up of tariff of 2019-24 period. O&M Expenses allowed in respect of the asset are as follows:

O& M Expenses	(₹ in lakh)				
	2019-20	2020-21	2021-22	2022-23	2023-24
Total O&M Expenses Allowed	155.27	155.27	155.27	155.27	155.27

Interest on Working Capital (IWC)

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

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

.....

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

(i) Receivables equivalent to 45 days of annual fixed cost;

(ii) Maintenance spares @ 15% of operation and maintenance expenses including security expenses; and

(iii) Operation and maintenance expenses, including security expenses for one month.”

“(3) Rate of interest on working capital shall be on normative basis and shall be considered as the bank rate as on 1.4.2019 or as on 1st April of the year during the



tariff period 2019-24 in which the generating station or a unit thereof or the transmission system including communication system or element thereof, as the case may be, is declared under commercial operation, whichever is later:

Provided that in case of truing-up, the rate of interest on working capital shall be considered at bank rate as on 1st April of each of the financial year during the tariff period 2019-24.

(4) Interest on working capital shall be payable on normative basis notwithstanding that the generating company or the transmission licensee has not taken loan for working capital from any outside agency.”

“3. **Definition** - In these regulations, unless the context otherwise requires:-

(7) ‘**Bank Rate**’ means the one-year marginal cost of lending rate (MCLR) of the State Bank of India issued from time to time plus 350 basis points;”

48. 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 considered is 12.05% (SBI 1-year MCLR applicable as on 1.4.2019 of 8.55% plus 350 basis points) for 2019-20, for 2020-21 it has been considered as 11.25% (SBI 1-year MCLR applicable as on 1.4.2020 of 7.75% plus 350 basis points) whereas 2021-22 onwards it has been considered as 10.50% (SBI-1 year MCLR applicable as on 1.4.2021 of 7.00% plus 350 basis points).

49. Necessary computations of Interest on Working Capital (annualized) for non-microwave system-Central Portion is as follows:

(₹ in lakh)

Non-Microwave System-Central Portion					
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Working Capital for O&M Expenses (O&M Expenses for One month)	12.94	12.94	12.94	12.94	12.94
Working Capital for Maintenance Spares (15% of O&M Expenses)	23.29	23.29	23.29	23.29	23.29
Working Capital for Receivables (Equivalent to 45 days of annual charges)	19.92	19.92	19.87	19.87	19.87
Total Working Capital	56.15	56.15	56.10	56.10	56.10



Rate of Interest on Working Capital (in.%)	12.05	11.25	10.50	10.50	10.50
Interest on working capital	6.77	6.32	5.89	5.89	5.89

Annual Fixed Charges for the 2019-24 Tariff Period

50. The annual fees and charges allowed for the asset for 2019-24 period are as follows:

Particulars	Non-Microwave-Central Portion				
	2019-20	2020-21	2021-22	2022-23	2023-24
Annual Capital Recovery Charge-Total	0.00	0.00	0.00	0.00	0.00
O&M Expenses	155.27	155.27	155.27	155.27	155.27
Interest on Working Capital	6.77	6.32	5.89	5.89	5.89
Total Fee & Charges	162.04	161.59	161.16	161.16	161.16

(₹ in lakh)

Filing Fee and Publication Expenses

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

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

License Fee and RLDC Fees and Charges

53. 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.

Goods and Services Tax

54. 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.

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

Security Expenses

56. The Petitioner has submitted that security expenses in respect of 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.

57. We have considered the above submissions of Petitioner. The Petitioner has claimed consolidated security expenses for all the transmission assets owned by it on projected basis for the 2019-24 tariff period on the basis of actual security expenses incurred in 2018-19 in Petition No. 260/MP/2020. The said petition has already been disposed of by the Commission vide order dated 3.8.2021. Therefore, 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.

Sharing of Charges

58. The fees and charges for non-microwave system shall be shared on similar lines as system operation charges by the users in the ratio of 45:45:10 as per Regulation 22 (1) of Fee and Charges of Regional Load Despatch Centre and other related matters Regulations, 2009 as follows:

*"Distribution licensees and buyers: 45% of system operation charges;
Generating stations and sellers: 45% of system operation charges;
Inter-state Transmission licensees: 10% of system operation charges"*



59. The fees and charges for State Sector for the 2014-19 tariff period shall be recovered from the respective States in accordance with Regulation 43 of the 2014 Tariff Regulations.

60. The fees and charges for the Central Sector shall be recovered on monthly basis in accordance with Regulation 43 of the 2014 Tariff Regulations for 2014-19 tariff period and Regulation 57 of the 2019 Tariff Regulations for the 2019-24 tariff period.

61. Annexure-I to this order forms part of the order.

62. This order disposes of Petition No. 692/TT/2020 in terms of the above discussions and findings.

sd/-
(P.K. Singh)
Member

sd/-
(Arun Goyal)
Member

sd/-
(I.S. Jha)
Member

sd/-
(P.K. Pujari)
Chairperson



Annexure-I


Weighted Average Rate of Interest (WAROI) for 2014-19

(₹ in lakh)

Loan	2014-15			
	Opening (Net O/S as on 1.4.2014)	Rate of interest	Interest	Weighted Average Rate of Interest
Bond VII	0.00	13.64%	0.00	
Bond IX	0.00	12.25%	0.00	
Bond XII	18.50	9.70%	1.79	
Bond XIII-II	0.00	7.85%	0.00	
Bond XVIII	67.73	8.15%	5.52	
ICICI	0.00	7.32%	0.00	
PNB I	0.00	0.00%	0.00	
PNB II	97.67	11.60%	11.33	
OBC	81.33	12.35%	10.04	
Corporation Bank	0.00	13.00%	0.00	
BOI(FC)	2680.92	1.94%	52.01	
IBRD-I	0.00	8.68%	0.00	
IBRD-II	2473.67	1.75%	44.14	
EIB-Tr. I	0.00	7.43%	0.00	
EIB-Tr. II	0.00	7.20%	0.00	
EIB-Tr. III	0.00	7.19%	0.00	
EIB-Tr. IV	0.00	6.56%	0.00	
EIB-Tr. V	0.00	6.59%	0.00	
EIB-Tr. VI	0.00	6.33%	0.00	
Total Loan	5419.82		124.83	2.213200%
Loan	2015-16			
	Opening (Net O/S as on 1.4.2014)	Rate of interest	Interest	Weighted Average Rate of Interest
Bond VII	0.00	13.64%	0.00	
Bond IX	0.00	12.25%	0.00	
Bond XII	18.50	9.70%	1.79	
Bond XIII-II	0.00	7.85%	0.00	
Bond XVIII	67.73	8.15%	5.52	
ICICI	0.00	7.32%	0.00	
PNB I	0.00	0.00%	0.00	
PNB II	97.67	11.60%	11.33	
OBC	81.33	12.35%	10.04	
Corporation Bank	0.00	13.00%	0.00	
BOI(FC)	2680.92	2.12%	56.72	
IBRD-I	0.00	8.68%	0.00	
IBRD-II	2473.67	1.97%	48.80	
EIB-Tr. I	0.00	7.43%	0.00	
EIB-Tr. II	0.00	7.20%	0.00	
EIB-Tr. III	0.00	7.19%	0.00	
EIB-Tr. IV	0.00	6.56%	0.00	
EIB-Tr. V	0.00	6.59%	0.00	
EIB-Tr. VI	0.00	6.33%	0.00	



Total Loan	5419.82		134.21	2.225700%
2016-17				
Loan	Opening (Net O/S as on 1.4.2014)	Rate of interest	Interest	Weighted Average Rate of Interest
Bond VII	0.00	13.64%	0.00	
Bond IX	0.00	12.25%	0.00	
Bond XII	18.50	9.70%	1.79	
Bond XIII-II	0.00	7.85%	0.00	
Bond XVIII	67.73	8.15%	5.52	
ICICI	0.00	7.32%	0.00	
PNB I	0.00	0.00%	0.00	
PNB II	97.67	11.60%	11.33	
OBC	81.33	12.35%	10.04	
Corporation Bank	0.00	13.00%	0.00	
BOI(FC)	2680.92	2.57%	68.99	
IBRD-I	0.00	8.68%	0.00	
IBRD-II	2473.67	2.76%	68.22	
EIB-Tr. I	0.00	7.43%	0.00	
EIB-Tr. II	0.00	7.20%	0.00	
EIB-Tr. III	0.00	7.19%	0.00	
EIB-Tr. IV	0.00	6.56%	0.00	
EIB-Tr. V	0.00	6.59%	0.00	
EIB-Tr. VI	0.00	6.33%	0.00	
Total Loan	5419.82		165.90	2.759800%
2017-18				
Loan	Opening (Net O/S as on 1.4.2014)	Rate of interest	Interest	Weighted Average Rate of Interest
Bond VII	0.00	13.64%	0.00	
Bond IX	0.00	12.25%	0.00	
Bond XII	18.50	9.70%	1.79	
Bond XIII-II	0.00	7.85%	0.00	
Bond XVIII	67.73	8.15%	5.52	
ICICI	0.00	7.32%	0.00	
PNB I	0.00	0.00%	0.00	
PNB II	97.67	11.60%	11.33	
OBC	81.33	12.35%	10.04	
Corporation Bank	0.00	13.00%	0.00	
BOI(FC)	2680.92	3.11%	83.25	
IBRD-I	0.00	8.68%	0.00	
IBRD-II	2473.67	3.29%	81.48	
EIB-Tr. I	0.00	7.43%	0.00	
EIB-Tr. II	0.00	7.20%	0.00	
EIB-Tr. III	0.00	7.19%	0.00	
EIB-Tr. IV	0.00	6.56%	0.00	
EIB-Tr. V	0.00	6.59%	0.00	
EIB-Tr. VI	0.00	6.33%	0.00	
Total Loan	5419.82		193.42	3.237400%


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 Page No. 26 to 58
Authorised Signatory
Power Grid Corporation of India Ltd.
 Plot No. 2, Sector-29, Gurgaon-122001 (HARYANA)



Order in Petition No. 692/TT/2020





Certificate No.PGCIL/24-25/SR1-O&M/5

CERTIFICATE

We have verified the relevant records and other documents of POWER GRID CORPORATION OF INDIA LTD., having its Registered office at B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi - 110016 and on the basis of our verification, we do hereby certify the Revenue (O&M) Expenditure for Central Sector Communication Systems of Southern Region which is detailed as under :

(Rs in Lakhs)

Description	DOCO	2019-20	2020-21	2021-22	2022-23	2023-24
Project Name : Southern Region Unified Load						
Despatch Center -Project Code 228						
SR ULDC - CENTRAL SECTOR	1-Jul-02	41.72	10.79	142.83	132.12	151.32
Total		41.72	10.79	142.83	132.12	151.32
Project Name : Fees and Charges for Fibre Optic						
Communication System in Lieu of existing						
Unified Load Despatch & Communication						
(ULDC) Microwave Links in Southern Region-						
Project Code 229						
OPGW Communication Link (1110.320 km) Fibre optic in lieu of existing Microwave - (Central Sector)	1-Apr-13	42.73	66.47	40.86	25.58	29.38
Central Portion (168.457 km) Fibre Optic in lieu of existing Microwave in SR	1-Jan-14	8.49	13.20	8.11	5.08	5.83
NELAMANGLA-YELAHANKA (39.006 KM) OPGW Fibre Communication link of Central Sector along with associated Communication equipment	28-Mar-18	3.03	4.71	2.90	1.81	2.08
Total		54.25	84.38	51.87	32.47	37.29
Project Name : Fiber Optic Communication						
system for central sector Sub-stations &						
Generating Stations-Project Code 256						
275.93KM OPGW fiber optic cable along with associated equipments	1-Apr-14	22.68	14.76	17.36	9.63	15.67
291.124KM OPGW fiber optic cable along with associated equipments	1-Jul-14	17.16	11.16	13.13	7.28	11.85
1717.112 km OPGW fiber optic cable along with associated equipments	30-Mar-15	99.18	64.53	75.93	42.10	68.53
OPGW Fiber Optic Cable along with associated equipments	31-Mar-16	75.93	49.40	58.13	32.23	52.46
Kaiga (PG) - Narendra (PG), Kaiga (PG) - Gutur, 230 kv Kalpakam (PG) -230 kv SP Koil (TNEB), NCTPS (TNEB) - Tondiapet (TNEB), Tuticori pooling station-LILO point AP51, Mysore-Kozikode, Kalpakam - Siruchery, Ithiruvapur-Neyveli, Neyveli TS II-Neyveli TS I(Ckt-II), Villianur - Bahur, Baslhipura-Hoolagally Dc line, LILO of Pomdy -Sriperambadur to SV Chatram	30-Mar-17	63.89	41.57	48.92	27.12	44.15

B.O.: Flat No. FF-3, H No 40-6-2, Goteti Apartment, Kandari Hotel Street, Krishna Nagar, Vijayawada – 520 010

B.O.: H. No. 10-1-86, Mehar Nagar, Old Gajuwaka, Visakhapatnam – 530 026

B.O.: No. 4, Poes Road, 4th Street, Teynampet, Chennai – 600 018

B.O.: Flat No. 3C, Jeevan Residency, Behind Kalanjali, Renigunta Road, Tirupati - 517 501



(Rs in Lakhs)

Description	DOCO	2019-20	2020-21	2021-22	2022-23	2023-24
8 NOS. OPGW FIBRE COMMUNICATIONS LINKS (98.484 KM) ALONG WITH ASSOCIATED COMMUNICATION EQUIPMENTS	28-Mar-18	23.60	15.35	18.06	10.02	16.30
Salem PS (Dharmapuri)-Madhugiri (Tumkur) OPGW Link (246.197 Kms)	19-Mar-19	20.36	13.25	15.58	8.64	14.07
Yelahanka- Tumkur (73.412KM) OPGW Communication Link along with associated communication Equipments under Fibre Optic Communication system for center sector SS and Generating stations in Southern region	22-Apr-20	-	10.21	12.02	6.66	10.84
a) OPGW Communication Link for a) Nellore Pooling Station- 400KV Nellore PG DOCO 01.04.13 (b) 400KV Raichur-765KV Raichur DOCO 01.01.2014 (c) Nellore Pooling Station-TPCIL DOCO 01.03.2014 (d) Kurnool (New)-Kurnool SS central sector DOCO 01.04.2014	1-Apr-14	0.46	-	0.37	0.37	-
Central OPGW Communication link for a) 400 KV Kadapa PG- Chittor (APTRANSCO) & b) 400KV Kadapa PG- Chinakampally (APTRANSCO)	1-Oct-14	1.12	-	1.13	4.19	-
Central OPGW Communication link for a) LILO of N'sagar-Gooty at Kurnool PG b) 765KV Raichur-Kurnool PG	27-Sep-14	1.12	-	1.13	4.19	-
OPGW Links for Establishment of Fiber Optic Communication System for Central Sector station Project of Southern Region	1-Aug-16	6.72	-	4.95	5.08	0.00
1) 400 KV Vijayawada {Pk}- Vemagiri (APTRANSCO) 2) 400 KV LILO of Ramagundam Khammam at Warangal 3) 400 KV Khanapur (Hyderabad)-Ku	1-Oct-17	34.14	40.67	123.61	75.25	159.17
Total		366.36	260.90	390.32	232.77	393.04
Grand Total		462.33	356.07	585.02	397.36	581.65

The above summary is on the basis of the information drawn from audited statement of accounts of POWER GRID CORPORATION OF INDIA LTD-Southern Region, for the relevant financial years.

The details of above O&M expenditure is as per the Annexure-I & ii

Place: Secunderabad

Date: 27.09.2024

For Sagar & Associates
Chartered Accountants
FRN-003510S


(A Manikanta Rayudu)
Partner

MRN: 243439

UDIN: 24243439BKFLFN1558



ANNEXURE - II

Revenue (O&M) Expenditure for Central Sector Communication Systems- Project Wise

Project Name : Southern Region Unified Load Despatch Center -Project Code 228					
(Rs in Lakhs)					
Description	2019-20	2020-21	2021-22	2022-23	2023-24
Employee Cost	33.53	-	105.31	113.04	79.87
Repair & Maintenance	0.17	2.61	26.38	1.31	49.49
Power Charges	0.23	-	-	0.11	0.33
Training & Recruitment	0.01	0.17	0.03	0.31	0.81
Communication Expenses	0.01	0.23	1.02	1.24	2.67
Travelling Expenses	0.78	2.18	2.08	12.29	7.75
Vehicle Hiring Expenses	6.96	5.60	8.00	3.81	10.39
Bandwidth Charges :					
Leased Line Charges	-	-	-	-	-
Duct space lease charges	-	-	-	-	-
Internet Bandwidth	-	-	-	-	-
Other expenses :					
Printing & Stationery	0.03	-	0.01	0.01	0.01
Meeting Expenses	-	-	-	-	-
Total Expenses	41.72	10.79	142.83	132.12	151.32
Corporate Center & RHQ Center Expenses	-	-	-	-	-
Grand Total	41.72	10.79	142.83	132.12	151.32

Project Name : Fees and Charges for Fibre Optic Communication System in Lieu of existing Unified Load Despatch & Communication (ULDC) Microwave Links in Southern Region-Project Code 229					
(Rs in Lakhs)					
Description	2019-20	2020-21	2021-22	2022-23	2023-24
Employee Cost	4.50	4.56	3.08	1.95	5.20
Repair & Maintenance	9.81	-	48.79	30.52	32.09
Power Charges	-	-	-	-	-
Training & Recruitment	-	0.01	-	-	-
Communication Expenses	0.01	0.07	-	-	-
Travelling Expenses	0.13	0.13	-	-	-



Vehicle Hiring Expenses					
Bandwidth Charges :					
Leased Line Charges	19.81	-	-	-	-
Duct space lease charges	19.94	79.61	-	-	-
Internet Bandwidth	-	-	-	-	-
Other expenses :					
Printing & Stationery	-	-	-	-	-
Meeting Expenses	-	-	-	-	-
Total Expenses	54.20	84.38	51.87	32.47	37.29
Corporate Center & RHQ Center Expenses	0.05	-	-	-	-
Grand Total	54.25	84.38	51.87	32.47	37.29

Project Name : Fiber Optic Communication system for central sector Sub-stations & Generating Stations-Project Code 256					
(Rs in Lakhs)					
Description	2019-20	2020-21	2021-22	2022-23	2023-24
Employee Cost	68.37	74.08	223.57	80.17	230.55
Repair & Maintenance	111.25	73.74	109.89	146.02	154.31
Power Charges	0.02	0.00	0.00	0.34	0.00
Training & Recruitment	0.01	0.01	0.00	0.00	0.03
Communication Expenses	0.01	0.08	0.37	0.29	0.32
Travelling Expenses	0.14	0.15	1.76	0.96	2.43
Vehicle Hiring Expenses	0.00	0.00	0.00	0.00	0.00
Bandwidth Charges :	0.00	0.00	0.00	0.00	0.00
Leased Line Charges	108.54	112.77	52.14	0.81	0.18
Duct space lease charges	60.93	0.00	0.00	0.00	0.00
Internet Bandwidth	0.01	0.00	0.00	0.00	0.00
Other expenses :	0.00	0.00	0.00	0.00	0.00
Printing & Stationery	0.00	0.07	0.00	0.00	0.00
Meeting Expenses	0.00	0.00	0.39	0.07	0.07
Total Expenses	349.29	260.90	388.12	228.65	387.90
Corporate Center & RHQ Center Expenses	17.07	0.00	2.20	4.11	5.15
Grand Total	366.36	260.90	390.32	232.77	393.04



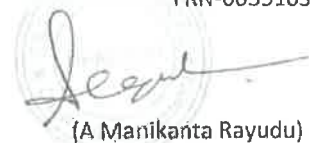
Consolidated of All Project

Description	2019-20	2020-21	2021-22	2022-23	2023-24
Employee Cost	106.40	78.64	331.96	195.16	315.62
Repair & Maintenance	121.23	76.35	185.06	177.85	235.89
Power Charges	0.25	-	-	0.45	0.33
Training & Recruitment	0.02	0.19	0.03	0.31	0.84
Communication Expenses	0.03	0.38	1.39	1.53	2.99
Travelling Expenses	1.05	2.46	3.84	13.25	10.18
Vehicle Hiring Expenses	6.96	5.60	8.00	3.81	10.39
Bandwidth Charges :	-	-	-	-	-
Leased Line Charges	128.35	112.77	52.14	0.81	0.18
Duct space lease charges	80.87	79.61	-	-	-
Internet Bandwidth	0.01	-	-	-	-
Other expenses :	-	-	-	-	-
Printing & Stationery	0.03	0.07	0.01	0.01	0.01
Meeting Expenses	-	-	0.39	0.07	0.07
Total Expenses	445.21	356.07	582.82	393.24	576.51
Corporate Center & RHQ Center Expenses	17.12	-	2.20	4.11	5.15
Grand Total	462.33	356.07	585.02	397.36	581.65

The above summary is on the basis of the information drawn from audited statement of accounts of POWER GRID CORPORATION OF INDIA LTD-Southern Region, for the relevant financial years.

Place: Secunderabad
Date: 27.09.2024

For Sagar & Associates
Chartered Accountants
FRN-003510S



(A Manikanta Rayudu)
Partner

MRN: 243439

UDIN: 24243439BKFLFN1558



CALCULATION FOR SOUTHERN REGION ULDC NON MICROWAVE - CENTRAL PORTION		
<u>2019-20</u>		<u>Rs in Lac</u>
CENTRAL PORTION	RATE	For expenditure as on 31.03.2019
GROSS CAPITAL COST (Rs)		
CAPITAL COST		7763.61
Gross Loan		0.00
Gross equity		0.00
O/S Loan (as on 1.4.2019 for expenditure upto 31.03.2019)		0.00
O/S Equity (as on 1.4.2019 for expenditure upto 31.03.2019)		0.00
No. of years		0.00
Recovery factor - Loan	0	0.000000
Monthly Capital Recovery Charges - Loan	0	0.00
Recovery factor - Equity	15.500%	0.000000
Monthly Capital Recovery Charges - Equity	15.500%	0.00
Annual Capital Recovery Charges - Total		0.00
CALCULATION OF YEARLY INTEREST ON WORKING CAPITAL		
YEAR		2019-20
MAINTENANCE SPARES		6.26
O&M EXPENSES		3.48
RECEIVABLES		5.35
TOTAL WC		15.09
IWC	12.05%	1.82
CALCULATION OF YEARLY ANNUAL CHARGES - CENTRAL PORTION		
YEAR		2019-20
ANNUAL CAPITAL RECOVERY CHARGES		0.00
O&M EXPENSES		41.72
INTEREST ON WORKING CAPITAL		1.82
TOTAL CHARGES		43.54
		Petitioner



CALCULATION FOR SOUTHERN REGION ULDC NON MICROWAVE - CENTRAL PORTION		
2020-21		Rs in Lac
CENTRAL PORTION	RATE	For expenditure as on 31.03.2020
GROSS CAPITAL COST (Rs)		
CAPITAL COST		
Gross Loan		
Gross equity		
O/S Loan (as on 1.4.2020 for expenditure upto 31.03.2020)		
O/S Equity (as on 1.4.2020 for expenditure upto 31.03.2020)		
No. of years		0.00
Recovery factor - Loan	0	0.000000
Monthly Capital Recovery Charges - Loan	0	0.00
Recovery factor - Equity	15.500%	0.000000
Monthly Capital Recovery Charges - Equity	15.500%	0.00
Annual Capital Recovery Charges - Total		0.00
CALCULATION OF YEARLY INTEREST ON WORKING CAPITAL		
YEAR		2020-21
MAINTENANCE SPARES		1.62
O&M EXPENSES		0.90
RECEIVABLES		1.38
TOTAL WC		3.90
IWC	11.25%	0.44
CALCULATION OF YEARLY ANNUAL CHARGES - CENTRAL PORTION		
YEAR		2020-21
ANNUAL CAPITAL RECOVERY CHARGES		0.00
O&M EXPENSES		10.79
INTEREST ON WORKING CAPITAL		0.44
TOTAL CHARGES		11.23
		Performer



CALCULATION FOR SOUTHERN REGION ULDC NON MICROWAVE - CENTRAL PORTION		
<u>2021-22</u>		Rs in Lac
CENTRAL PORTION	RATE	For expenditure as on 31.03.2022
GROSS CAPITAL COST (Rs)		
CAPITAL COST		7763.61
Gross Loan		0.00
Gross equity		0.00
O/S Loan (as on 1.4.2021 for expenditure upto 31.03.2022)		
O/S Equity (as on 1.4.2021 for expenditure upto 31.03.2022)		
No. of years		0.00
Recovery factor - Loan	0	0.000000
Monthly Capital Recovery Charges - Loan	0	0.00
Recovery factor - Equity	15.500%	0.000000
Monthly Capital Recovery Charges - Equity	15.500%	0.00
Annual Capital Recovery Charges - Total		0.00
CALCULATION OF YEARLY INTEREST ON WORKING CAPITAL		
YEAR		2021-22
MAINTENANCE SPARES		21.42
O&M EXPENSES		11.90
RECEIVABLES		18.28
TOTAL WC		51.60
IWC	10.50%	5.42
CALCULATION OF YEARLY ANNUAL CHARGES - CENTRAL PORTION		
YEAR		2021-22
ANNUAL CAPITAL RECOVERY CHARGES		0.00
O&M EXPENSES		142.83
INTEREST ON WORKING CAPITAL		5.42
TOTAL CHARGES		148.25
		Petitioner



CALCULATION FOR SOUTHERN REGION ULDC NON MICROWAVE - CENTRAL PORTION		
2022-23		Rs in Lac
CENTRAL PORTION	RATE	For expenditure as on 31.03.2023
GROSS CAPITAL COST (Rs)		
CAPITAL COST		7763.61
Gross Loan		0.00
Gross equity		0.00
O/S Loan (as on 1.4.2022 for expenditure upto 31.03.2023)		0.00
O/S Equity (as on 1.4.2022 for expenditure upto 31.03.2023)		0.00
No. of years		0.00
Recovery factor - Loan	0	0.000000
Monthly Capital Recovery Charges - Loan	0	0.00
Recovery factor - Equity	15.500%	0.000000
Monthly Capital Recovery Charges - Equity	15.500%	0.00
Annual Capital Recovery Charges - Total		0.00
CALCULATION OF YEARLY INTEREST ON WORKING CAPITAL		
YEAR		2022-23
MAINTENANCE SPARES		19.82
O&M EXPENSES		11.01
RECEIVABLES		16.91
TOTAL WC		47.73
IWC	10.50%	5.01
CALCULATION OF YEARLY ANNUAL CHARGES - CENTRAL PORTION		
YEAR		2022-23
ANNUAL CAPITAL RECOVERY CHARGES		0.00
O&M EXPENSES		132.12
INTEREST ON WORKING CAPITAL		5.01
TOTAL CHARGES		137.13
		Petitioner



CALCULATION FOR SOUTHERN REGION ULDC NON MICROWAVE - CENTRAL PORTION		
2023-24		Rs in Lac
	CENTRAL PORTION	For expenditure as on 31.03.2024
	GROSS CAPITAL COST (Rs)	7763.61
	Gross Loan	0.00
	Gross equity	0.00
	O/S Loan (as on 1.4.2023 for expenditure upto 31.03.2024)	0.00
	O/S Equity (as on 1.4.2023 for expenditure upto 31.03.2024)	0.00
No. of years		0.00
Recovery factor - Loan	0	0.000000
Monthly Capital Recovery Charges - Loan	0	0.00
Recovery factor - Equity	15.500%	0.000000
Monthly Capital Recovery Charges - Equity	15.500%	0.00
Annual Capital Recovery Charges - Total		0.00
CALCULATION OF YEARLY INTEREST ON WORKING CAPITAL		
YEAR		2023-24
MAINTENANCE SPARES		22.70
O&M EXPENSES		12.61
RECEIVABLES		19.41
TOTAL WC		54.72
IWC	12.00%	6.57
CALCULATION OF YEARLY ANNUAL CHARGES - CENTRAL PORTION		
YEAR		2023-24
ANNUAL CAPITAL RECOVERY CHARGES		0.00
O&M EXPENSES		151.32
INTEREST ON WORKING CAPITAL		6.57
TOTAL CHARGES		157.89
		Petitioner



CALCULATION FOR SOUTHERN REGION ULDC NON MICROWAVE - CENTRAL PORTION		
2024-25		Rs in Lac
CENTRAL PORTION		
	RATE	For expenditure as on 31.03.2025
GROSS CAPITAL COST (Rs)		
CAPITAL COST		7763.61
Gross Loan		0.00
Gross equity		0.00
O/S Loan (as on 1.4.2023 for expenditure upto 31.03.2024)		
		0.00
O/S Equity (as on 1.4.2023 for expenditure upto 31.03.2024)		
No. of years		0.00
Recovery factor - Loan		0.000000
Monthly Capital Recovery Charges - Loan		0.00
Recovery factor - Equity		15.500%
Monthly Capital Recovery Charges - Equity		0.000000
Annual Capital Recovery Charges - Total		0.00
CALCULATION OF YEARLY INTEREST ON WORKING CAPITAL		
YEAR		2023-24
MAINTENANCE SPARES		23.29
O&M EXPENSES		12.94
RECEIVABLES		19.91
TOTAL WC		56.14
IWC	11.90%	6.68
CALCULATION OF YEARLY ANNUAL CHARGES - CENTRAL PORTION		
YEAR		2023-24
ANNUAL CAPITAL RECOVERY CHARGES		0.00
O&M EXPENSES		155.27
INTEREST ON WORKING CAPITAL		6.68
TOTAL CHARGES		161.95
		Petitioner



CALCULATION FOR SOUTHERN REGION ULDC NON MICROWAVE - CENTRAL PORTION		
2025-26		Rs in Lac
CENTRAL PORTION	RATE	For expenditure as on 31.03.2026
GROSS CAPITAL COST (Rs)		7763.61
CAPITAL COST		0.00
Gross Loan		0.00
Gross equity		0.00
O/S Loan (as on 1.4.2023 for expenditure upto 31.03.2024)		0.00
O/S Equity (as on 1.4.2023 for expenditure upto 31.03.2024)		0.00
No. of years		0.00
Recovery factor - Loan	0	0.000000
Monthly Capital Recovery Charges - Loan	0	0.00
Recovery factor - Equity	15.500%	0.000000
Monthly Capital Recovery Charges - Equity	15.500%	0.00
Annual Capital Recovery Charges - Total		0.00
CALCULATION OF YEARLY INTEREST ON WORKING CAPITAL		
YEAR		2023-24
MAINTENANCE SPARES		23.29
O&M EXPENSES		12.94
RECEIVABLES		19.91
TOTAL WC		56.14
IWC	11.90%	6.68
CALCULATION OF YEARLY ANNUAL CHARGES - CENTRAL PORTION		
YEAR		2023-24
ANNUAL CAPITAL RECOVERY CHARGES		0.00
O&M EXPENSES		155.27
INTEREST ON WORKING CAPITAL		6.68
TOTAL CHARGES		161.95
		Petitioner



CALCULATION FOR SOUTHERN REGION ULDC NON MICROWAVE - CENTRAL PORTION		
2026-27		Rs in Lac
CENTRAL PORTION	RATE	For expenditure as on 31.03.2027
GROSS CAPITAL COST (Rs)		7763.61
CAPITAL COST		0.00
Gross Loan		0.00
Gross equity		0.00
O/S Loan (as on 1.4.2023 for expenditure upto 31.03.2024)		0.00
O/S Equity (as on 1.4.2023 for expenditure upto 31.03.2024)		0.00
No. of years		0.00
Recovery factor - Loan	0	0.000000
Monthly Capital Recovery Charges - Loan	0	0.00
Recovery factor - Equity	15.500%	0.000000
Monthly Capital Recovery Charges - Equity	15.500%	0.00
Annual Capital Recovery Charges - Total		0.00
CALCULATION OF YEARLY INTEREST ON WORKING CAPITAL		
YEAR		2023-24
MAINTENANCE SPARES		23.29
O&M EXPENSES		12.94
RECEIVABLES		19.91
TOTAL WC		56.14
IWC	11.90%	6.68
CALCULATION OF YEARLY ANNUAL CHARGES - CENTRAL PORTION		
YEAR		2023-24
ANNUAL CAPITAL RECOVERY CHARGES		0.00
O&M EXPENSES		155.27
INTEREST ON WORKING CAPITAL		6.68
TOTAL CHARGES		161.95
		Petitioner



CALCULATION FOR SOUTHERN REGION ULDC NON MICROWAVE - CENTRAL PORTION		
2027-28		Rs in Lac
CENTRAL PORTION		
	RATE	For expenditure as on 31.03.2028
GROSS CAPITAL COST (Rs)		7763.61
CAPITAL COST		0.00
Gross Loan		0.00
Gross equity		0.00
O/S Loan (as on 1.4.2023 for expenditure upto 31.03.2024)		0.00
O/S Equity (as on 1.4.2023 for expenditure upto 31.03.2024)		
No. of years		0.00
Recovery factor - Loan		0.000000
Monthly Capital Recovery Charges - Loan	0	0.00
Recovery factor - Equity	0	0.000000
Monthly Capital Recovery Charges - Equity	15.5000%	0.00
Annual Capital Recovery Charges - Total	15.5000%	0.00
CALCULATION OF YEARLY INTEREST ON WORKING CAPITAL		
YEAR		2023-24
MAINTENANCE SPARES		23.29
O&M EXPENSES		12.94
RECEIVABLES		19.91
TOTAL WC		56.14
IWC	11.90%	6.68
CALCULATION OF YEARLY ANNUAL CHARGES - CENTRAL PORTION		
YEAR		2023-24
ANNUAL CAPITAL RECOVERY CHARGES		0.00
O&M EXPENSES		155.27
INTEREST ON WORKING CAPITAL		6.68
TOTAL CHARGES		161.95
		Petitioner



CALCULATION FOR SOUTHERN REGION ULDC NON MICROWAVE - CENTRAL PORTION		
2028-29		Rs in Lac
CENTRAL PORTION	RATE	For expenditure as on 31.03.2029
GROSS CAPITAL COST (Rs)		7763.61
CAPITAL COST		0.00
Gross Loan		0.00
Gross equity		0.00
O/S Loan (as on 1.4.2023 for expenditure upto 31.03.2024)		0.00
O/S Equity (as on 1.4.2023 for expenditure upto 31.03.2024)		0.00
No. of years		0.00
Recovery factor - Loan	0	0.000000
Monthly Capital Recovery Charges - Loan	0	0.00
Recovery factor - Equity	15.500%	0.000000
Monthly Capital Recovery Charges - Equity	15.500%	0.00
Annual Capital Recovery Charges - Total		0.00
CALCULATION OF YEARLY INTEREST ON WORKING CAPITAL		
YEAR		2023-24
MAINTENANCE SPARES		23.29
O&M EXPENSES		12.94
RECEIVABLES		19.91
TOTAL WC		56.14
IWC	11.90%	6.68
CALCULATION OF YEARLY ANNUAL CHARGES - CENTRAL PORTION		
YEAR		2023-24
ANNUAL CAPITAL RECOVERY CHARGES		0.00
O&M EXPENSES		155.27
INTEREST ON WORKING CAPITAL		6.68
TOTAL CHARGES		161.95
		Petitioner



INDEX
Checklist of Forms and other information/ documents for tariff filing for
Transmission System & Communication System

PART-III

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



S. No.	Information/Document	Tick
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)	N.A.
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.	N.A.
3	Copies of relevant loan Agreements	N.A.
4	Copies of the approval of Competent Authority for the Capital Cost and Financial package.	N.A.
5	Copies of the Equity participation agreements and necessary approval for the foreign equity.	N.A.
6	Copies of the BPTA/TSA/PPA with the beneficiaries, if any	N.A.
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	N.A.
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 mid-term 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.	N.A.
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.	N.A.
10.	Any other relevant information, (Please specify)	N.A.
<p>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.</p>		

