BEFORE THE CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI

Petition 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, 2024 for grant of separate RTM Transmission License to POWERGRID Bhuj Transmission Limited to implement transmission project "Augmentation of transformation capacity at Bhuj-II PS (GIS) & Provision of ICT Augmentation and Bus Reactor at Bhuj-II PS under "Regulated Tariff Mechanism" (RTM) Mode"

PETITION NO:

POWERGRID Bhuj Transmission Limited

(A 100% wholly owned subsidiary of Power Grid Corporation of India Limited)

Registered office:

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

Address for Correspondence:

C/o ED (TBCB), Power Grid Corporation of India Limited

Saudamini, Plot no.2, Sector -29, Gurgaon 122001

पावरग्रिड भुज ट्रांसमिशन लिमिटेड
POWERGRID BHUJ TRANSMISSION LIMITED

Basant Kumar Pradhan

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BEFORE THE HON'BLE CENTRAL ELECTRICITY REGULATORY COMMISSION

NEW DELHI

PETITION No:

IN THE MATTER OF

Petition 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, 2024 for grant of separate RTM Transmission License to POWERGRID Bhuj Transmission Limited to implement transmission project "Augmentation of transformation capacity at Bhuj-II PS (GIS) & Provision of ICT Augmentation and Bus Reactor at Bhuj-II PS under "Regulated Tariff Mechanism" (RTM) Mode."

POWERGRID Bhuj Transmission Limited .....**PETITIONER**

AND

Madhya Pradesh Power Management Company Ltd
And others .....**RESPONDENT(S)**

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POWERGRID BHUJ TRANSMISSION LIMITED

Basant Kumar Pradhan

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Filed by
POWERGRID Bhuj Transmission Limited

Basant Kumar Pradhan
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Date: 2025.06.05 12:17:56 +05'30'

Represented By

Date:

Place:

Project Incharge
POWERGRID Bhuj Transmission Limited

पावरग्रिड भुज ट्रांसमिशन लिमिटेड POWERGRID BHUJ TRANSMISSION LIMITED

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

Basant Kumar Pradhan
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BEFORE THE CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI

PETITION No:

IN THE MATTER OF

Petition 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, 2024 for grant of separate RTM Transmission License to POWERGRID Bhuj Transmission Limited to implement transmission project "Augmentation of transformation capacity at Bhuj-II PS (GIS) & Provision of ICT Augmentation and Bus Reactor at Bhuj-II Pooling Station through "Regulated Tariff Mechanism" (RTM) Mode.

POWERGRID Bhuj Transmission Limited
Registered office: B-9, Qutab Institutional Area,
Katwaria Sarai, New Delhi 110 016
Address for correspondence: C/o ED (TBCB),
Power Grid Corporation of India Limited, Saudamini,
Plot no.2, Sector -29, Gurgaon 122001 .....**Applicant**

Versus

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

NOTARY
C. H. ACHARYA
KACHCHH
GUJARAT STATE
REG. NO. 24145/24
EXP. DT.
17/10/2029
GOVT. OF INDIA

To,
The Secretary,
Central Electricity Regulatory Commission,
6th, 7th & 8th Floors, Tower B, World Trade Centre,
Nauroji Nagar, New Delhi- 110029.

Sir,
Petition 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, 2024 for grant of separate RTM

POWERGRID BHUJ TRANSMISSION LIMITED

Basant Kumar Pradhan
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Transmission License to POWERGRID Bhuj Transmission Limited to implement transmission project "Augmentation of transformation capacity at Bhuj-II PS (GIS) & Provision of ICT Augmentation and Bus Reactor at Bhuj-II Pooling Station through "Regulated Tariff Mechanism" (RTM) Mode may please be registered.

Represented By

Date: 05.06.2025

Place: Bhuj

Project Incharge

POWERGRID Bhuj Transmission Limited

Basant Kumar Pradhan

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Date: 2025.06.05 12:19:03 +05'30'

Applicant

POWERGRID Bhuj Transmission Limited

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

Basant Kumar Pradhan

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BEFORE THE CENTRAL ELECTRICITY REGULATORY COMMISSION

NEW DELHI

PETITION No:

IN THE MATTER OF

Petition 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, 2024 for grant of separate RTM Transmission License to POWERGRID Bhuj Transmission Limited to implement transmission project "Augmentation of transformation capacity at Bhuj-II PS (GIS) & Provision of ICT Augmentation and Bus Reactor at Bhuj-II Pooling Station through "Regulated Tariff Mechanism" (RTM) Mode.

POWERGRID Bhuj Transmission Limited **.....PETITIONER**

AND

Madhya Pradesh Power Management Company Ltd And others **.....RESPONDENT(S)**

MEMO OF PARTIES

POWERGRID Bhuj Transmission Limited **.....Applicant**

VERSUS

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. GUJARAT URJA VIKAS NIGAM LTD.
   SARDAR PATEL VIDYUT BHAWAN,
   RACE COURSE ROAD,
   VADODARA - 390 007
   EMAIL- DEC.SP.GUVNL@GEBMAIL.COM

Basant Kumar Pradhan

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Date: 2025.06.05 12:19:59 +05'30'

CONTACT NO- 7069009628

3. MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD.
PRAKASHGAD, PLOT NO G-9,
A K MARG, BANDRA (EAST), MUMBAI-400 051
EMAIL- CEPPMSEDCL@GMAIL.COM
CONTACT NO- 9833387967
REPRESENTED BY ITS MD

4. ELECTRICITY DEPARTMENT
VIDYUT BHAWAN, GOVT. OF GOA, PANAJI, GOA - 403 001
EMAIL- 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
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
CONTACT NO- 982618253
REPRESENTED BY ITS CHAIRMAN

7. CHIEF OPERATING OFFICER,
CENTRAL TRANSMISSION UTILITY INDIA LIMITED (CTUIL)
SAUDAMINI, PLOT NO.2, SECTOR -29,
GURGAON 122001.

8. CHIEF ENGINEER,
POWER SYSTEM PROJECT MONITORING DIVISION
CENTRAL ELECTRICITY AUTHORITY,
SEWA BHAWAN, R. K. PURAM,
SECTOR-1, NEW DELHI - 110 066.

9. ADANI GREEN ENERGY LIMITED
ADANI HOUSE 4TH FLOOR,
SOUTH WING, SHANTI GRAM, S.G HIGHWAY,
AHMEDABAD-382421

POWERGRID BHUJ TRANSMISSION LIMITED

Basant Kumar Pradhan
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Date: 2025.06.05 12:20:19 +05'30'

10. ADITYA BIRLA RENEWABLE SUBSIDIARY LIMITED
A-4, ADITYA BIRLA CENTRE,
S K AHIRE MARG,
WORLI, MUMBAI - 400030,
MAHARASHTRA, INDIA EMAIL: ABREL@ADITYABIRLA.COM

11. ACME CLEANTECH SOLUTIONS PRIVATE LIMITED
PLOT NO.152, SECTOR - 44,
GURUGRAM - 122 002,
HARYANA, INDIA

12. AVAADA ENERGY PVT LTD.
910, SURYA KIRAN BUILDING,
KASTURBA GANDHI MARG,
NEW DELHI - 110001, INDIA.

13. ADANI GREEN ENERGY THIRTY-TWO LTD.
ADANI CORPORATE HOUSE,
SHANTIGRAM, NR. VAISHNO DEVI CIRCLE,
S G HIGHWAY, KHODIYAR,
AHMEDABAD GJ 382421 IN

14. ADANI RENEWABLE ENERGY EIGHT LTD.
ADANI CORPORATE HOUSE,
SHANTIGRAM, NEAR VAISHNODEVI CIRCLE,
SG HIGHWAY, KHODIYAR
AHMEDABAD, GUJARAT INDIA 382421

POWERGRID BHUJ TRANSMISSION LIMITED

Basant Kumar Pradhan
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Date: 2025.06.05 12:20:48 +05'30'

BEFORE
THE CENTRAL ELECTRICITY REGULATORY COMMISSION,
NEW DELHI

Petition No. .....

IN THE MATTER OF

Petition 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, 2024 for grant of separate RTM Transmission License to POWERGRID Bhuj Transmission Limited (earlier known as Bhuj-II Transmission Limited) to implement transmission project " Augmentation of transformation capacity at Bhuj-II PS (GIS) & Provision of ICT Augmentation and Bus Reactor at Bhuj-II PS under "Regulated Tariff Mechanism" (RTM) Mode.

POWERGRID Bhuj Transmission Limited **.....PETITIONER**

AND

Madhya Pradesh Power Management Company Ltd
And others **...RESPONDENT(S)**

The Petitioner respectfully submits as under:

1. The Petitioner, **POWERGRID Bhuj Transmission Limited** ("hereinafter referred to as Petitioner") is a Wholly Owned Subsidiary of Power Grid Corporation of India Limited (POWERGRID).

2. The Petitioner is an Inter-State Transmission Licensee and is implementing the transmission project "**Transmission System for providing connectivity to RE Projects at Bhuj-II (2000 MW) in Gujarat**" on Build, Own, Operate and Maintain (BOOM) basis through TBCB route (hereinafter referred to as "TBCB Project"). This Hon'ble Commission vide order dated 03.03.2020 passed in Petition No. 447/TL/2019 granted transmission license for aforesaid TBCB Project.

   A copy of license order dated 03.03.2020 is annexed and marked as Annexure I to the Petition.

Basant Kumar Pradhan
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3. The detailed scope of "**Transmission System for providing connectivity to RE Projects at Bhuj-II (2000 MW) in Gujarat**" consists of the following elements, which have already been commissioned: -

Sl. No.	Project elements
1	Establishment of 2x1500 MVA (765/400 kV), 4x500 MVA (400/220 kV) Bhuj-II PS (GIS) with 765kV (1x330 MVAr) and 420 kV (125 MVAr) bus reactor (2x1500 MVA (765/400 kV), 4x500 MVA (400/220 kV), 1x500 MVA (765/400 kV), 1-ph ICT (spare unit) 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 MVAr-765kV 1x110 MVAr-765kV,1ph Reactor (spare unit) 1x125MVAr-420kV 765kV reactor Bays-1 no. 400kV reactor Bays-1 no. 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.

POWERGRID BHUJ TRANSMISSION LIMITED

Basant Kumar Pradhan

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Sl. No.	Project elements
	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
	1x240 MVAr switchable line reactor for each circuit at Bhuj–II PS end of Bhuj-II – Lakadia 765kV D/C line (2x240 MVAr, 765 kV with 400-ohm NGR; 765 kV Reactor Bays-2 nos; 1x80 MVAr, 765 kV, 1-ph switchable line Reactor (spare unit) at Bhuj–II end)

4. It is submitted that CTU vide Office Memorandum (OM) dated 10.07.2023 assigned POWERGRID Bhuj Transmission Limited (Petitioner) to implement transmission project namely *"Requirement of additional Fiber Optic Terminal Equipment (FOTE) of STM-16 capacity at Bhuj-II substation to cater to connectivity of RE Gencos"* under Regulated Tariff Mechanism mode. Accordingly, PBTL had filed the petition No. 44/TL/2024 under section 14 of the Electricity Act, 2003 read with Transmission License Regulation, 2009 for the grant of a separate RTM license.

5. Hon'ble Commission vide its order dated 10.07.2024 in petition 44/TL/2024 observed that a transmission licence can be granted to a transmission element that transmits electricity and the instant element (FOTE) does not fulfil the requirements for the grant of a separate transmission licence under the Electricity Act, 2003 as FOTE is the integral part of the "Transmission System for providing connectivity to RE Projects at Bhuj-II (2000 MW) in Gujarat" and license for this Project has already been granted to the Petitioner. Therefore, Hon'ble Commission directed Petitioner to implement the scheme as per the scope of work approved by the NCT. After implementation of the scheme, the Petitioner was directed to approach the Commission for recovery of expenditure incurred in implementation of the FOTE scheme.

Copy of order dated 10.07.2024 is marked as Annexure II to the Petition.

POWERGRID BHUJ TRANSMISSION LIMITED

Basant Kumar Pradhan

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6. Subsequently, Central Transmission Utility of India Limited (CTUIL) has issued an OM dated 24.02.2025 to the Petitioner based on the approval granted by the National Committee on Transmission in its 27th Meeting held on 06.02.2025 and in pursuance conveyed to CTUIL vide its letter dated 24.02.2025 wherein Petitioner has been nominated to implement the ISTS transmission scheme i.e., **"Augmentation of Transformation capacity at Bhuj-II PS (GIS)"** covered under the instant petition through "Regulated Tariff Mechanism" (RTM) mode. The estimated cost of the scheme as per CTUIL OM dated 24.02.2025 is Rs. 428 Crores.

Copy of the CTUIL OM dated 24.02.2025 is attached as **Annexure III (A)**.

7. The detailed scope of ISTS Transmission scheme i.e., **"Augmentation of Transformation capacity at Bhuj-II PS (GIS)** is given below: -

Sl.No	Scope of the Transmission Scheme	Item Description	Implementation timeframe
1.	i) Creation of New 220kV Bus Section-II at Bhuj-II PS	Bhuj-II PS 220kV Bus sectionaliser bay - 1 Set (to be kept normally CLOSED and may be opened based on system requirement) 220 kV BC – 1 No.	21 months
	ii)Augmentation of transformation capacity at Bhuj II PS (GIS) by 2x500 MVA, 400/220 kV ICT (5th & 6th) and by	500 MVA, 400/220 kV ICTs: 2 Nos. 1500 MVA, 765/400 kV ICTs: 1 No. 765 kV ICT bay: 2 No. [1 No. for ICT & 1 No. for Dia. completion	

POWERGRID BHUJ TRANSMISSION LIMITED

Basant Kumar Pradhan

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	1x1500 MVA, 765/400 kV ICT (3rd)	(with provision of Switchable LR)] 400 kV ICT bays: 4 Nos. [3 Nos. for ICT termination and 1 No. for Dia. completion (with provision of Switchable LR)] 220 kV ICT bays: 2 Nos. **GIB Duct length for 1x1500 MVA, 765/400 kV ICT:** 1 Ph. 765 kV GIB Duct -600 m (approx.) 1 Ph. 400 kV GIB Duct – 625 m. (approx.) **GIB Duct length for 2x500 MVA, 400/220 kV ICTs:** 1 Ph. 400 kV GIB – 300 m (approx.) 1 Ph. 220 kV GIB – 750 m (approx.)	
	Implementation of 220 kV GIS line bay at Bhuj-II PS for ABREL (RJ) Projects Limited	220 kV line bay – 1 No. (GIS) **GIB Duct length:** 1 Ph. 220 kV GIB – 150 m (approx.)	
2	**Total Estimated Cost:**		**Rs. 428 Crs**

Note: • Wherever required, TSP shall implement complete Dia consisting of 2 Main Bays & 1 Tie Bay required for completion of diameter (GIS) in one-and-half breaker scheme.

• GIB Bus Duct lengths are as communicated TSP of Bhuj-II PS.

• Petitioner (PBTL) PBTL of Bhuj-II PS shall provide space for execution of above works

8. Additionally, Central Transmission Utility of India Limited (CTUIL) has issued another OM dated 18.03.2025 to the Petitioner based on the approval granted by MOP vide its letter dated 18.03.2025 wherein it conveyed to CTUIL that Petitioner has been nominated to implement the ISTS transmission scheme i.e., **Provision of ICT Augmentation and Bus Reactor at Bhuj-II PS** covered under the instant Petition through "Regulated Tariff Mechanism" (RTM) mode. The estimated cost of the scheme as per CTUIL OM dated 18.03.2025 is Rs. 587 Crores. It is to be mentioned that detailed scope of this transmission

scheme was earlier discussed and approved by 20th NCT and subsequent amendment thereof.

Copy of the CTUIL OM dated 18.03.2025 is attached as Annexure -III (B)

9. That the above ISTS Transmission scheme is costing greater than Rs. 500 Crores and hence has been approved by MOP based on the recommendations of 27th meeting of National Committee on Transmission (NCT) under RTM mode. The detailed scope of the transmission scheme is as follows:

Sl. No	Scope of the Transmission Scheme	Item Description	Implementation timeframe
1	Augmentation of transformation capacity at Bhuj-II PS (GIS) by 3x500 MVA, 400/220 kV ICT (7th, 8th & 9 th).	500 MVA, 400/220 kV ICTs: 3 No. 400 kV ICT bays: 3 No. (with addl. 3 Nos. for dia completion) 220 kV ICT bays: 3 No	21 months
2	Augmentation of transformation capacity at Bhuj-II PS (GIS) by 1x1500 MVA, 765/400 kV ICT (4th)	1500 MVA, 765/400 kV ICT: 1 No. 765 kV ICT bay: 1 No. (with addl. 1 No. for dia completion) 400 kV ICT bay: Nil. (1 No. considered at Sl. No.1 above)	
3	Installation of 1x330 MVAr 765 kV Bus Reactor (2nd) along-with associated bay	Reactor (2nd) along-with associated bay 330 MVAr, 765 kV Bus Reactor: 1 No. 765 kV BR bay: Nil (1 No. considered at Sl. No.2 above)	
4	Implementation of 220 kV GIS line bay at Bhuj-II PS for Aditya Birla Renewables Subsidiary Limited (ABRSL)	220 kV line bay – 1 No. (GIS) (Bus Sec-II)	21 months
5	Implementation of 220 kV GIS line bay at Bhuj-II PS for ACME Cleantech Solutions Private Limited (ACSPL)	220 kV line bay – 1 No. (GIS) (Bus Sec-II)	
6	Implementation of 220 kV GIS line bay at Bhuj-II PS for ACME Cleantech Solutions Private Limited (ACSPL)	220 kV line bay – 1 No. (GIS) (Bus Sec-II)	
7	Implementation of 220 kV GIS line bay at Bhuj-II PS for Avaada Energy Pvt Ltd	220 kV line bay – 1 No. (GIS) (Bus Sec-II)	
8	Implementation of 220 kV GIS line bays at Bhuj-II PS for Adani Green Energy ThirtyTwo Ltd. (AGE32L)	220 kV line bay – 1 No. (GIS) (Bus Sec-II)	21 months
9	Implementation of 220 kV GIS line bays at Bhuj-II PS for Adani Renewable Energy Eight Ltd. (ARE8L)	220 kV line bay – 1 No. (GIS) (Bus Sec-II)	
10		**Total estimated cost**	**Rs. 587 Crores**

Basant Kumar Pradhan

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Copy of the 27th NCT meeting dated 06.02.2025 is attached as Annexure -IV to the Petition.

10. It is submitted that the above two transmission schemes "*Augmentation of transformation capacity at Bhuj-II PS (GIS)*" & "*Provision of ICT Augmentation and Bus Reactor at Bhuj-II PS*" was agreed in the 16th and the 20th meeting of NCT meeting held on 30.11.2023 and 26.06.2024 respectively under TBCB route. However, despite multiple attempts by the Bid Process Coordinator, only single bid has been received by BPC for both the above projects. Therefore, in a meeting held under the chairmanship of Secretary (Power), it was recommended that NCT may consider the above two transmission schemes for allotment under the RTM. Consequently, after deliberations NCT in its 27th meeting approved the implementation of above two ISTS transmission scheme under RTM mode by POWERGRID Bhuj Transmission Limited.

11. That the Instant Application is for grant of separate transmission license to the applicant for implementation of above scope of work under RTM mode. The application is being preferred in accordance with Transmission License Regulations, 2024.

12. That Section 15(1) of the Electricity Act, 2003 provides that every application under section 14 shall be made in such a manner and in such a form as may be specified by the Appropriate Commission and shall be accompanied by such fees as may be prescribed. Further, Hon'ble Commission has notified Central Electricity Regulatory Commission (Procedure, Terms and Conditions for Grant of Transmission License and other related matters) Regulations, 2024 vide notification dated 23.05.2024.

13. That Regulation 4 (1)(b) of Transmission License Regulations, 2024 allows an entity selected by the Central Government or its authorized agency to implement a project under the regulated tariff mechanism to apply for grant of transmission license. Relevant extracts are as follows;

4. Eligibility for Grant of licence

(1) No person shall be eligible for grant of licence for inter-State

POWERGRID BHUJ TRANSMISSION LIMITED

Basant Kumar Pradhan

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transmission of electricity unless it is,

(a) selected through the process under the competitive bidding guidelines issued under section 63 of the Act; or

(b) an entity selected by the Central Government or its authorized agency to implement a project under the regulated tariff mechanism.

14. In light of aforementioned, the present Petition is being filed for grant of separate RTM Transmission License to POWERGRID Bhuj Transmission on Limited to include transmission system which includes "**Augmentation of transformation capacity at Bhuj-II PS (GIS) & Provision of ICT Augmentation and Bus Reactor at Bhuj-II Pooling Station**" as detailed at para 6-9 hereinabove under Section 14 of the Electricity Act, 2003 read with Regulation 4(1)(b) of the Transmission License Regulations, 2024 and the Petitioner meets the eligibility criterion.

15. The Petitioner humbly submits that this Hon'ble Commission may be pleased to grant the separate RTM Transmission License to Petitioner to include scope of works under RTM as detailed at para 6-9 hereinabove.

16. It is submitted that upon grant of the separate RTM Transmission License, the Petitioner shall implement the aforementioned scheme under RTM mode. On completion of the Project, the Petitioner shall approach the Hon'ble Commission with the actual cost incurred for determination of transmission charges in accordance with Section 61, 62 of the Electricity Act, 2003 and Tariff Regulations in vogue as per 10 (2) of the Transmission License Regulations, 2024.

17. It is respectfully submitted that in terms of Transmission License Regulations, Petitioner has fulfilled the following:

a) The Applicant has mapped CTUIL on the e-portal of this Hon'ble Commission & the Applicant has also sent a copy of the present Petition to CTUIL via e-

Basant Kumar Pradhan

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mail in accordance with the requirement under section 15 (3) of the Electricity Act, 2003 and Regulation 5 (3) of Transmission License Regulations, 2024 for its recommendation under section 15 (4) of the Electricity Act, 2003 and Regulation 5 (9) of Transmission License Regulations, 2024.

b) That a copy of the Application has also been marked to Designated ISTS Customers (DICs) and beneficiaries of the Western Region as party to the Petition. The Petitioner has also impleaded Aditya Birla Renewable Subsidiary Limited (ABRSL), ACME Cleantech Solutions Private Limited (ACSPL), Avaada Energy Pvt limited (AEPL), Adani Green Energy Thirty-Two Ltd., Adani Renewable Energy Eight Ltd. (ARE8L), the entities corresponding to whose applications for grant of connectivity, the Petitioner is implementing the corresponding transmission elements in terms of the decision in the NCT Meeting. The petitioner has also impleaded all other the necessary parties including Distribution Companies (Discoms) of Gujarat, Madhya Pradesh and Maharashtra which inter-alia includes Gujarat Urja Vikas Nigam Limited Madhya Pradesh Power Management Company Limited, Maharashtra Electricity Distribution Co. Ltd. If this Hon'ble Commission deems it necessary to implead any other interested party, then Petitioner shall implead such party as directed by this Hon'ble Commission.

c) Duly filled in **Form I** for grant of transmission License in accordance with the Transmission License Regulations, 2024 is enclosed herewith and marked as **Annexure-V** to the Petition.

d) The application along with Form-I is being hosted on the website and is accessible on www.powergrid.in/subsidiaries in compliance with Regulation 5(4) of Transmission License Regulations, 2024. It is undertaken that notice of the Application as per Form-II of Transmission License Regulations shall be posted on the e-filing portal of the Commission and also on the Applicant's website in compliance with Regulation 5 (4) of Transmission License Regulations, 2024.

e) In compliance with Regulation 5(5) Transmission License Regulations, 2024, the notice of the Application as per Form-II of Transmission License Regulations shall be published in two leading daily digital newspapers, one

Basant Kumar Pradhan
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in English and another in Hindi i.e., Indian language of the Madhya Pradesh state where the elements of the projects are situated for inviting comments from general public. The notice shall also be kept posted on the website of the applicant.

f) Appropriate fee for instant Petition stands paid

18. It is submitted that Section 14 of the Electricity Act, 2003 empowers the Appropriate Commission to grant the transmission License and as such this Hon'ble Commission has jurisdiction to grant the separate RTM transmission license to the Petitioner for implementation of scope of works as detailed at para 6-9 above.

PRAYER

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

a) Grant the separate RTM Transmission License to Petitioner to implement transmission system includes "**Augmentation of transformation capacity at Bhuj-II PS (GIS) & Provision of ICT Augmentation and Bus Reactor at Bhuj-II Pooling Station**" as detailed at para 6-9 above.

b) Allow the Petitioner the liberty to approach the Hon'ble Commission with actual cost on completion of works for determination of transmission charges for the aforementioned additional scope in accordance with Section 61, 62 of the Electricity Act, 2003 and applicable Tariff Regulations as per 10 (2) of the Transmission License Regulations, 2024.

c) Condone any inadvertent omissions/ shortcomings/ errors and permit the Petitioner to add/ modify/ alter this Petition and make further submissions as may be required at a future date.

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d) Pass such other orders, as may be deemed fit and proper in the facts & circumstances of the case.

POWERGRID Bhuj Transmission Limited

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Represented by

Project In-Charge

POWERGRID Bhuj Transmission Limited

Date: 05.06.2025

Place: Bhuj

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

पावरग्रिड भुज ट्रांसमिशन लिमिटेड
POWERGRID BHUJ TRANSMISSION LIMITED

Basant Kumar Pradhan

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BEFORE THE CENTRAL ELECTRICITY REGULATORY COMMISSION

NEW DELHI

PETITION No :.....

IN THE MATTER OF

Petition 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, 2024 for grant of separate RTM Transmission License to POWERGRID Bhuj Transmission Limited to implement transmission project "**Augmentation of transformation capacity at Bhuj-II PS (GIS) & Provision of ICT Augmentation and Bus Reactor at Bhuj-II PS under "Regulated Tariff Mechanism" (RTM) Mode"**

POWERGRID Bhuj Transmission Limited .....**PETITIONER**

AND

Madhya Pradesh Power Management Company Ltd And others .....**RESPONDENT(S)**

AFFIDAVIT

I, BASANT KUMAR PRADHAN, S/o DAMBARUDHAR PRADHAN residing at, 113, POWERGRID RESIDENCY, SEC. 21-C FARIDABAD -A21001 do hereby solemnly affirm and state as follows:

1. I am the Authorised Signatory of the Petitioner Company in the above matter and I am duly authorized to affirm this affidavit. I say that I am conversant with the facts and circumstances of this case.
2. The statements made in paragraphs of the Petition are true to the best of my knowledge and belief based on the information received and I believe them to be true.
3. I say that there are no proceedings pending in any court of law/tribunal or arbitrator or any other authority, wherein the Petitioner is a party and where issues arising

POWERGRID BHUJ TRANSMISSION LIMITED

Basant Kumar Pradhan

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and / or reliefs sought are identical or similar to the issues in the matter pending before the Hon'ble Commission.

Basant Kumar Pradhan

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Date: 2025.06.05 12:38:40 +05'30'

Deponent

VERIFICATION:

I do hereby solemnly affirm that the contents of the above affidavit are true to the best of my knowledge, no part of it is false and nothing material has been concealed therefrom.

Verified by me on this 05...day of June 2025 at Bhuj.

Basant Kumar Pradhan

Digitally signed by Basant Kumar Pradhan
Date: 2025.06.05 12:38:26 +05'30'

Deponent

पावरग्रिड भुज ट्रांसमिशन लिमिटेड
POWERGRID BHUJ TRANSMISSION LIMITED

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

NOTARY C. H. ACHARYA KACHCHH GUJARAT STATE REG. NO. 24148/24 EXP. DT. 17/10/2029 GOVT. OF INDIA

Solemnly Affirmed Beforeme
by. Basant Kumar Pradhan
Who is identified by.....
Whom I Know Personally.

C. H. ACHARYA
NOTARY
GOVT. OF INDIA

Sr. No. 1436
Book No. 07
Page No. 74
Date 05 JUN 2025

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CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI

Petition No. 447/TL/2019

Coram:
Shri P.K. Pujari, Chairperson
Shri I. S. Jha, Member

Date of Order: 3rd of March, 2020

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 Licence and other related matters) Regulations, 2009 with respect to Transmission Licence to Bhuj-II Transmission Limited.

And
In the matter of

Power Grid Bhuj Transmission Limited (PBTL)
B-9, Qutab Institutional Area,
Katwaria Sarai, New Delhi – 110 01

....**Petitioner**

Vs

1) Netra Wind Private Limited
B 504, Delhi Building, Orchard Avenue,
Sector No. 3, Hiranandani Business Park,
Powai, Mumbai- 400 076.

2) Adani Green Energy Limited
Adani House, 4th Floor,
South Wing, Shantigram, S.G Highway,
Ahmedabad-382 421.

3) PFC Consulting Limited
9th Floor, A-Wing,
Statesman House, Connaught Place,
New Delhi-110 001.

4) Power Grid Corporation of India Limited
Saudamini, Plot No. 2, Sector-29
Gurgaon -122 0010.

.....**Respondents**

Parties present:

Shri B. Vamsi, PBTL

पावरग्रिड भुज ट्रांसमिशन लिमिटेड
POWERGRID BHUJ TRANSMISSION LIMITED

Basant Kumar Pradhan
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ORDER

The Petitioner, Powergrid Bhuj Transmission Limited has filed the present Petition for grant of transmission licence under Section 14 of the Electricity Act, 2003 (hereinafter referred to as 'the Act') read with Central Electricity Regulatory Commission (Procedure, Terms and Conditions for Grant of Transmission Licence and other related matters) Regulations, 2009 (hereinafter referred to as 'Transmission Licence Regulations') to establish "Transmission System for providing connectivity to RE Projects at Bhuj-II (2000 MW) in Gujarat" (hereinafter referred to as "Transmission System" or "Project") on Build, Own, Operate and Maintain (BOOM) basis comprising the following elements:

Sr. No.	Name of the Transmission Element	Scheduled COD from Effective Date
1.	Establishment of 2x1500 MVA (765/400 kV), 4x500 MVA (400/220 kV) Bhuj-II PS (GIS) with 765kV (1x330 MVAr) and 420 kV (125 MVAr) bus reactor (2x1500 MVA (765/400 kV), 4x500 MVA (400/220 kV), 1x500 MVA (765/400 kV), 1-ph ICT (spare unit) 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 MVAr-765kV 1x110 MVAr-765kV,1ph Reactor (spare unit) 1x125MVAr-420kV 765kV reactor Bays -1 no. 400kV reactor Bays -1 no. 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.	December 31, 2020

Basant Kumar Pradhan

Sr. No.	Name of the Transmission Element	Scheduled COD from Effective Date
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 MVAr switchable line reactor for each circuit at Bhuj–II PS end of Bhuj-II Lakadia 765kV D/c line (2x240 MVAr, 765 kV with 400 ohm NGR; 765 kV Reactor Bays-2 nos; 1x80 MVAr, 765 kV, 1-ph switchable line Reactor (spare unit) at Bhuj–II end)	

2. Based on the competitive bidding carried out by PFC Consulting Limited (hereinafter referred to as 'PFCCL') in accordance with the Guidelines issued by Ministry of Power, Government of India under Section 63 of the Act, M/s Power Grid Corporation of India Limited emerged as the successful bidder with the lowest levelized transmission charges of Rs.1237.67 million per annum.

3. The Commission after considering the application of the Petitioner in the light of the provisions of the Act and the Transmission Licence Regulations in its order dated 24.1.2020 *prima facie* proposed to grant licence to the Petitioner. Relevant para of our order dated 24.1.2020 is extracted as under:

"19. We have considered the submissions of the Petitioner and BPC. The proviso to Clause 2.4 of the RfP provides that "if for any reason attributable to the BPC, the said activities are not completed by the Selected Bidder within the above period of ten (10) days as mentioned in this clause, such period of 10 days shall be extended, on a day to day basis till the end of the Bid validity period". Though LoI was issued on 31.7.2019, BPC, vide its letter dated 16.10.2019, in terms of Clauses 2.4, 2.5 and 2.6 of RfP extended the date upto 26.10.2019 for completion of all activities by the successful bidder. The selected bidder furnished the Contract Performance Guarantee to the Long Term Transmission Customers of the Project for an amount of Rs. 58.95 crore and has acquired hundred percent equity-holding in the applicant company on 16.10.2019 after execution of the Share Purchase Agreement. The TSP on behalf of the selected bidder filed the Application for grant of transmission licence and adoption of tariff on 22.10.2019. Considering the material on record, we are *prima-facie* of the view that the Petitioner satisfies the conditions for grant of inter-State transmission licence under Section 15 of the Act read with Transmission Licence Regulations for construction, operation and maintenance of the Transmission System as described in para 1 of this order. We, therefore, direct that a public notice under clause (a) of sub-section (5) of Section 15 of the Act be published to invite suggestions or objections to grant of transmission licence

aforesaid. The objections or suggestions, if any, be filed by any person before the Commission, by 12.2.2020."

4. A public notice under Section 15 (5) of the Act was published on 30.1.2020 in all editions of Hindustan Times (English) and Dainik Jagran (Hindi). No suggestions/objections have been received from the members of the public in response to the public notice.

5. The Petitioner, vide order dated 24.1.2020, was directed to file an affidavit to the effect that the execution of the transmission project shall not be delayed due to time taken in obtaining statutory clearances required under RfP and the Transmission Service Agreement (TSA) or adjudication of any claim of the Petitioner arising under the TSA. In response, the Petitioner vide its affidavit dated 4.2.2020 has submitted that the transmission Project is being governed by the pre-signed TSA dated 23.4.2019 and all the terms of the TSA including Article 16 of the TSA are integral part of the TSA and are binding on the signatories of the agreement. The Petitioner has submitted that in terms of the TSA, it would implement the Project as per the provisions of the Article 16.4 of the TSA which is extracted as under:

> "16.4. Parties to Perform Obligation: Notwithstanding the existence of any Dispute and difference referred to the Appropriate Commission or the Arbitration Tribunal as provided in Article 16.3 and save as the Appropriate Commission or the Arbitration Tribunal may otherwise direct by a final or interim order, the Parties hereto shall continue to perform their respective obligations (which are not in dispute) under this Agreement."

6. The Petitioner has submitted that the time over-run and cost over-run shall be claimed by the Petitioner in accordance with the applicable provisions of the TSA read with the provisions of the Electricity Act, 2003, bidding documents and the Regulations of the Commission.

7. In our order dated 24.1.2020, the following provisions of the TSA with regard to quality control and workmanship were taken note of:

(a) As per Article 5.1.1 of the TSA, the TSP at its own cost and expense, shall be responsible for designing, constructing, erecting, completing and commissioning each element of the Project by Scheduled COD in accordance with the various regulations of the Central Electricity Authority.

(b) Article 5.4 of the TSA provides that the TSP shall ensure that the Project is designed, built and completed in a good workmanlike manner using sound engineering and construction practices and using only materials and equipment that are new and of international utility grade quality such that the useful life of the Project will be till the expiry date.

(c) The design, construction and testing of all equipment, facilities, components and systems of the project shall be in accordance with Indian Standards and Codes issued by Bureau of India Standards.

Accordingly, the Petitioner was directed to submit the information with regard to quality control mechanism available or to be put in place to ensure the compliance of the requirements stipulated in Article 5.1.1 and Article 5.4 of the TSA.

8. The Petitioner, vide its affidavit dated 4.2.2020, has submitted that in terms of the TSA, it would implement the Project as per the provisions of the Article 5 of the TSA dealing with construction of the Project. The Petitioner has submitted that the provisions of the TSA including those related to quality control during construction of the Project are binding on the parties. The Petitioner has submitted that it is a wholly owned subsidiary of Power Grid Corporation of India Limited (PGCIL) and follows the same quality standards and practices as are being followed by PGCIL.

9. We have considered the submission of the Petitioner. In the TSA, there is provision for the lead LTTC to designate upto three employees for inspection of the progress of the Project. Further, the Petitioner is required to give a monthly progress report to the lead LTTC and the CEA about the Project and its execution. The TSA also vests a responsibility in the CEA to carry out random inspection of the Project as and when deemed necessary. We consider it necessary that CEA devises a mechanism for random inspection of the Project every three months to ensure that the Project is not only being executed as per the schedule, but the quality of equipment and workmanship of the Project conform to the Technical Standards and Grid Standards notified by CEA and IS Specifications. In case of slippage in execution of the Project within the timeline specified in the TSA or any non-conformance to the Grid Standards/Technical Standards/IS Specifications, CEA is requested to promptly bring the same to the notice of the Commission so that appropriate direction can be issued to the licensee for compliance.

10. CTU through its recommendation for grant of transmission licence to the Petitioner has placed documents on record regarding compliance of Regulations 9.1 and 9.2 of the Central Electricity Regulatory Commission (Planning, Coordination and Development of Economic and Efficient Inter-State Transmission System by Central Transmission Utility and other related matters) Regulations, 2018.

11. As regard the grant of transmission licence, Clauses (15) and (16) of Regulation 7 of Transmission Licence Regulations provide as under:

> "(15) The Commission may after consideration of the further suggestions and objections, if any, received in response to the public notice as aforesaid, grant licence as nearly as practicable in Form-III attached to these regulations or for reasons to be recorded in writing, reject the application if such application is not in accordance with the provisions of the Act, the rules or regulations made

thereunder or any other law for the time being in force or for any other valid reason.

(16) The Commission may, before granting licence or rejecting the application, provide an opportunity of hearing to the applicant, the Central Transmission Utility, the long-term customers, or the person who has filed suggestions and objections, or any other person:

Provided further that the applicant shall always be given a reasonable opportunity of being heard before rejecting the application."

12. In our order dated 24.1.2020, we had proposed to grant transmission licence to the Petitioner company and directed for issue of public notice. In response to the public notice, no suggestions/objections have been received. CTU in its letter dated 6.12.2019 has recommended for grant of transmission licence to the Petitioner. We are satisfied that the Petitioner company meets the requirements of the Act and the Transmission Licence Regulations for grant of transmission licence for the subject Transmission System mentioned at para 1 of this order. Accordingly, we direct that Transmission Licence be granted to the Petitioner, Powergrid Bhuj Transmission Limited, to establish "Transmission System for providing connectivity to RE Projects at Bhuj-II (2000 MW) in Gujarat" on Build, Own, Operate and Maintain basis as per the details given in para 1 above.

13. The grant of transmission licence to the Petitioner (hereinafter referred to as 'the licensee') is subject to the fulfilment of the following conditions throughout the period of licence:

(a) The transmission licence shall, unless revoked earlier, remain in force for a period of 25 years;

(b) The transmission licensee shall comply with the provisions of the Transmission Licence Regulations or any subsequent enactment thereof and

the terms and condition of the TSA during the period of subsistence of the licence.

(c) Since the expiry date as per the TSA is 35 years from the scheduled COD of the Project, the licensee may make an application, two years before the expiry of initial licence period, for grant of licence for another term in accordance with Regulation 13 (2) of the Transmission Licence Regulations which shall be considered by the Commission in accordance with law;

(d) The licensee shall not enter into any contract for or otherwise engage in the business of trading in electricity during the period of subsistence of the transmission licence;

(e) The licensee shall have the liability to pay the license fee in accordance with the provisions of the Central Electricity Regulatory Commission (Payment of Fees) Regulations, 2012, as amended from time to time or any subsequent enactment thereof. Delay in payment or non-payment of licence fee or a part thereof for a period exceeding sixty days shall be construed as breach of the terms and conditions of the licence;

(f) The licensee shall comply with the directions of the National Load Despatch Centre under Section 26 of the Act, or the Regional Load Despatch Centre under sub-section (3) of Section 28 or sub-section (1) of Section 29 of the Act, as may be issued from time to time for maintaining the availability of the transmission system;

(g) The licensee shall remain bound by the Central Electricity Regulatory Commission (Standard of Performance of inter-State transmission licensees) Regulations, 2012 or subsequent enactment thereof.

(h) The licensee shall provide non-discriminatory open access to its Transmission System for use by any other licensee, including a distribution licensee or an electricity trader, or generating company or any other person in accordance with the Act, Central Electricity Regulatory Commission(Open Access in inter-State Transmission) Regulations, 2008 and Central Electricity Regulatory Commission (Grant of Connectivity, Long-term Access and Medium-term Open Access in inter-State Transmission and related matters) Regulations, 2009 as amended from time to time and Central Electricity Regulatory Commission (Indian Electricity Grid Code) Regulations, 2010 as amended from time to time or any subsequent re-enactment thereof;

(i) The licensee shall not undertake any other business for optimum utilization of the Transmission System without prior intimation to the Commission and shall comply with the provisions of the Central Electricity Regulatory Commission (Sharing of Revenue Derived from Utilization of Transmission Assets for other business) Regulations, 2020;

(j) The licensee shall remain bound by the Central Electricity Regulatory Commission (Sharing of inter-State Transmission Charges and Losses) Regulations, 2010 as amended from time to time;

(k) The licensee shall remain bound by the provisions of the Act, the rules and regulations framed thereunder, in particular the Transmission Licence Regulations, the Grid Code, the Standards specified by the Central Electricity Authority, orders and directions of the Commission issued from time to time;

(l) The licensee shall ensure execution of the Project within timeline specified in the Schedule 3 of the TSA and as per the Technical Standards and Grid Standards of CEA prescribed in Article 5.1.1 and Article 5.4 of the TSA;

(m) The licensee shall as far as practicable coordinate with the licensee (including deemed licensee) executing the upstream or downstream transmission projects and the Central Electricity Authority for ensuring execution of the Project in a matching timeline; and

(n) The licensee shall submit all such report or information as may be required under Transmission Licence Regulations, Standard of Performance Regulations, Transmission Service Agreement or any other regulation of the Commission or as per the directions of the Commission as may be issued from time to time.

14. Central Electricity Authority shall monitor the execution of the Project and bring to the notice of the Commission any lapse on the part of the licensee to meet the schedule for further appropriate action in accordance with the provisions of the Act and Transmission Licence Regulations.

15. A copy of this order shall be sent to CEA for information and necessary action.

16. Petition No. 447/TL/2019 is disposed of in terms of the above.

Sd/-
(I.S.Jha)
Member

sd/-
(P. K. Pujari)
Chairperson

ANNEXURE II

CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI

Petition No. 44/TL/2024

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

Date of order: 10th 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, 3rd Floor
   M.G. Road, Fort, Mumbai-400001

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POWERGRID BHUJ TRANSMISSION LIMITED

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,**
9th 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

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*

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

S. no	Scope of the Communication Scheme	Implementation timeframe	Total Estimated Cost
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	**Rs.0.30 crore**

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:

Sl. No.	Project elements	Scheduled COD
1.	Establishment of 2x1500 MVA (765/400 kV), 4x500 MVA (400/220 kV) Bhuj-II PS (GIS) with 765kV (1x330 MVAr) and 420 kV (125 MVAr) bus reactor (2x1500 MVA (765/400 kV), 4x500 MVA (400/220 kV), 1x500 MVA (765/400 kV), 1-ph ICT (spare unit) 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 MVAr-765kV 1x110 MVAr-765kV,1ph Reactor (spare unit) 1x125MVAr-420kV 765kV reactor Bays-1 no. 400kV reactor Bays-1 no. 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.	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 MVAr switchable line reactor for each circuit at Bhuj–II PS end of Bhuj-II – Lakadia 765kV D/C line (2x240 MVAr, 765 kV with 400 ohm NGR; 765 kV Reactor Bays-2 nos; 1x80 MVAr, 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

follows:

Sl. No.	Phase No.	Details of Elements	SCOD	COD
i	1	• Bhuj-II PS with 1 no. 1500 MVA 765/400kV ICT and 4x500 MVA (400/220 kV) ICT with 765kV (1x330 MVAr) and 420 kV (125 MVAr) bus reactor and associated bays • 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 • 1x240 MVAr switchable line reactor for each circuit at Bhuj–II PS end of Bhuj-II – Lakadia 765kV D/C line and associated bays	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 14th 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

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 TBCB 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**."*

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 3rd Communication Planning meeting of Western Region held on 27.12.2022, 46th WRPC meeting held on 03.02.2023 and 14th 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.

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.

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.

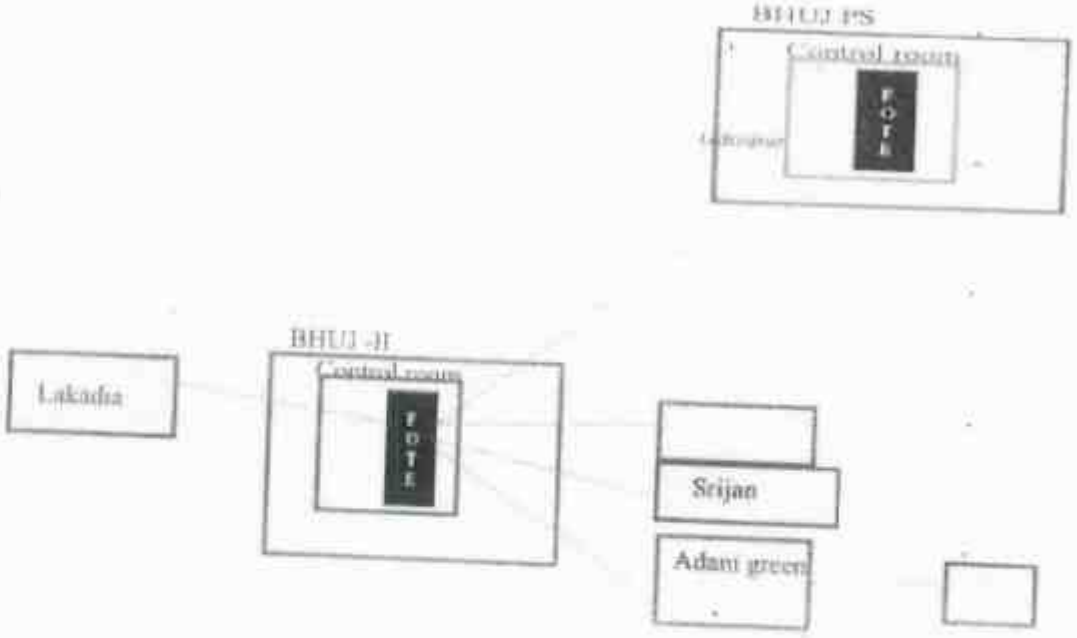
***Category (B):** Communication Schemes/ Packages proposed by CTUIL for upgradation/ modification of existing ISTS Communication System, standalone projects, adoption of new technologies shall be put up to RPC for their views. RPC to provide their views on the Schemes/Packages proposed by CTUIL within 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

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 46th WRPC meeting held on 03.02.2023. The relevant extract of minutes of the 46th 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) 01 No. FOTE (STM-16, 5 MSP 1+1) at Bhuj-II station.**
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 7th SCADA committee and recommended the same for implementation and suggested the matter may be put in ensuing WRPC/TCC for necessary approval.

46th TCC Discussions:

MS WRPC informed the additional FOTE at Bhuj PS and Bhuj-II stations was approved in the 7th 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 46th 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.

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 46th 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.*

29. *We observe that the replacement of Earthwire with OPGW in light of the 16th 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

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 whereFOTE 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 14th 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

Basant Kumar Pradhan
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Date: 2025.06.05 13:07:00 +05'30'

सेंट्रल ट्रांसमिशन यटिलिटी ऑफ इंडिया लिमिटेड
(पावर ग्रिड कॉर्पोरेशन आफ 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/21/27th NCT

24th February 2025

As per distribution list

Sub: Implementation of ISTS Transmission Schemes approved by NCT in its 27th meeting held on 06th February 2025 under Regulated Tariff Mechanism (RTM).

NCT vide letter dated 24.02.2025 has awarded following ISTS Transmission scheme for its implementation under RTM mode by the respective implementing agency as indicated in the table below:

Sl. No.	Transmission Schemes	Implementing Agency
I. ISTS Communication schemes approved by NCT under RTM Route		
1.	OPGW installation on existing 765kV Fatehpur-Varanasi S/c & 765 kV Fatehpur-Sasaram S/c Lines which are proposed to be LILOed at New Prayagraj (ISTS).	POWERGRID
2.	VOIP Communication system for Grid-Operation for all Five Regions NR, NER, SR, WR, ER as PAN India	POWERGRID
3.	Establishment of State-of-the-Art National Unified Network Management System (N-UNMS) in main & backup configuration integrating all the regional UNMSs.	POWERGRID
4.	Utilization of OPGW laid by M/s BDTCL on 765kV S/c Bhopal (BDTCL) – Indore (PG) & 765kV S/c Vadodara (PG) - Dhule (BDTCL) – Aurangabad (PG) line by upgrading STM-1 FOTE to STM-16 FOTE at Bhopal (BDTCL), Indore (PG), Dhule (BDTCL), Aurangabad (PG) and Vadodara (PG) S/s.	Bhopal Dhule Transmission Company Ltd. (BDTCL)
5.	Supply and Installation of OPGW on existing 765kV Gwalior – Satna S/c Line which is proposed to be LILOed at Karera (near Datiya) S/s under TBCB project namely "Western Region Expansion Scheme XXXIII (WRES-XXXIII): Part B"	POWERGRID
II. ISTS Transmission schemes approved by NCT under RTM Route		
1.	Augmentation of transformation capacity at Bhuj-II PS (GIS)	POWERGRID Bhuj Transmission Limited

Copy of NCT letter dated 24.02.2025 is enclosed. The detailed scope of work along with implementation time frame for the above ISTS Communication and Transmission Schemes shall be as per the enclosed NCT letter and Minutes of the 27th meeting of NCT.

मौदामिनी: प्रथम तल, प्लॉट सं.2, सेक्टर-29, गुरुग्राम- 122001 (हरियाणा), दूरभाष 0124-2822000, मौआईएन
"Saudamini", 1st Floor, Plot No. 2, Sector-29, Gurugram-122001 (Haryana), Tel: 0124-2822000, CIN: U4
Website: https://www.ctuil.in

Basant Kumar Pradhan
Digitally signed by Basant Kumar Pradhan
Date: 2025.06.05 13:08:03 +05'30'

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.

POWERGRID BHUJ TRANSMISSION LIMITED

Basant Kumar Pradhan

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Distribution List:

1. **The Chairman & Managing Director** Power Grid Corporation of India Ltd., Saudamini, Plot No. 2, Sector-29, Gurgaon- 122 001 cmd@powergrid.in	2. **Head-Regulatory,** M/s Bhopal Dhule Transmission Company Ltd. (BDTCL) 101, Windsor, CST Road, Santacruz East, Mumbai – 400098 (Maharashtra)
3. **Executive Director (TBCB)** POWERGRID Bhuj Transmission Limited Saudamini, Plot No. 2, Sector-29, Gurgaon- 122 001 ppandey@powergrid.in bkpradhan@powergrid.in	

पावरग्रिड भुज ट्रांसमिशन लिमिटेड
POWERGRID BHUJ TRANSMISSION LIMITED

Basant Kumar Pradhan

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Date: 2025.06.05 13:10:35 +05'30'

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
Floors Nos. 5-10, Tower 1, Plot Nos. 16,
IRCON International Tower, Institutional Area,
Sector 32, Gurugram, Haryana – 122001

विषय: एनसीटी द्वारा 06.02.2025 को आयोजित अपनी 27वीं बैठक में अनुमोदित आईएसटीएस ट्रांसमिशन/संचार योजनाओं का कार्यान्वयन- के बारे में

Subject: Implementation of ISTS Transmission/Communication Schemes approved by NCT in its 27th meeting held on 06.02.2025- regarding

महोदय/Sir,

The undersigned is directed to inform that NCT has approved implementation of the following ISTS Transmission and Communication Schemes in its 27th meeting held on 06.02.2025, in line with MoP office order dated 28.10.2021 and MoP Guidelines dated 09th March, 2022, to be implemented through Regulated Tariff Mechanism (RTM) route by agency as indicated below:

I. Communication schemes approved by NCT:

Sl. No	Name of Transmission Scheme	Implementation Mode	Tentative Implementation timeframe	Implementing Agency	Estimated Cost (Rs. Crs)
1.	OPGW installation on existing 765kV Fatehpur-Varanasi S/c & 765 kV Fatehpur-Sasaram S/c Lines which are proposed to be LILOed at New Prayagraj (ISTS)	RTM	24 months from the date of allocation or with matching timeframe of the transmission project "Inter-regional (NR-WR) Transmission System strengthening to relieve the	POWERGRID	33.24

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			loading of 765 kV Vindhyachal-Varanasi D/c line" whichever is lower		
2.	VOIP Communication system for Grid-Operation for all Five Regions NR, NER, SR, WR, ER as PAN India	RTM	18 months from the date of allocation	POWERGRID	156.52
3.	Establishment of State-of-the-Art National Unified Network Management System (N-UNMS) in main & backup configuration integrating all the regional UNMSs.	RTM	24 months from the date of allocation	POWERGRID	128 (including AMC)
4.	Utilization of OPGW laid by M/s BDTCL on 765kV S/c Bhopal (BDTCL) – Indore (PG) & 765kV S/c Vadodara (PG) - Dhule (BDTCL) – Aurangabad (PG) line by upgrading STM-1 FOTE to STM-16 FOTE at Bhopal (BDTCL), Indore (PG), Dhule (BDTCL), Aurangabad (PG) and Vadodara (PG) S/s.	RTM	12 months from the date of allocation.	Approved for implementation by M/s Bhopal Dhule Transmission Company Ltd. (BDTCL)	2.6
5.	Supply and Installation of OPGW on existing 765kV Gwalior – Satna S/c Line which is proposed to be LILOed at Karera (near Datiya) S/s under TBCB project namely "Western Region Expansion Scheme XXXIII (WRES-XXXIII): Part B".	RTM	Matching time frame of upcoming LILO of the said line or 24 months from the date of allocation whichever is earlier.	POWERGRID	23.5

II. ISTS Transmission schemes, approved by NCT under RTM route is given below:

Sl.	Name of Transmission	Implementation	Implementation	Estimated

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No.	Scheme	Mode	timeframe	Cost (₹ Cr)
1.	Augmentation of transformation capacity at Bhuj-II PS (GIS)	RTM through POWERGRID Bhuj Transmission Limited	21 months	428

The broad scope of above schemes are given below

Sl. No.	Name of Scheme & Tentative implementation timeframe	Broad Scope
1.	Augmentation of transformation capacity at Bhuj-II PS (GIS) **Implementation Timeframe: 21 Months**	i) Augmentation of transformation capacity at Bhuj-II PS (GIS) by 2x500 MVA, 400/220 kV ICT (5th & 6th) and by 1x1500 MVA, 765/400 kV ICT (3rd) ii) Implementation of 220 kV GIS line bay at Bhuj-II PS for ABREL (RJ) Projects Limited **(Detailed scope as approved by 16th NCT and subsequent amendments thereof)**

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.

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,

24.2.2025

(बी.एस.बैरवा/ 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

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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//22/27th NCT

18th March 2025

As per distribution list

Sub: Implementation of ISTS Transmission Scheme under Regulated Tariff Mechanism (RTM) as approved by MoP based on the recommendation of 27th meeting of National Committee on Transmission (NCT) held on 06th Feb'25

MoP vide OM dated 18th March 2025 approved the following ISTS Transmission scheme for its implementation under RTM mode by the respective implementing agency as indicated in the table below:

Sl. No.	Transmission Schemes	Implementing Agency
1.	Provision of ICT Augmentation and Bus Reactor at Bhuj-II PS	PGCIL Bhuj Transmission Limited

Copy of MoP OM dated 18th March 2025 is enclosed at **Annexure-I**. The detailed scope of work along with implementation time frame for the above Transmission Schemes shall be as per the Minutes of the meeting of 27th 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.

"सौदामिनी", प्रथम तल, प्लॉट सं 2, सेक्टर-29, गुरुग्राम- 12200[illegible] 0124-2822000, सीआईएन: U40100HR2020GOI091857
"Saudamini", 1st Floor, Plot No. 2, Sector-29, Gurugram-[illegible] 0124-2822000, CIN: U40100HR2020GOI091857
Website: www.ctuil.in

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Distribution List:

1. **Executive Director (TBCB)**
   POWERGRID Bhuj Transmission Limited
   Saudamini, Plot No. 2, Sector-29,
   Gurgaon- 122 001
   ppandey@powergrid.in
   rajesh.kumar2@powergrid.in
   bkpradhan@powergrid.in

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POWERGRID BHUJ TRANSMISSION LIMITED

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ANNEXURE IV

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

सेवा में /To

As per list of Addresses

विषय: ट्रांसमिशन पर राष्ट्रीय समिति (एनसीटी) की सताईसवीं बैठक का कार्यवृत्त ।

Subject: Minutes of the 27th Meeting of the National Committee on Transmission (NCT).

महोदया (Madam) / महोदय (Sir),

The 27th meeting of the National Committee on Transmission (NCT) was held on 06th February, 2025 at New Delhi. The minutes of the meeting are attached herewith.

भवदीय / Yours faithfully,

(बी.एस.बैरवा / B.S. Bairwa)
मुख्य अभियन्ता (इंचार्ज) एवं सदस्य सचिव,एन.सी.टी.
/Chief Engineer (I/C) & Member Secretary (NCT)

प्रतिलिपि / Copy to:

Joint Secretary (Trans), Ministry of Power, New Delhi

सेवाभवन, आर.के.पुरम-I, नईदिल्ली-110066 टेलीफोन: 011-26732325 ईमेल: cea-pspa2@gov.in वेबसाइट: www.cea.nic.in
SewaBhawan, R.K Puram-I, New Delhi-110066 Telephone: 011-26732325 Email: cea-pspa2@gov.in Website: www.cea.nic.in

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List of Addresses:

1.	Chairperson, Central Electricity Authority Sewa Bhawan, R.K. Puram, New Delhi – 110 066.	2.	Member (Power Systems), Central Electricity Authority Sewa Bhawan, R.K. Puram, New Delhi – 110 066.
3.	Member (Economic & Commercial), Central Electricity Authority Sewa Bhawan, R.K. Puram, New Delhi – 110 066.	4.	Director (Trans), Ministry of Power Shram Shakti Bhawan, New Delhi-110001.
5.	Sh. Lalit Bohra, Joint Secretary Room no 602, Atal Akshay Urja Bhawan Opposite CGO Complex gate no 2, Lodhi Road, New Delhi – 110003	6.	Chief Operating Officer, CTUIL, Floors Nos. 5-10, Tower 1, Plot Nos. 16, IRCON International Tower, Institutional Area, Sector 32, Gurugram, Haryana - 122001.
7.	Sh. Rajnath Ram, Adviser (Energy), NITI Aayog, Parliament Street, New Delhi – 110 001.	8.	CMD, Grid Controller of India, B-9 (1st Floor), Qutub Institutional Area, Katwaria Sarai, New Delhi – 110016
9.	Sh. Ravinder Gupta Ex. Chief Engineer CEA		

Special Invitee

1. Chief Engineer (PCD), CEA

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POWERGRID BHUJ TRANSMISSION LIMITED

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Table of Minutes

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Minutes of the 27th Meeting of the National Committee on Transmission (NCT)

1 Confirmation of the minutes of the 26th meeting of National Committee on Transmission.

1.1 The minutes of the 26th meeting of NCT held on 06.01.2025 were issued on 30.01.2025 vide CEA letter Nos. CEA-PS-12-13/3/2019-PSPA-II.

1.2 CTUIL proposed to add the following in the scope of communication schemes mentioned at S.No 4.10 and 4.11:

"Out of the 48 fibres, 24 fibers will be allocated for state use and 24 fibers for ISTS purposes subject to the CEA Committee guidelines of OPGW sharing."

1.3 Members confirmed the minutes with the amendment as proposed above.

2 Status of the transmission schemes noted/approved/recommended to MoP in the 26th meeting of NCT

2.1 Members noted the status of transmission schemes approved/recommended in the 26th meeting of NCT as given below.

Sr. No	Name of the Transmission Scheme	Noted/ Recommended / Approved	Mode of Implementation	BPC	Award/ Gazette notification
1.	Transmission system for Evacuation of Power from RE Projects in Rajgarh (1500 MW) SEZ in Madhya Pradesh-Phase III and Evacuation of Power from RE Projects in Neemuch (1000 MW) SEZ in Madhya Pradesh-Phase II	Recommended	TBCB	RECPDCL	Communicated to MoP vide letter dated 31.01.2025 MoP to denotify the earlier schemes and notify the new.
2.	Augmentation of transformation capacity & Implementation of line bays at Mandsaur S/s for RE Interconnection	Approved	TBCB	PFFCL	Communicated to BPC vide letter dated 31.01.2025. Gazette notification under process.
3.	Paradeep – Andaman – Nicobar HVDC link	Recommended	RTM	Not applicable	Communicated to MoP vide letter dated 31.01.2025.

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Sr. No	Name of the Transmission Scheme	Noted/ Recommended / Approved	Mode of Implementation	BPC	Award/ Gazette notification
4.	Redundant Communication System for Salal (NHPC) station	Approved	RTM	Not applicable	Communicated to CTUIL vide letter dated 31.01.2025. CTUIL allocated the scheme to the implementing agencies on 31.01.2025.
5.	Redundant Communication System for Tuticorin GIS (PG) Substation	Approved	RTM	Not applicable	
6.	Establishment of Communication System for New SRLDC Building (at CPRI, Bengaluru Campus)	Approved	RTM	Not applicable	
7.	Upgradation of existing STM-4 equipment to STM-16 equipment due to bandwidth congestion	Approved	RTM	Not applicable	
8.	OPGW replacement on 132 kV Kahilipara - Umiam Stg. III -Umiam Stg. I – NEHU link & OPGW laying on 132 kV Sarusujai to Umtru line and UGFO laying from NERLDC Guwahati to Gantry of Kahilipara S/s for back up NERLDC connectivity	Approved	RTM	Not applicable	
9.	Establishment of redundant fibre path between NERLDC, Shillong, Khelieriat and NEHU by OPGW replacement on 132 kV NEHU-Khliehriat ckt-1 line and laying of UGFO cable from Tower number 25 of 132 kV NEHU – Mawlyndep line to NERLDC, Shillong	Approved	RTM	Not applicable	

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3 New Transmission Schemes:

3.1 Inter-regional (NR-WR) Transmission System strengthening to relieve the loading of 765 kV Vindhyachal-Varanasi D/c line

3.1.1 Representative of CTUIL stated that flow on WR-NR corridor is very high and issues related to high loading of 765 kV Vindhyachal – Varanasi D/C line during high NR import are being observed in real-time at the time of high demand in Uttar Pradesh (UP). Due to this high loading of 765 kV Vindhyachal-Varanasi D/c line, violation of WR-NR Available Transfer Capability (ATC) and NR simultaneous import is also being observed in real-time. WR-NR ATC violations in real-time would lead to situation wherein NR states would not be able to draw further power from Western region and as a result, may need to resort to over drawl or load shedding in case internal generation in NR is not available. It was informed that under 'N-1' contingency of (one circuit of) 765 kV Vindhayachal-Varanasi D/c line may result in overloading of the other circuit during high NR import. Accordingly, comprehensive transmission scheme was evolved to resolve critical loading of 765 kV Vindhyachal-Varanasi D/c line in 'N-1' contingency condition as well as for transaction of power in respect of Pump Storage Projects (PSPs) located in Uttar Pradesh (UP).

3.1.2 Representative of Grid-India stated that the issue of high loading of Vindhyachal-Varanasi 765 kV D/C line, which is the limiting constraint for NR import during non-solar hours, would be addressed with the proposed scheme. However, the import capability of NR during solar hours is limited due to low voltages in Delhi-NCR pocket (load centers). To improve the voltage profile in the region, a comprehensive plan for reactive power compensation in the region may be undertaken.

3.1.3 Grid-India further informed that the report on 17th June 2024 load loss event also highlights the requirement of suitable reactive power compensation near major load centers. During the discussion on the event in the 24th NCT meeting, it was decided that the reactive power planning study in respect of all the major load centers shall be taken up on priority. The issue is mainly observed during solar hours of summer season and is expected to worsen over the time.

3.1.4 Grid-India also stated that a committee, chaired by the Member Secretary, NRPC, was constituted to assess the need for synchronous condensers in the Northern Region. The committee has submitted its final report to CEA, recommending phase-wise implementation of synchronous condensers at various stations of NR. The planning of the synchronous condensers may, therefore, be taken up as per the recommendations of the committee report.

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3.1.5 Chairperson CEA informed that the report on synchronous condensers is already under examination.

3.1.6 Grid-India stated that 765 kV Fatehpur – Prayagraj section may get overcompensated with existing line reactor configuration (~90% compensated with 330 MVAr L/R at Fatehpur end). In case of change in line length, the percentage compensation may further increase. After finalization of the location of Prayagraj S/s (final line length), the utilization of the L/R may be reviewed. The same may be utilized as bus reactor at Fatehpur end in case of over compensation.

3.1.7 CTUIL stated that the line length is tentative and will be reviewed upon finalisation of location of Prayagraj S/s. In the case of reduction of line length considerably, the possibility of converting fixed line reactor at Fatehpur S/s end of 765 kV Fatehpur – Prayagraj into Switchable line reactor shall be explored & shall be taken up as separate scheme.

3.1.8 Inter-regional (NR-WR) Transmission System strengthening to relieve the loading of 765 kV Vindhyachal-Varanasi D/c line was already agreed in NRPC and WRPC meetings.

3.1.9 After deliberations, the scheme "Inter-regional (NR-WR) Transmission System strengthening to relieve the loading of 765 kV Vindhyachal-Varanasi D/c line" was recommended for implementation under TBCB route as mentioned below:

3.1.10 Summary of the scheme is given below:

Sl. No.	Name of the scheme and tentative implementation timeframe	Estimated Cost (₹ Crore)	Remarks
1.	Inter-regional (NR-WR) Transmission System strengthening to relieve the loading of 765 kV Vindhyachal-Varanasi D/c line Tentative implementation timeframe: 24 months from the date of allocation.	2368.26	Recommended under TBCB route with PFCCL as BPC

3.1.11 Detailed scope of the scheme is given below:

Sl. No.	Description of Transmission Element	Scope of work (Type of Substation/Conductor capacity/km/no. of bays etc.)
1	Establishment of 765 kV Prayagraj S/s near Prayagraj(Uttar Pradesh) along with 2x330 MVAr 765 kV Bus reactors **Future provisions**	Prayagraj S/s -AIS • 330 MVAr Bus Reactor-2 Nos. (7x110 MVAr, including one spare unit) • 765 kV Bus reactor bays-2 No.

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	Space for ➢ 765/400 kV ICTs along with bays- 4 Nos. ➢ 765 kV line bays along with switchable line reactors – 8 Nos. ➢ 765 kV Bus Reactor along with bay: 1 Nos. ➢ 400 kV line bays along with switchable line reactor –4 Nos. ➢ 400 kV line bays : 2 Nos. ➢ 400 kV Bus Reactor along with bays: 2 No. ➢ 400 kV Sectionalization bay: 1 set	• 765 kV line bays – 6 Nos. (for LILO of 765 kV Fatehpur-Varanasi S/c line, LILO of 765 kV Fatehpur-Sasaram S/c line and Vindhyachal Pool - Prayagraj D/c line)
2	LILO of 765 kV Fatehpur-Varanasi S/c line at Prayagraj	Line Length ~15 km (LILO length 15km)
3	LILO of 765 kV Fatehpur-Sasaram S/c line at Prayagraj	Line Length ~14 km (LILO length 14km)
4	765 kV Vindhyachal Pool - Prayagraj D/c line along with 330MVAr line reactor (switchable) at Prayagraj end on each ckt of 765 kV Vindhyachal Pool - Prayagraj D/c line	Line Length – (~220 km) • 765 kV, 330 MVAr switchable line reactors at Prayagraj end – 2 Nos. • Switching equipment for 765 kV 330 MVAr switchable line reactors at Prayagraj S/s – 2 Nos.
5	Bypassing of both ckts of 765 kV Sasan – Vindhyachal Pool 2xS/c line at Vindhyachal Pool and connecting it with 765 kV Vindhyachal Pool - Prayagraj D/c line, thus forming 765 kV Sasan - Prayagraj D/c line	Line Length - 1km (~0.5x2 km)

3.2 Transmission system for evacuation of power from Pumped Storage Projects in Sonbhadra District, Uttar Pradesh

3.2.1 Representative of CTUIL stated that connectivity applications of cumulative quantum of 3732 MW (drawl: 3732 MW, injection: 3250) from two developers i.e. M/s Greenko (3 Nos. of applications with cumulative quantum of 2016 MW (3x672MW)) and M/s Avaada WB (2 application of 1,716MW (1120MW+596MW)) were received for Robertganj area in Sonbhadra district. As per the schedule indicated in the applications, these PSP projects are expected to be commissioned progressively from Nov'26 upto Mar'28. Further M/s Avaada requested extension in start date of connectivity for their PSP projects with revised timeline of 31/12/2030.

3.2.2 It was discussed that considering present progress, the units of Greenko PSP are likely to be commissioned from June, 2028. In view of schedule of generation projects and for optimal utilization of transmission scheme, comprehensive

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transmission scheme is planned considering M/s Greenko and M/s Avaada PSP's present evacuation & future requirement. Transmission system being lumped elements, the planned scheme can cater upto 4 GW PSP connectivity quantum.

3.2.3 CMD, Grid India stated that large machines like 672 MW, are not in operation in Indian power system.

3.2.4 Transmission system for evacuation of power from Pumped Storage Projects in Sonbhadra District, Uttar Pradesh was agreed in NRPC meeting.

3.2.5 After deliberations, "Transmission system for evacuation of power from Pumped Storage Projects in Sonbhadra District, Uttar Pradesh" was recommended for implementation under TBCB route as mentioned below:

3.2.6 Summary of the scheme is given below:

Sl. No.	Name of the scheme and tentative implementation timeframe	Estimated Cost (₹ Crore)	Remarks
1.	Transmission system for evacuation of power from Pumped Storage Projects in Sonbhadra District. Uttar Pradesh Tentative implementation timeframe: 34 months from the date of allocation * **except for 765/400 kV, 1x1500 MVA ICT(4th) at Robertsganj PS.* Tentative implementation timeframe for 765/400 kV, 1x1500 MVA ICT(4th) at Robertsganj PS is Dec, 2030	3625.97	Recommended under TBCB route with - RECPDCL as BPC

3.2.7 Detailed scope of the scheme is given below:

Sl. No.	Description of Transmission Element	Scope of work (Type of Substation/Conductor capacity/km/No. of bays etc.)
1	Establishment of 4x1500 MVA 765/400 kV Robertsganj Pooling Station near Robertsganj area in Sonbhadra distt. (Uttar Pradesh) along with 2x240 MVAr 765 kV & 2x125 MVAr 400 kV bus reactors **Future provisions:** ➢ 765/400 kV ICTs along with bays- 2 Nos. ➢ 765 kV line bays along with switchable line reactors – 6 Nos.	Robertsganj PS - AIS • 765/400 kV 1500 MVA ICT- 4 Nos. (13x500 MVA including one spare unit) • 765 kV ICT bays-4 No. • 400 kV ICT bays- 4 No. • 240 MVAr Bus Reactor-2 No. (7x80 MVAr, including one spare unit) • 765 kV Bus reactor bays-2 No.

	➢ 765 kV Bus Reactor along with bay: 1 No. ➢ 400 kV line bays along with switchable line reactor –6 Nos. ➢ 400 kV line bays: 6 Nos. ➢ 400 kV Bus Reactor along with bays: 1 No. ➢ 400 kV Sectionalization bay: 2 sets	• 125 MVAr Bus Reactor-2 Nos. • 400 kV Bus reactor bays- 2 No. • 765 kV line bays at Robertsganj PS – 6 Nos. (for Robertsganj PS – Prayagraj S/s D/c line & LILO of both circuits of Varanasi- Gaya 2xS/c line at Robertsganj PS) • 400 kV line bays– 2 Nos. (for PSP interconnection)
2	LILO of both circuits of 765 kV Varanasi-Gaya 2xS/c line at Robertsganj PS along with 240 MVAr switchable line reactor at each ckt of Robertsganj PS end of 765 kV Robertsganj PS - Gaya 2xS/c line (after LILO)	a. Line Length ckt1 ~ 65 km (LILO length) b. Line Length ckt2 ~ 75 km (LILO length) • 240 MVAr switchable line reactors at Robertsganj PS end – 2 Nos. • Switching equipment for 240 MVAr switchable line reactors at Robertsganj PS end – 2 Nos.
3	Robertsganj PS – Prayagraj S/s 765 kV D/c line along with 330 MVAr line reactor at each circuit of Robertsganj end of Robertsganj PS – Prayagraj S/s 765 kV D/c line	Line Length – (~185 km) • 765 kV line bays at Prayagraj S/s – 2 Nos. • 765 kV, 330 MVAr switchable line reactors at Robertsganj PS – 2 Nos. • Switching equipment for 765 kV 330 MVAr switchable line reactors at Robertsganj PS – 2 Nos. • 110 MVAr (765 kV) spare reactor single phase unit at Robertsganj PS end – 1 No.

Note: Developer of Prayagraj S/s shall provide space for 2 Nos. of 765 kV line bays at 765 kV Prayagraj S/s for termination of Robertsganj PS – Prayagraj S/s 765 kV D/c line.

3.3 Transmission system for Evacuation of Power from RE Projects in Morena SEZ in Madhya Pradesh-Phase I (2500MW)

3.3.1 Government of India has set a target for establishing 500 GW non fossil generation capacity by 2030, out of which 3.9GW REZ potential has been identified at Morena (MP) in following two phases: Phase-I (2.5GW) by Dec-27; Phase-II (1.4GW) by Dec-30.

3.3.2 Representative of CTUIL stated that for evacuation of upto 2500MW Power from RE Projects in Morena area in Madhya Pradesh under Phase-I as well as for feeding power to 400/220 kV Sabalgarh (New) S/s of MPPTCL, a transmission scheme for Evacuation of Power from RE Projects in Morena SEZ in Madhya Pradesh-Phase I

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(2500MW) has been planned. In this scheme Karera – Morena PS 765 kV D/c line has also been envisaged, which may infringe Karera Wild Life Sanctuary or its buffer zone in the state of MP.

3.3.3 The scheme has been agreed in the 51st WRPC meeting held on 11.01.2025.

3.3.4 After detailed deliberations, "Transmission system for Evacuation of Power from RE Projects in Morena SEZ in Madhya Pradesh-Phase I (2500MW)" was recommended for implementation under TBCB route.

3.3.5 Summary of the scheme is given below:

Sl. No.	Name of the scheme and tentative implementation timeframe	Estimated Cost (₹ Crore)	Remarks
1.	Transmission system for Evacuation of Power from RE Projects in Morena SEZ in Madhya Pradesh-Phase I (2500MW) Implementation timeframe: 27 Months	₹ 1692 Cr	Approved under TBCB route with PFCCL as BPC

3.3.6 Detailed scope of the scheme is given below:

Sl. No.	Scope of the Transmission Scheme	Capacity /km
1	Establishment of 3x1500 MVA, 765/400 kV & 2x500MVA, 400/220 kV Morena PS (South of Sabalgarh) with 2x330 MVAr 765 kV bus reactor and 2x125 MVAr 420 kV bus reactor. **Future provisions:** Space for ➢ 765/400 kV, 1500 MVA ICT along with bays-3 Nos. (on Sec-II) ➢ 765 kV line bays along with switchable line reactors– 6 Nos. (2Nos. on Sec-I & 4 Nos. on Sec-II) ➢ 765 kV, 330MVAr Bus Reactor along with bay: 2 Nos. (on Sec-II) ➢ 765 kV Sectionaliser: 1 set	➢ 765/400 kV, 1500 MVA ICT-3 Nos. ➢ 400/220 kV, 500MVA ICT – 2 Nos. ➢ 765 kV ICT bays- 3 Nos. ➢ 400 kV ICT bays- 5 Nos. ➢ 220 kV ICT bays – 2 Nos. ➢ 330 MVAr 765 kV bus reactor-2 Nos. ➢ 125 MVAr 420 kV bus reactor-2 Nos. ➢ 765 kV reactor bay- 2 Nos. ➢ 765 kV line bay- 2 Nos. *(for termination of Morena PS (South of Sabalgarh) – Karera (near Datia) 765 kV D/c line)* ➢ 400 kV line bays- 5 Nos. *(2 No. for termination of Morena PS - Sabalgarh (New) (MPPTCL) 400 kV D/c line (Quad Moose / High Capacity) line; 2 Nos. for interconnection of Greenko PSP & 1 no for RE interconnection)* ➢ 400 kV reactor bay- 2 Nos. ➢ 220 kV TBC – 1 No. ➢ 220 kV BC – 1 No. ➢ 220 kV line bays – 4 Nos. *(for RE Interconnection)* ➢ 500 MVA, 765/400 kV 1-Ph Spare ICT-1 No. ➢ 110 MVAr, 765 kV, 1-ph reactor (spare unit

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Sl. No.	Scope of the Transmission Scheme	Capacity /km
	➢ 400 kV line bays along with switchable line reactors– 9 Nos. (3 on Sec-I & 6 on Sec-II) ➢ 400/220 kV, 500MVA ICT along with bays-8 Nos. (3 on Sec-I & 5 on Sec-II) ➢ 400 kV, 125MVAr Bus Reactor along with bays: 2 Nos. (Sec-II) ➢ 400 kV Sectionalization bay: 1-set ➢ 220 kV line bays: 12 Nos. (4 Nos. on Sec-I & 8 Nos. on Sec-II) ➢ 220 kV Sectionalization bay: 1set ➢ 220 kV TBC: 1 No. ➢ 220 kV BC: 1 No. ➢ 2 Nos. STATCOM (±400 MVAr) along with 2x125 MVAr MSC & 1x125 MVAr MSR and associated bays- 2Nos. (1 on 400 kV Sec-I and 1 on 400 kV Sec-II)	for bus reactor)-1 No.
2.	Morena PS (South of Sabalgarh) – Karera (near Datia) 765 kV D/c line	➢ 90 km (approx.)
3.	2 Nos. of 765 kV line bays at Karera (near Datia) for termination of Morena PS (South of Sabalgarh) – Karera (near Datia) 765 kV D/c line	➢ 765 kV line bays– 2 Nos.
4.	Augmentation of 400/220 kV transformation capacity at 765/400/220 kV Karera (near Datia) S/s (Sec-I) by 1x500MVA ICT (3rd)	➢ 400/220 kV, 500 MVA ICT-1 No. ➢ 400 kV ICT bay- 1 No. ➢ 220 kV ICT bay- 1 No.
	Note: *a. M/s Apraava Energy Pvt. Ltd. (AEPL) shall provide space for above scope of work at Karera S/s.* *b. Location of the substation shall be finalised near South of Sabalgarh in consultation with CEA, RUMSL and other stakeholders.* *c. MPPTCL shall ensure development of 400/220 kV Sabalgarh (New) S/s and Morena PS - Sabalgarh (New) (MPPTCL) 400 kV D/c line (Quad Moose / High Capacity) line in matching time-frame of above scheme.*	

3.4 **Transmission system for Evacuation of Power from RE Projects in Solapur SEZ in Maharashtra-Phase II (2000 MW) and Network Expansion scheme to enable drawal of power from Solapur PS**

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3.4.1 Government of India has set a target for establishing 500 GW non fossil generation capacity by 2030, out of which 3.5 GW REZ potential has been identified at Solapur (2 GW at Solapur (PG) and 1.5 GW at Solapur PS). Solapur PS is presently under implementation by M/s Solapur Transmission Limited (STL) (Subsidiary of Torrent Power Limited) with SCOD of Mar'26 for evacuation of 1.5 GW REZ.

3.4.2 Representative of CTUIL stated that connectivity applications for more than 3.5 GW RE capacity have now been received at Solapur PS till Dec-24 based on which transmission planning the Solapur PS for evacuation of full capacity of 3.5 GW (i.e. 2 GW in addition to 1.5 GW) was carried out in consultation with MSETCL. To enable Evacuation of 2000 MW Power from RE Projects in Solapur SEZ in Maharashtra-under Phase II, transmission scheme "Transmission system for Evacuation of Power from RE Projects in Solapur SEZ in Maharashtra-Phase II (2000 MW)" was proposed.

3.4.3 Chairperson, CEA enquired SECI / MNRE w.r.t. declaration of additional potential in Solapur area considering that applications for about 6.35GW till Dec-24 have been received in the area against potential of 3.5GW.

3.4.4 Representative of SECI stated that they are yet to assess additional potential in the area.

3.4.5 After further deliberations, it was decided that the subject scheme shall be taken up after feedback from MNRE/SECI w.r.t. additional potential in Solapur area. Further, CTU shall examine whether transmission system is planned by STU for same generation capacity in Solapur area.

3.5 Issues related to bidding process for augmentation of transformation capacity at Bhuj-II Pooling Station

3.5.1 The transmission scheme "Augmentation of transformation capacity at Bhuj-II PS (GIS)" was agreed in the 16th meeting of National Committee on Transmission held on 30.11.2023 under TBCB route with estimated cost of Rs. 428 crores and implementation timeframe of 21 months. Gazette was notified on 23.01.2024 with PFCCL as BPC.

3.5.2 Further a transmission scheme "Provision of ICT Augmentation and Bus Reactor at Bhuj-II PS" was agreed in the 20th meeting of National Committee on Transmission held on 25.06.2024 under TBCB route with estimated cost of Rs. 587 crores and implementation timeframe of 21 months. Gazette was notified on 21.08.2024 with PFCCL as BPC.

3.5.3 Despite multiple bidding attempts by the Bid Process Coordinator (BPC), only single bid has been received for both the above projects.

3.5.4 In a meeting held under the chairmanship of Secretary (Power), it was recommended that NCT may consider the two schemes for augmenting transformation capacity at Bhuj-II Pooling Station, with estimated costs of ₹428 Cr and ₹587 Cr, for allotment under the RTM.

3.5.5 NCT, after deliberations:

(i) Approved the implementation of "Augmentation of transformation capacity at Bhuj-II PS (GIS)" scheme under RTM Mode by POWERGRID Bhuj Transmission Limited, which is the original TSP of Bhuj-II PS and

(ii) Recommended the implementation of "Provision of ICT Augmentation and Bus Reactor at Bhuj-II PS" under RTM mode by POWERGRID Bhuj Transmission Limited.

3.6 OPGW installation on existing 765 kV Fatehpur-Varanasi S/c & 765 kV Fatehpur-Sasaram S/c Lines which are proposed to be LILO at New Prayagraj (ISTS)

3.6.1 CTU stated that OPGW was not implemented on 765 kV Fatehpur-Varanasi S/c and 765 kV Fatehpur- Sasaram S/c Lines. As there lines are proposed to be made LILO at New Prayagraj (ISTS), OPGW on the existing lines would be required to establish communication.

3.6.2 After deliberations NCT approved the communication scheme "OPGW installation on existing 765 kV Fatehpur-Varanasi S/c and 765 kV Fatehpur-Sasaram S/c Lines which are proposed to be LILO at New Prayagraj (ISTS)" as mentioned below:

S. No	Name of the scheme and tentative implementation timeframe	Estimated Cost (₹ Cr)	Remarks
1.	OPGW installation on existing 765 kV Fatehpur-Varanasi S/c & 765 kV Fatehpur-Sasaram S/c Lines which are proposed to be LILO at New Prayagraj (ISTS) Tentative implementation timeframe: 24 months from the date of allocation or with matching timeframe of the transmission project "Inter-regional (NR-WR) Transmission System strengthening to relieve the loading of 765 kV Vindhyachal-Varanasi D/c line" whichever is earlier.	₹ 33.24 Cr	Approved for implementation under RTM By POWERGRID

3.6.3 Detailed scope of the scheme is given below:

S. No	Scope of the transmission scheme
1.	Supply & Installation of OPGW (48F) on existing 765 kV Fatehpur-Varanasi S/c (223

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	Km) and 765 kV Fatehpur-Sasaram S/c (356 Km) Lines which are proposed to be LILO at New Prayagraj S/s (ISTS) including 1 No. FOTE at Fatehpur, 1 No. of FOTE at repeater for Fatehpur-Sasaram line section & optical interfaces / amplifiers etc. at all the locations (Total OPGW: 579 Km. & Total FOTE:2 No.)

3.7 **VOIP Communication system for Grid-Operation for all Five Regions NR, NER, SR, WR, ER as PAN India**

3.7.1 CTUIL stated that Transmission Scheme VOIP Communication system is of utmost importance for grid management and operation by grid operators and also time critical. Accordingly, "VOIP Communication system for Grid-Operation for all Five Regions NR, NER, SR, WR, ER as PAN India" has been planned with estimated cost of ₹ 156.52 Cr. The scope of the scheme includes supply and installation of VOIP Communication system including Phones, Voice Recorder etc. for all Five Regions NR, NER, SR, WR, ER as PAN India at NLDC, RLDCs, SLDCs. The scheme has already been agreed by all the RPCs and NPC.

3.7.2 The scheme was discussed in the 26th meeting of NCT, wherein it was directed that a meeting may be convened by CEA with CTUIL, POWERGRID, and Grid India to examine the complete scope of VOIP to be brought up for consideration and approval in the next NCT meeting.

3.7.3 Accordingly, the scope was examined and suggested that 33 kV and above RE Gencos of the STUs which are operational on the fibre optic network as desired in the regulations to be included in the scope. For the additional scope, only 42 Nos. of VoIP phones requirement was received, which is roughly 0.46 % of the quantity of VOIP phones proposed as 9100. The additional 42 number VoIP phones can be easily accommodated in the quantity variation of the contract by the implementing agency during implementation. Moreover, it is stated that Servers proposed in scheme are having high capacity (more than 200 %), which is sufficient to integrate additional VoIP phones during the future requirements upto 7-10 years.

3.7.4 CTU further stated that around 60 phones are required at UNMS centres of ISTS & STUs also in addition to above, which shall also be accommodated during project execution by the implementing agency.

3.7.5 Thus, in view of the above small incremental percentage of VOIP phones & high capacity of the proposed servers, the said VOIP scheme does not require any further change in BoQ/Cost for NCT approval. However, the same shall be considered by the implementing agency during the execution of the contract.

3.7.6 CTU clarified that the entire scheme both for ISTS and STUs shall be taken up together in a single package on PAN India basis by the implementing agency, however the billing will be done as per CERC regulations for central/state sector.

3.7.7 Grid-India stated that the current maintenance and support is expiring in June 2026. The implementation time-frame of the scheme may therefore be reduced from proposed 24 months to 12 months. Grid-India advised that core of optical fibres should be utilized based on priority. The cores requirement for each application shall be clearly specified by CTUIL.

3.7.8 After deliberations NCT approved the communication scheme "VOIP Communication system for Grid-Operation for all Five Regions NR, NER, SR, WR, ER as PAN India" to be implemented under RTM as mentioned below:

S. No	Name of the scheme and tentative implementation timeframe	Estimated Cost (₹ Cr)	Remarks
1.	VOIP Communication system for Grid-Operation for all Five Regions NR, NER, SR, WR, ER as PAN India Tentative implementation timeframe: 18 months from the date of allocation	₹ 156.52 Cr (approx.)*	Approved under RTM By POWERGRID

** Breakup of cost between central and state sector, including 6 year AMC after completion of 1 yr warranty period are as under:*

Region	*Central Sector (ISTS) (in Crs.)*	*State Sector (in Crs.)*	*Total (excluding taxes and duties) (in Crs.)*	*Total (including taxes & Duties) (in Crs.)*
NR	*₹18.54*	*₹15.92*	*₹ 34.46*	*₹ 40.66*
SR	*₹15.3*	*₹ 12.68*	*₹ 27.98*	*₹ 33.02*
WR	*₹14.61*	*₹ 11.74*	*₹ 26.35*	*₹ 31.10*
ER	*₹12.21*	*₹ 6.16*	*₹ 18.37*	*₹ 21.67*
NER	*₹13.21*	*₹5.72*	*₹ 18.93*	*₹ 22.34*
NLDC, International exchange and Cyber audit	*₹ 6.55*	*₹ 0*	*₹ 6.55*	*₹ 7.73*
Total	*₹ 80.42*	*₹ 52.22*	*₹ 132.64*	*₹ 156.52*

3.7.9 Detailed scope of the scheme is given below:

S. No	Scope of the scheme
1.	Supply and installation of VOIP Communication system including Phones, Voice Recorder etc. for Grid-Operation for all Five Regions NR, NER, SR, WR, ER as PAN India at NLDC, RLDCs, SLDCs Broad specifications: i. Server based architecture: Multiple level (4 level) of redundancy as compared to no redundancy in existing system. ii. Server based architecture: Multiple level (4 level) of redundancy as compared to no redundancy in existing system.

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	iii. SLDC & RLDC servers has Local (Control Centre phones) and Remote (Substation, Generators) Phone support. However, at NLDC only local phone support has been considered. iv. Power over ethernet (PoE) switches with dual DC supply ports has been considered for all VOIP phones at remote stations for redundancy and powering the phones. v. One set of three servers are proposed for Voice (VOIP), NMS & Call Recording at each control centre. vi. There is no duplication of licenses for backup servers. vii. Server size and software has been considered by taking future requirement of phones. viii. Support for integration of future exchange of other utilities considered (their control centres). ix. NMS for adding/ deleting users shall be provided at RLDC/ SLDC levels x. Operator console shall be provided to manage calls at RLDC/SLDC xi. Call recording features shall be provided at RLDC & SLDC level with backup. xii. VOIP, Analog & Four Wire E&M (at PLCC locations) phones are considered xiii. Video Phones at RLDC/ SLDC for Senior officials xiv. Sufficient numbers of licenses to cater future RE/ ISTS/ ISGS/ IPP and STU substations locations. The licenses for present and future requirement of the phones xv. are considered under the scope of project, however phones for present requirement only shall be procured. xvi. Firewall at control centres is considered xvii. Installation with 100m Cat-6 cable considered at remote locations. xviii. Integration with existing STU exchanges has been considered. xix. One Exchange for international communication for cross border links has been considered at NLDC main and Backup NLDC. xx. 6 year of AMC has been considered after 1 year warranty. xxi. Cyber Security Audit has been considered. xxii. VoIP phones, analog phones, POE switches, gateway etc. should be placed after site survey as per requirements. xxiii. TS shall be shared by an implementation agency with all stake holders & implemented as per feedback by stakeholder. xxiv. As per Meghalaya requirement POE switch with optical interface may also be considered. xxv. VOIP phones to be procured in future shall be suitably stated in the same contract agreement by the implementing agency to cover during the AMC phase in order to secure from cyber threats etc.

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3.8 **Establishment of State-of-the-Art National Unified Network Management System (N-UNMS) in main & backup configuration integrating all the regional UNMSs.**

3.8.1 Representative from CTUIL stated that to facilitate centralized supervision and monitoring including reporting/collection of PAN India communication Network of ISTS as well as State level system including cross border links at National Level including Outage Management & Coordination System Communication Scheme "Establishment of State-of-the-Art National Unified Network Management System (N-UNMS) in main and backup configuration integrating all the regional UNMSs is required.

3.8.2 After deliberations NCT approved the communication scheme "Establishment of State-of-the-Art National Unified Network Management System (N-UNMS) in main & backup configuration integrating all the regional UNMSs" as mentioned below:

S. No	Name of the scheme and tentative implementation timeframe	Estimated Cost (₹ Cr)	Remarks
1.	Establishment of State-of-the-Art National Unified Network Management System (N-UNMS) in main & backup configuration integrating all the regional UNMSs Tentative implementation timeframe: 24 months from the date of allocation	₹ 128 Cr (approx. including AMC)	Approved under RTM By POWERGRID

3.8.3 Detailed scope of the scheme is given below:

S. No	Scope of the scheme
1.	• Supply and Installation of Main & Backup National-UNMS system hardware and software along with associated items at respective national & regional UNMS Setup. The new system shall be deployed in such a way that the operation of the existing systems should not be disturbed. Workstations/ Remote consoles at CEA- PCD, RPCs, NLDC & RLDCs, CTUIL and States with associated computer system Hardware & Software. • Supply and Installation of hardware & software for workstation, network switches, video wall, firewall & IDPS, Printer, Furniture etc. • Integration of existing Regional UNMS (In Main & Backup config) with Main and Back up N-UNMS System. One channel of each Regional UNMS to Main and Back up UNMS centre shall be used for redundancy of respective UNMS Centres. • Development of complete Database, displays and reports either from scratch or by extracting existing database, displays and reports, also for creating integrated national communication system overview and inter regional system details for the modules including Outage management & Ticketing modules for regional and national communication system. • Supply of all FCAPS (Fault, Configuration, Planning, Accounting,

	Performance & Security) features with advance planning tool. • Import and Adaption of database & displays made for Regional UNMS system including import of historical data stored in existing servers for integration in new system also for creating national dashboard and inter regional system dashboards for the required system details. • Development of Outage Management & Coordination module and Ticketing Module for National and Regional ISTS Communication Networks. Development of Cloud based communication outage management and ticketing portal for regional & national communication network, also accessible through public internet. These shall be aligned with the finalised Standard Operating Procedure (SOP) for Communication System Outage Planning. • Auxiliary Power Supply System Comprising of UPS with Battery set along with all necessary distribution board. • Integration & Testing with any new UNMS coming up during implementation and AMC period of this Project. • Supply of Spares identified under AMC along with main items to meet the contingency during installation period and during AMC period. • All cabling, wiring, and interconnections to the items being supplied and to be integrated including power supply. • The project scope shall include customization of its database, such as configuration of database, scan period and all other database parameters required to integrate existing system successfully. • Additional Hardware, software and services necessary to ensure compatibility with existing UNMS Systems. • Auditing of Cyber Security implementation by CERT-In listed Auditors during AMC. • Training of personnel and Users of the System. • Comprehensive Maintenance of the supplied system for seven (7) years including one (1) year defect liability period as per specification, including integration with future UNMS (if any), Database configurations, Maintaining Spare inventory etc. • Integration with third party Applications: The N-UNMS Systems being supplied shall have provision to exchange data with the existing and or to be purchased third party applications of in standard formats like ODBC, OPC & XML etc. GI/Aluminium cable trays/trace ways with covers shall be supplied in the project for laying cables so that cable can be protected from rodents. These cable trays/trace ways shall be screwed/ fixed on the floor.

3.9 **Utilization of OPGW laid by M/s BDTCL on 765 kV S/c Bhopal (BDTCL) – Indore (PG) & 765 kV S/c Vadodara (PG) - Dhule (BDTCL) – Aurangabad (PG) line by upgrading STM-1 FOTE to STM-16 FOTE at Bhopal (BDTCL), Indore**

(PG), Dhule (BDTCL), Aurangabad (PG) and Vadodara (PG) S/s installed by M/s BDTCL and integration with ISTS network for ULDC data Communication in view of upcoming Dhule PS & LILO of Bhopal – Indore line.

3.9.1 Representative of CTUIL stated that there is a requirement of FOTE upgradation for the utilization of OPGW laid by M/s BDTCL on 765 kV S/c Bhopal (BDTCL) – Indore (PG) & 765 kV S/c Vadodara (PG) - Dhule (BDTCL) – Aurangabad (PG) line.

3.9.2 After deliberations NCT approved the communication scheme "Utilization of OPGW laid by M/s BDTCL on 765 kV S/c Bhopal (BDTCL) – Indore (PG) & 765 kV S/c Vadodara (PG) - Dhule (BDTCL) – Aurangabad (PG) line by upgrading STM-1 FOTE to STM-16 FOTE at Bhopal (BDTCL), Indore (PG), Dhule (BDTCL), Aurangabad (PG) and Vadodara (PG)" as mentioned below:

S. No	Name of the scheme and tentative implementation timeframe	Estimated Cost (₹ Cr)	Remarks
1.	Utilization of OPGW laid by M/s BDTCL on 765 kV S/c Bhopal (BDTCL) – Indore (PG) & 765 kV S/c Vadodara (PG) - Dhule (BDTCL) – Aurangabad (PG) line by upgrading STM-1 FOTE to STM-16 FOTE at Bhopal (BDTCL), Indore (PG), Dhule (BDTCL), Aurangabad (PG) and Vadodara (PG) S/s. Implementation Timeframe: 12 months from the date of allocation.	Rs. 2.6 Crore (approx.)	Approved for implementation by M/s Bhopal Dhule Transmission Company Ltd. (BDTCL).

3.9.3 Detailed scope of the scheme is given below:

S. No	Scope of the transmission scheme
1.	1. Supply and installation of 5 nos, STM-16 (FOTE) equipment supporting minimum five (5) directions with MSP (Multiplex Section Protection – 1+1) alongwith necessary interfaces and cards at following Locations (1 No. FOTE at each location) and integration with existing ISTS Communication network: (i) Bhopal (BDTCL) (ii) Indore (PG) (iii) Dhule (BDTCL) (iv) Vadodara (PG) (v) Aurangabad (PG) 2. Supply and installation of approach cable, FODP and other accessories at Indore (PG) and Vadodara (PG) S/s.

3.10 **Supply and Installation of OPGW on existing 765 kV Gwalior – Satna S/c Line which is proposed to be LILOed at Karera (near Datiya) S/s under TBCB project namely "Western Region Expansion Scheme XXXIII (WRES-XXXIII): Part B".**

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3.10.1 CTU stated that Gwalior (PG)-Satna (PG) s/c line has no OPGW & new substation Karera is planned to be established in ISTS in the TBCB transmission scheme "Western Region Expansion Scheme XXXIII (WRES-XXXIII): Part B" by LILO.

3.10.2 CTU further stated that SCOD Karera S/s is Feb-2026. It is suggested that POWERGRID shall install OPGW from Gwalior S/s to LILO point of Karera S/s in the matching timeframe on priority, so that data communication of Karera S/s can be established.

3.10.3 After deliberations NCT approved the communication scheme "Supply and Installation of OPGW on existing 765 kV Gwalior – Satna S/c Line which is proposed to be LILO at Karera (near Datiya) S/s under TBCB project namely *"Western Region Expansion Scheme XXXIII (WRES-XXXIII): Part B"* under RTM mode through POWERGRID as mentioned below:

S. No	Name of the scheme and tentative implementation timeframe	Estimated Cost (₹ Cr)	Remarks
1.	Supply and Installation of OPGW on existing 765 kV Gwalior – Satna S/c Line which is proposed to be LILO at Karera (near Datiya) S/s under TBCB project namely *"Western Region Expansion Scheme XXXIII (WRES-XXXIII): Part B"* Implementation Timeframe: Matching time frame of upcoming LILO of the said line or 24 months from the date of allocation whichever is earlier.	Rs. 23.5 Crore (approx.)	Approved for implementation by M/s POWERGRID on RTM mode.

3.10.4 Detail scope of the scheme is given below:

S. No	Scope of the transmission scheme
1.	1. OPGW Supply and installation alongwith accessories on the following line by replacing the existing one No. earthwire by Live Line installation: • 765 kV Gwalior – Satna S/c Line (341 km approx.) 2. STM-16 FOTEs of 5 MSP at Satna, Gwalior for establishing the communication in between Gwalior-Karera-Satna. 3. Repeater Station along with communication equipment, auxiliary power system & all the items associated with repeater shelter.

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4 Status of the bids under process by BPCs

4.1 The BPCs (RECPDCL and PFCCL) have made presentations on the status of under bidding schemes. Summary of the same is given below:

S.No.	Region(s)	RECPDCL	PFCCL
1	Bids Under Evaluation	03	08
2	RfP issued and bids to be submitted	04	06
3	RfP to be issued	01	02
4	RfP bid submission on hold	01	00
	TOTAL	**09**	**16**

4.2 Members noted the same.

* * *

Summary of the deliberations of the 27th meeting of NCT held on 6th February, 2025

I. ISTS Transmission schemes, costing greater than ₹ 500 Crore, recommended by NCT to MoP under TBCB:

The ISTS transmission schemes recommended by NCT to MoP are given below:

Sl. No.	Name of Transmission Scheme	Implementation Mode	Tentative Implementation timeframe	BPC	Estimated Cost (₹ Crs.)
1.	Inter-regional (NR-WR) Transmission System strengthening to relieve the loading of 765 kV Vindhyachal-Varanasi D/c line	TBCB	24 months from the date of allocation.	PFCCL	2368.26
2.	Transmission system for evacuation of power from Pumped Storage Projects in Sonbhadra District. Uttar Pradesh	TBCB	34 months from the date of allocation * **except for 765/400 kV, 1x1500 MVA ICT(4th) at Robertsganj PS.* Tentative implementation timeframe for 765/400 kV, 1x1500 MVA ICT(4th) at Robertsganj PS is Dec, 2030	RECPDCL	3625.97
3.	Transmission system for Evacuation of Power from RE Projects in Morena SEZ in Madhya Pradesh-Phase I (2500 MW)	TBCB	27 Months	PFCCL	1692

The broad scope of the above ISTS schemes to be notified in Gazette of India is as given below:

Sl.	Name of Scheme &	Broad Scope	Bid Process

No.	Tentative implementation timeframe		Coordinator
1.	Inter-regional (NR-WR) Transmission System strengthening to relieve the loading of 765 kV Vindhyachal-Varanasi D/c line **Implementation Timeframe:** 24 Months	i. Establishment of 765 kV Prayagraj S/s near Prayagraj(Uttar Pradesh) along with 2x330 MVAr 765 kV Bus reactors ii. LILO of 765 kV Fatehpur-Varanasi S/c line at Prayagraj iii. LILO of 765 kV Fatehpur-Sasaram S/c line at Prayagraj iv. 765 kV Vindhyachal Pool - Prayagraj D/c line along with 330MVAr line reactor (switchable) at Prayagraj end on each ckt of 765 kV Vindhyachal Pool - Prayagraj D/c line v. Bypassing of both ckts of 765 kV Sasan – Vindhyachal Pool 2xS/c line at Vindhyachal Pool and connecting it with 765 kV Vindhyachal Pool - Prayagraj D/c line, thus forming 765 kV Sasan - Prayagraj D/c line **(Detailed scope as approved by 27th NCT and subsequent amendments thereof)**	PFCCL
2.	Transmission system for evacuation of power from Pumped Storage Projects in Sonbhadra District. Uttar Pradesh **Implementation Timeframe:** 34 months from the date of allocation * **except for 765/400 kV, 1x1500 MVA ICT(4th) at Robertsganj PS.* Tentative implementation timeframe for 765/400	i. Establishment of 4x1500 MVA 765/400 kV Robertsganj Pooling Station near Robertsganj area in Sonbhadra distt. (Uttar Pradesh) along with 2x240 MVAr 765 kV & 2x125 MVAr 400 kV bus reactors ii. LILO of both circuits of 765 kV Varanasi- Gaya 2xS/c line at Robertsganj PS along with 240 MVAr switchable line reactor at each ckt of Robertsganj PS end of 765 kV Robertsganj PS - Gaya 2xS/c line (after LILO) iii. Robertsganj PS – Prayagraj S/s 765 kV D/c line along with 330 MVAr line reactor at each circuit	RECPDCL

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	kV, 1x1500 MVA ICT(4th) at Robertsganj PS is December, 2030	of Robertsganj end of Robertsganj PS – Prayagraj S/s 765 kV D/c line **(Detailed scope as approved by 27th NCT and subsequent amendments thereof)**	
3.	Transmission system for Evacuation of Power from RE Projects in Morena SEZ in Madhya Pradesh-Phase I (2500MW) **Implementation Timeframe:** 27 Months	i. Establishment of 3x1500 MVA, 765/400 kV & 2x500MVA, 400/220 kV Morena PS (South of Sabalgarh) with 2x330 MVAr 765 kV bus reactor and 2x125 MVAr 420 kV bus reactor. ii. Morena PS (South of Sabalgarh) – Karera (near Datia) 765 kV D/c line iii. 2 Nos. of 765 kV line bays at Karera (near Datia) for termination of Morena PS (South of Sabalgarh) – Karera (near Datia) 765 kV D/c line iv. Augmentation of 400/220 kV transformation capacity at 765/400/220 kV Karera (near Datia) S/s (Sec-I) by 1x500MVA ICT (3rd) **(Detailed scope as approved by 27th NCT and subsequent amendments thereof)**	PFCCL

II. ISTS Transmission schemes, costing greater than ₹ 500 Crore, recommended by NCT to MoP under RTM:

The ISTS transmission schemes recommended by NCT to MoP are given below:

Sl. No.	Name of Transmission Scheme	Implementation Mode	Tentative Implementation timeframe	Estimated Cost (₹ Crs.)

1.	Provision of ICT Augmentation and Bus Reactor at Bhuj-II PS	RTM through POWERGRID Bhuj Transmission Limited	21 months	587

The broad scope of the above ISTS schemes is as given below:

Sl. No.	Name of Scheme & Tentative implementation timeframe	Broad Scope
1.	Provision of ICT Augmentation and Bus Reactor at Bhuj-II PS **Implementation Timeframe: 21 Months**	i. Augmentation of transformation capacity at Bhuj-II PS (GIS) by 3x500 MVA, 400/220 kV ICT (7th, 8th & 9th) ii. Augmentation of transformation capacity at Bhuj-II PS (GIS) by 1x1500 MVA, 765/400 kV ICT (4th) iii. Installation of 1x330 MVAr 765 kV Bus Reactor (2nd) along-with associated bay iv. Implementation of 220 kV GIS line bay at Bhuj-II PS for Aditya Birla Renewables Subsidiary Limited (ABRSL) [Appln No: 2200000321(362MW)] v. Implementation of 220 kV GIS line bay at Bhuj-II PS for ACME Cleantech Solutions Private Limited (ACSPL) [Appln No: 2200000382(350 MW)] vi. Implementation of 220 kV GIS line bay at Bhuj-II PS for ACME Cleantech Solutions Private Limited (ACSPL) [Appln No: 2200000431(50 MW)] vii. Implementation of 220 kV GIS line bay at Bhuj-II PS for Avaada Energy Pvt Ltd. (AEPL) [Appl. No: 2200000444(100 MW)] viii. Implementation of 220 kV GIS line bays at Bhuj-II PS for Adani Green Energy Thirty-Two Ltd. (AGE32L) [Appl. No: 2200000514 (260.5MW)] ix. Implementation of 220 kV GIS line bays at Bhuj-II PS for Adani Renewable Energy Eight Ltd. (ARE8L) [Appl. No: 2200000545 (115MW)] **(Detailed scope as approved by 20th NCT and subsequent amendments thereof)**

III. ISTS Transmission schemes, approved by NCT:

1. The transmission schemes approved by NCT under RTM route is given below:

POWERGRID BHUJ TRANSMISSION LIMITED

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Sl. No.	Name of Transmission Scheme	Implementation Mode	Implementation timeframe	Estimated Cost (₹ Cr)
1.	Augmentation of transformation capacity at Bhuj-II PS (GIS)	RTM through POWERGRID Bhuj Transmission Limited	21 months	428

The broad scope of above schemes are given below

Sl. No.	Name of Scheme & Tentative implementation timeframe	Broad Scope
1.	Augmentation of transformation capacity at Bhuj-II PS (GIS) **Implementation Timeframe: 21 Months**	i) Augmentation of transformation capacity at Bhuj-II PS (GIS) by 2x500 MVA, 400/220 kV ICT (5th & 6th) and by 1x1500 MVA, 765/400 kV ICT (3rd) ii) Implementation of 220 kV GIS line bay at Bhuj-II PS for ABREL (RJ) Projects Limited **(Detailed scope as approved by 16th NCT and subsequent amendments thereof)**

IV. Communication schemes approved by NCT

Sl. No.	Name of Transmission Scheme	Implementation Mode	Tentative Implementation timeframe	Implementing Agency	Estimated Cost (Rs. Crs)
1.	OPGW installation on existing 765 kV Fatehpur-Varanasi S/c & 765 kV Fatehpur-Sasaram S/c Lines which are proposed to be LILOed at New Prayagraj (ISTS)	RTM	24 months from the date of allocation or with matching timeframe of the transmission project "Inter-regional (NR-WR) Transmission System strengthening to relieve the loading of 765 kV Vindhyachal-Varanasi D/c	POWERGRID	33.24

			line" whichever is lower		
2.	VOIP Communication system for Grid-Operation for all Five Regions NR, NER, SR, WR, ER as PAN India	RTM	18 months from the date of allocation	POWERGRID	156.52
3.	Establishment of State-of-the-Art National Unified Network Management System (N-UNMS) in main & backup configuration integrating all the regional UNMSs.	RTM	24 months from the date of allocation	POWERGRID	128 (including AMC)
4.	Utilization of OPGW laid by M/s BDTCL on 765 kV S/c Bhopal (BDTCL) – Indore (PG) & 765 kV S/c Vadodara (PG) - Dhule (BDTCL) – Aurangabad (PG) line by upgrading STM-1 FOTE to STM-16 FOTE at Bhopal (BDTCL), Indore (PG), Dhule (BDTCL), Aurangabad (PG) and Vadodara (PG) S/s. 5	RTM	12 months from the date of allocation.	Approved for implementation by M/s Bhopal Dhule Transmission Company Ltd. (BDTCL)	2.6
5.	Supply and Installation of OPGW on existing 765 kV Gwalior – Satna S/c Line which is proposed to be LILOed at Karera (near Datiya) S/s under TBCB project namely "Western Region	RTM	Matching time frame of upcoming LILO of the said line or 24 months from the date of allocation whichever is earlier.	POWERGRID	23.5

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	Expansion Scheme XXXIII (WRES-XXXIII): Part B".				

Annexure-I

List of participants of the 25th meeting of NCT

CEA:

1. Sh. Ghanshyam Prasad, Chairperson, CEA & Chairman, NCT
2. Sh. Ajay Talegaonkar, Member (E&C)
3. Sh. A. K. Rajput, Member (Power Systems)
4. Sh. S. K. Maharana, Chief Engineer (PCD)
5. Sh. B. S. Bairwa, Chief Engineer (I/C) (PSPA-II)
6. Sh. Farooque Iqbal, Director (PSPA-II)
7. Sh. Vikas Sachan, Deputy Director (PSPA-I)
8. Sh. Manish Maurya, Deputy Director (PSPA-II)

MoP:

1. Sh. Om Kant Shukla, Director (Trans.)

MNRE:

1. Sh. Himanshu Prabhakar, Under Secretary

SECI:

1. Sh. Vineet Kumar, DGM
2. Sh. R. K. Agarwal, Consultant

NITI Aayog:

1. Sh. Shravan Pushkar, Consultant

CTUIL:

1. Sh. Ashok Pal, COO
2. Ms. Manju Gupta, Deputy COO
3. Sh. Vikas Bagadia, CGM
4. Sh. P. S. Das, Sr GM
5. Ms. Nutan Mishra, Sr GM
6. Sh. H. S. Kaushal, Sr GM
7. Sh. Shiv Kumar Gupta, Senior DGM
8. Sh. Kunal Gaur, DGM
9. Sh. VMS Prakash Yerubandi, DGM
10. Sh. Pratyush Singh, Chief Manager
11. Sh. Yatin Sharma, Manager

GRID India:

1. Sh. S. R.Narasimhan, CMD
2. Sh. Rajiv Porwal, Director (SO)
3. Sh. Vivek Pandey, Sr. General Manager
4. Sh. Priyam Jain, Chief Manager

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5. Sh. Rahul Shukla, Chief Manager
6. Sh. Raj Kishan, Deputy Manager

RECPDCL

1. Sh. Satyabhan Sahoo, GM (Tech)
2. Sh. Saroj Kumar Sharma, GM
3. Sh. Anil Kumar, Chief Manager
4. Sh. Dheeraj Kumar, Executive (Tech.)

PFCCL

1. Sh. Naveen Phougat, GM
2. Sh. Deepak Kumar, AM

Expert Member

1. Sh. Ravinder Gupta, Ex Chief Engineer, CEA

पावरग्रिड भुज ट्रांसमिशन लिमिटेड
POWERGRID BHUJ TRANSMISSION LIMITED

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ANNEXURE V

FORM I

1. **Particulars of the Applicant**

Sl. No.	Particulars	Particulars
i	Name of the Applicant	POWERGRID Bhuj Transmission Limited
ii	Status	Public Limited Company
iii	Address	B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi-110016
iv	Name, Designation & Address of the contact person	Shri B.K.Pradhan Project In-charge, POWERGRID Bhuj Transmission Limited (100% wholly owned subsidiary of Power Grid Corporation of India Limited) C/o ED (TBCB) Power Grid Corporation of India Limited, Saudamini, Plot no.2, Sector-29, Gurgaon- 122001
v	Contact Tele. No.	9434742021
vi	Fax No.	
vii	Email ID	bkpradhan@powergrid.in
viii	Place of Incorporation / Registration	New Delhi, India
ix	Year of Incorporation / Registration	2019
x	Details of Fees Remitted	100000
xi	List of documents enclosed:	a) Certificate of Registration: Enclosure-1 b) Copy of Power of Attorney: Enclosure-2
Signature of the Authorized Signatory with Date		

2. **Particulars of the Project for which licence / Amendment in licence (list of existing elements and proposed addition /deletion element in case) is being sought:**

Details of the Project proposed to be implemented under **the Regulated Tariff Mechanism (RTM) mode are as follows: -**

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i) **Scheme – I: As per the CTUIL/OM/21/27th NCT dated 24.02.2025**

Project: Augmentation of Transformation capacity at Bhuj-II PS (GIS)

Sl. No.	Name (location)	Voltage Level(s) (kV)	Transformer (Nos. and MVA capacity)	Reactive / capacitive compensation (device with MVAR capacity)	No. of Bays
1.	Bhuj-II PS (GIS)	400 /220 kV 765/400 kV	2x500MVA 1X1500 MVA	-	765 kV ICT bay: 2 No. *[1 No. for ICT & 1 No. for Dia. completion (with provision of Switchable LR)]* 400 kV ICT bays: 4 Nos *[3 Nos. for ICT termination and 1 No. for Dia. completion (with provision of Switchable LR)]* 220 kV ICT bays: 2 Nos GIB Duct length for 1x1500 MVA, 765/400 kV ICT: 1 Ph. 765 kV GIB Duct – 600 m (approx.) 1 Ph. 400 kV GIB Duct – 625 m. (approx.) GIB Duct length for 2x500 MVA, 400/220 kV ICTs: 1 Ph. 400 kV GIB – 300 m (approx.) 1 Ph. 220 kV GIB – 750 m (approx.)

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Sl. No.	Name (location)	Voltage Level(s) (kV)	Transformer (Nos. and MVA capacity)	Reactive / capacitive compensation (device with MVAR capacity)	No. of Bays
2		220 kV GIS line bay at Bhuj-II PS	-	-	220 kV line bay – 1 No. (GIS)

ii) **Scheme – II: As per the CTUIL/OM//27th NCT dated 18.03.2025**

Project: - Provision of ICT Augmentation and Bus reactor at Bhuj-II PS

Sl. No.	Name (location)	Voltage Level(s) (kV)	Transformer (Nos. and MVA capacity)	Reactive / capacitive compensation (device with MVAR capacity)	No. of Bays
1.	Bhuj II PS	400/220 kV	3x500MVA	-	400 kV ICT bays: 3 No. *(with addl. 3 Nos. for dia completion)* 220 kV ICT bays: 3 No..
2	Bhuj II PS	765/400 kV	1x1500 MVA	-	765 kV ICT bay: 1 No. *(with addl. 1 No. for dia completion)* 400 kV ICT bay: Nil. (1 No. considered at Sl. No.1 above)
3	Bhuj II PS	765 kV	-	1x330 MVAr 765 kV Bus Reactor	765 kV BR bay: Nil (1 No. considered at Sl. No.2 above
4	Bhuj II PS	220 kV	--	-	6 no. GIS Line Bay

3. **Estimated completion cost –**

POWERGRID BHUJ TRANSMISSION LIMITED

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a) **Scheme-I: - Rs 428 Crores**
Scheme-II: Rs. 587 Crores

a) Remarks: Application is being filed for element to be added

b) **Scheduled COD**:

a) **Scheme-I: 24.11.2026**
Scheme-II: 18.12.2026

b) Agreements with Identified Long-term transmission customers or CTU for the Project, as applicable: NA

(c) List of Respondents

1. Madhya Pradesh Power Management Company Ltd.
2. Madhya Pradesh Audyogik Kendra
3. Maharashtra State Electricity Distribution Co. Ltd.
4. Gujarat Urja Vikas Nigam Ltd.
5. Electricity Department, Govt. Of Goa
6. Electricity Department, Administration Of Daman & Diu
7. DNH Power Distribution Corporation Limited
8. Chhattisgarh State Power Distribution Co. Ltd.
9. Aditya Birla Renewable Subsidiary Limited (ABRSL)
10. ACME Cleantech Solutions Private Limited (ACSPL)
11. Avaada Energy Pvt limited (AEPL)
12. Adani Renewable Energy Eight Ltd. (ARE8L).
13. Adani Green Energy Thirty- Two Ltd
11. PFC Consulting Limited
12. Central Transmission Utility of India Limited

(d) Any other relevant information : Nil

5. Levelized transmission charges: To be determined u/s 61, 62 of EA

6. a) Recommendation of selection by the 27th meeting National Committee on Transmission } CTUIL OM is attached

(b) Evaluation report made public by the Bid Process Coordinator } Not Applicable

7. List of documents enclosed:
   a) Certificate of Registration: Enclosure-1

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b) Copy of Power of Attorney: Enclosure-2

Basant Kumar Pradhan Digitally signed by Basant Kumar Pradhan Date: 2025.06.05 15:01:48 +05'30'

Signature of the Petitioner

Date:

Place:

POWERGRID BHUJ TRANSMISSION LIMITED पावरग्रिड भुज ट्रांसमिशन लिमिटेड

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सत्यमेव जयते

GOVERNMENT OF INDIA
MINISTRY OF CORPORATE AFFAIRS

Office of the Registrar of Companies
4th Floor, IFCI Tower 61, New Delhi, Delhi, India, 110019

Certificate of Incorporation pursuant to change of name

[Pursuant to rule 29 of the Companies (Incorporation) Rules, 2014]

Corporate Identification Number (CIN): U40300DL2019GOI346552

I hereby certify that the name of the company has been changed from BHUJ-II TRANSMISSION LIMITED to POWERGRID BHUJ TRANSMISSION LIMITED with effect from the date of this certificate and that the company limited by shares.

Company was originally incorporated with the name BHUJ-II TRANSMISSION LIMITED.

Given under my hand at New Delhi this Sixteenth day of November two thousand nineteen.

DS DS
MINISTRY OF
CORPORATE
AFFAIRS 1

KAMAL HARJAI

Registrar of Compani

RoC - Del

Mailing Address as per record available in Registrar of Companies office:
POWERGRID BHUJ TRANSMISSION LIMITED

B-9 Qutab Institutional Area,, Katwaria Sarai, New Delhi, South Delhi, Delhi, India, 110016

पावरग्रिड भुज ट्रांसमिशन लिमिटेड
POWERGRID BHUJ TRANSMISSION LIMITED

Basant Kumar Pradhan

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INDIA NON JUDICIAL

Government of National Capital Territory of Delhi

e-Stamp

Certificate No.	:	IN-DL66489702471179V
Certificate Issued Date	:	21-Feb-2023 04:45 PM
Account Reference	:	IMPACC (IV)/ dl732103/ DELHI/ DL-DLH
Unique Doc. Reference	:	SUBIN-DLDL73210306428359317934V
Purchased by	:	POWERGRID BHUJ TRANSMISSION LIMITED
Description of Document	:	Article 48(c) Power of attorney - GPA
Property Description	:	Not Applicable
Consideration Price (Rs.)	:	0 (Zero)
First Party	:	POWERGRID BHUJ TRANSMISSION LIMITED
Second Party	:	Not Applicable
Stamp Duty Paid By	:	POWERGRID BHUJ TRANSMISSION LIMITED
Stamp Duty Amount(Rs.)	:	100 (One Hundred only)

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Please write or type below this line

General Power of Attorney

Know all men by these presents, we **POWERGRID Bhuj Transmission Limited** (hereinafter referred to as PBTL, which expression shall unless repugnant to the context or meaning thereof, include its successors, administrators, and assigns) having its Registered Office at B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi – 110016 do hereby constitute, appoint and authorize Shri Basant Kumar Pradhan, Project In-charge of PBTL residing at Powergrid Residency No -113, Ward No -19, Sector 21-C, Part-III Faridabad, Haryana – 121001, as our true and lawful attorney, to do in our name and on our behalf, all of the acts or things hereinafter mentioned, that is to say :-

POWERGRID BHUJ TRANSMISSION LIMITED

Statutory Alert:

Basant Kumar Pradhan

Digitally signed by Basant Kumar Pradhan
Date: 2023.02.23

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.

13. 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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KOMAL SINGH BAIS
Advocate
NOTARY PUBLIC
R. No. 4121/07
NCT DELHI
GOVT OF INDIA

POWERGRID BHARTIYA TRANSMISSION LIMITED

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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.

.....

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 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

Attested

.....

(Signature of the Executant)
Name: **Shri B. Anantha Sarma**
Designation: **Chairman (Part-time)**
Address: B-9, Qutub Institutional Area, Katwaria Sarai, New Delhi - 110 016.

NOTARY PUBLIC GOMAL SINGH GURJAR Advocate NOTARY PUBLIC H.A. 417207 NCT DELHI GOVT OF INDIA

.....

Signature and Stamp of Notary of the place of execution

ATTESTED
NOTARY PUBLIC, DELHI
10 MAR 2023

Basant Kumar Pradhan Digitally signed by Basant Kumar Pradhan Date: 2023.06.05 15:12:30 +05'30'

WITNESS

Shri Gaurav Rai
Company Secretary

POWERGRID BHUJ TRANSMISSION LIMITED

Seema Gupta
Director

Shri Pranab Kumar
Director