

BEFORE  
THE CENTRAL ELECTRICITY REGULATORY COMMISSION  
NEW DELHI

PETITION FOR  
APPROVAL OF TRANSMISSION TARIFF

For

Transmission Assets of

*Project - "Requirement of additional FOTE of STM-16 capacity  
at Bhuj PS to cater to connectivity of RE Gencos"*

Implemented by

POWERGRID BHUJ TRANSMISSION LIMITED

For

TARIFF BLOCK: 2024-29

PETITION NO.....

POWERGRID BHUJ TRANSMISSION LIMITED

REGISTERED OFFICE

B-9, QUTAB INSTITUTIONAL AREA, KATWARIA SARAI,  
NEW DELHI - 110 016

ADDRESS FOR CORRESPONDENCE

ED(TBCB), POWER GRID CORPORATION OF INDIA LIMITED  
"SAUDAMINI", PLOT NO.2, SECTOR -29, GURGAON 122 001 (HARYANA)



BEFORE  
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NEW DELHI

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**IN THE MATTER OF:** Petition for determination of transmission tariff for 2024-29 tariff block for asset under “Requirement of additional FOTE of STM-16 capacity at Bhuj PS to cater to connectivity of RE Gencos” in Western Region under Section 62 read with Section 79(1)(d) of the Electricity Act, 2003, Regulation 15(1)(a) & Regulation 23 of Central Electricity Regulatory Commission (Conduct of Business) Regulations, 2023 and Central Electricity Regulatory Commission (Terms and Condition of Tariff) Regulations, 2024.

**POWERGRID Bhuj Transmission Limited**

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Address for Correspondence: ED (TBCB), “SAUDAMINI”,  
Plot No.-2, Sector-29, Gurgaon-122 001 (Haryana)

.....PETITIONER

**Vs**

**Madhya Pradesh Power Management Company Ltd.**

Shakti Bhawan, Rampur

Jabalpur - 482 008

Represented by Its MD

**And others**

.....RESPONDENT(S)

Filed by

POWERGRID Bhuj Transmission Limited

Represented by

PLACE :

Bhuj

DATED :

25.10.2024

Project-in-Charge,

POWERGRID Bhuj Transmission Limited  
परियोजना प्रभारी / Project Incharge  
पावरग्रिड भुज ट्रांसमिशन लिमिटेड  
POWERGRID BHUJ TRANSMISSION LIMITED



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Filed by

POWERGRID Bhuj Transmission Limited

PLACE :

Bhuj

DATED :

25.10.2024

Project-in-Charge,

POWERGRID Bhuj Transmission Limited

बी. के. प्रधान / B. K. Pradhan  
परियोजना प्रभारी / Project Incharge  
पावरग्रिड भुज ट्रांसमिशन लिमिटेड  
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**POWERGRID Bhuj Transmission Limited**

.....PETITIONER

**Madhya Pradesh Power Management Company Ltd.  
And others**

.....RESPONDENTS

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

Sir,

The present tariff Petition is being filed under Section 62 read with Section 79 (1) (d) of the Electricity Act, 2003 and under Regulation 15 (1) (a) & Regulation 23 of Central Electricity Regulatory Commission (Conduct of Business) Regulations, 2023 and Central Electricity Regulatory Commission (Terms and Condition of Tariff Regulations), 2024 and the same may be pleased to be registered and taken on record by the Hon'ble Commission.

Filed by  
**POWERGRID Bhuj Transmission Limited**  
Represented by

PLACE :  
DATED :

*Bhuj*  
*25.10.2024*

Project-in-Charge,  
**POWERGRID Bhuj Transmission Limited**

*[Signature]*  
बी. के. प्रधान / B. K. Pradhan  
परियोजना प्रचारी / Project Incharge  
पावरग्रिड भुज ट्रांसमिशन लिमिटेड  
**POWERGRID BHUJ TRANSMISSION LIMITED**



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Address for Correspondence: ED (TBCB),  
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.....PETITIONER

Vs

**Madhya Pradesh Power Management Company Ltd.**

Shakti Bhawan, Rampur  
Jabalpur - 482 008

Represented by Its MD

**And others**

.....RESPONDENT(S)

MEMO OF PARTIES

1. **MADHYA PRADESH POWER MANAGEMENT COMPANY LTD.**  
SHAKTI BHAWAN, RAMPUR, JABALPUR - 482 008  
EMAIL-ANURAG.NAIK@MPPMCL.COM&COMML.DEPTT@MPPMCL.COM  
CONTACT NO- 9425805876  
REPRESENTED BY ITS MD
  
2. **MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD.**  
PRAKASHGAD, PLOT NO G-9, A K MARG, BANDRA (EAST), MUMBAI-400 051  
EMAIL- CEPPMSDCL@GMAIL.COM  
CONTACT NO- 9833387967



REPRESENTED BY ITS MD

3. **GUJARAT URJA VIKAS NIGAM LTD.**

SARDAR PATEL VIDYUT BHAWAN, RACE COURSE ROAD, VADODARA - 390 007

EMAIL- [DECSP.GUVNL@GEBMAIL.COM](mailto:DECSP.GUVNL@GEBMAIL.COM)

CONTACT NO- 7069009628

REPRESENTED BY ITS MD

4. **ELECTRICITY DEPARTMENT**

VIDYUT BHAWAN, GOVT. OF GOA, PANAJI, GOA - 403 001

EMAIL- [CEE-ELEC.GOA@NIC.IN](mailto:CEE-ELEC.GOA@NIC.IN)

CONTACT NO- 7350644000

REPRESENTED BY ITS CHIEF ENGINEER (ELECTRICAL)

5. **DNHDD POWER DISTRIBUTION CORPORATION LIMITED**

VIDYUT BHAWAN, 66KV ROAD, NEAR SECRETARIAT, AMLI, SILVASSA - 396 230

EMAIL- [BHAVIKSHAH@TORRENTPOWER.COM](mailto:BHAVIKSHAH@TORRENTPOWER.COM)

CONTACT NO- 9227758405

REPRESENTED BY ITS SECRETARY (FIN.)

6. **CHHATTISGARH STATE POWER DISTRIBUTION COMPANY LIMITED**

P.O. SUNDER NAGAR, DANGANIA, RAIPUR, CHHATTISGARH-492 013

EMAIL- [CECOMCSEB@REDIFFMAIL.COM](mailto:CECOMCSEB@REDIFFMAIL.COM)

CONTACT NO- 982618253

REPRESENTED BY ITS CHAIRMAN

7. **CENTRAL TRANSMISSION ULILITY OF INDIA LTD (CTUIL)**

FIRST FLOOR, SAUDAMINI, PLOT NO-2,

NEAR IFFCO CHOWK METRO STATION

GURGAON-122001, HARYANA

REPRESENTED BY ITS COO

Filed by

POWERGRID Bhuj Transmission Limited

Represented by

PLACE :

*Bhuj*

DATED :

*25.10.2024*

Project-in-Charge,  
श्री. के. प्रधान / B.K. Pradhan  
परिवहन प्रभारित प्रोजेक्ट इनचार्ज  
पावरग्रिड भुज ट्रांसमिशन लिमिटेड  
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POWERGRID Bhuj Transmission Limited

.....PETITIONER

Vs

Madhya Pradesh Power Management Company Ltd.

.....RESPONDENT(S)

MEMO OF APPEARANCE

POWERGRID Bhuj Transmission Limited

..... PETITIONER

1. Shri B K Pradhan, Project-in-charge, PBTL

I, B K Pradhan, the Petitioner 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 .... date of October 2024.

PETITIONER  
POWERGRID Bhuj Transmission Limited



(B K Pradhan)  
Project-in-Charge,

POWERGRID Bhuj Transmission Limited

PLACE  
DATED

Bhuj  
25.10.2024

बी. के. प्रधान / B. K. Pradhan  
परियोजना प्रभारी / Project Incharge  
पावरग्रिड भुज ट्रांसमिशन लिमिटेड  
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Vs

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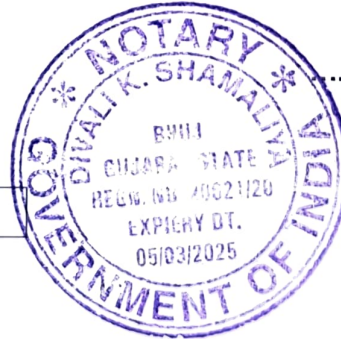
Shakti Bhawan, Rampur

Jabalpur - 482 008

Represented by Its MD

And others

.....RESPONDENT(S)



**A. Executive Summary of the Petition:**

**(i) Brief Background of the Petitioner**

1. The Petitioner, POWERGRID Bhuj Transmission Limited ('PBTL') is a Company under the provisions of the Companies Act, 2013 and has its registered office at B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi – 110016. The Petitioner is a wholly owned subsidiary of Power Grid Corporation of India Limited ('POWERGRID'). PBTL was granted a transmission licence by this Hon'ble Central Electricity Regulatory Commission (hereinafter referred to as "Hon'ble Commission") vide its order dated 03.03.2020 in Petition No. 447/TL/2019 to establish the 'Transmission



System for providing connectivity to RE Projects at Bhuj-II (2000 MW) in Gujarat" under TBCB mode on Build, Own, Operate, and Maintain ("BOOM").

2. Subsequently, the National Committee of Transmission (NCT) in its 14<sup>th</sup> meeting held on 14.06.2023 inter-alia approved "**Requirement of additional FOTE of STM-16 capacity at Bhuj PS to cater to connectivity of RE Gencos**" ('Transmission Scheme') under RTM mode and implementation was assigned to Petitioner. NCT vide letter dated 07.07.2023 conveyed the approved transmission schemes in 14<sup>th</sup> NCT meeting to CTUIL. Subsequently, CTUIL vide OM dated 10.07.2023 assigned the Transmission Scheme to Petitioner. Tariff for the transmission system established by PBTL under RTM is required to be determined in accordance with the Tariff Regulations as notified by this Hon'ble Commission in exercise of its powers under Section 178 of the Electricity Act, 2003.

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

3. PBTL has impleaded the distribution licensees and Government department of the respective states which are engaged in distribution of electricity in Western Region of India. The respondents are also 'Designated Inter State Transmission Customer's (hereinafter referred to as 'DICs') of Western Region in terms of the Sharing Regulations, 2020.

**(iii) Background of Transmission Assets:**

4. PBTL is filing the present petition for determination of transmission tariff for 2024-29 tariff block for the following assets under subject transmission scheme, i.e. **Requirement of additional FOTE of STM-16 capacity at Bhuj PS to cater to connectivity of RE Gencos:**

Asset No	Asset Name	COD	Remarks
Asset-1	Additional FOTE of STM-16 capacity (5-MSP, Tejas make) at Bhuj – II	01.08.2024	Project contains only instant asset



*[Handwritten signature]*

(iv) Brief description of important events relevant to the Petition:

S.No	Event	Date
1.	National Committee of Transmission (NCT) in its 14th meeting held on 14.06.2023 inter-alia approved "Requirement of additional FOTE of STM-16 capacity at Bhuj PS to cater to connectivity of RE Gencos" ('Transmission Scheme') under Regulated Tariff Mechanism (RTM) mode and implementation was assigned to PBTL. NCT vide letter dated 07.07.2023 conveyed the approved transmission schemes in 14th meeting to CTUIL.	14.06.2023/ 07.07.2023
2.	CTUIL vide OM assigned the instant Transmission Scheme to PBTL.	10.07.2023
3.	<p>Petitioner approached Hon'ble Commission through Petition 44/TL/2024 for grant of separate transmission license to implement the Transmission Scheme through RTM.</p> <p>Hon'ble Commission vide order dated 10.07.2024 in Petition No. 44/TL/2024 held that there is neither a requirement to amend the existing TBCB licence nor seek an additional licence for the upgradation of communication equipment. Hon'ble Commission further held that the PBTL shall implement the scheme as per the scope of work approved by the NCT and awarded to the PBTL. After implementation of the scheme, PBTL is required to approach the Hon'ble Commission for approval of such expenditure along with audited data of the expenditure and details of competitive bidding carried out for the implementation of the scheme. The modalities of recovery of such expenditure shall be decided by the Commission in the application to be made by the Petitioner for approval of such expenditure. Accordingly, PBTL is approaching the</p>	10.07.2024



*[Handwritten signature]*

S.No	Event	Date
	Hon'ble Commission for recovery of the expenditure on Transmission scheme as per the terms of the Tariff Regulations, 2024.	
4.	Investment Approval	04.12.2023
5.	SCOD/ Revised SCOD	07.07.2024/ 07.01.2025
6.	COD	01.08.2024

(v) Summary of Claims:

5. PBTL is seeking determination of transmission tariff for 2024-29 tariff block for aforesaid transmission asset based on capital cost comprising of capital cost incurred/admitted upto DOCO (01.08.2024) and additional capital expenditure during 2024-29 tariff block in accordance with terms of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 ("Tariff Regulations, 2024").

6. The details of FR approved cost vis-à-vis claimed capital cost as on COD and additional capital expenditure during 2019-24 and 2024-29 tariff block is as under:

(Rs. in lakhs)

Asset No.	Apportioned Approved Cost as per FR	Expenditure Up to COD (01.08.2024)	Estimated expenditure during 2024-29 tariff block	Estimated completion Cost as on 31.03.2029
			2024-25	
Asset-1	42	1	34.36	35.36

7. Details of Time- Overrun: there is no time over run in commissioning of instant asset.

8. It is prayed to Hon'ble commission to reimburse expenditure of petition filing fee, license fee, newspaper publication expenses and RLDC fee & charges, insurance expenses, security expenses and capital spares, etc.

(vi)Details of tariff claimed for 2024-29 tariff block:



*[Handwritten signature]*

(Rs. in Lakhs)

B. Detailed Petition:

Name of the asset	2024-25	2025-26	2026-27	2027-28	2028-29
Asset-1	3.67	9.77	9.33	8.89	8.44

**MOST RESPECTFULLY SHOWETH:**

**Issue wise submission(s):**

9. The Petitioner, POWERGRID Bhuj Transmission Limited ('PBT') is a Company under the provisions of the Companies Act, 2013 and has its registered office at B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi – 110016. The Petitioner is a wholly owned subsidiary of Power Grid Corporation of India Limited.
10. That Petitioner is an Inter-State Transmission Licensee which has implemented "**Transmission System for providing connectivity to RE Projects at Bhuj-II (2000 MW) in Gujarat**" through Tariff Based Competitive Bidding (TBCB) process on the build, own, operate and maintain basis. Further, Petitioner has implemented the other Transmission scheme i.e. "**Requirement of additional FOTE of STM-16 capacity at Bhuj PS to cater to connectivity of RE Gencos**" under RTM subsequent to assignment of the same by CTUIL/NCT.
11. That the Hon'ble Commission have notified CERC (Terms and Conditions of Tariff) Regulations, 2024, vide notification dated 15.03.2024 for a period of 5 years w.e.f. 01.04.2024. The tariff for the said transmission systems shall be determined by the Hon'ble Commission in accordance with the Tariff Regulations, 2024.
12. That the present petition covers approval of transmission tariff for following Asset:

Asset No	Asset Name	DOCO
Asset-1	Additional FOTE of STM-16 capacity (5-MSP, Tejas make) at Bhuj – II	01.08.2024



*Handwritten signature*

## Approval of the Scheme

13. That National Committee of Transmission (NCT) in its 14<sup>th</sup> meeting held on 14.06.2023 inter-alia approved “**Requirement of additional FOTE of STM-16 capacity at Bhuj PS to cater to connectivity of RE Gencos**” (“**Transmission Scheme**”) under RTM mode and implementation was assigned to Petitioner. NCT vide letter dated 07.07.2023 conveyed the approved transmission schemes in 14<sup>th</sup> NCT meeting to CTUIL. Subsequently, CTUIL vide OM dated 10.07.2023 assigned the Transmission Scheme to Petitioner.

Copy of CTUIL OM dated 10.07.2023 and NCT letter dated 07.07.2023 are attached as **Annexure-1**.

14. The Investment Approval (IA) and expenditure sanction to the subject transmission scheme was accorded by Board of Directors of POWERGRID Bhuj Transmission Limited in its 42<sup>nd</sup> meeting held on 04.12.2023 at an estimated cost of **Rs. 0.42 Crores** including IDC of Rs 0.01 Crore at June, 2023 price level, a copy of the IA is attached hereto as **Annexure - 2**.
15. In light of the above, Petitioner approached Hon'ble Commission through Petition 44/TL/2024 for grant of separate transmission license to implement the Transmission Scheme under RTM. Hon'ble Commission vide order dated 10.07.2024 in Petition No. 44/TL/2024 held that there is neither a requirement to amend the existing TBCB licence nor seek an additional licence for the upgradation of communication equipment. Hon'ble Commission further held that the PBTL shall implement the scheme as per the scope of work approved by the NCT and awarded to the PBTL. After implementation of the scheme, PBTL shall approach the Commission for approval of such expenditure along with audited data of the expenditure and details of competitive bidding carried out for the implementation of the scheme. The modalities of recovery of such expenditure shall be decided by the Commission in the application to be made by the PBTL for approval of such expenditure. Accordingly, PBTL is approaching the Hon'ble Commission for recovery of the expenditure on instant Transmission scheme as per the terms of the Tariff Regulations, 2024.



*[Handwritten signature]*

A copy of the order dated 28.01.2024 in Petition No. 44/TL/2024 is attached as **Annexure 3**.

**SCOPE OF WORK:**

16. The complete scope of work covered under “**Requirement of additional FOTE of STM-16 capacity at Bhuj PS to cater to connectivity of RE Gencos**” and covered under instant petition is as follows:

Asset	Asset Name	Remarks
Asset-1	Additional FOTE of STM-16 capacity (5-MSP, Tejas make) at Bhuj – II	Complete Transmission Scheme Included in the instant petition

The entire scope of the project is completed after commissioning of subject Asset.

RLDC trial operation certificate, and DOCO certificate for the instant asset are attached as **Annexure-4**.

17. It is submitted that as per Regulation 9 of the CERC (Terms and Conditions of Tariff) Regulations, 2024, the following condition has to be fulfilled while filing the Tariff petition for 2024-29 tariff block: -

**Quote**

*“Provided that where the transmission system comprises various elements, the transmission licensee shall file an application for determination of tariff for a group of elements on incurring of expenditure of not less than Rs. 100 Crore or 70% of the cost envisaged in the Investment Approval, whichever is lower, as on the actual date of commercial operation.”*

**Unquote**

With the commissioning of Asset-1, complete Transmission Scheme has been commissioned and the above condition has been met and the Petitioner is filing the instant petition in compliance with Regulation 9 of CERC Regulations, 2024.



## 18. Implementation Schedule

The original SCOD, revised SCOD as revised by CTUIL vide letter dated 02.09.2024 and actual commissioning date of the asset claimed in the present petition are as follows:

Asset	Schedule COD	Revised SCOD*	Actual COD	Delay w.r.t. revised SCOD
Asset-1	07.07.2024	07.01.2025	01.08.2024	NIL

\* Original time schedule of the instant asset was revised during 22<sup>nd</sup> meeting of NCT held on 23.08.2024 and minutes of 22<sup>nd</sup> NCT meeting communicated by CTUIL vide letter dated 02.09.2024 to Petitioner.

Hon'ble Commission vide its order dated 10.07.2024 in Petition No. 44/TL/2024, filed by petitioner for grant of transmission license, has directed the CTUIL to communicate the revised implementation schedule of the transmission scheme, keeping in view the timeframe of requirement of the subject scheme. In compliance to above, the Petitioner requested CTUIL to communicate the revised implementation schedule for instant transmission scheme. The timeline for the instant transmission scheme was discussed during 22<sup>nd</sup> NCT meeting and timeline was revised to 07.01.2025 from the earlier timeline of 07.07.2024. CTUIL vide letter dated 02.09.2024 has intimated the revised timeline to Petitioner.

The asset has been commissioned on 01.08.2024 and there is no time over run in the commissioning of the instant asset.

A copy of the CTUIL letter dated 02.09.2024 enclosing 22<sup>nd</sup> NCT meeting minutes is attached as **Annexure – 5**.

## 19. Estimated Completion Cost:

The present Petition for determination of tariff is filed in line with provision 9(1) of tariff Regulation 2024 applicable for 2024-29 period. The capital cost upto DOCO and





additional capital expenditure projected to be incurred for 2024-29 is duly certified by the Auditor. Copy of Auditor Certificates for the assets in the instant petition are attached at **Annexure - 6**.

(Rs. in lakhs)

Asset No.	Apportioned Approved Cost as per FR	Expenditure Up to COD	Estimated expenditure during 2024-29 tariff block	Estimated completion Cost as on 31.03.2029
			2024-25	
Asset-1	42	1	34.36	35.36

Hence, it may be seen from the above that the estimated completion cost of the Asset based on the Auditor certificate is within apportioned FR approved cost.

**Cost variation:**

The details of estimated completion cost vis-à-vis apportioned/FR cost for the Asset covered under instant petition is as follow:

(Rs. In lakhs)

Asset No.	Approved cost (FR) (a)	Estimated Completion Cost (b)	Variation FR (-decrease/+increase) (c= b-a)
Asset-1	42	35.36	-6.64

The item-wise cost variation between FR approved cost and estimated completion cost have been given in Form-5.

Further, the salient reasons of cost variation w.r.t. FR is given here as under:

Asset-1

S. No	Description	Cost as per FR	Estimated Capital Cost	Variation (-decrease, +increase)
		a	b	c = b - a
1	Communication System equipment	35.65	34.36	-1.29
2	Over heads	4.76	1	-3.76
3	Interest During Construction (IDC)	1.16	0	-1.16



*Handwritten signature*

**Variation in IDC & Variation in IEDC:**

Decrease in IDC is attributable to the fact there is only IEDC expenditure of Rs 1 lakhs till COD of the asset which was paid through internal accruals and therefore no IDC has been incurred.

Regarding decrease in IEDC, it is to submit that IEDC and Contingency have been considered @ 5% in the Investment approval, whereas based on the actual expenditure under the subject head, actual IEDC has been considered in the Auditor Certificate.

**Cost variation in the Communication System equipment** - It is submitted that through open competitive bidding process, lowest possible market prices for required product/services/as per detailed designing is obtained and contracts are awarded on the basis of lowest evaluated eligible bidder on overall basis. The best competitive bid prices against tenders may vary as compared to the cost estimate depending upon prevailing market conditions, design and site requirements, whereas the estimates are prepared by the petitioner as per well-defined procedures for cost estimate. The FR cost estimate is broad indicative cost worked out generally on the basis of average unit rates of recently awarded contracts as a general practice.

Considering the above, it is humbly prayed that full tariff may be allowed from DOCO based on estimated completion cost of the subject assets.

**DETAILS OF THE INITIAL SPARES:**

20. No initial spares have been claimed in the instant petition.

**DETAILS OF ADDITIONAL CAPITALIZATION**

21. The details of additional capitalization (Add Cap) claimed during 2024-29 tariff block is given as hereunder:

The admissibility of additional capital expenditure (Add Cap) incurred after the DOCO is to be dealt with in accordance with the provisions of Regulation 24 of CERC Tariff Regulations, 2024. The extract of Regulation 24 of the Tariff Regulations, 2024 is reproduced as under:



## “Additional Capitalization”

(1) The additional capital expenditure in respect of a new project or an existing project incurred or projected to be incurred, on the following counts within the original scope of work, after the date of commercial operation and up to the cut-off date may be admitted by the Commission, subject to prudence check:

- (a) Payment made towards admitted liabilities for works executed up to the cut-off date;
- (b) Works deferred for execution;
- (c) Procurement of initial capital spares within the original scope of work, in accordance with the provisions of Regulation 23 of these regulations;
- (d) Payment against the award of arbitration or for compliance with the directions or order of any statutory authority or order or decree of any court of law;
- (e) Change in law or compliance with any existing law which is not provided for in the original scope of work;
- (f) For uninterrupted and timely development of Hydro projects, expenditure incurred towards developing local infrastructure in the vicinity of the power plant not exceeding Rs. 10 lakh/MW shall be considered as part of capital cost and in case the same work is covered under budgetary support provided by Government of India, the funding of such works shall be adjusted on receipt of such funds;  
Provided that such expenditure shall be allowed only if the expenditure is incurred through Indian Governmental Instrumentality; and
- (g) Force Majeure events:

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

### 22. Additional capitalization claims under Regulation:

Sl. No.	Asset	DOCO date	Cut-off date
1	Asset-1	01.08.2024	31.03.2028



*[Handwritten signature]*

**23. Add cap for 2024-29 block:**

Asset	Add cap detail (Rs. Lakhs)				
	2024-25	2025-26	2026-27	2027-28	2028-29
Asset-1	34.36	0	0	0	0
	Applicable regulation				
	24(1)(a) – 34.36	-	-	-	-

24. The additional Capitalisation incurred/projected to be incurred in the contextual assets is mainly on account of Balance/Retention Payments for work executed upto the cut-off date and hence, the same may be allowed by the Hon'ble Commission under Regulation 24(1)(a) of Tariff Regulations, 2024.

**TRANSMISSION TARIFF FOR 2024-29 BLOCK:**

25. That as per regulation 8(1) (i) & (ii), 14 (5) and regulation 15 of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024, the tariff for transmission of electricity on Inter-State transmission system (ISTS) shall comprise transmission charges for recovery of annual fixed cost consisting of (a) Return on Equity, (b) Interest on Loan Capital, (c) Depreciation, (d) Interest on Working Capital and (e) Operation and maintenance expenses.

26. The tariff for block 2024-29 has been worked out as per Regulation 10 of the CERC (Terms and Conditions of Tariff) Regulations, 2024. In the present petition the transmission tariff has been calculated taking actual Expenditure upto DOCO and Actual/estimated expenditure from DOCO to 31.03.2029. The tariff Formats for block 2024-29 has been worked out as per Annexure-I, Part III of the tariff regulations for period 2024-29.

27. Further, for the instant assets, details of accrual IDC as considered under add-cap during the year of discharge for tariff blocks 2024-29 are tabulated below.



**Asset-1:**

(Rs. in lakhs)

Sl. No.	Expenditure	Sub-Station	PLCC/ Communication System	I.T. Equipment	Total
1	As per Auditor Certificate (Upto DOCO) as on 01.08.2024	0	1	0	1
2	Less: Accrual IDC not discharged upto DOCO	0	0	0	0
3	<b>Expenditure upto DOCO Excluding Accrual IDC</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>
4	Add Cap during for FY 2024-25 as per auditor certificate	0	34.36	0	34.36
5	Add: Accrual IDC Discharged in 2024-25	0	0	0	0
6	<b>Expenditure 2024-25 (Including Accrual IDC discharge)</b>	<b>0</b>	<b>34.36</b>	<b>0</b>	<b>34.36</b>
7	<b>Estimated Completion Cost</b>	<b>0</b>	<b>35.36</b>	<b>0</b>	<b>35.36</b>

28. The Hon'ble Commission is requested to kindly allow the IDC based on cash out flow. It is further submitted that accrued IDC to be discharged during respective years for the assets has not been included in the Add Cap expenditure for the respective year as per the Auditor certificate. Further, the entire IEDC amount mentioned in the auditor certificate is on cash basis and is paid up to DOCO. Furthermore, statement of cash IDC is enclosed at **Annexure - 7**.

The transmission tariff has been calculated based on audited cost. The tariff Formats for block 2024-29 have been furnished out as per Annexure-I, Part-III of the Tariff Regulations for period 2024-29 and the calculations for working out the tariff along with supporting documents are attached hereto as **Annexure - 8**.

The annual transmission tariff for the tariff period 2024-29 is summarized as below:



*[Handwritten signature]*

(Rs. In Lakhs)

Sl. No.	Project	2024-25	2025-26	2026-27	2027-28	2028-29
1	Asset-1	3.67	9.77	9.33	8.89	8.44

29. That, it is submitted that the petitioner being liable to pay income tax at MAT rate prescribed vide the taxation laws (Amendment) ordinance 2019 published in the Gazette dt. 20<sup>th</sup> September 2019. The ROE has been calculated @ 18.782% after grossing up the ROE with MAT rate of 17.472% (Base Rate 15% + Surcharge 12% + Cess 4%) based on the formula given at regulation 31(2) of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 for 2024-29 period. That as per clause 31 of the above regulation, the grossed-up rate of ROE at the end of every financial year shall be trued up based on actual tax paid together with any additional tax demand including interest thereon duly adjusted for any refund of tax including interest received from the IT authorities pertaining to the tariff period 2024-29 on actual gross income of any financial year. However, penalty, if any, arising on account of delay in deposit or short deposit of tax amount shall not be claimed by the generating company or the transmission licensee, as the case may be. Any under-recovery or over-recovery of grossed up rate on ROE after truing up shall be recovered or refunded to beneficiaries or the long-term customers, as the case may be on year-to-year basis. It is further submitted that adjustment due to any additional tax demand including interest duly adjusted for any refund of tax including interest received from IT authorities shall be recoverable /adjustable during the tariff period 2024-29 on year-to-year basis on receipt of Income Tax assessment order.

30. 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 28 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.

31. Approval was accorded by Board of Directors of PBTL to borrow funds by way of an inter-corporate loan from POWERGRID. In the tariff calculation for 2019-24 period, Interest on Loans has been calculated on the basis of rate prevailing as on DOCO for inter-corporate loan. The change in Interest rate due to the 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.
32. The transmission charges at para-28 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 & d) of the tariff regulations for block 2024-29 but excludes security expenses, Insurance and capital spares as provided in the Regulation.
33. That as per Regulation 36(3)(d) of CERC Tariff Regulations, 2024, the Security Expenses, Insurance and Capital Spares more than 10 Lakh for transmission system shall be allowed separately after prudence check.

**Security Expenses:**

In this regard, it is submitted that a separate petition shall be filed for recovery of security expenses from 01.04.2024 to 31.03.2029 and consequential Interest on Working Capital (IOWC) on the same 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.



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**Capital Spare:**

With regard to Capital Spares, 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.

34. The application filing fee, expenses incurred on publication of Notices in Newspapers and License fee may be allowed to be recovered separately from the respondents in terms of Regulation 94(1) & (4) of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024. The fees and charges to be paid by the petitioner as ISTS licensee (deemed ISTS licensee) under CERC (Fees and Charges of RLDC and other matters) Regulations 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.
35. The Transmission Charges and other related Charges indicated at Para 28 above, is exclusive of incentive, late payment surcharge, FERV, any statutory taxes, levies, duties, cess, filing fees, license fee, RLDC fees and charges or any other kind of imposition (s) and/ or other surcharges etc. whatsoever imposed / charged by any Government (Central/State) and / or any other local bodies/authorities/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.

**Sharing of Transmission Charges**

36. Tariff for Transmission of Electricity (Annual Fixed Cost) for 2024-29 as per para 28 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 Central Electricity Regulatory Commission (Sharing of



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Inter State Transmission Charges and Losses) Regulations, 2020 or as amended from to time.

37. 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 the **Annexure - 1 to 8** may please be treated as integral part of this petition.

### PRAYER

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

- 1) Admit the capital cost as claimed in the Petition and approve the Additional Capitalization incurred / projected to be incurred.
- 2) Allow interim tariff in accordance with Regulation 10(3) of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 for purpose of inclusion in the PoC charges.
- 3) Approve the transmission tariff for 2024-29 block for the asset covered under this petition, as per Para 28 above.
- 4) Allow the petitioner to recover the shortfall or refund the excess Annual Fixed Charges, on account of Return on Equity due to change in applicable Minimum Alternate/Corporate Income Tax rate as per the Income Tax Act, 1961 (as amended from time to time) of the respective financial year directly without making any application before the Commission as provided in Tariff Regulation 2024 as per para 28 above.
- 5) 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.
- 6) Allow the petitioner to bill and recover Licensee fee and RLDC fees and charges, separately from the respondents in terms of Regulation 94 (3) and (4) Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024.



- 7) 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 beneficiaries.
- 8) 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 33 above.
- 9) Allow the petitioner to claim the overall insurance expenses and consequential IOWC on that insurance expenses separately as mentioned at Para 33 above.
- 10) 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 33 above.
- 11) 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
- 12) Pass such other relief as Hon'ble Commission deems fit and appropriate under the circumstances of the case and in the interest of justice.

Filed by  
POWERGRID Bhuj Transmission Limited  
Represented by

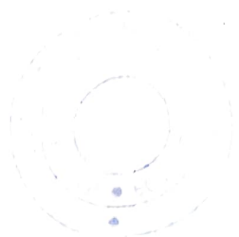
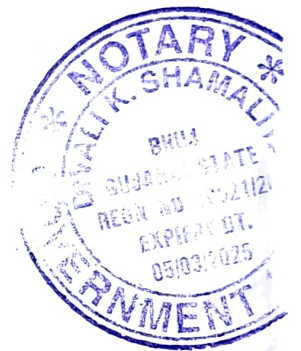


Project-in-Charge,  
POWERGRID Bhuj Transmission Limited  
बी. के. प्रधान / B. K. Pradhan  
परियोजना प्रभारी / Project Incharge  
पावरग्रिड भुज ट्रांसमिशन लिमिटेड  
POWERGRID BHUJ TRANSMISSION LIMITED

PLACE :  
DATED :

Bhuj  
25.10.2024







Serial No. 7227  
Book No. 07  
Page No. 106  
DATE 25/10/2024

BEFORE  
THE CENTRAL ELECTRICITY REGULATORY COMMISSION  
NEW DELHI

PETITION NO.: .....

**IN THE MATTER OF:** Petition for determination of transmission tariff for 2024-29 tariff block for asset under "Requirement of additional FOTE of STM-16 capacity at Bhuj PS to cater to connectivity of RE Gencos" in Western Region under Section 62 read with Section 79(1)(d) of the Electricity Act, 2003, 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, 2024.

**POWERGRID Bhuj Transmission Limited**

.....PETITIONER

**Madhya Pradesh Power Management Company Ltd.  
And others**

.....RESPONDENTS

**AFFIDAVIT VERIFYING THE PETITION**

I, Basant Kumar Pradhan, S/o Shri Dambardhar Pradhan, working as Project-in-charge, POWERGRID Bhuj Transmission Limited, having its registered Office at B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi-110016, do hereby solemnly affirm and state as follows:-

1. I am the Project-in-charge, POWERGRID Bhuj Transmission Limited, the representative of the Petitioner in the above matter, and am duly authorized to make this affidavit.
2. I submit 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. I submit that the contents of Para 01 to 37 of the facts as mentioned in the Petition are true and correct based on my personal knowledge, belief and records maintained in the office and the contents of Para 01 to 35 of the Petition are believed to be true on the basis of the legal advice received.
4. The documents attached with the petition are legible copies and duly attested by me.

**VERIFICATION**

I, the deponent above named, do hereby verify the contents of the above affidavit to be true to my knowledge and belief and no part of it is false and nothing material has been concealed there from.

Solemnly affirmed at Gurgaon on this \_\_\_\_ day of October 2024.

*B.K. Pradhan*  
B. K. Pradhan  
(DEPONENT) Project Incharge  
पावरग्रिड भुज ट्रांसमिशन लिमिटेड  
POWERGRID BHUJ TRANSMISSION L

SOLEMNLY AFFIRMED  
BEFORE ME

BY *Basant Kumar Pradhan*  
Who is identified by *Basant Kumar Pradhan*  
Whom she/he knows personally  
B. K. Pradhan  
(DEPONENT) Project Incharge  
पावरग्रिड भुज ट्रांसमिशन लिमिटेड  
POWERGRID BHUJ TRANSMISSION L

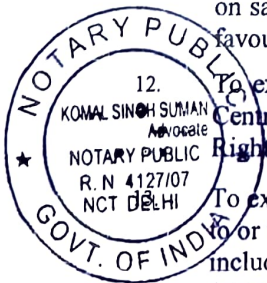


25 OCT 2024

DIVALI K. SHAMALIYA  
NOTARY  
GOVT. OF INDIA



1. To constitute, and defend legal cases, sign and verify plaints, written statements, petitions and objections, memorandum of appeal, claims, affidavits, applications, re-applications and pleadings of all kinds and to file them in Central Electricity Regulatory Commission (CERC), State Electricity Regulatory Commissions (SERCs), Appellate Tribunal for Electricity (ATE), Civil, Criminal or Revenue courts, Arbitration, Labour Court, Industrial Tribunal, High Court and Supreme Court, whether having original or appellate jurisdiction and before Government or Local Authorities or Registration Authorities, Tax Authorities, Tribunals, etc.
2. To appear, before various Courts / Tribunals / CERC / SERCs / Appellate Tribunal for Electricity.
3. To appoint any Advocate, Vakil, Pleader, Solicitor or any other legal practitioner as Attorney to appear and conduct case proceedings on behalf of the company and to sign Vakalatnama.
4. To compromise, compound or withdraw cases from any Court / Tribunal / CERC / SERCs / Appellate Tribunal for Electricity.
5. To file petitions/applications or affidavits before the Supreme Court / High Court / CERC / SERCs / Appellate Tribunal for Electricity and to obtain the copies of documents, papers, records etc.
6. To file and receive back documents, to deposit and withdraw money from Courts, Tribunal, Registrar's Office and other Government or Local Authorities and to issue valid receipts thereof.
7. To apply for and obtain refund of stamp duty or court fee, etc.
8. To issue notices and accept service of any summons, notices or orders issued by any Court / Tribunal / CERC / SERCs / Appellate Tribunal for Electricity on behalf of the Company.
9. To execute deeds, agreements, bonds and other documents and returns in connection with the affairs of the company and file them or cause to be filed for Registration, whenever necessary.
10. To issue Project Authority Certificate(s) in respect of contracts for Load Despatch & Communication Systems, Transmission Systems etc. and to lodge claims with the Railways, Transporters, Shipping Agents and Clearing Agents and to settle/compromise such claims.
11. To lodge claims with the Insurance companies, to settle/compromise such claims and on satisfactory settlement thereof, to issue letters of subrogation/power of attorney in favour of Insurance companies.
12. To execute, sign and file applications, undertakings, agreements etc. to or with the Central / State Government(s) / Body(ies) to obtain 'right of way' or any of other Right(s) / Privilege(s) etc.
- To execute, sign and file applications, undertakings, agreements, bills, documents etc. to or with the Central / State Government(s) / Body(ies) and other authorities / entities including Central Transmission Utility (CTU)/ Grid Controller of India Limited (GRID-INDIA) / Central Electricity Authority (CEA)/ CERC with respect to



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Commissioning of the Project, realization of Transmission charges, to obtain 'right of way' or any of other Right(s) / Privilege(s) etc.

14. To execute Consultancy, Funding and other Agreements.
15. To act as administrator for e-filing process with CERC and other Statutory authorities.
16. Generally to do all lawful acts, necessary for the above mentioned purposes.

The Company hereby agrees to ratify and confirm all and whatsoever the said Attorney shall lawfully do execute or perform or cause to be done, executed or performed in exercise of the power or authority conferred under and by virtue of this Power of Attorney.

*[Signature]*  
.....

Signed by the within named

**POWERGRID Bhuj Transmission Limited**

through the hand of **Shri B. Anantha Sarma, Chairman (Part-time)**

Duly authorized by the Board to issue such Power of Attorney

Dated this ..... day of ..... 2023

Accepted

*[Signature]*  
.....

Signature of Attorney

Name: Shri Basant Kumar Pradhan

Designation: Project In-Charge, **POWERGRID Bhuj Transmission Limited**

Address: Powergrid Residency No-113, Ward No-19, Sector 21-C, Part-III  
Faridabad, Haryana - 121001.

*[Signature]*

Attested

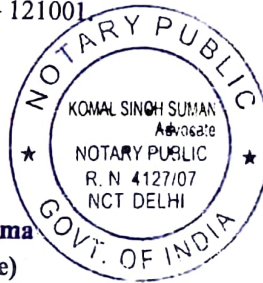
*[Signature]*  
.....

(Signature of the Executant)

Name: **Shri B. Anantha Sarma**

Designation: **Chairman (Part-time)**

Address: B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi - 110 016.



.....  
Signature and Stamp of Notary of the place of execution

ATTESTED

NOTARY PUBLIC, DELHI

10 MAR 2023

WITNESS

*[Signature]*  
Shri Gaurav Rai  
Company Secretary

*[Signature]*  
Smt. Seema Gupta  
Director

*[Signature]*  
Shri Pramod Kumar  
Director



सेंट्रल ट्रांसमिशन यूटिलिटी ऑफ इंडिया लिमिटेड  
(पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड के स्वामित्व में)  
(भारत सरकार का उद्यम)

**CENTRAL TRANSMISSION UTILITY OF INDIA LTD.**

(A wholly owned subsidiary of Power Grid Corporation of India Limited)

(A Government of India Enterprise)

Ref. No.: CTUIL/OM/09/052023

10<sup>th</sup> July 2023

<p><b>1. The Chairman &amp; Managing Director</b> Power Grid Corporation of India Ltd., Saudamini, Plot No. 2, Sector-29, Gurgaon- 122 001.</p>	<p><b>2. CGM (TBCB)</b> POWERGRID Bhuj Transmission Ltd. (a subsidiary of Power Grid Corporation of India Ltd.) Power Grid Corporation of India Ltd., Saudamini, Plot No. 2, Sector-29, Gurgaon- 122 001.</p>
<p><b>3. CGM (TBCB)</b> KPS3 Transmission Ltd. (a subsidiary of Power Grid Corporation of India Ltd.) Power Grid Corporation of India Ltd., Saudamini, Plot No. 2, Sector-29, Gurgaon- 122 001.</p>	<p><b>4. Shri Bhavesh Kundalia</b> Authorized Signatory Khavda-Bhuj Transmission Ltd., (a subsidiary of Adani Transmission Ltd.) Adani Corporate House, Shantigram, S.G. Highway, Ahmedabad 382 421</p>
<p><b>1. Shri Lokendra Singh Ranawat</b> Head (Regulatory) Bhopal Dhule Transmission Co. Ltd. (a subsidiary of India Grid Trust) Unit No. 101, First Floor, Windsor, Village Kolekalyan, Off CST Road, Vidyanagari Marg, Kalina, Santacruz (East), Mumbai – 400 098</p>	

**Sub: Implementation of ISTS Transmission/Communication Schemes approved by NCT in its 14<sup>th</sup> meeting held on 09-06-2023 under Regulated Tariff Mechanism (RTM).**

NCT vide letter dated 07-07-2023 has awarded the following ISTS Transmission/Communication Scheme for its implementation under RTM mode by implementing agencies as indicated in the table below:

Sl. No.	Transmission/Communication Schemes	Implementing Agency
<b>I. ISTS costing less than Rs. 100Cr.:</b>		
1.	Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-V (8GW): Part A1.	POWERGRID
2.	Transmission System for Evacuation of Power from Rajasthan REZ Ph-IV (Part-2: 5.5GW) (Jaisalmer/Barmer Complex): Part H2.	BDTCL i.e., the TSP owing the Indore-Bhopal 765kV S/c line.

सौदामिनी प्रथम तल, प्लॉट सं. 2, सेक्टर-29, गुरुग्राम -122001 (हरियाणा), दूरभाष :0124-2822547, सीआईएन: U40100HR2020GOI091857  
"Saudamini", 1st Floor, Plot No. 2, Sector-29, Gurugram-122001, (Haryana) Tel.: 0124-2822547, CIN: U40100HR2020GOI091857  
Website: <https://www.ctuil.in>





Sl. No.	Transmission/Communication Schemes	Implementing Agency
<b>II. ISTS costing between Rs. 100Cr. To Rs. 500 Crs.:</b>		
1.	Augmentation of transformation capacity by 1x1500MVA (3 <sup>rd</sup> ), 765/400kV ICT at Maheshwaram (PG) substation in Telangana.	POWERGRID
2.	Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7GW): Part E1.	Khavda- Bhuj Transmission Ltd. (Subsidiary of Adani Transmission Ltd.)
3.	Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7GW): Part E3.	KPS3 Transmission Ltd. (Subsidiary of POWERGRID)
4.	Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7GW): Part E4.	POWERGRID
<b>III. Communication schemes approved by NCT:</b>		
1.	Requirement of additional FOTE of STM-16 capacity at Bhuj PS to cater to connectivity of RE Gencos.	POWERGRID
2.	Requirement of additional FOTE of STM-16 capacity at Bhuj-II substation to cater to connectivity of RE Gencos.	M/s PBTL
3.	Upgradation of STM-4 communication link of Dehgam, Ranchhodpura, Santhalpur Rep, Bhachau and CGPL Mundra to STM-16 capacity.	POWERGRID

Copy of NCT letter dated 07-07-2023 in this regard is enclosed at **Annexure-I**. The detailed scope of work along with implementation time frame for the above Transmission/Communication Schemes shall be as per the enclosed letter of NCT.

The implementing agency shall enter into a concession agreement with CTUIL for implementation of aforementioned Transmission/Communication Schemes. However, pending finalization of Concession Agreement, it is requested to initiate necessary actions for implementation of the aforementioned Transmission/Communication Schemes.

This is for your kind information and necessary action, please.

Yours faithfully,

  
(Jasbir Singh) 10/7/23  
Chief General Manager

Encl.: as stated.





I/28786/2023



भारत सरकार  
Government of India  
विद्युत मंत्रालय  
Ministry of Power  
केन्द्रीय विद्युत प्राधिकरण  
Central Electricity Authority  
विद्युत प्रणाली योजना एवं मूल्यांकन प्रभाग-II  
Power System Planning & Appraisal Division-II

सेवा में / To

Chief Operating Officer, CTUIL  
Saudamini, Plot No. 2,  
Sector-29, Gurgaon-122001

**विषय/Subject: Implementation of ISTS Transmission Schemes approved by NCT in its 14<sup>th</sup> meeting held on 09.06.2023- regarding**

महोदय/Sir,

The undersigned is directed to inform that NCT has approved implementation of the following ISTS Transmission Schemes in its 14<sup>th</sup> meeting held on 09.06.2023, in line with MoP office order dated 28.10.2021, to be implemented through Regulated Tariff Mechanism (RTM) route by agency as indicated below:

**I. ISTS schemes costing less than Rs. 100 Crs. approved by NCT::**

Sl. No.	Name of Transmission Scheme	Implement ation Mode	Implement ation timeframe	Allocated to	Estimated Cost (Rs Crs)
1.	Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-V (8 GW): Part A1  <b><u>Brief Scope:</u></b> Conversion of 330 MVAR Fixed LR at Wardha (on each ckt of Wardha – Raipur 765 kV D/c line being LIL Oed at Nagpur)	RTM	Matching with implement ation of Khavda Phase-V Part A scheme viz. Bipole-1 (2x1500 MW) ± 800 kV	POWER GRID	21

सेवा भवन, आर. के. पुरम-I, नई दिल्ली-110066 टेलीफोन : 011-26732305 ईमेल: cea-pspa2@gov.in वेबसाइट: www.cea.nic.in  
Sewa Bhawan, R.K Puram-I, New Delhi-110066 Telephone: 011-26732305, Email: cea-pspa2@gov.in Website: www.cea.nic.in



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I/28786/2023

Sl. No.	Name of Transmission Scheme	Implementation Mode	Implementation timeframe	Allocated to	Estimated Cost (Rs Crs)
	into Bus Reactors at Wardha S/s		Nagpur (HVDC) [LCC] which is 48 months from SPV transfer.		
2.	Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-2 :5.5 GW) (Jaisalmer/Barmer Complex): Part H2  <b>Brief Scope:</b> Provision of NGR bypass arrangement and inter tripping scheme on 240 MVAR SW LR at Bhopal end of Kurawar – Bhopal 765 kV S/c line (~60 km.):	RTM	In matching timeframe of H1 Scheme	BDTCL i.e. the TSP owing the Indore – Bhopal 765 kV S/c line	0.45

**II. ISTS Transmission schemes, costing between Rs 100 Crore to Rs 500 Crore, approved by NCT:**

Sl. No.	Name of Transmission Scheme	Implementation Mode	Implementation timeframe	Allocated to	Estimated Cost (Rs. Crs)
1.	Augmentation of transformation capacity by 1x1500 MVA (3rd), 765/400 kV ICT at Maheshwaram (PG) substation in Telangana	RTM	21 months	POWERGRID	123.12
2.	Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV	RTM	24 months	Khavda – Bhuj Transmission Ltd. (Subsidiary	216



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I/28786/2023

Sl. No.	Name of Transmission Scheme	Implementation Mode	Implementation timeframe	Allocated to	Estimated Cost (Rs. Crs)
	(7GW): Part E1			of Adani Transmission limited)	
3.	Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7GW): Part E3	RTM	24 months	KPS3 Transmission Limited (Subsidiary of POWERGRID)	216
4.	Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7GW): Part E4	RTM	24 months	POWERGRID	235

## III. COMMUNICATION SCHEMES APPROVED BY NCT:

Sl. No.	Name of Transmission Scheme	Implementation Mode	Implementation timeframe	Implementing Agency	Estimated Cost (Rs Crs)
1.	Requirement of additional FOTE of STM-16 capacity at Bhuj PS to cater to connectivity of RE Gencos	RTM	12 months	POWER GRID	0.6
2.	Requirement of additional FOTE of STM-16 capacity at Bhuj-II substation to cater to connectivity of RE Gencos	RTM	12 months	M/s PBTL	0.3
3.	Upgradation of STM-4 communication link of Dehgam, Ranchhodpura, Santhalpur Rep, Bhachau and CGPL Mundra to STM-16 capacity	RTM	12 months	POWER GRID	1.5




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The above schemes are awarded to CTUIL for implementation under RTM mode. CTUIL is requested to take necessary action for entering into a concession agreement with the respective agency for implementation of the above schemes.

Detailed scope of the schemes are as per minutes of the meeting. Copy of the minutes are enclosed.

Encl.: As above.

 07.07.2023

(ईशान शरण/Ishan Sharan)

मुख्य अभियंता /Chief Engineer &  
Member Secretary (NCT)

Copy to:

Joint Secretary (Trans), Ministry of Power, Shram Shakti Bhawan, New Delhi-110001





**POWERGRID BHUJ TRANSMISSION LIMITED**

(A Wholly Owned Subsidiary of Power Grid Corporation of India Limited)

Extracts from the Minutes of 42<sup>nd</sup> Meeting of Board of Directors of POWERGRID Bhuj Transmission Limited held on Monday, 4<sup>th</sup> December, 2023 at 03:15 p.m. at "SAUDAMINI", Plot No.2, Sector-29, Gurgaon, Haryana – 122001 through Video Conferencing.

Item No. 42.2.1.: -

**Approval for Equity infusion and Related Party Transaction (RPT) of POWERGRID with POWERGRID Bhuj Transmission Limited (PBTL) for "Requirement of additional FOTE of STM-16 capacity at Bhuj-II substation to cater to connectivity of RE Gencos" under RTM mode:**

**Xxx**

The Board passed following resolution:

**"RESOLVED THAT** proposal for infusion of Equity up to an amount of ₹0.13 crore from POWERGRID (Holding Company) and raising of Debt component of ₹0.29 crore through Inter-Corporate loan from POWERGRID (Holding Company) for "Requirement of additional FOTE of STM-16 capacity at Bhuj-II Substation to cater to connectivity of RE Gencos" at an estimated cost of ₹0.42 crore including IDC of ₹0.01 crore at June, 2023 price level scheduled to be commissioned within 12 months from the date of CTUIL OM i.e. by 09.07.2024, be and is hereby approved, as per the memorandum submitted to the Board of Directors.

**RESOLVED FURTHER THAT** approval of the Board be and is hereby accorded under section 188 of the Companies Act, 2013 and other applicable provisions, if any of Companies Act, 2013 for borrowing up to ₹0.29 Crore through entering one or more Inter corporate Loan Agreement with POWERGRID at the cost of SBI 3 months MCLR or cost to cost basis or a combination thereof.

**RESOLVED FURTHER THAT** approval of the Board be and is hereby accorded under section 188 of the Companies Act, 2013 and other applicable provisions, if any of Companies Act, 2013 for obtaining consultancy services from POWERGRID (Holding Company) at fees of 5% of the actual Project Cost (excl. IDC and IEDC) plus GST for completion of the additional scope of work.

**RESOLVED FURTHER THAT** for the purpose of giving effect to the above resolutions, any of the Director, Project In-charge or CFO of the Company be and are hereby severally authorized to do all such acts, deeds and things as may be necessary, proper, expedient or incidental for the purpose of giving effect to the aforesaid resolution."

\*\*\*\*\*

Certified to be True Copy  
For POWERGRID Bhuj Transmission Limited

*Gaurav Rai*  
26/12/2023  
(Gaurav Rai)

Company Secretary

Membership No: A54744

Address: "SAUDAMINI",

Power Grid Corporation of India Limited,

Plot No.2, Sector-29, Gurgaon,

Haryana – 122001.

Registered Office  
B-9 Qutab Institutional Area, Katwaria Sarai, New Delhi-110016  
Tel: 011-26560121.Fax:011-2660108 Email: mrima@powergrid.in  
CIN: U40300DL201969346552



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CENTRAL ELECTRICITY REGULATORY COMMISSION  
NEW DELHI

Petition No. 44/TL/2024

Coram:  
Shri Jishnu Barua, Chairperson  
Shri Arun Goyal, Member

Date of order: 10<sup>th</sup> July, 2024

In the matter of:

Application under Section 14 of the Electricity Act, 2003 read with Central Electricity Regulatory Commission (Procedure, Terms and Conditions for Grant of Transmission License and other related matters) Regulations, 2009 for grant of separate Transmission License to POWERGRID Bhuj Transmission Limited (earlier known as Bhuj-II Transmission Limited) for implementation of communication system – “Requirement of additional FOTE of STM-16 capacity at Bhuj-II substation to cater to connectivity of RE Gencos” through “Regulated Tariff Mechanism” (RTM) mode.

And  
In the matter of

**POWERGRID Bhuj Transmission System Limited,**  
B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi 110 016

**Address for correspondence:**  
ED (TBCB), Power Grid Corporation of India Limited,  
Saudamini, Plot no.2, Sector -29,  
Gurgaon 122001, Haryana

...Petitioner

Vs

1. **Madhya Pradesh Power Management Company Ltd.,**  
Shakti Bhawan, Rampur  
Jabalpur-482008
2. **Madhya Pradesh Audyogik Kendra Vikas Nigam (Indore) Ltd.,**  
3/54, Press Complex, Agra-Bombay Road, Indore-452008
3. **Maharashtra State Electricity Distribution Co. Ltd.,**  
Hongkong Bank Building, 3<sup>rd</sup> Floor  
M.G. Road, Fort, Mumbai-400001



*Signature*

4. **Gujarat Urja Vikas Nigam Limited,**  
Sardar Patel Vidyut Bhawan,  
Race Course Road, Vadodara-390007
5. **Electricity Department, Govt. Of Goa,**  
Vidyut Bhawan, Panaji,  
Near Mandvi Hotel, Goa-403001
6. **Electricity Department, Administration of Daman & Diu,**  
Daman-396210
7. **DNH Power Distribution Corporation Limited,**  
Vidyut Bhawan, 66kv Road, Near Secretariat,  
Amli, Silvassa-396230
8. **Chhattisgarh State Power Distribution Co. Ltd.,**  
P.O. Sunder Nagar, Dangania, Raipur  
Chhattisgarh-492013
9. **Netra Wind Private Limited,**  
B 504, Delhi Building, Orchard Avenue,  
Sector No. 3, Hiranandani Business Park,  
Powai, Mumbai-400076
10. **Adani Green Energy Limited,**  
Adani House, 4th Floor,  
South Wing, Shantigram, S.G Highway,  
Ahmedabad-382421
11. **PFC Consulting Limited,**  
9<sup>th</sup> Floor, A-Wing,  
Statesman House, Connaught Place,  
New Delhi-110001
12. **Central Transmission Utility of India Limited,**  
Saudamini, Plot No. 2, Sector-29,  
Gurgaon -122001

...Respondents

**Parties present:**

Shri Shubham Arya, Advocate, PBTL

Shri Ravi Nair, Advocate, PBTL



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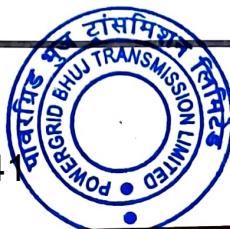
Shri Devyanshu Sharma, Advocate, PBTL  
Shri Abhijit, PBTL  
Shri Ranjeet Rajput, CTUIL  
Shri Akshayvat Kislay, CTUIL

### ORDER

The Petitioner, POWERGRID Bhuj Transmission System Limited (hereinafter referred to as 'PBTL'/ Petitioner), has filed the present Petition under Section 14 of the Electricity Act, 2003 (hereinafter referred to as 'the Act') read with the provisions of the Central Electricity Regulatory Commission (Terms and Conditions for grant of Transmission Licence and other related matters) Regulations, 2009 (hereinafter referred to as 'the Transmission Licence Regulations') for the grant of a separate transmission licence for the implementation of the communication system, namely "Requirement of additional FOTE of STM-16 capacity at Bhuj-II substation to cater to connectivity of RE Gencos" in Regulated Tariff Mechanism mode (hereinafter referred to as the 'communication scheme/project').

2. The Petitioner has made the following prayers:

- (a) *Grant separate Transmission License to the Applicant for implementation of additional scope of work under RTM mode detailed at para 3 above.*
- (b) *Allow the Applicant liberty to approach the Hon'ble Commission for determination of transmission charges after commissioning of the scope of works mentioned at Para 3 above, in accordance with Section 61, 62 of the Electricity Act, 2003 and as per 8(2) of the Transmission License Regulations, 2009.*
- (c) *Condone any inadvertent omissions/shortcomings/errors and permit the Applicant to add/modify/alter this application and make further submissions as may be required at a future date.*
- (d) *Pass such other order/orders, as may be deemed fit and proper in the facts & circumstances of the case*

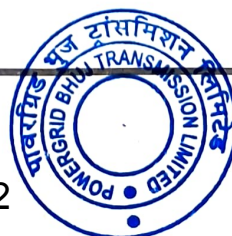


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3. The scope of the communication scheme for which a transmission licence has been sought is as follows:

<b>S. no</b>	<b>Scope of the Communication Scheme</b>	<b>Implementation timeframe</b>	<b>Total Estimated Cost</b>
1	Supply and installation of 01 no. 5 MSP (1+1) FOTE (STM-16 capacity) at Bhuj-II station	12 months from the date of allocation, i.e., by 6.7.2024	<b>Rs.0.30 crore</b>

4. The Petitioner's Company, Bhuj-II Transmission Limited (BTL) was incorporated as a special purpose vehicle by PFC Consulting Limited (PFCCL) as part of the Tariff Based Competitive Bidding ('TBCB') process for implementing the "Transmission System for providing connectivity to RE Projects at Bhuj-II (2000 MW) in Gujarat" on Build, Own, Operate, and Maintain (BOOM) basis. Power Grid Corporation of India Limited (PGCIL) participated in the competitive bidding process conducted by PFCCL, and upon emerging as the successful bidder, a Letter of Intent (LOI) was issued by PFCCL to PGCIL on 31.7.2019. In accordance with the bidding documents, PGCIL acquired 100% of the shareholding in BTL by executing a Share Purchase Agreement with PFCCL on 16.10.2019 and changed the name of the company to POWERGRID Bhuj Transmission Limited (PBTL). PBTL entered into a Transmission Service Agreement (TSA) with LTTCs on 23.4.2019. The Commission, vide its order dated 3.3.2020 in Petition No. 447/TL/2019, granted a transmission licence to the Petitioner for inter-State transmission of electricity to establish the transmission project, namely "Transmission System for providing connectivity to RE Projects at Bhuj-II (2000 MW) in Gujarat" comprising the following elements which have already commissioned:



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Sl. No.	Project elements	Scheduled COD
1.	<p>Establishment of 2x1500 MVA (765/400 kV), 4x500 MVA (400/220 kV) Bhuj-II PS (GIS) with 765kV (1x330 MVA) and 420 kV (125 MVA) bus reactor</p> <p>(2x1500 MVA (765/400 kV), 4x500 MVA (400/220 kV), 1x500 MVA (765/400 kV), 1-ph ICT (spare unit)</p> <p>400 kV ICT bay-6 nos. 765 kV ICT bay-2 nos. 220 kV ICT bay-4 nos. 765 kV line bay-4 nos. 220 kV line bay-7 nos. 1x330 MVA-765kV 1x110 MVA-765kV, 1ph Reactor (spare unit) 1x125MVA-420kV 765kV reactor Bays-1 no. 400kV reactor Bays-1 no.</p> <p>Future provisions : Space for : 765/400kV ICTs along with bays : 2 nos. 400/220kV ICTs along with bays : 5 nos. 765kV line bays : 4 nos. 400kV line bays : 6 nos. 220kV line bays : 9 nos. 765kV bus reactor along with bays : 1 no. 400kV bus reactor along with bays : 1 no.</p>	31.12.2020
2.	Reconfiguration of Bhuj PS – Lakadia PS 765 kV D/C line so as to establish Bhuj-II – Lakadia 765 kV D/C line as well as Bhuj – Bhuj-II 765kV D/C line	
3.	1x240 MVA switchable line reactor for each circuit at Bhuj-II PS end of Bhuj-II – Lakadia 765kV D/C line (2x240 MVA, 765 kV with 400 ohm NGR; 765 kV Reactor Bays-2 nos; 1x80 MVA, 765 kV, 1-ph switchable line Reactor (spare unit) at Bhuj-II end)	

5. SCOD of the above project was revised vide MoP letter dated 04.04.2022, and the details of revised scope of works with SCOD and actual commissioning dates are as



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follows:

Sl. No.	Phase No.	Details of Elements	SCOD	COD
i	1	<ul style="list-style-type: none"><li>• Bhuj-II PS with 1 no. 1500 MVA 765/400kV ICT and 4x500 MVA (400/220 kV) ICT with 765kV (1x330 MVA) and 420 kV (125 MVA) bus reactor and associated bays</li><li>• Reconfiguration of Bhuj PS – Lakadia PS 765 kV D/C line so as to establish Bhuj-II – Lakadia 765 kV D/C line as well as Bhuj – Bhuj-II 765kV D/C line</li><li>• 1x240 MVA switchable line reactor for each circuit at Bhuj-II PS end of Bhuj-II – Lakadia 765kV D/C line and associated bays</li></ul>	31.05.2022	24.08.2022
ii	2	765/400 kV ICT at Bhuj-II PS and associated bays	30.09.2022	16.11.2022

6. Subsequently, Central Transmission Utility of India Limited (CTUIL) has issued an Office Memorandum dated 10.7.2023 to the Petitioner, based on the approval granted by the NCT in its 14<sup>th</sup> meeting held on 9.6.2023 and conveyed to CTUIL vide its letter dated 7.7.2023, wherein the Petitioner has been nominated to implement the communication scheme covered under the instant Petition in RTM mode.

7. The Petitioner has submitted that after the grant of a separate transmission licence, the Petitioner shall proceed to implement the subject scheme under RTM mode. The estimated cost of the scheme as per CTUIL's Office Memorandum (OM) dated 10.7.2023 is Rs.0.30 crore, and the cost of the project as per the DPR is Rs.0.42 crore. After completion of the scheme, the Petitioner shall approach the Commission for the determination of transmission charges in accordance with Transmission Licence



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Regulations.

8. The Commission, vide its order dated 18.4.2024, after considering the application of the Petitioner in light of the provisions of the Act and the Transmission Licence Regulations, prima facie proposed to grant a separate transmission licence to the Petitioner to implement the scheme detailed in paragraph 1 of the order. The relevant extracts of the order dated 18.4.2024 are extracted as under:

“26. In the present case, the Petitioner does not fulfil any of the eligibility conditions for the grant of a transmission licence. However, based on the direction issued by the Ministry of Power vide its Order No. 15/3/2017-Trans-Pt (1) dated 9.3.2022, the instant communication scheme has been approved by NCT in its 14th meeting held on 9.6.2023. Therefore, the non-grant of a transmission licence to any agency nominated by NCT to implement a transmission scheme through a regulated tariff mechanism, in view of the provisions of Regulation 6, defeats the purpose of the Policy decision of the Government. We are of the view that considering the strategic importance of the transmission line, it is a fit case for a relaxation of the provisions of Regulation 6 by invoking the power vested under Regulation 24 of the Transmission Licence Regulations.

27. Regulation 24 of the Transmission Licence Regulations, dealing with the power to relax in appropriate cases, provides as under: “24. The Commission may, when it considers necessary or expedient to do so and for reasons to be recorded in writing, relax or depart from any of the provisions of these regulations”.

28. It is an established principle of law that the power to relax has to be strictly construed and is to be exercised judiciously and with caution. Further, the power to relax is to be exercised only when undue hardship is caused by the application of the rules or regulations. In the present case, the Petitioner is a transmission licensee who is already implementing the project defined under its scope through the TCB mechanism. The present Petition is consequent to the office order 9.3.2022 notified by the Ministry of Power, Government of India, wherein NCT is the approving authority for upgradation/modification of existing ISTS communication schemes. Pursuant to the said direction of the Ministry of Power, NCT vide its Office Memorandum dated 7.7.2023 has informed, inter alia, regarding approval of the communication scheme included in the instant Petition in its 14th meeting held on 9.6.2023 and subsequently, CTUIL vide its Office Memorandum dated 10.7.2023 has informed regarding a list of Projects to be implemented or through Regulated Tariff Mechanism, which also includes the communication scheme of the instant Petition.

29. Since the Petitioner is already an inter-State transmission licensee and has been identified as an agency to implement the project as per RTM, the Commission, in the exercise of power under Regulation 24, hereby relaxes the provision of Regulation 6 of the Transmission Licence Regulations and holds that the Petitioner is eligible for the grant of a transmission licence. We, hereby, direct that a public notice under clause (a) of subsection (5) of Section 15 of the Act be published to invite suggestions or objections to grant a transmission licence aforesaid. The objections or suggestions, if any, shall be filed by any person before the Commission by 3.5.2024.”



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9. A public notice under Sub-section (5) of Section 15 of the Act was published on 1.5.2024 in all editions of the Indian Express (English) and Dainik Jagran (Hindi). No suggestions/objections have been received from members of the public in response to the public notice.

**Hearing dated 08.05.2024:**

10. The case was called out for a hearing on 8.5.2024. The learned counsel for the Petitioner submitted that no objection had been received in response to the public notice published by the Commission under sub-section (5) of Section 15 of the Act. Accordingly, it was requested that a separate transmission licence be granted to the Petitioner. Further, in response to the Commission's specific observation of whether there is a requirement to issue a separate transmission licence for the implementation of the communication system element rather than considering it under the scope of Change in Law provisions of the existing Transmission Service Agreement, the learned counsel for the Petitioner, as well as the representative of CTUIL, submitted that the said element would qualify under "works"/"other works" under the definitions of the "Power System"/ "Transmission lines" as provided in the Electricity Act, 2003. Learned counsel, however, stated that the Petitioner, as such, has no objection if the Commission deems it appropriate to consider such element as an additional scope of work under the existing Transmission Service Agreement and provide a suitable mechanism for recovery of its costs while considering it under Change in Law provisions. However, the learned counsel pointed out this approach might lead to a situation where the expenditure incurred towards such an element may not cross the minimum threshold provided for availing the Change in Law relief under the agreement.

11. Considering the submissions made by the learned counsel for the Petitioner and



the representative of CTUIL, the Commission directed the parties to furnish their clarifications within a week in respect of the following and reserved the matter for order:

(a) Clarification as to how the element involved in the instant case would qualify for a grant of the transmission licence.

(b) Explore and submit the other available options for recovering the expenditure to be incurred against the execution of work covered under the present Petition without the grant of the transmission licence.

12. In compliance with the RoP for hearing dated 08.05.2024, the Petitioner vide affidavit dated 11.06.2024 submitted that the element involved in the present Petition was agreed in the 3<sup>rd</sup> Communication Planning meeting of Western Region held on 27.12.2022, 46<sup>th</sup> WRPC meeting held on 03.02.2023 and 14<sup>th</sup> meeting of NCT held on 09.06.2023. Considering the above, the Central Transmission Utility of India Limited, on 01.04.2024, recommended that the Petitioner be granted a transmission licence for executing the said element. Further, this Commission, vide order dated 31.10.2023 passed in Petition No. 217/TL/2023 in the matter of Torrent Powergrid Limited vs Torrent Power Limited and Ors., has been pleased to grant a Transmission Licence to Torrent Powergrid Limited for implementation of FOTE at Pirana (PG) 400 kV Line Bays.

13. The Petitioner has also submitted that the implementation timeframe for the instant communication scheme as per CTUIL OM dated 10.07.2023 is 12 months from the date of allocation of works by NCT, which was done on 07.07.2023, i.e., SCOD is 06.07.2024. Considering the delay in the grant of a separate transmission licence to PBTL under RTM mode, it is proposed that the implementation timeframe may be allowed from the date of issuance of an order of transmission licence by the Commission.



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**Analysis and Decision:**

14. The Petitioner has filed the present Petition seeking a separate transmission licence for the implementation of the communication scheme, namely "Requirement of additional FOTE of STM-16 capacity at Bhuj-II substation to cater to the connectivity of RE Gencos" in Regulated Tariff Mechanism mode.

15. We have considered the submissions of Petitioner and Respondents. The issue that arises for our consideration is whether a separate licence can be granted under the Act and Transmission Licence Regulations, 2009 for the Supply and installation of 01 no. 5 MSP (1+1) FOTE (STM-16 capacity), which is part of a communication system.

16. The relevant provisions under Schedule-2 of the Transmission Service Agreement for the transmission project, namely "Transmission System for providing connectivity to RE Projects at Bhuj-II (2000 MW) in Gujarat," executed by the Petitioner in TBCB mode is as under:

***"Technical Requirement of Communication System***

.....

***Establishment of Bhuj-II PS (GIS)***

***(i) TSP shall provide 96 Fiber FODP and 24F Approach Cable at Bhuj-II PS (GIS) which shall be connected to OPGW on 765 kV Bhuj-II PS(GIS)-Lakadia PS and 765 kV Bhuj-II PS (GIS)-Bhuj PS D/c line.***

***(ii) TSP (Transmission Service Provide) shall provide STM-16 SDH equipment at Bhuj-II PS (GIS) and at repeater stations (if any) along with necessary interfaces to meet the voice and data communication requirement and shall be integrated with the remote end wideband nodes i.e. Bhuj PS & Lakadia S/s.***

....."

As per above, the Petitioner, an existing TBCB licensee, was required to provide STM-16 SDH equipment at Bhuj-II PS (GIS) and at repeater stations (if any) along with necessary interfaces to meet the voice and data communication requirement.



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17. The MoP Guidelines on Planning of Communication System for Inter-State Transmission System (ISTS) dated 09.03.2022 provides as under:

*"Guidelines on Planning of Communication System for Inter-State Transmission System (ISTS)*

4. Categorization of Communication Schemes/Packages Communication Schemes/Packages under this policy are categorized as Category (A) and Category (B). The description of categories is as under:

**Category (A):** Communication system directly associated with new ISTS as well as incidental due to implementation of new ISTS elements (e.g. LILO of existing line on new/existing S/s where OPGW/terminal equipment are not available on the existing main line/substations etc.)

**Category (B):** Upgradation/modification of existing ISTS Communication system pertaining to following:

- Missing Links
- Redundancy/ System Strengthening
- **Capacity upgradation (Terminal equipment)**
- Completion of life of existing communication system elements
- Other standalone project e.g. Cyber Security, Unified Network Management System (UNMS)
- Adoption of New Communication Technologies

#### **5. Procedure for approval of Communication Schemes/Packages**

**Category (A):** As planning of ISTS Communication System is an integral part of planning of new Inter-State Transmission System, the requirement for communication system linked with new ISTS shall be included in new ISTS package and combined proposal shall be approved as per the directions contained in MoP office order dated 28.10.2021 regarding Re-constitution of the "National Committee on Transmission" (NCT).

Further, Communication requirements which are incidental due to implementation of new ISTS elements (e.g. LILO of existing line on new/existing S/s where OPGW/Terminal Equipment are not available on the existing main line/substations etc.) are also to be approved alongwith that of respective transmission system package.

**Category (B):** Communication Schemes/ Packages proposed by CTUIL for upgradation/ modification of existing ISTS Communication System, standalone projects, adoption of new technologies shall be put up to RPC for their views. RPC to provide their views on the Schemes/Packages proposed by CTUIL within 45 days of receipt of the proposal from CTUIL. The Schemes/Packages along-with the views of RPC shall be approved by NCT."

As per the above, the Guidelines on Planning of Communication Systems enjoin upon



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transmission licensees to upgrade/ modify the existing ISTS Communication system, for capacity upgradation.

18. The requirement of an additional 01 no. 5 MSP (1+1) FOTE (STM-16 capacity) at Bhuj-II station to cater to the data volume of increasing RE connectivity was discussed in the 46<sup>th</sup> WRPC meeting held on 03.02.2023. The relevant extract of minutes of the 46<sup>th</sup> WRPC meeting is as under:

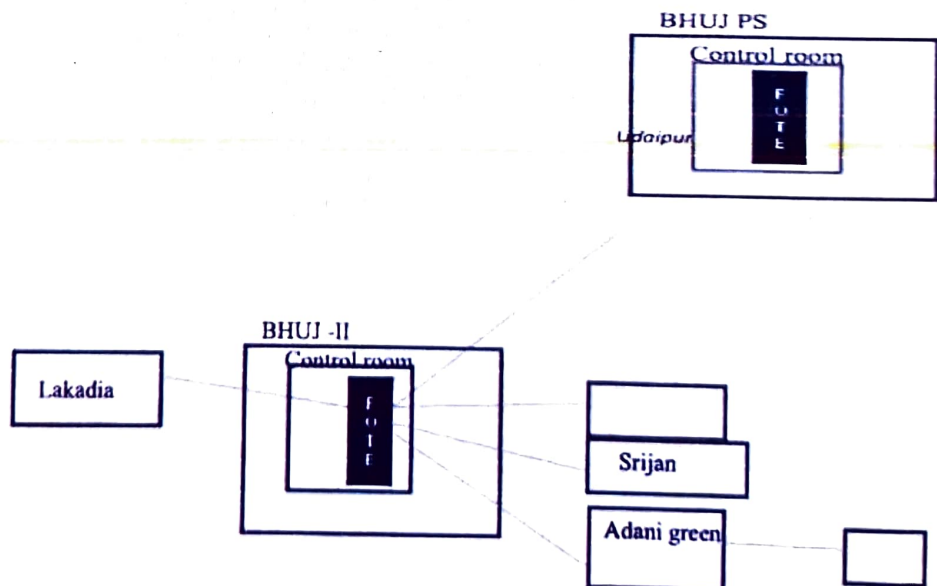
**"Item no. 19. Requirement of additional FOTE at Bhuj PS and Bhuj-II stations to cater data volume of increasing RE connectivity**

*Background:*

.....

**Bhuj-II Sub-station**

Similarly, in Bhuj-II substation, presently 1 no STM-16 SDH equipment with 5-MSP (Multiplex Section Protection) is installed, which is catering to communication link with Bhuj PS and Lakadia. Recently, connectivity to 04 nos RE generators (SITAC, Adani, Srijan, Inox) have been granted by CTU at Bhuj-II and many more to come in near future. Therefore, 01 no. additional STM-16 SDH equipment with 5-MSP is required at Bhuj-II



*In view of the above, the following scheme is proposed:*

S. No.	Items	Details
7.	Name of Scheme	Requirement of FOTE of STM-16 level at Bhuj PS and Bhuj-II substations to cater connectivity of RE Gencos
8.	Scope of Scheme	4. Supply and installation of  a) 01 number 10 MSP (1+1) FOTE or 02 No. 5 MSP (1+1) FOTE (STM-16 level) at Bhuj PS b) <b>01 No. FOTE (STM-16, 5 MSP 1+1) at Bhuj-II station.</b>
9.	Schematic Diagram	As shown above
10.	Estimated Cost	Rs. 90 lac. (approx.) excluding GST.  On approval, Same shall be included by POWERGRID in their ongoing Western region communication system strengthening scheme for WR
11.	Implementation Timeframe	Approx. 12 months from the date of allocation.
12.	Implementation Mode	Though POWERGRID-RTM as both the stations are under POWERGRID ownership

The scheme was discussed in the 7<sup>th</sup> SCADA committee and recommended the same for implementation and suggested the matter may be put in ensuing WRPC/TCC for necessary approval.

**46<sup>th</sup> TCC Discussions:**

MS WRPC informed the additional FOTE at Bhuj PS and Bhuj-II stations was approved in the 7<sup>th</sup> SCADA committee.

CTU representative informed that Bhuj II Substation was awarded as a TBCB project to PBTL, hence the project implementation SPV would be given to PBTL in RTM mode. Further it was informed that the information regarding TBCB project awarded to PBTL was inadvertently missed in the SCADA committee meeting. The same may be noted in the TCC.

The 46<sup>th</sup> TCC/WRPC approved the above scheme.”

As per the above, the requirement of 1 no. additional FOTE at Bhuj-II PS arose for catering to the communication link of new connectivity grantees at Bhuj-II PS.

19. The subject scheme was approved in the 14th NCT meeting dated 09.06.2023 under Regulated Tariff Mode (RTM) to be implemented by the Petitioner. The relevant extracts of the 14th NCT minutes are as follows:

“3.7 Requirement of additional FOTE of STM-16 capacity at Bhuj-II substation to cater connectivity of RE Gencos.



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3.7.1 To connect 6 number of RE generators (Inox, Vadava Desalpar, Narayanpar, Adani Ratadia, Renew Power, Alfanar Energy) directly to existing FOTE at Control Room of Bhuj PS maintaining MSP (1+1) and for making independent connectivity for upcoming generators at this station, Additional STM-16 capacity SDH equipment is required

3.7.2 The "Requirement of additional FOTE of STM-16 capacity at Bhuj II to cater connectivity of RE Gencos", has been deliberated in 46<sup>th</sup> TCC/WRPC meeting. WRPC concurred the proposal of "Requirement of additional FOTE of STM-16 capacity at Bhuj II to cater connectivity of RE Gencos" at estimated cost of Rs 30 Lacs.

**3.7.3 After detailed deliberations, the scheme was approved to be implemented under RTM mode by M/s PBTL.**

3.7.4 Summary of the scheme is given below:

Sl. No.	Name of the scheme and implementation timeframe	Estimated Cost (Rs. Crores)	Remarks
1	Requirement of additional FOTE of STM16 capacity at Bhuj-II substation to cater connectivity of RE Gencos Implementation timeframe: 12 months from date of allocation	0.3	Approved to be implemented under RTM mode by M/s PBTL

3.7.5 Detailed Scope of the Scheme is given below:

Sl. No.	Scope of the Scheme	Estimated Cost
1	Supply and installation of 01 number 5 MSP (1+1) FOTE (STM-16 capacity) at Bhuj-II station.	Rs. 30 lakhs

20. The Petitioner has prayed for the grant of separate transmission under Section 14 of the Electricity Act, 2003 and 2009 Transmission Licence Regulations.

21. In a similar matter vide Order dated 16.06.2024 in Petition No. 133/TL/2024, Commission directed as follows:

"Petitioner has prayed for the grant of separate transmission under Section 14 and Section 15 of the Electricity Act, 2003 and 2009 Transmission Licence Regulations. The relevant extracts of the Act are as under:

**"Section 2. (Definitions):** --- In this Act, unless the context otherwise requires:

... ..

(72) "transmission lines" means all high pressure cables and overhead lines (not being an essential part of the distribution system of a licensee) transmitting electricity from a generating station to another generating station or a substation, together with any step-up and step-down transformers, switch-gear and other works necessary to and used for the control of such cables or overhead lines, and such buildings or part thereof

as may be required to accommodate such transformers, switch-gear and other works;

(73) "transmission licensee" means a licensee authorised to establish or operate transmission lines;

(74) "transmit" means conveyance of electricity by means of transmission lines and the expression "transmission" shall be construed accordingly;

.....  
**Section 12. (Authorised persons to transmit, supply, etc., electricity):**

No person shall

(a) transmit electricity; or

(b) distribute electricity; or

(c) undertake trading in electricity,

unless he is authorised to do so by a licence issued under section 14, or is exempt under section 13.

.....  
**Section 14. (Grant of Licence):**

The Appropriate Commission may, on an application made to it under section 15, grant a licence to any person--

(a) to transmit electricity as a transmission licensee; or

(b) to distribute electricity as a distribution licensee; or

(c) to undertake trading in electricity as an electricity trader, in any area as may be specified in the licence.

**Section 15. (Procedure for grant of licence):**

(1) Every application under section 14 shall be made in such form and in such manner as may be specified by the Appropriate Commission and shall be accompanied by such fee as may be prescribed.

.....  
As per the above, a transmission licence can be granted for the purpose of transmission of electricity, which means conveyance of electricity by means of transmission lines.

27. We observe that the function of earthwire or OPGW is the protection of the transmission line, and OPGW additionally functions as a communication system to transmit 'data.' The function of OPGW is not a conveyance of electricity but the protection of the transmission line and hence does not qualify as a separate transmission element. Since a transmission licence can be granted to a transmission element that transmits electricity, the instant scheme for installation of OPGW in replacement of earth wire already set up doesn't conform to the Electricity Act, 2003 for the grant of a separate transmission licence.

28. We observe that the transmission licence for 765/400 kV Pune (PG) (GIS) – 400 kV Parli (PG) line has already been issued to the Petitioner, and the scope of works therein already included the earthwire, which is now required to be replaced with OPGW. Since earthwire was an integral part of the transmission licence issued for the 765/400 kV Pune (PG) (GIS) – 400 kV Parli (PG) line, replacement work shall also be covered within the same licence, and hence neither there is a requirement to amend the licence nor seek an additional licence.



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29. We observe that the replacement of Earthwire with OPGW in light of the 16<sup>th</sup> NCT meeting dated 30.11.2023 for the purpose of facilitating communication from the Kallam substation is additional scope of work for the licensee, and the expenditure towards the same is required to be allowed to the licensee.

30. We direct that the Petitioner shall implement the scheme as per the scope of work approved by the NCT and awarded to the Petitioner. After implementation of the scheme, the Petitioner is required to approach the Commission for approval of such expenditure along with audited data of the expenditure and details of competitive bidding carried out for the implementation of the scheme. The modalities of recovery of such expenditure shall be decided by the Commission in the application to be made by the Petitioner for approval of such expenditure.”

As per the above, it was observed that the function of OPGW is not a conveyance of electricity but the protection of the transmission line and, hence, does not qualify as a separate transmission element. Since a transmission licence can be granted to a transmission element that transmits electricity, the instant scheme for installation of OPGW in replacement of earth wire already set up does not conform to the Electricity Act, 2003, for the grant of a separate transmission licence.

31. In the instant case, we observe that the transmission licence for the transmission project, namely “Transmission System for providing connectivity to RE Projects at Bhuj-II (2000 MW) in Gujarat,” has already been granted to the Petitioner, which has already been executed by the Petitioner. The FOTE (Fiber Optic Terminal Equipment) at Bhuj-II PS is an integral part of the communication system of the above transmission scheme and is already covered under the existing licence. The function of FOTE equipment is not a conveyance of electricity but to transmit the communication data of the transmission line and hence does not qualify as a separate transmission element. Since a transmission licence can be granted to a transmission element that transmits electricity, the instant element does not fulfill the requirements for the grant of a separate transmission licence under the Electricity Act, 2003. The additional FOTE equipment is awarded to the Petitioner for installation at Bhuj- II PS, to facilitate the integration of data volume of increasing RE connectivity at Bhuj-II, shall be part of the communication system of the Bhuj-II PS and



*[Handwritten signature]*

shall be covered under the existing licence as an additional scope. Hence, there is neither a requirement to amend the licence nor seek an additional licence for the upgradation of communication equipment.

32. We have also perused Order dated 31.10.2023 passed in Petition No. 217/TL/2023 referred to by the Petitioner regarding the transmission licence for the implementation of FOTE at Pirana (PG) 400 kV Line Bays. We observe that the said Petition regarding transmission licence included a number of transmission elements where FOTE was also covered, whereas in the instant Petition transmission licence is being sought only for FOTE i.e., upgradation of communication equipment.

33. We observe that the function of the FOTE (Fiber Optic Terminal Equipment) is to meet the voice and data communication requirement at substations, and the requirement of 01 number 5 MSP (1+1) FOTE (STM-16 capacity) at Bhuj-II station is for the purpose of facilitating the integration of data volume of increasing RE connectivity at Bhuj-II PS which has been approved by the 14<sup>th</sup> NCT on 09.06.2023, which is an additional scope of work for the licensee, and the expenditure towards the same is required to be allowed to the licensee.

22. We direct that the Petitioner shall implement the scheme as per the scope of work approved by the NCT and awarded to the Petitioner. After implementation of the scheme, the Petitioner is required to approach the Commission for approval of such expenditure along with audited data of the expenditure and details of competitive bidding carried out for the implementation of the scheme. The modalities of recovery of such expenditure shall be decided by the Commission in the application to be made by the Petitioner for approval of such expenditure.

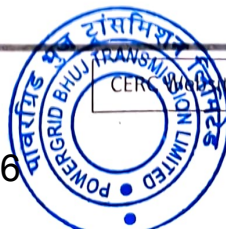


34. The Petitioner has submitted that the implementation timeframe for the instant communication scheme is 06.07.2024 and that considering the delay in granting of separate transmission license to PBTL under RTM mode, it is proposed that the implementation timeframe may be allowed from the date of issuance of an order of transmission licence by the Commission. We have considered the submissions of the Petitioner. We observe that the NCT vide letter dated 07.07.2023 awarded the subject communication scheme to the CTUIL for implementation through the Petitioner, and subsequently, CTUIL vide letter dated 10.07.2023 instructed the Petitioner to initiate necessary action for the implementation of the subject scheme. The implementation time frame of the subject communication scheme is 12 months from the date of allocation by the NCT, i.e., up to 06.07.2024. However, the Petitioner approached this Commission for a grant of the transmission licence through the instant Petition during the month of January 2024, i.e., approx. six months after the date of allocation. Hence, there was a delay on the part of the Petitioner in approaching this Commission. However, considering that the scheduled timeline has already expired on 6.07.2024, we direct the CTUIL to communicate the implementation schedule to the petitioner, keeping in view the timeframe of requirement of the subject scheme.

14. Petition No. 44/TL/2024 is disposed of in terms of the above.

Sd/  
(Arun Goyal)  
Member

Sd/  
(Jishnu Barua)  
Chairperson



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**पावरग्रिड भुज ट्रांसमिशन लिमिटेड**  
(पावरग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड, भारत सरकार का उपक्रम, की 100% पूर्ण स्वामित्व वाली एक सहायक कंपनी)  
**POWERGRID BHUJ TRANSMISSION LIMITED**

Ref. No: WR-II/PBTL/Bhuj-II/Addl FOTE/DOCO/16082024

Date: 16.08.2024

To,  
As per Distribution List.

**NOTIFICATION OF DOCO**

Subsequent to completion of successful Trial Operation of Communication Equipment duly certified by WRLDC vide letter ref no. WRLDC/LO/GM/1308/2024 dated 13.08.2024, it is hereby intimated that the following asset under the scheme “**Requirement of Additional FOTE of STM-16 Capacity at Bhuj-II Substation to cater to connectivity of RE Gencos**” entrusted to M/s POWERGRID Bhuj Transmission Limited (PBTL) under RTM mode has been successfully commissioned and put under commercial operation **wef 00:00 hrs of 01.08.2024** in terms of clause no.5(1), chapter-2 of CERC (Terms and conditions of Tariff) Regulations, 2024 and clause no. 27(1)(d), chapter-2 of IEGC Regulations, 2023.

S. No.	Name of the Communication Equipment	DOCO
1	Additional FOTE of STM-16 capacity (5-MSP, Tejas make) at Bhuj – II	00:00 hrs of 01.08.2024

Transmission charges of the above-mentioned asset is payable with effect from **1<sup>st</sup> August, 2024**.

**List of Distribution:**

1. Member Secretary, WRPC, F-3, M.I.D.C Area, Andheri (East), Mumbai - 400093.
2. Managing Director, MPPTCL, Shakti Bhavan, MPSEB colony, Rampur, Jabalpur, Madhya Pradesh - 482008.
3. Managing Director, MPPMCL, E-4, Arera colony, Bhopal, Madhya Pradesh - 462016.
4. Managing Director, MSEDCL, Prakashgadh, Bandra (East), Mumbai – 400051.
5. Managing Director, GUVNL, Sardar Patel Vidyut Bhavan, Race Course, Vadodara, Gujarat-390007.
6. Managing Director, CSPTCL, Sewa Bhavan, Dangania, Raipur, Chhattisgarh-492013.
7. Executive Director, WRLDC, POSOCO, F-3, M.I.D.C Area, Andheri (East), Mumbai - 400093.
8. CEO (CTUIL), Gurgaon.
9. Chief Engineer, GOA Electricity Department, Panjim, Goa - 403001.
10. Executive Engineer, Electricity Department, Daman and Diu, Moti Daman, Daman.
11. Executive Engineer, Electricity Department, Dadra & Nagar Haveli, Silvassa.
12. Vice President, Dadra & Nagar Haveli and Daman and Diu Power Distribution Corporation Ltd (DNHDDPDCL), 1<sup>st</sup> and 2<sup>nd</sup> Floor, Vidyut Bhavan, Next to Secretariat building, 66kV road, Dadra and Nagar Haveli and Diu and Daman, Silvassa - 396230

(B. K. Pradhan) K. Pradhan  
Project In-charge (PBTL) Project Incharge  
परियोजना प्रभारी / Project Incharge  
पावरग्रिड भुज ट्रांसमिशन लिमिटेड  
POWERGRID BHUJ TRANSMISSION LIMITED

ऑफिस : प्लॉट नं.-16, रयान रेजिडेंसी, सेवेन स्काई रिंग रोड, तालुका-भुज, जिला-कच्छ (गुजरात) -370001, ई-मेल: tbcg.pbtl@gmail.com मो.नं.: 07226994838.  
Office : Plot No.-16,Ryan Residency ,Seven Sky ring Road, Taluka-Bhuj, Dist.: Kutch (Gujarat)-370001, Email: tbcg.pbtl@gmail.com Mo. No.: 0722699483  
केन्द्रीय कार्यालय: "सौदामिनी", प्लॉट नं.-2, गुरुग्राम-122001 (हरियाणा) दूरभाष:0124-2571700-719.  
Corporate Office: "Saudamini", Plot No.-2, Sector -29, Gurugram-122001 (Haryana) Tel.: 0124-2571700-719.  
पंजीकृत कार्यालय: बी-9, कुतुब इंस्टीट्यूशनल कटवारिया सराय, नई दिल्ली-110 016. दूरभाष: 26560000/26560001 मो.नं.: L40101DL1989GOI038121.  
Registered Office: B-9, Qutub Institutional Area, Katwaria Sarai, New Delhi-110 016. Tel. 26560000/26560001 मो.नं.: L40101DL1989GOI038121.  
Website: www.powergrid.in

NOO :

1. CMD, POWERGRID, CC, Gurgaon.
2. Director (Projects), POWERGRID, CC, Gurgaon.
3. Director (Finance), POWERGRID, CC, Gurgaon.
4. Director (Operation), POWERGRID, CC, Gurgaon.
5. Director (Pers.), POWERGRID, CC, Gurgaon
6. ED (PMD), POWERGRID, CC, Gurgaon
7. ED (F&A), POWERGRID, CC, Gurgaon
8. ED (Commercial), POWERGRID, CC, Gurgaon
9. ED(Engg), POWERGRID, CC, Gurgaon
10. ED (AM), POWERGRID, CC, Gurgaon
11. ED (Telecom), POWERGRID, Katwaria Sarai, New Delhi
12. ED(TBCB), POWERGRID, CC, Gurgaon
13. ED(PESL), POWERGRID, CC, Gurgaon
14. Company Secretary, CC, Gurgaon.
15. CGM(PESM-CommI-Engg), WR-II, POWERGRID, Vadodara
16. CGM (AM) WR-II, POWERGRID, Vadodara.
17. CGM (Projects), WR-II, POWERGRID, Vadodara.
18. CGM (Finance), WR-II, POWERGRID, Vadodara.
19. GM (PESM), WR-II, POWERGRID, Vadodara
20. STA to ED (WR-II), POWERGRID, Vadodara.

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ऑफिस : प्लॉट नं.-16, रयान रेजिडेंसी, सेवेन स्काई रिंग रोड, तालुका-भुज, जिला-कच्छ (गुजरात) -370001, ई-मेल: [tbc.pbt@gmail.com](mailto:tbc.pbt@gmail.com) मो.नं.: 07226994838.

Office : Plot No.-16,Ryan Residency ,Seven Sky ring Road, Taluka-Bhuj, Dist.: Kutch (Gujarat)-370001, Email: [tbc.pbt@gmail.com](mailto:tbc.pbt@gmail.com) Mo. No.: 0722699483

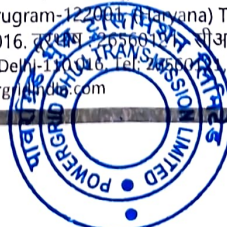
केन्द्रीय कार्यालय: "सौदामिनी", प्लॉट नं.-2, गुरुग्राम-122001 (हरियाणा) दूरभाष:0124-2571700-719.

Corporate Office: "Saudamini", Plot No.-2, Sector -29, Gurugram-122001 (Haryana) Tel.: 0124-2571700-719.

पंजीकृत कार्यालय: बी-9, कुतुब इंस्टीट्यूशनल कटवारिया सराय, नई दिल्ली-110 016. दूरभाष: 011-26111111 सीआईएन: L40101DL1989GOI038121.

Registered Office: B-9, Qutub Institutional Area, Katwaria Sarai, New Delhi-110 016. दूरभाष: 011-26111111 सीआईएन: L40101DL1989GOI038121.

Website: [www.powergrid.co.in](http://www.powergrid.co.in)



*[Handwritten Signature]*



ग्रिड-इंडिया  
GRID-INDIA

ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड  
(भारत सरकार का उद्यम)  
GRID CONTROLLER OF INDIA LIMITED  
(A Government of India Enterprise)

[formerly Power System Operation Corporation Limited (POSOCO)]

पश्चिम क्षेत्रीय भार प्रेषण केन्द्र / Western Regional Load Despatch Centre

कार्यालय : एफ-3, एम. आई. डी. सी. क्षेत्र, मरोल, अंधेरी (पूर्व), मुंबई-400093

Office : F-3, M.I.D.C. Area, Marol, Andheri (East), Mumbai- 400093

CIN : U40105DL2009GOI188682, Website : www.wrlc.in, E-mail : wrlc@grid-india.in, Tel: 022 28202690, Fax: 022 28235434, 28202630

सर्टिफिकेट संख्या : WRLDC/LO/GM/1308/2024

दिनांक: 13.08.2024

संचार उपकरण की सफल कमीशनिंग के लिए परीक्षण संचालन प्रमाण पत्र

Trial Operation Certificate for successful commissioning of communication equipment

**संदर्भ/Reference:**

- Communication via email dated 07.08.2024 and 12.08.2024 from Transmission Licensee to RLDC in Format-I and IA.
- Communication from POWERGRID to RLDC through mail dated 07.08.2024 and 12.08.2024 in Format III, IIIA, IIIB and IIIC regarding confirmation of telemetry and voice.

उपरोक्त संदर्भ के आधार पर, यह प्रमाणित किया जाता है कि संबंधित स्थानों से पंक्षेभांप्रेके या बैकअप पंक्षेभांप्रेके पर डेटा और वॉयस रिपोर्टिंग के साथ निम्नलिखित संचार उपकरण सफलतापूर्वक चालू कर दिए गए हैं।

Based on the above reference, it is hereby certified that the following communication equipment have been successfully commissioned with data and voice reporting at WRLDC or Backup WRLDC from locations mentioned in the table below.

I. उपकरण की सूची / List of Equipment :

क्र०	संचार लिंक / तंत्र का नाम	पूरा करने की तिथि
Sr. No.	Name of Communication Equipment	Completion Date
1	SDH STM-16 MSP-5, Tejas Make (3 <sup>rd</sup> FOTE) at Bhuj II under 14th meeting of NCT held on 09th June, 2023	31.07.2024

**नोट/NOTE:**

- इस उपकरण का उपयोग भुज II के वॉयस और टेलीमेट्री के लिए हो रहा है।  
This equipment is being used for reporting of voice and telemetry of Bhuj II

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Page 1 of 2

पंजीकृत कार्यालय : बी- 9, प्रथम तल, कुतुब इंस्टीट्यूशनल एरिया, कानपुरा सराय, दिल्ली-110016  
Registered Office : B-9, 1<sup>st</sup> Floor, Qutab Institutional Area, Kanpura Sarai, Delhi- 110016  
Website : www.grid-india.in



सर्टिफिकेट संख्या : WRLDC/LO/GM/1308/2024

दिनांक: 13.08.2024

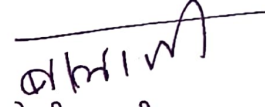
संचार उपकरण की सफल कमीशनिंग के लिए परीक्षण संचालन प्रमाण पत्र

Trial Operation Certificate for successful commissioning of communication equipment

यह प्रमाणपत्र सी०ई०आर०सी० (टैरिफ के नियम और शर्त), 2024 के विनियम 5 के और आई०ई०जी०सी० खंड 25 के अनुसार जारी किया जा रहा है, यह प्रमाणित करने के लिए कि उपर्युक्त संचार प्तात्व को संबंधित नियंत्रण केंद्र को आवाज और डेटा के हस्तांतरण सहित साइट स्वीकृति परीक्षण के पूरा होने के बाद (लाइसेंसधारी द्वारा घोषित) सेवा में डाल दिया गया है।

This certificate is being issued in accordance with Regulation 5 of CERC(Terms and Conditions of Tariff) Regulations, 2024 and IEGC clause 25 to certify that the above-mentioned communication element has been put into service after completion of site acceptance test (as declared by licensee) including transfer of voice and data to respective control centre.

किसी अन्य उद्देश्य के लिए इस प्रमाण पत्र का उपयोग निषिद्ध है।  
Usage of this certificate for any other purpose is prohibited.

  
वेलूरी बालाजी  
(कार्यपालक निदेशक)

प्रति:

1. मुख्य महाप्रबंधक (परिसंपत्ति प्रबंधन), पश्चिम क्षेत्र-  
II, पी०जी०सी०आई०एल०

प्रतिलिपि:

1. सदस्य सचिव, पश्चिम क्षेत्रीय विद्युत  
समिति
2. कार्यकारी निदेशक, राष्ट्रीय भार प्रेषण  
केंद्र







## सेंट्रल ट्रांसमिशन यटिलिटी ऑफ इंडिया लिमिटेड

(पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड के स्वामित्व में)  
(भारत सरकार का उद्यम)

**CENTRAL TRANSMISSION UTILITY OF INDIA LTD.**  
(A wholly owned subsidiary of Power Grid Corporation of India Limited)  
(A Government of India Enterprise)

Ref. No.: CTUIL/OM/18/22<sup>nd</sup> NCT

02<sup>nd</sup> September 2024

As per distribution list

**Sub: Implementation of ISTS Transmission/Communication Schemes approved by NCT in its 22<sup>nd</sup> meeting held on 23<sup>rd</sup> August 2024 under Regulated Tariff Mechanism (RTM).**

NCT vide letter dated 02.09.2024 has awarded various ISTS Transmission/Communication schemes for its implementation under RTM mode by the respective implementing agencies as indicated in the table below:

Sl. No.	Transmission Schemes	Implementing Agency
<b>I. ISTS Transmission schemes approved by NCT</b>		
1.	Eastern Region Expansion Scheme-43 (ERES-43)	POWERGRID
2.	Additional Transmission System proposed for redundant power supply to Dholera area	POWERGRID
<b>II. ISTS Communication schemes approved by NCT</b>		
1.	Scheme for requirement of Additional FOTE for redundancy at AGC locations in NER: Revised	POWERGRID
2.	Optical Fibre Connectivity for NLDC new building, August Kranti Marg, New Delhi	POWERGRID

**NCT approved the modification in the earlier approved/notified transmission schemes as follows:**

1. Modification in timeframe of one of the elements in the scope of 'Transmission system for offshore wind zone phase-1 (500 MW VGF off coast of Gujarat for subzone B3)'

Sl. No.	Scope	Approved Timeline of Transmission Scheme (As per 20 <sup>th</sup> NCT)	Revised Timeline
1.	Creation of 400kV switchyard along with Installation of 2*1500MVA, 765/400kV ICTs at Vataman (AIS) with 2*125 MVA (420kV) Bus Reactors <ul style="list-style-type: none"> <li>• 765/400kV, 1500MVA, ICTs – 2 nos. (7*500MVA incl. Spare unit)</li> <li>• 765kV ICT Bays – 2 nos.</li> <li>• 400kV ICT Bays – 2 nos.</li> <li>• 125 MVA, 420kV Bus Reactor – 2 nos.</li> <li>• 400kV Bus Reactor bay – 2 nos.</li> </ul>	March -2029	18 Months

"सौदामिनी", प्रथम तल, प्लॉट सं.2, सेक्टर-29, गुरुग्राम- 122001 (हरियाणा), दूरभाष: 0124-2822000, सीआईएन: U40100HR2020G0I091857

"Saudamini", 1st Floor, Plot No. 2, Sector-29, Gurugram-122001 (Haryana), Tel.: 0124-2822000, CIN: U40100HR2020G0I091857

Website: <https://www.ctuil.in>



*[Handwritten Signature]*

2. NCT approved the Time Extension for Communication Scheme "Requirement of additional FOTE of STM-16 capacity at Bhuj-II substation to cater connectivity of RE Gencos" approved in 14<sup>th</sup> NCT from 12 Months from the date of allocation to 18 Months from the date of allocation i.e. 07.07.2023

Copy of NCT letter dated 02.09.2024 is enclosed. The detailed scope of work along with implementation time frame for the above Transmission/Communication Schemes shall be as per the enclosed NCT letter and Minutes of the 22<sup>nd</sup> meeting of NCT.

The implementing agency shall enter into a concession agreement with CTUIL for implementation of the aforementioned Transmission Schemes. However, pending finalization of Concession Agreement, it is requested to initiate necessary actions for implementation of the aforementioned Transmission Schemes.

This is for your kind information and necessary action, please.

Thanking you.

Yours faithfully,



(Partha Sarathi Das)  
Sr. General Manager

Encl.: as stated.



**Distribution List:**

<b>1. The Chairman &amp; Managing Director</b> Power Grid Corporation of India Ltd., Saudamini, Plot No. 2, Sector-29, Gurgaon- 122 001	<b>2. CGM (TBCB)</b> POWERGRID Bhuj Transmission Ltd. (a subsidiary of Power Grid Corporation of India Ltd.) Power Grid Corporation of India Ltd., Saudamini, Plot No. 2, Sector-29, Gurgaon- 122 001.
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भारत सरकार  
Government of India  
विद्युत मंत्रालय  
Ministry of Power  
केन्द्रीय विद्युत प्राधिकरण  
Central Electricity Authority  
विद्युत प्रणाली योजना एवं मूल्यांकन प्रभाग-II  
Power System Planning & Appraisal Division-II

सेवा में / To

Chief Operating Officer, CTUIL  
Saudamini, Plot No. 2,  
Sector-29, Gurgaon-122001

**विषय/Subject: Implementation of ISTS Transmission/Communication Schemes approved by NCT in its 22<sup>nd</sup> meeting held on 23.08.2024- regarding**

महोदय/Sir,

The undersigned is directed to inform that NCT has approved implementation of the following ISTS Transmission and Communication Schemes in its 22<sup>nd</sup> meeting held on 23.08.2024, in line with MoP office order dated 28.10.2021 and MoP Guidelines dated 09<sup>th</sup> March, 2022, to be implemented through Regulated Tariff Mechanism (RTM) route by agency as indicated below:

**I. Modification in the earlier approved/notified transmission schemes:**

- 1. Modification in timeframe of one of the elements in the scope of "Transmission system for offshore wind zone phase -1 (500 MW VGF off coast of Gujarat for subzone B3)"**

MoP vide OM dated 20.08.2024 has awarded the transmission system for 500 MW offshore wind in Gujarat to CTUIL for their implementation under RTM mode by POWERGRID. CTUIL vide letter dated 20.08.2024 to POWERGRID forwarded MoP's referred OM and informed regarding allocation of the offshore 500 MW Scheme under RTM mode

NCT approved the modifications in timeframe of one of elements in the scope of "Transmission system for offshore wind zone phase -1 (500 MW VGF off coast of Gujarat for subzone B3):

Scope	Approved Timeline of Transmission Scheme (As per 20 <sup>th</sup> NCT)	Revised timeline

सेवा भवन, आर. के. पुरम-I, नई दिल्ली-110066 टेलीफोन : 011-26732325 ईमेल: cea-pspa2@gov.in वेबसाइट: www.cea.nic.in  
Sewa Bhawan, R.K Puram-I, New Delhi-110066 Telephone: 011-26732325, Email: cea-pspa2@gov.in Website: www.cea.nic.in



*Handwritten signature*



<p>Creation of 400kV switchyard along with Installation of 2x1500 MVA, 765/400 kV ICTs at Vataman (AIS) with 2x125 MVAR (420 kV) Bus Reactors</p> <ul style="list-style-type: none"> <li>• 765/400kV, 1500 MVA, ICTs – 2 nos. (7x500MVA incl. spare unit)</li> <li>• 765kV ICT bays – 2 nos.</li> <li>• 400kV ICT bays – 2 nos.</li> <li>• 2x125 MVAR, 420kV Bus Reactor – 1 no.</li> <li>• 400 kV Bus Reactor bay – 2 no.</li> </ul>	March-2029	18 Months
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CTUIL is requested to incorporate the changed timeline.

**2. Time extension for Communication Scheme “Requirement of additional FOTE of STM-16 capacity at Bhuj-II substation to cater connectivity of RE Gencos” approved in 14th NCT**

NCT approved the Time extension for Communication Scheme “Requirement of additional FOTE of STM-16 capacity at Bhuj-II substation to cater connectivity of RE Gencos” approved in 14th NCT from 12 months from the date of allocation to **18 months** from the date of allocation i.e. 07.07.23.

CTU is requested to intimate the implementing Agency

**II. ISTS schemes costing between Rs. 100 Crs. To Rs. 500 Crs. approved by NCT under RTM route:**

Sl. No.	Name of Transmission Scheme	Implementation Mode	Implementation timeframe	Estimated Cost (₹ Cr)
1.	Eastern Region Expansion Scheme-43 (ERES-43)	RTM through POWERGRID	18 months (15 months on best effort basis)	310.28
2.	Additional Transmission System Proposed for redundant power supply to Dholera area	RTM through POWERGRID	18 months matching with Creation of 400 kV switchyard along with Installation of 2x1500 MVA, 765/400 kV ICTs at Vataman (AIS) S/s being implemented	110



			under "Transmission system for offshore wind zone phase -1 (500 MW VGF off coast of Gujarat for subzone B3)" scheme.	
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### III. ISTS Communication schemes approved by NCT:

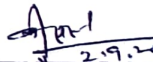
Sl. No.	Name of Transmission Scheme	Implementation Mode	Tentative Implementation timeframe	Implementing Agency	Estimated Cost (Rs. Crs)
1.	Scheme for Requirement of Additional FOTE for redundancy at AGC locations in NER: Revised	RTM	6 months from the date of allocation	POWERGRID	0.90
2.	Optical Fibre Connectivity for NLDC new building, August Kranti Marg, New Delhi	RTM	12 months from the date of allocation	POWERGRID	7.2

The above schemes awarded to CTUIL for implementation under RTM mode. CTUIL is requested to take necessary action for entering into a concession agreement with the respective agency for implementation of the above schemes.

**CTU is requested to intimate the implementing Agency.** Detailed scope of the schemes are as per minutes of the meeting. Copy of the minutes are enclosed.

Encl.: As above.

भवदीय / Yours faithfully,

  
(बी.एस. बेरवा/ B.S. Bairwa)

मुख्य अभियन्ता (इंचार्ज) एवं सदस्य सचिव, एन.सी.टी./  
Chief Engineer (I/C) & Member Secretary (NCT)

Copy to:

Joint Secretary (Trans), Ministry of Power, Shram Shakti Bhawan, New Delhi-110001





Manish Shah  
B.Com., F.C.A.

Yogesh Bhandari  
B.Com., F.C.A. DISA(ICA)

Nishadh Dave  
B.Com., F.C.A.

**Shah & Bhandari**  
Chartered Accountants

38/101 Gautam Nagar,  
Race Course, Vadodara - 390 007  
Telefax +91 265 2359398, 2339727  
Email: shahbhandari@gmail.com



### CERTIFICATE

This is to certify that we have verified the relevant records and other documents of **Power Grid Bhuj Transmission Limited** having its Registered Office at Plot No. 54, Beside Riya-Revti Resort, Opp. Ambe Vidhyalaya, Sama-Savli Road, Vadodara, Gujarat - 390024 and on the basis of our verification, we certify that Capital Cost for "Additional FOTE of STM-16 capacity (5-MSP, Tejas make) at Bhuj - II" under "Requirement of Additional FOTE of STM-16 Capacity at Bhuj-II Substation to cater to connectivity of RE Gencos" of Powergrid Bhuj Transmission Limited, which is under commercial operation w.e.f. 01.08.2024 is detailed as under:

(Rs. In Lacs)

Sr No	Particulars	Capital Cost	IEDC	IDC	Total
1	Expenditure up to 31.03.2024	0.00	1.00	0.00	1.00
2	Expenditure from 01.04.2024 to 31.07.2024 (up to DOCO)	0.00	0.00	0.00	0.00
3	Expenditure from 01.08.2024 to 30.09.2024	0.00	0.00	0.00	0.00
4	Estimated Expenditure from 01.10.2024 to 31.03.2025	34.36	0.00	0.00	34.36
5	Estimated Expenditure from 01.04.2025 to 31.03.2026	0.00	0.00	0.00	0.00
	<b>Total</b>	<b>34.36</b>	<b>1.00</b>	<b>0.00</b>	<b>35.36</b>

We certify that we have verified the expenditure up to 30.09.2024 as referred above on the basis of the information drawn from the audited Statement of Accounts of Powergrid Bhuj Transmission Ltd, Vadodara as on 30.09.2024. The estimated expenditure is based on Management estimate.



Shah and Bhandari  
Chartered Accountants  
FRN: 118852W

Nishadh Dave  
Partner

M.No: 147025

UDIN: 24147025BKALLK9579

Place: Vadodara

Date: 21<sup>st</sup> October, 2024





Manish Shah  
B.Com., F.C.A.

Yogesh Bhandari  
B.Com., F.C.A. DISA(ICA)

Nishadh Dave  
B.Com., F.C.A.

**Shah & Bhandari**  
Chartered Accountants

38/101 Gautam Nagar,  
Race Course, Vadodara - 390 007  
Telefax: +91 265 2359398, 2339727  
Email: shahbhandari@gmail.com



**CERTIFICATE**

This is to certify that we have verified the relevant records and other documents of **Power Grid Bhuj Transmission Limited** having its Registered Office at Plot No. 54, Beside Riya-Revti Resort, Opp. Ambe Vidhyalaya, Sama-Savli Road, Vadodara, Gujarat - 390024 and on the basis of our verification, we certify that Capital Cost for "Additional FOTE of STM-16 capacity (5-MSP, Tejas make) at Bhuj – II" under "Requirement of Additional FOTE of STM-16 Capacity at Bhuj-II Substation to cater to connectivity of RE Gencos" of Powergrid Bhuj Transmission Limited, which is under commercial operation w.e.f. 01.08.2024 is detailed as under:

(Rs. In Lacs)

Sr No	Particulars	Land	Building and Civil Works	Tr. Line	Sub-Staion	PLCC/ Communication System	IT Equipment including software	Total
1	Expenditure up to 31.03.2024	0.00	0.00	0.00	0.00	1.00	0.00	1.00
2	Expenditure from 01.04.2024 to 31.07.2024 (up to DOCO)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	Expenditure from 01.08.2024 to 30.09.2024	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	Estimated Expenditure from 01.10.2024 to 31.03.2025	0.00	0.00	0.00	0.00	34.36	0.00	34.36
5	Estimated Expenditure from 01.04.2025 to 31.03.2026	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>34.36</b>	<b>35.36</b>	<b>0.00</b>	<b>35.36</b>

Sr No	Particulars	TL	Sub-station / IT Equipment
1	Total Cost (Plant and Machinery cost excluding IDC, IE DC, Land cost and cost of Civil works for the purpose of Initial Spares)	0.00	34.36
2	Initial Spares included above	0.00	0.00

We certify that we have verified the expenditure up to 30.09.2024 as referred above on the basis of the information drawn from the audited Statement of Accounts of Powergrid Bhuj Transmission Ltd, Vadodara as on 30.09.2024. The estimated expenditure is based on Management estimate.

Shah and Bhandari  
Chartered Accountants  
FRN: 118852W



*Nishadh Dave*

Nishadh Dave  
Partner

M.No: 147025

UDIN: 24147025BKALLK9579

Place: Vadodara

Date: 21<sup>st</sup> October, 2024



*Shah*

Annexure - 7

15.10.2024 as per AC dtd. (e-mail dated 15.10.2024 from Abhijit Ji)				
TBCB Company	POWERGRID Bhuj Transmission Limited (PBT-1116)			
Investment Approval:	Requirement of Additional FOTE of STM-16 Capacity at Bhuj-II Substation to cater to connectivity of RE Gencos			
Element:	Requirement of Additional FOTE of STM-16 Capacity at Bhuj-II Substation to cater to connectivity of RE Gencos			
DOCO: Actual	01-Aug-24			
Loans	Amount	Interest Rate	Drawl Date	Drawl Date
Proposed Loan (2024-25) (IR Replacement)	0.70			0.00
<b>Total</b>	<b>0.70</b>			<b>0.00</b>
			Cum IDC	0.00
Total Cost upto 31.03.2024	1.00	0.70	Cert IDC	0.00
Actual Exp from 01.04.2024 to 01.08.2024 (DOCO)	0.00	0.00		
<b>DOCO Cost</b>	<b>1.00</b>	<b>0.00</b>		
IR AS ON DOCO	0.30			
IR % AS ON DOCO	30.00%			
Estimated Exp from DOCO to 31.03.2025	34.36			
<b>Total Projected Cost</b>	<b>35.36</b>			



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**Summary of Tariff**

Form No. - 1

Name of the Transmission Licensee:	POWERGRID Bhuj Transmission Ltd		
Project	Requirement of Additional FOTE of STM-16 Capacity at Bhuj-II Substation to cater to connectivity of RE Gencos		
Element Description	Additional FOTE of STM-16 capacity (5-MSP, Tejas make) at Bhuj-II		
Region	Corporate Centre	DOC Date	Aug 1, 2024

(Amount in Rs. Lakh)

Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
Year Days	365.00	365.00	365.00	366.00	365.00
Off Days	243.00	365.00	365.00	366.00	365.00
Depreciation-Form No. 10A	1.82	5.30	5.30	5.30	5.30
Interest on Loan-Form No. 9E	0.65	1.67	1.23	0.80	0.36
Return on Equity-Form No. 8	0.66	1.93	1.93	1.93	1.93
Int. on Working capital-Form No.11	0.07	0.16	0.16	0.15	0.14
Op. and maintenance-Form No.2	0.47	0.71	0.71	0.71	0.71
Total AFC	3.67	9.77	9.33	8.89	8.44

(Petitioner)  
 बी. के. प्रधान / B. K. Pradhan  
 परियोजना प्रभारी / Project Incharge  
 पावरग्रिड भुज ट्रांसमिशन लिमिटेड  
 POWERGRID BHUJ TRANSMISSION LIMITED



**Summary of Asset Level Cost**

Form No. - 1A

Name of the Transmission Licensee	POWERGRID Bhuj Transmission Ltd		
Project	Requirement of Additional FOTE of STM-16 Capacity at Bhuj-II Substation to cater to connectivity of RE Gencos		
Element Description	Additional FOTE of STM-16 capacity (5-MSP, Tejas make) at Bhuj-II		
Region	Corporate Centre	DOC Date	Aug 1, 2024

A) Summary of Capital Cost, Means of Finance of the Asset

(Amount in Rs. Lakh)

Particular	i) Apportioned Approved Cost		ii) Summary of Actual / Projected Capital Expenditure incurred						
	As Per IA	As per RCE	As on COD / 01.04.2024	2024-25	2025-26	2026-27	2027-28	2028-29	As on 31.03.2029
Land (Freehold Land)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building & Civil Works	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Transmission Lines	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Substations	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Comm. Sys. excluding Fiber Optic	0.00	0.00	35.36	0.00	0.00	0.00	0.00	0.00	35.36
Land (Leasehold)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IT/Software/UNMS/URTDMS/	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Batteries	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total Capital Cost as per Books</b>	0.00	0.00	35.36	0.00	0.00	0.00	0.00	0.00	35.36
Less: Liability	0.00	0.00	34.36	0.00	0.00	0.00	0.00	0.00	0.00
Add: discharge of liability	0.00	0.00	0.00	34.36	0.00	0.00	0.00	0.00	0.00
De cap During Year As per Books	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total Capital incurred</b>	0.00	0.00	1.00	34.36	0.00	0.00	0.00	0.00	35.36
Equity	13.00	0.00	0.30	10.31	0.00	0.00	0.00	0.00	10.61
Debt	29.00	0.00	0.70	24.05	0.00	0.00	0.00	0.00	24.75



*[Handwritten signature]*

**Details of Transmission Lines and Substations, Communication System covered in the project scope and O&M for instant asset** Form No. - 2

Name of the Transmission Licensee	POWERGRID Bhuj Transmission Ltd		
Project	Requirement of Additional FOTE of STM-16 Capacity at Bhuj-II Substation to cater to connectivity of RE Gencos		
Element Description	Additional FOTE of STM-16 capacity (5-MSP, Tejas make) at Bhuj-II		
Region	Corporate Centre	DOC Date	Aug 1, 2024

**1. Transmission Lines**

(Amount in Rs. Lakh)

Summary:



*[Handwritten signature]*



2. Sub Station

Summary:



*[Handwritten signature]*

3. Communication System

Name of Communication System	Type of Communication System ULDC/ SCADA/ WAMS/Fibre Optic Communication System/RTU/ PABX/PMU/PLCC/etc	Length of OPGW links	No of RTU	No of PMU	Date of Commercial operation	Capital Cost upto Cut-off	Covered in the present petition	
							Yes/No	If No, Petition No.
COMMUNICATION SYSTEM AT BHUJ PLCC					Aug 1, 2024	35.36	Y	

Summary:

O & M Expenses for the Communication System covered in the instant petition	2024-25	2025-26	2026-27	2027-28	2028-29
CC					
Normative Rate of O&M as per Regulation	2.00	2.00	2.00	2.00	2.00
The original project cost / Asset related to the communication system (Amount in Rs. Lakh)	35.36	35.36	35.36	35.36	35.36
O&M Claimed	0.47	0.71	0.71	0.71	0.71




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Summary of O&M Expenses claim

(Amount in Rs. Lakh)

Particular	2024-25	2025-26	2026-27	2027-28	2028-29
<b>A) Normative O&amp;M</b>					
Transmission Line	0.00	0.00	0.00	0.00	0.00
Substation	0.00	0.00	0.00	0.00	0.00
Communication System	0.47	0.71	0.71	0.71	0.71
Total Normative O&M	0.47	0.71	0.71	0.71	0.71
<b>B) O&amp;M Claimed under Regulation 35 (3)(C) (* The same is not being claimed and will be claimed through separate Petition )</b>					
*Security Expenses	0.00	0.00	0.00	0.00	0.00
*Actual Capital Spare consumed	0.00	0.00	0.00	0.00	0.00
*Insurance Premium Paid	0.00	0.00	0.00	0.00	0.00
Total O&M	0.47	0.71	0.71	0.71	0.71

  
**बी. के. प्रधान (Petition B) K. Pradhan**  
**परियोजना प्रभारी / Project Incharge**  
**पावरग्रिड भुज ट्रांसमिशन लिमिटेड**  
**POWERGRID BHUJ TRANSMISSION LIMITED**





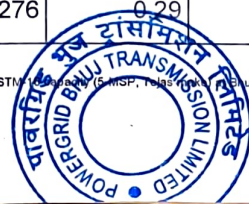
**Normative parameters considered for tariff computations**

Form No. - 3

Name of the Transmission Licensee	POWERGRID Bhuj Transmission Ltd		
Project	Requirement of Additional FOTE of STM-16 Capacity at Bhuj-II Substation to cater to connectivity of RE Gencos		
Element Description	Additional FOTE of STM-16 capacity (5-MSP, Tejas make) at Bhuj-II		
Region	Corporate Centre	DOC Date	Aug 1, 2024

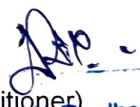
(Amount in Rs. Lakh)

Particulars	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
Base Rate of Return of Equity (in %)						
ROE Rate (in %)	17.472	17.472	17.472	17.472	17.472	17.472
Effective tax rate (in %)						
Grossed up Rate for ROE of 15.5% (in %)	18.782	18.782	18.782	18.782	18.782	18.782
Grossed up Rate for ROE of 15.0% (in %)	18.176	18.176	18.176	18.176	18.176	18.176
Target availability - AC System (in %)	98.00	98.00	98.00	98.00	98.00	98.00
Target availability - HVDC System (in %)	96.00	96.00	96.00	96.00	96.00	96.00
<b>Norms for sub-station Bays (Rs Lakh per bay)</b>						
765 kV	51.68	41.34	43.51	45.79	48.20	50.73
400 kV	36.91	29.53	31.08	32.71	34.43	36.23
220 kV	25.84	20.67	21.75	22.90	24.10	25.36
132 kV and below	18.46	15.78	16.61	17.48	18.40	19.35
<b>Norms for Transformers (Rs Lakh per MVA)</b>						
765 kV	0.564	0.262	0.276	0.29	0.305	0.322
400 kV	0.411	0.262	0.276	0.29	0.305	0.322
220 kV	0.282	0.262	0.276	0.29	0.305	0.322
132 kV and below	0.282	0.262	0.276	0.29	0.305	0.322
<b>Norms for Reactor (Rs Lakh per MVAR)</b>						
765 kV	0.00	0.262	0.276	0.29	0.305	0.322
400 kV	0.00	0.262	0.276	0.29	0.305	0.322



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

  
 (Petitioner)  
 बी. के. प्रधान / B. K. Pradhan  
 परियोजना प्रभारी / Project Incharge  
 पावरग्रिड भुज ट्रांसमिशन लिमिटेड  
 POWERGRID BHUJ TRANSMISSION LIMITED





**Statement of Capital cost**

Form No. - 4A

Name of the Transmission Licensee	POWERGRID Bhuj Transmission Ltd		
Project	Requirement of Additional FOTE of STM-16 Capacity at Bhuj-II Substation to cater to connectivity of RE Gencos		
Element Description	Additional FOTE of STM-16 capacity (5-MSP, Tejas make) at Bhuj-II		
Region	Corporate Centre	DOCO Date	Aug 1, 2024

A) Capital Cost

(Amount in Rs. Lakh)

Particular	Accrual Basis	Un-discharged Liabilities	Cash Basis
<b>As on relevant date :2024-25</b>			
a) Opening Gross Block Amount as per books	35.36	34.36	1.00
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in A(a) above	0.00	0.00	0.00
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above	1.00	0.00	1.00
<b>As on relevant date :2025-26</b>			
a) Addition in Gross Block Amount during the period	0.00	0.00	0.00
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in B(a) above	0.00	0.00	0.00
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in B(a) above	0.00	0.00	0.00
d) De-cap in gross block amount during the year	0.00	0.00	0.00
a) Closing Gross Block Amount as per books	35.36	0.00	35.36
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in C(a) above	0.00	0.00	0.00
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) above	1.00	0.00	1.00
<b>As on relevant date :2025-26</b>			
a) Opening Gross Block Amount as per books	35.36	0.00	35.36
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in A(a) above	0.00	0.00	0.00



*[Handwritten signature]*

c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above	1.00	0.00	1.00
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a) Addition in Gross Block Amount during the period	0.00	0.00	0.00
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in B(a) above	0.00	0.00	0.00
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in B(a) above	0.00	0.00	0.00
d) De-cap in gross block amount during the year	0.00	0.00	0.00

a) Closing Gross Block Amount as per books	35.36	0.00	35.36
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in C(a) above	0.00	0.00	0.00
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) above	1.00	0.00	1.00

As on relevant date :2026-27

a) Opening Gross Block Amount as per books	35.36	0.00	35.36
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in A(a) above	0.00	0.00	0.00
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above	1.00	0.00	1.00

a) Addition in Gross Block Amount during the period	0.00	0.00	0.00
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in B(a) above	0.00	0.00	0.00
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in B(a) above	0.00	0.00	0.00
d) De-cap in gross block amount during the year	0.00	0.00	0.00

a) Closing Gross Block Amount as per books	35.36	0.00	35.36
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in C(a) above	0.00	0.00	0.00
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) above	1.00	0.00	1.00

As on relevant date :2027-28

a) Opening Gross Block Amount as per books	35.36	0.00	35.36
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in A(a) above	0.00	0.00	0.00
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above	1.00	0.00	1.00



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a) Addition in Gross Block Amount during the period	0.00	0.00	0.00
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in B(a) above	0.00	0.00	0.00
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in B(a) above	0.00	0.00	0.00
d) De-cap in gross block amount during the year	0.00	0.00	0.00

a) Closing Gross Block Amount as per books	35.36	0.00	35.36
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in C(a) above	0.00	0.00	0.00
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) above	1.00	0.00	1.00

As on relevant date :2025-25

a) Opening Gross Block Amount as per books	35.36	0.00	35.36
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in A(a) above	0.00	0.00	0.00
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above	1.00	0.00	1.00

a) Addition in Gross Block Amount during the period	0.00	0.00	0.00
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in B(a) above	0.00	0.00	0.00
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in B(a) above	0.00	0.00	0.00
d) De-cap in gross block amount during the year	0.00	0.00	0.00

a) Closing Gross Block Amount as per books	35.36	0.00	35.36
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in C(a) above	0.00	0.00	0.00
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) above	1.00	0.00	1.00

B) Flow of liability for the Asset

(Amount in Rs. Lakh)

Particular	2024-2025								
Opening balance of liability	34.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Add: Liability from ACE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00





Discharge of liability by payment and claimed as ACE	34.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Reversal/cancelation (to be entered)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Closing Balance of Admitted liability	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

(Petitioner)

बी. के. प्रधान / B. K. Pradhan  
परियोजना प्रभारी / Project Incharge  
पावरग्रिड भुज ट्रांसमिशन लिमिटेड  
POWERGRID BHUJ TRANSMISSION LIMITED



*[Handwritten signature]*

**Financial Package upto COD**

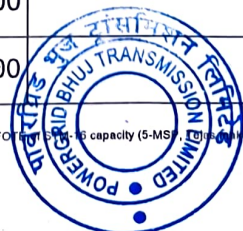
Form No. - 6

Name of the Transmission Licensee		POWERGRID Bhuj Transmission Ltd	
Project	Requirement of Additional FOTE of STM-16 Capacity at Bhuj-II Substation to cater to connectivity of RE Gencos		
Element Description	Additional FOTE of STM-16 capacity (5-MSP, Tejas make) at Bhuj-II		
Region	Corporate Centre	DOCOD Date	Aug 1, 2024

(Amount in Rs. Lakh)

Particulars	Financial Package as Approved		Financial Package as on COD 01/04/2024		As Admitted on COD 01/04/2024	
	Currency	Amount	Currency	Amount	Currency	Amount
Loans		0.00		0.00		0.00
Loan-Domestic		0.00		0.00		0.00
Loan-Foreign		0.00		0.00		0.00
Total Loans	INR	29.00	INR	0.70		0.00
Equity		0.00		0.00		0.00
Foreign		0.00		0.00		0.00
Domestic	INR	13.00	INR	0.30		0.00
Total Equity	INR	13.00	INR	0.30		0.00
Debt Equity Ratio					70:30	
Total Cost	INR	42.00	INR	1.00		0.00

Particulars	Debt	Equity	Total
Addcap for 2024 - 2025			34.36
Addcap for 2025 - 2026			0.00
Addcap for 2026 - 2027			0.00
Addcap for 2027 - 2028			0.00

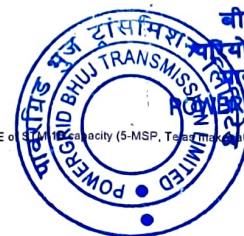


Addcap for 2028 - 2029			0.00
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Particulars	Actual	Normative	
<b>Addcap for 2024 - 2025</b>			
Equity		10.31	
Debt		24.05	
Total		34.36	
<b>Addcap for 2025 - 2026</b>			
Equity		0.00	
Debt		0.00	
Total		0.00	
<b>Addcap for 2026 - 2027</b>			
Equity		0.00	
Debt		0.00	
Total		0.00	
<b>Addcap for 2027 - 2028</b>			
Equity		0.00	
Debt		0.00	
Total		0.00	
<b>Addcap for 2028 - 2029</b>			
Equity		0.00	
Debt		0.00	
Total		0.00	
<b>Total Capital cost with Addcap</b>		35.36	

(Petitioner)

बी. के. प्रधान / B. K. Pradhan  
 प्रियोजना प्रभारी / Project Incharge  
 पावरग्रिड भुज ट्रांसमिशन लिमिटेड  
 POWER GRID BHUJ TRANSMISSION LIMITE



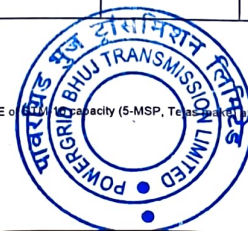
**Statement of Additional Capitalisation after COD**

Form No. - 7

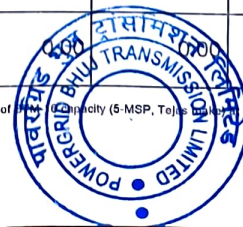
Name of the Transmission Licensee	POWERGRID Bhuj Transmission Ltd		
Project	Requirement of Additional FOTE of STM-16 Capacity at Bhuj-II Substation to cater to connectivity of RE Gencos		
Element Description	Additional FOTE of STM-16 capacity (5-MSP, Tejas make) at Bhuj-II		
Region	Corporate Centre	DOCOC Date	Aug 1, 2024

(Amount in Rs. Lakh)


Particulars	Addition into Gross Block as per books of Account during the year (2)	De-Cap into Gross Block as per books of Account during the year	Less: Deductions dr. the year towards				Add: Discharge of earlier admitted liability	ACE on cash basis for tariff purpose	Admitted Cost in final tariff (Rs Lakh)
			Grants Received (if any) (3)	Asset pertaining to other businesses (if any) (4)	Other Deduction (if any) (5)	Less: Undischarged liability included in (2-4-5)			
ACE for the year :2024-25 (Actual/Projected)									
Land (Freehold Land)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building & Civil Works	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Transmission Lines	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
substations	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	0.00	0.00	34.36	34.36	0.00
Land (Leasehold)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IT/Software/UNMS/URTDMS/ SCADA,etc	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Batteries	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total</b>	0.00	0.00	0.00	0.00	0.00	0.00	34.36	34.36	0.00
ACE for the year :2025-26 (Actual/Projected)									

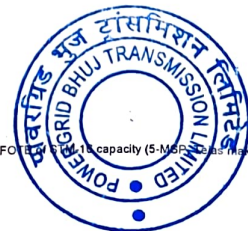


Land (Freehold Land)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building & Civil Works	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Transmission Lines	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Substations	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Land (Leasehold)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IT/Software/UNMS/URTDSM/ SCADA,etc	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Batteries	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>ACE for the year :2026-27 (Actual/Projected)</b>									
Land (Freehold Land)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building & Civil Works	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Transmission Lines	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Substations	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Land (Leasehold)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IT/Software/UNMS/URTDSM/ SCADA,etc	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Batteries	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>ACE for the year :2027-28 (Actual/Projected)</b>									
Land (Freehold Land)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building & Civil Works	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



Transmission Lines	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Substations	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Land (Leasehold)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IT/Software/UNMS/URTDSM/ SCADA,etc	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Batteries	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
for the year -2028-29 (Actual/Projected)									
Land (Freehold Land)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building & Civil Works	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Transmission Lines	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Substations	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Land (Leasehold)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IT/Software/UNMS/URTDSM/ SCADA,etc	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Batteries	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

  
 (Petitioner)  
**बी. के. प्रधान / B. K. Pradhan**  
**परियोजना प्रभारी / Project Incharge**  
**पावरग्रिड भुज ट्रांसमिशन लिमिटेड**  
**POWERGRID BHUJ TRANSMISSION LIMITED**





**Financing of Additional Capitalisation**

Form No. - 7A

Name of the Transmission Licensee	POWERGRID Bhuj Transmission Ltd		
Project	Requirement of Additional FOTE of STM-16 Capacity at Bhuj-II Substation to cater to connectivity of RE Gencos		
Element Description	Additional FOTE of STM-16 capacity (5-MSP, Tejas make) at Bhuj-II		
Region	Corporate Centre	DOC Date	Aug 1, 2024

(Amount in Rs. Lakh)

Financial Year ( Starting of GOD)	Actual/Projected					Admitted				
	2024-25	2025-26	2026-27	2027-28	2028-29	2024-25	2025-26	2026-27	2027-28	2028-29
Amount capitalized in Work/ Equipment										
Financing Details										
Total Loan	24.05	0.00	0.00	0.00	0.00					
Equity	10.31	0.00	0.00	0.00	0.00					
Total	34.36	0.00	0.00	0.00	0.00					

(Petitioner) 

**बी. के. प्रधान / B. K. Pradhan**  
**परियोजना प्रभारी / Project Incharge**  
**पावरग्रिड भुज ट्रांसमिशन लिमिटेड**  
**POWERGRID BHUJ TRANSMISSION LIMITED**





**Calculation of ROE**

Form No. - 8

Name of the Transmission Licensee	POWERGRID Bhuj Transmission Ltd		
Project	Requirement of Additional FOTE of STM-16 Capacity at Bhuj-II Substation to cater to connectivity of RE Gencos		
Element Description	Additional FOTE of STM-16 capacity (5-MSP, Tejas make) at Bhuj-II		
Region	Corporate Centre	DOC Date	Aug 1, 2024

(Amount in Rs. Lakh)

Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
No. of Days in the year	365.00	365.00	365.00	366.00	365.00
No. of days for which tariff claimed	243.00	365.00	365.00	366.00	365.00
Opening Normative Equity	0.30	10.61	10.61	10.61	10.61
Less: Adjustment in Equity*	0.00	0.00	0.00	0.00	0.00
Adjustment during the year	0.00	0.00	0.00	0.00	0.00
Net opening equity (Normal)	0.30	10.61	10.61	10.61	10.61
Add: Increase in Equity due to addition during the year / period	0.00	0.00	0.00	0.00	0.00
Less: Decrease due to de-capitalisation during the year / period	0.00	0.00	0.00	0.00	0.00
Add: Increase due to discharge during the year / period	10.31	0.00	0.00	0.00	0.00
Closing Normative Equity	10.61	10.61	10.61	10.61	10.61
Average Normative Equity	5.46	10.61	10.61	10.61	10.61
Rate of return on Equity (%)	18.176	18.176	18.176	18.176	18.176
Reduced rate of 1% decided by commission under Regulation 30(2) (if any)	0.00	0.00	0.00	0.00	0.00
Effective rate of ROE	15.00	15.00	15.00	15.00	15.00
MAT/Corporate Rate	17.472	17.472	17.472	17.472	17.472
Grossed up rate of ROE	18.176	18.176	18.176	18.176	18.176
Return on Equity	0.99	1.93	1.93	1.93	1.93
Pro rata return on Equity	0.66	1.93	1.93	1.93	1.93



(Petitioner)

*[Handwritten Signature]*



**Calculation of WAR of interest on actual loan**

Form No. - 9C

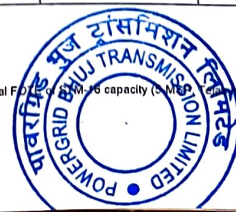
Name of the Transmission Licensee	POWERGRID Bhuj Transmission Ltd		
Project	Requirement of Additional FOTE of STM-16 Capacity at Bhuj-II Substation to cater to connectivity of RE Gencos		
Element Description	Additional FOTE of STM-16 capacity (5-MSP, Tejas make) at Bhuj-II		
Region	Corporate Centre	DOC0 Date	Aug 1, 2024

(Amount in Rs. Lakh)

Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
<b>Proposed Loan 2024-25 - DOC0 LOAN 1</b>					
Gross Loan- Opening	0.70	0.70	0.70	0.70	0.70
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.00	0.00
Net loan-Opening	0.70	0.70	0.70	0.70	0.70
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	0.00	0.00	0.00	0.00	0.00
Net Loan-Closing	0.70	0.70	0.70	0.70	0.70
Average Net Loan	0.70	0.70	0.70	0.70	0.70
Rate of Interest on Loan on Annual Basis	8.21	8.21	8.21	8.21	8.21
Interest on loan	0.0575	0.0575	0.0575	0.0575	0.0575

**Summary**

Gross Loan- Opening	0.70	0.70	0.70	0.70	0.70
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.00	0.00
Net loan-Opening	0.70	0.70	0.70	0.70	0.70
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	0.00	0.00	0.00	0.00	0.00

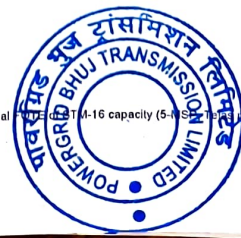


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Net Loan-Closing	0.70	0.70	0.70	0.70	0.70
Average Net Loan	0.70	0.70	0.70	0.70	0.70
Rate of Interest on Loan on Annual Basis	8.2143	8.2143	8.2143	8.2143	8.2143
Interest on loan	0.0575	0.0575	0.0575	0.0575	0.0575

(Petitioner)

बी. के. प्रधान / B. K. Pradhan  
परियोजना प्रभारी / Project Incharge  
पावरग्रिड भुज ट्रांसमिशन लिमिटेड  
POWERGRID BHUJ TRANSMISSION LIMITED



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**Calculation of interest on Normative loan**

Form No. - 9E

Name of the Transmission Licensee		POWERGRID Bhuj Transmission Ltd	
Project	Requirement of Additional FOTE of STM-16 Capacity at Bhuj-II Substation to cater to connectivity of RE Gencos		
Element Description	Additional FOTE of STM-16 capacity (5-MSP, Tejas make) at Bhuj-II		
Region	Corporate Centre	DOCO Date	Aug 1, 2024

(Amount in Rs. Lakh)

Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
No. of Days in the Year	365.00	365.00	365.00	366.00	365.00
No. of days for which Tariff claimed	243.00	365.00	365.00	366.00	365.00
Gross normative loan-Opening	0.70	24.75	24.75	24.75	24.75
Cumulative repayments of Normative loan upto previous year	0.00	1.82	7.12	12.42	17.72
Net normative loan-Opening	0.70	22.93	17.63	12.33	7.03
Addition in normative loan towards the ACE	24.05	0.00	0.00	0.00	0.00
Adjustment of normative gross loan pertaining to the decapitalised asset	0.00	0.00	0.00	0.00	0.00
Normative repayments of normative loan during the year	1.82	5.30	5.30	5.30	5.30
Adjustment of cumulative repayment pertaining to the decapitalised asset	0.00	0.00	0.00	0.00	0.00
Net normative loan - closing	22.93	17.63	12.33	7.03	1.73
Average normative loan	11.82	20.28	14.98	9.68	4.38
Weighted Average Rate of interest on actual loan	8.2143	8.2143	8.2143	8.2143	8.2143
Interest on normative loan	0.97	1.67	1.23	0.80	0.36
Pro rata interest on normative loan	0.65	1.67	1.23	0.80	0.36

(Petitioner)

**बी. के. प्रधान / B. K. Pradhan**  
**परियोजना प्रभारी / Project Incharge**  
**पावरग्रिड भुज ट्रांसमिशन लिमिटेड**  
**POWERGRID BHUJ TRANSMISSION LIMITED**



**Calculation of Depreciation Rate on Original Project Cost**

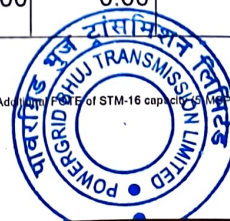
Form No. - 10

Name of the Transmission Licensee	POWERGRID Bhuj Transmission Ltd		
Project	Requirement of Additional FOTE of STM-16 Capacity at Bhuj-II Substation to cater to connectivity of RE Gencos		
Element Description	Additional FOTE of STM-16 capacity (5-MSP, Tejas make) at Bhuj-II		
Region	Corporate Centre	DOCQ Date	Aug 1, 2024

(Amount in Rs. Lakh)

Name of Assets	Gross block at the beginning of the year	Add Cap during the year	Gross block at the end of the year	Average Gross Block	Depreciation Rate as per CERC's Depreciation Rate Schedule	Depreciation Amount for each year upto 31.03.2029
<b>2024-25</b>						
Land(Freehold)	0.00	0.00	0.00	0.00	0.00	0.00
Civil & Building	0.00	0.00	0.00	0.00	3.34	0.00
Transmission Line	0.00	0.00	0.00	0.00	4.22	0.00
Sub Station	0.00	0.00	0.00	0.00	4.22	0.00
Comm. Sys. excluding Fiber Optic	1.00	34.36	35.36	18.18	15.00	1.82
Leasehold Land	0.00	0.00	0.00	0.00	3.34	0.00
Software/UNMS/URTDSM/SCADA,etc	0.00	0.00	0.00	0.00	15.00	0.00
Batteries	0.00	0.00	0.00	0.00	9.50	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	6.33	0.00
<b>TOTAL</b>	<b>1.00</b>	<b>34.36</b>	<b>35.36</b>	<b>18.18</b>	<b>0.00</b>	<b>1.82</b>
<b>Weighted Average Rate of Depreciation(%)</b>					<b>10.011001</b>	

<b>2025-26</b>						
Land(Freehold)	0.00	0.00	0.00	0.00	0.00	0.00



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Civil & Building	0.00	0.00	0.00	0.00	3.34	0.00
Transmission Line	0.00	0.00	0.00	0.00	4.22	0.00
Sub Station	0.00	0.00	0.00	0.00	4.22	0.00
Comm. Sys. excluding Fiber Optic	35.36	0.00	35.36	35.36	15.00	5.30
Leasehold Land	0.00	0.00	0.00	0.00	3.34	0.00
IT/Software/UNMS/URTDSM/SCADA,etc	0.00	0.00	0.00	0.00	15.00	0.00
Batteries	0.00	0.00	0.00	0.00	9.50	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	6.33	0.00
<b>TOTAL</b>	<b>35.36</b>	<b>0.00</b>	<b>35.36</b>	<b>35.36</b>	<b>0.00</b>	<b>5.30</b>
<b>Weighted Average Rate of Depreciation(%)</b>					<b>14.988688</b>	

2026-27						
Land(Freehold)	0.00	0.00	0.00	0.00	0.00	0.00
Civil & Building	0.00	0.00	0.00	0.00	3.34	0.00
Transmission Line	0.00	0.00	0.00	0.00	4.22	0.00
Sub Station	0.00	0.00	0.00	0.00	4.22	0.00
Comm. Sys. excluding Fiber Optic	35.36	0.00	35.36	35.36	15.00	5.30
Leasehold Land	0.00	0.00	0.00	0.00	3.34	0.00
IT/Software/UNMS/URTDSM/SCADA,etc	0.00	0.00	0.00	0.00	15.00	0.00
Batteries	0.00	0.00	0.00	0.00	9.50	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	6.33	0.00
<b>TOTAL</b>	<b>35.36</b>	<b>0.00</b>	<b>35.36</b>	<b>35.36</b>	<b>0.00</b>	<b>5.30</b>
<b>Weighted Average Rate of Depreciation(%)</b>					<b>14.988688</b>	



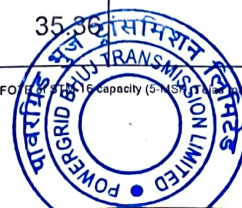
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2027-28

Land(Freehold)	0.00	0.00	0.00	0.00	0.00	0.00
Civil & Building	0.00	0.00	0.00	0.00	3.34	0.00
Transmission Line	0.00	0.00	0.00	0.00	4.22	0.00
Sub Station	0.00	0.00	0.00	0.00	4.22	0.00
Comm. Sys. excluding Fiber Optic	35.36	0.00	35.36	35.36	15.00	5.30
Leasehold Land	0.00	0.00	0.00	0.00	3.34	0.00
IT/Software/UNMS/URTDSM/ SCADA,etc	0.00	0.00	0.00	0.00	15.00	0.00
Batteries	0.00	0.00	0.00	0.00	9.50	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	6.33	0.00
<b>TOTAL</b>	<b>35.36</b>	<b>0.00</b>	<b>35.36</b>	<b>35.36</b>	<b>0.00</b>	<b>5.30</b>
<b>Weighted Average Rate of Depreciation(%)</b>					<b>14.988688</b>	

2028-29

Land(Freehold)	0.00	0.00	0.00	0.00	0.00	0.00
Civil & Building	0.00	0.00	0.00	0.00	3.34	0.00
Transmission Line	0.00	0.00	0.00	0.00	4.22	0.00
Sub Station	0.00	0.00	0.00	0.00	4.22	0.00
Comm. Sys. excluding Fiber Optic	35.36	0.00	35.36	35.36	15.00	5.30
Leasehold Land	0.00	0.00	0.00	0.00	3.34	0.00
IT/Software/UNMS/URTDSM/ SCADA,etc	0.00	0.00	0.00	0.00	15.00	0.00
Batteries	0.00	0.00	0.00	0.00	9.50	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	6.33	0.00
<b>TOTAL</b>	<b>35.36</b>	<b>0.00</b>	<b>35.36</b>	<b>35.36</b>	<b>0.00</b>	<b>5.30</b>



Weighted Average Rate of Depreciation(%)					14.988688	
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(Petitioner)

बी. के. प्रधान / B. K. Pradhan  
 परियोजना प्रभारी / Project Incharge  
 पावरग्रिड भुज ट्रांसमिशन लिमिटेड  
 POWERGRID BHUJ TRANSMISSION LIMITED



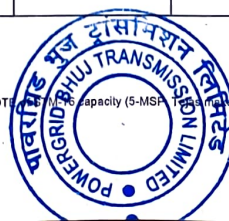

**Statement of Depreciation**

Form No. - 10A

Name of the Transmission Licensee	POWERGRID Bhuj Transmission Ltd				
Project	Requirement of Additional FOTE of STM-16 Capacity at Bhuj-II Substation to cater to connectivity of RE Gencos				
Element Description	Additional FOTE of STM-16 capacity (5-MSP, Tejas make) at Bhuj-II				
Region	Corporate Centre	DOCO Date	Aug 1, 2024		

(Amount in Rs. Lakh)

Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
No of Days in the year	365.00	365.00	365.00	366.00	365.00
No of days for which tariff claimed	243.00	365.00	365.00	366.00	365.00
<b>Life at the beginning of the year</b>					
1.1 Weighted Average useful life of the Asset/ Project	7.00	7.00	7.00	7.00	7.00
1.2 Lapsed Weighted Average useful life of the Asset/Project(in completed no. of year)	0.00	0.00	1.00	2.00	3.00
1.3 Balance Weighted Average useful life of the Asset/Project(in completed no. of year)	7.00	7.00	6.00	5.00	4.00
<b>Capital Base</b>					
1.4 Opening capital cost	1.00	35.36	35.36	35.36	35.36
1.5 Additional Capital Expenditure dr. the year	34.36	0.00	0.00	0.00	0.00
De-Capitalisation During the year	0.00	0.00	0.00	0.00	0.00
1.7 Closing capital cost	35.36	35.36	35.36	35.36	35.36
1.8 Average capital cost	18.18	35.36	35.36	35.36	35.36
1.9 Freehold land included in 1.8	0.00	0.00	0.00	0.00	0.00
1.10 Asset having NIL salvage value included in 1.8	0.00	0.00	0.00	0.00	0.00
1.11 Asset having 10% salvage value included in 1.8	18.18	35.36	35.36	35.36	35.36
1.12 Depreciable Value(1.10+90% of 1.11)	16.36	31.82	31.82	31.82	31.82
<b>Depreciation for the period and Cum. Depreciation</b>					
1.13 Weighted Average Rate of depreciation	10.011001	14.988688	14.988688	14.988688	14.988688



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1.14 Depreciation(for the period)	1.82	5.30	5.30	5.30	5.30
1.15 Depreciation(Annualised)	1.82	5.30	5.30	5.30	5.30
Unrecovered Depreciation for DECAP	0.00	0.00	0.00	0.00	0.00
1.16 Cumulative depreciation at the beginning of the period	0.00	1.82	7.12	12.42	17.72
1.17 Less:Adj of Cum. Dep pertaining to decapitalised Asset	0.00	0.00	0.00	0.00	0.00
1.18 Cumulative depreciation at the end of the period	1.82	7.12	12.42	17.72	23.02

  
 (Petitioner)  
 बी. के. प्रधान / B. K. Pradhan  
 परियोजना प्रभारी / Project Incharge  
 पावरग्रिड भुज ट्रांसमिशन लिमिटेड  
 POWERGRID BHUJ TRANSMISSION LIMITED




**Calculation of interest on working Capital**

Form No. - 11

Name of the Transmission Licensee	POWERGRID Bhuj Transmission Ltd		
Project	Requirement of Additional FOTE of STM-16 Capacity at Bhuj-II Substation to cater to connectivity of RE Gencos		
Element Description	Additional FOTE of STM-16 capacity (5-MSP, Tejas make) at Bhuj-II		
Region	Corporate Centre	DOCO Date	Aug 1, 2024

(Amount in Rs. Lakh)

Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
No of Days in the year	365.00	365.00	365.00	366.00	365.00
No of days for which tariff claimed	243.00	365.00	365.00	366.00	365.00
O&M Expenses-one month	0.06	0.06	0.06	0.06	0.06
Maintenance spares 15% of O&M Expenses	0.11	0.11	0.11	0.11	0.11
Receivables equivalent to 45 days of AFC	0.68	1.20	1.15	1.09	1.04
Total Working capital	0.85	1.37	1.32	1.26	1.21
Bank Rate as on 01.04.2024 or as on 01st April of the COD year, whichever is later.	11.90	11.90	11.90	11.90	11.90
Interest on working capital	0.10	0.16	0.16	0.15	0.14
Pro rata interest on working capital	0.07	0.16	0.16	0.15	0.14

  
 बी. के. प्रधान (Petitioner) / B. K. Pradhan  
 परियोजना प्रभारी / Project Incharge  
 पावरग्रिड भुज ट्रांसमिशन लिमिटेड  
 POWERGRID BHUJ TRANSMISSION LIMITED





### Abstract of Capital Cost Estimates and Schedule of Commissioning for the New Projects

Name of the Communication Element Additional FOTE of STM-16 capacity (5-MSP, Tejas make)

#### New Projects

#### Capital Cost Estimates

Board of Directors / Agency approving the Capital cost Estimates:	Board of Directors	
Date of approval of Capital cost estimates:	04-12-2023	
	<b>Present Day Cost</b>	<b>Completed Cost</b>
Price level of approved estimates	As of End of 3rd Quarter 2023	As on COD of the transmission element (i.e., 01-08-2024)
Foreign Exchange rate considered for the Capital cost Estimates	0.00	0.00
<b><u>CAPITAL COST EXCLUDING IDC, IEDC &amp; FC</u></b>		
Foreign Component, if any (In Million US \$ or the relevant Currency)	0.00	0.00
Domestic Component (Rs. Lakh)	35.65	34.36
<b>Total CAPITAL COST excluding IDC, IEDC, FC, FERV &amp; Hedging Cost (Rs. in Lakh)</b>	<b>35.65</b>	<b>34.36</b>
<b><u>IDC, IEDC, FC, FERV &amp; Hedging Cost</u></b>		
Foreign Component, if any (In Million US \$ or the relevant Currency)	0.00	0.00
Domestic Component (Rs. in Lakh)	5.92	1.00
<b>Total IDC, IEDC, FC, FERV &amp; Hedging Cost (Rs. In Lakh)</b>	<b>5.92</b>	<b>1.00</b>
Rates of Taxes & Duties considered	GST @ 18% & Entry Tax @ 4%	GST @ 18%
<b><u>Capital cost including IDC, FC, FERV &amp; Hedging Cost</u></b>		
Foreign Component, if any (In Million US \$ or the relevant Currency)	0.00	0
Domestic Component (Rs. in Lakh)	41.57	35.36
<b>Capital Cost including IDC, IEDC &amp; FC (Rs. in Lakh)</b>	<b>41.57</b>	<b>35.36</b>
<b>Schedule of Commissioning</b>		
Additional FOTE of STM-16 capacity (5-MSP, Tejas make) at Bhuj – II	07-01-2025	
<b>(Petitioner)</b>		



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Name of the Communication Asset Additional FOTE of STM-16 capacity (5-MSP, Tejas make) at Bhuj – II

Sl. No. (1)	Particulars (2)	As per original Estimate			Actual Capital Expenditure			Projected/actual cost of Deferred work to be capitalised after COD but before cut- 6	Variation between actual Cost and IA/RCE cost as on COD (7=(4-5+6)- 7	Reasons for Variation (8)	Undischarged Liabilities included in Col (4) 9	Admitted Cost (10)	Capital Work in progress as per Books of Account as on 11
		Quantity	Rate	Estimated Cost	Quantity	Rate	Actual Cost						
1	2	3			4			6	7	8	9	10	11
A.	TRANSMISSION LINE												
	Total - Transmission Lines			0.00			0.00	0.00	0.00		0.00	0.00	0.00
B.	SUBSTATIONS												
	Total (Sub-Station)			0.00			0.00	0.00	0.00		0.00	0.00	0.00
C.	COMMUNICATION SYSTEM												
9.1	Preliminary works												
9.2	Communication System equipment's	1.00	30.54	30.54	1.00	0.00	0.00	34.36	3.82	Cost of material as per actual received while execution of project.	0.0		
9.3	Taxes and Duties	1.00	5.11	5.11	1.00	0.00	-	-5.11	-5.11	As per actual			
9.4	Spares			0.00	0.00		-	0.00	0.00				
	Total Communication System			35.65			0.00	34.36	-1.29		0.00	0.00	0.00
10.0	Cost of Plant & Machinery			35.65			0.00	34.36	-1.29		0.00	0.00	0.00
11.0	Construction & Pre-commissioning expenses												
11.1	Site supervision & site administration, etc.												
11.2	Tools & Plants												
11.3	Construction Insurance												
	Total Construction & Pre-commissioning expenses			0.00			0.00	0.00	0.00		0.00	0.00	0.00
12.0	Overheads												
12.1	Establishment												
12.2	Audit & Accounts												
12.3	Contingency			1.04						As per actual			
12.4	ESTABLISHMENT			3.72			1.00	0.0	-2.72	As per actual			
	Total Overheads			4.76			1.00	0.00	-3.76		0.00	0.00	0.00
13.0	Capital Cost including Plant & Machinery												
13.1	Interest During Construction (IDC)			1.16			0.00	0.0	-1.16	As per actual			
13.2	Financing Charges (FC)												
13.3	Foreign Exchange Rate Variation (FERV)												
13.4	Hedging Cost												
	Total of IDC, FC, FERV & Hedging Cost			1.16			0.00	0.00	-1.16		0.00	0.00	0.00
14.0	Capital Cost including IDC, FC, FERV & Hedging Cost			41.57			1.00	34.36	-6.21		0.00	0.00	0.00



**Incidental Expenditure during Construction**

PART-III  
FORM-12A

Name of the Transmission Asset:

Additional FOTE of STM-16 capacity (5-MSP, Tejas make) at Bhuj - II

Date of Commercial Operation

01.08.2024

(Amount in

Sl. No.	Parameters	F/Y 2022-23	F/Y 2023-24	F/Y 2024-25	F/Y 2025-26	F/Y 2026-27	Total
<b>A</b>	<b>Expenses:</b>						
1	Communication Expenses	1.00	-	-	-	-	1.00
2	Corp. Centre/RHQ Expd. Transfer to WIP	-	-	-	-	-	-
3	Depreciation	-	-	-	-	-	-
4	Employees' Remuneration & Benefits	-	-	-	-	-	-
5	Vehicle Hiring Expd.	-	-	-	-	-	-
6	Other Office and Administrative Expenses	-	-	-	-	-	-
7	Security Expenses	-	-	-	-	-	-
8	Travelling Expd.	-	-	-	-	-	-
		-	-	-	-	-	-
	<b>Total Expenses (A)</b>	<b>1.00</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1.00</b>
<b>B</b>	<b>Less :-</b>						
1	Elec. Chrgs, Intt & License Fee Recovery from EmPLY	-	-	-	-	-	-
2	Interest on Advance to Contractors	-	-	-	-	-	-
3	Intt Income From FV of EmPLY Loans & Adv	-	-	-	-	-	-
4	Other Income / Misc. Receipts	-	-	-	-	-	-
	<b>TOTAL</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>IEDC TAKEN TO CERTIFICATES</b>	<b>1.00</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1.00</b>

*[Handwritten Signature]*



## Summary of issue involved in the petition

PART-III  
FORM- 15

1. Name of the Petitioner	POWERGRID Bhuj Transmission Limited
2. Petition Category	Transmission
3. Tariff Period	2024-29
4. Name of the Project	Requirement of additional FOTE of STM-16 capacity at Bhuj PS to cater to connectivity of RE Gencos
5. Investment Approval date	04.12.2023
6. SCOD of the Project	07.01.2025
7. Actual COD of the project	Asset-1: 01.08.2024
8. Whether entire scope is covered in the present petition.	Yes
9. No. of Assets covered in instant petition	1
10. No. of Assets having time over run	NIL
11. Estimated Project Cost as per IA	Rs.0.42 Cr
12. Is there any REC? if so, provide the date	No
13. Revised Estimated Project Cost (if any)	
14. Completion cost for all the assets covered in the instant petition.	Rs.0.35 Cr
15. No. of Assets covered in instant petition and having cost overrun.	NIL
16	Prayer in brief
17	Key details and any Specific issue involved:
18	Respondents

## Name of Respondents

1	MADHYA PRADESH POWER MANAGEMENT COMPANY LTD
2	MADHYA PRADESH AUDYOGIK KENDRA VIKAS NIGAM (INDORE) LTD
3	MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD.
4	GUJARAT URJA VIKAS NIGAM LTD.
5	ELECTRICITY DEPARTMENT, GOA
6	ELECTRICITY DEPARTMENT, DAMAN & DIU
7	DNH POWER DISTRIBUTION CORPORATION LIMITED
8	CHHATTISGARH STATE POWER DISTRIBUTION CO. LTD
9	MADHYA PRADESH POWER TRANSMISSION COMPANY LTD

(Petitioner)

बी. के. प्रधान / B. K. Pradhan  
परियोजना प्रभारी / Project Incharge  
पावरग्रिड भुज ट्रांसमिशन लिमिटेड  
POWERGRID BHUJ TRANSMISSION LIMITED



## Summary of Capital Cost &amp; Annual Fixed Cost (AFC) Claimed for ALL the assets covered in the present petition.

Name of the Petitioner	POWERGRID Bhuj Transmission Limited
Tariff Period	2024-29
Name of the Transmission Project	Requirement of additional FOTE of STM-16 capacity at Bhuj PS to cater to connectivity of RE Gencos
COD of the Project (if entire scope of project is completed)	01.08.2024

Rupees in lakh

## A) Summary of Capital Cost as on COD and Additional Capital Expenditure claimed for all the assets Covered in the instant petition.

S. No.	Asset No.	COD	Cut-off Date	i) Apportioned Approved Cost		ii) Summary of Actual/Projected Capital Cost						Capital Cost as on 31.03.2029	Total Completion Cost
				As per Investment approval	As per RCE	As on COD	2024-25	2025-26	2026-27	2027-28	2028-29		
		1	2	3	4	5	6	7	8	9	10=(5+6+7+8+9)	11	
1	Asset-1	05.01.2024	31.01.2027	42	NA	1	34.36	0	0	0	0	35.36	35.36
Total Capital Cost Claimed				42.00	0.00	1.00	34.36	0.00	0.00	0.00	0.00	35.36	35.36

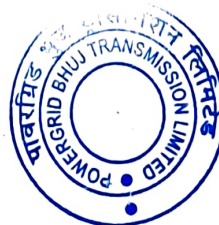
## B) Summary of Annual Fixed Cost (AFC) claimed for all the assets covered in the instant petition.

S. No.	Asset No.	Asset Name and its location	2024-25	2025-26	2026-27	2027-28	2028-29	
1	Asset-1	Additional FOTE of STM-16 capacity (5-MSP, Tejas make) at Bhuj - II			3.67	9.77	8.89	8.44
Total AFC for all the Assets			0	0	3.67	9.77	8.89	8.44

Note: 1) The purpose of this form is to summarise the Capital cost &amp; AFC claimed for all the assets covered in the instant petition.


 (Petitioner)

बी. के. प्रधान / B. K. Pradhan  
परियोजना प्रभारी / Project Incharge  
पावरग्रिड भुज ट्रांसमिशन लिमिटेड  
POWERGRID BHUJ TRANSMISSION LIMITED



## INDEX

PART-III

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


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



*[Handwritten signature]*



2	Region wise and Corporate audited Balance Sheet and Profit & Loss Accounts with all the Schedules & Annexure for the new Transmission System & Communication System for the relevant years.	NA
3	Copies of relevant loan Agreements	NA
4	Copies of the approval of Competent Authority for the Capital Cost and Financial package.	NA
5	Copies of the Equity participation agreements and necessary approval for the foreign equity.	NA
6	Copies of the BPTA/TSA/PPA with the beneficiaries, if any	NA
7	Detailed note giving reasons of cost and time over run, if applicable. List of supporting documents to be submitted: a. Detailed Project Report b. CPM Analysis c. PERT Chart and Bar Chart d. Justification for cost and time Overrun	NA
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.	NA
9.	BBMB is maintaining the records as per the relevant applicable Acts. Formats specified herein may not be suitable to the available information with BBMB. BBMB may modify formats suitably as per available information to them for submission of required information for tariff purpose.	NA
10.	Any other relevant information, (Please specify)	NA
<p><b>Note 1:</b> 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>		

  
 (Petitioner)  
 बी. के. प्रधान / B. K. Pradhan  
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