

BEFORE THE HON'BLE CENTRAL ELECTRICITY REGULATORY COMMISSION  
NEW DELHI

APPLICATION No: .....

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 Bikaner Transmission System Ltd. for "Implementation of 1 no. of 220 kV line bay at 400/220 kV Bikaner-II PS for interconnection of solar project (M/s NHPC Ltd.)", "Implementation of 2 no. of 220 kV line bays at 400/220 kV Bikaner-II PS for interconnection of RE power park of M/s ALF Solar Amarsar Pvt. Ltd.", "Transmission system for evacuation of power from Rajasthan REZ Ph IV (Part-1) (Bikaner Complex) Part-E" and "Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220 kV, 1 X 500 MVA ICT (3<sup>rd</sup>)" through "Regulated Tariff Mechanism" mode.

**POWERGRID Bikaner Transmission System 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 CGM (TBCB), Power Grid Corporation of India Limited, Saudamini, Plot no.2, Sector -29, Gurgaon 122001

.....APPLICANT

AND

**Uttar Pradesh Power Corporation Limited (UPPCL)**

Import Export & Payment Circle 14<sup>th</sup> Floor, Shakti Bhawan Extn. Building, 14,

Ashok Marg, Lucknow

And Others

.....RESPONDENT(S)



## INDEX

Sl. No.	Description	Annexure No.	Page No.
1.	Letter for registration	-	3-4
2.	Memo of parties	-	5-7
3.	Affidavit	-	8-9
4.	Application	-	10-19
5.	Copy of order dated 15.07.2021 in Application No. 99/TL/2021 vide which transmission license (TBCB) was granted to PBTSL	Annexure-1	20-29
6.	Certificate of Incorporation	Annexure-2	30
7.	Copy of MoP OM dated 28.10.2021	Annexure-3	31-33
8.	Copy of order dated 21.11.2022 in Application No. 137/TT/2022 vide which transmission license (under RTM) was granted to PBTSL	Annexure-4	34-48
9.	Copy of CTUIL OM dated 28.11.2022	Annexure-5	49-58
10.	Copy of CTUIL OM dated 17.01.2023	Annexure-6	59-61
11.	Copy of CTUIL OM dated 15.11.2022 based on the letter of NCT dated 15.11.2022	Annexure-7	62-68
12.	Copy of CTUIL OM dated 16.02.2023	Annexure-8	69-76
13.	Copy of CTUIL OM dated 08.06.2023	Annexure-8A	77-80
14.	Form-I	Annexure-9	81-87

Filed by  


POWERGRID Bikaner Transmission System Limited  
(A 100% wholly owned subsidiary of Power Grid Corporation of India Limited)  
POWERGRID Bikaner Transmission System Ltd. (PBTSL)

Represented by  


Project Incharge, POWERGRID Bikaner Transmission System Limited

Place: Bikaner  
Date: 11-07-2023

Project in charge  
POWERGRID Bikaner Transmission System Ltd. (PBTSL)

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.....APPLICANT

Versus

**Uttar Pradesh Power Corporation Limited (UPPCL)**

Import Export & Payment Circle 14<sup>th</sup> Floor, Shakti Bhawan Extn. Building, 14,

Ashok Marg, Lucknow

And Others

.....RESPONDENT(S)



To,  
The Secretary,  
Central Electricity Regulatory Commission,  
3 rd & 4 th Floor, Chanderlok Building,  
36, Janpath, New Delhi- 110001

Sir,

The 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 Bikaner Transmission System Ltd. for "Implementation of 1 no. of 220 kV line bay at 400/220 kV Bikaner-II PS for interconnection of solar project (M/s NHPC Ltd.)", "Implementation of 2 no. of 220 kV line bays at 400/220 kV Bikaner-II PS for interconnection of RE power park of M/s ALF Solar Amarsar Pvt. Ltd.", "Transmission system for evacuation of power from Rajasthan REZ Ph IV (Part-1) (Bikaner Complex) Part-E" and "Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220 kV, 1 X 500 MVA ICT (3<sup>rd</sup>)" through "Regulated Tariff Mechanism" (RTM) mode may please be registered.



Applicant

POWERGRID Bikaner Transmission System Limited  
(A 100% wholly owned subsidiary of Power Grid Corporation of India Limited)



Represented by

Project Incharge,

POWERGRID Bikaner Transmission System Limited

Place: Bikaner

Date: 11-07-2023

Project In-charge  
POWERGRID Bikaner Transmission System Ltd. (PBTS)

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Import Export & Payment Circle 14<sup>th</sup> Floor, Shakti Bhawan Extn. Building, 14,  
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## MEMO OF PARTIES

**POWERGRID Bikaner Transmission System Limited**

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Address for correspondence: C/o CGM (TBCB), Power Grid Corporation of India Limited, Saudamini, Plot no.2, Sector -29, Gurgaon 122001

.....APPLICANT

### **VERSUS**

1. Chairman, U.P. Power Corporation Limited (UPPCL)  
Import Export Payment Circle, 14th Floor, Shakti Bhawan Extn.  
Building, 14 - Ashok Marg, Lucknow
2. Chief Engineer, Haryana Power Purchase Centre  
Shakti Bhawan Energy Exchange Room No. 446, Top Floor, Sector - 6,  
Panchkula - 134109
3. Chairman & Managing Director,  
Punjab State Power Corporation Limited  
Shed No. T-1 A, Thermal Design, Near 22 No. Phatak, Patiala
4. Chairman, Jaipur Vidyut Vitran Nigam Limited  
Vidyut Bhawan, Janpath, Jaipur - 302005
5. Chairman, Ajmer Vidyut Vitran Nigam Limited  
Vidyut Bhawan, Panchsheel Nagar, Makarwali Road,  
Ajmer - 305004
6. Chairman, Jodhpur Vidyut Vitran Nigam Limited  
New Power House, Industrial Area, Jodhpur - 342003
7. Principal Secretary (Power), Power Development Deptt.,  
Govt. of Jammu & Kashmir  
SLDC Building, 1st Floor, Gladani Power House, Narwal, Jammu
8. Chief Electrical Distribution Engineer,  
North Central Railway Subedar Ganj, Allahabad
9. Chief Executive Officer, BSES Yamuna Power Limited  
2nd Floor, B Block, Shakti Kiran Bldg., Karkardooma,  
New Delhi - 110092
10. Chief Executive Officer, BSES Rajdhani Power Limited  
BSES Bhawan, 2nd Floor, B Block, Nehru Place, New Delhi - 110019
11. CEO & ED, TATA Power Delhi Distribution Limited  
NDPL House, Hudson Lines, Kingsway Camp, Delhi - 110009
12. Director (Commercial), New Delhi Municipal Corporation NDMC,  
Palika Kendra, Sansad Marg, New Delhi - 110001



13. Superintending Engineer  
Electricity Wing of Engineering Dept., Union Territory of Chandigarh,  
Electricity OP Circle, UT - Chandigarh
14. Executive Director (Commercial), Uttarakhand Power Corporation  
Limited, UPCL, Urja Bhawan, Kanwali Road, Balliwala Chowk,  
Dehradun - 248001
15. Tata Power Green Energy Limited,  
34, Sant Tukaram Road, Carnac Bunder, Masjid Bunder (E),  
Mumbai - 400009
16. Chief Engineer, Power System Project Monitoring Division, Central  
Electricity Authority,  
Sewa Bhawan, R. K. Puram,  
Sector - 1, New Delhi - 110066
17. Chief Operating Officer,  
Central Transmission Utility,  
Saudamini, Plot no.2, Sector - 29,  
Gurgaon - 122001

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**Versus**

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And Others

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## AFFIDAVIT

I, Upendra Singh, S/o Lt. R.D Singh, aged about 58 years Working at House No. 6-C-104/Jai Narayan Vyas Colony, Bikaner - 334001, do hereby solemnly affirm and state as follows:

1. I am the Authorized Signatory of the Applicant Company in the above matter and I am duly authorized by the Applicant Company 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 application, are true to 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 Applicant is a party and where issues arising and / or reliefs sought are identical or similar to the issues in the matter pending before the Hon'ble Commission.



Uo..  
Project In-charge  
POWERGRID Bikaner Transmission System Ltd. (PBTSL)

**POWERGRID Bikaner Transmission System Limited**  
(A 100% wholly owned subsidiary of Power Grid Corporation of India Limited)

Place: Bikaner

Date: 11-07-2023

### VERIFICATION:

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

Verified by me on this 11<sup>th</sup> Day of July 2023 at Bikaner.

**ATTESTED**  
[Signature]  
**CENTRAL NOTARY**  
**BIKANER (Raj.)**  
**INDIA**

11 JUL 2023

Uo..  
Deponent  
Project In-charge  
POWERGRID Bikaner Transmission System Ltd. (PBTSL)

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**The Applicant respectfully submits as under:-**

1. The Applicant POWERGRID Bikaner Transmission System Ltd. (hereinafter referred to as Applicant) is a wholly owned subsidiary of Power Grid Corporation of India Limited (POWERGRID).



The Applicant is an Inter-State Transmission Licensee implementing "Transmission System Strengthening Scheme for Evacuation of Power from Solar Energy Zones in Rajasthan (8.1 GW) under Phase II-Part F" on Build, Own, Operate and Maintain (BOOM) basis through Tariff Based Competitive Bidding (hereinafter referred to as "TBCB Project") mode. This Hon'ble Commission vide order dated 15.07.2021 passed in Application No. 99/TL/2021 granted transmission license to the Applicant for aforesaid TBCB Project.

*A copy of order dated 15.07.2021 is annexed and marked as Annexure - 1. A Copy of the Certificate of Incorporation pursuant to change of name is enclosed and marked as Annexure-2.*

2. The above mentioned project is under implementation and the detailed scope of TBCB Project is as under:

Sr.	Name of the Transmission Element	Scheduled COD in months from Effective Date
1.	Establishment of 400 kV switching station at Bikaner -II PS with 420kV (2x125 MVAR) bus reactor 400 kV line bays - 4 nos. 125 MVAR, 420 kV bus reactor - 2 nos. 400 kV bus reactor bay - 2 nos. 400 kV, 80MVAR line reactor on each circuit at Bikaner -II end of Bikaner -II - Khetri 400 kV 2xD/c Line - 4 nos. Switching equipment for 400 kV switchable line reactor - 4 nos. <u>Future provisions:</u> Space for 400/220 kV ICTs along with bays - 10 nos. 400 kV line bays - 6 nos. 220 kV line bays - 16 nos. 420 kV reactors along with bays - 2 nos. Suitable bus sectionaliser arrangement at 400 kV and 220 kV	18 Months from Effective Date or June 2022, whichever is later
2.	Bikaner-II PS - Khetri 400 kV 2xD/c line (Twin HTLS* on M/c Tower)	
3.	1x80MVAR Fixed Line reactor on each circuit at Khetri end of end of Bikaner-II - Khetri 400 kV 2xD/c Line - 4 nos.	
4.	4 nos. of 400 kV line bays at Khetri for Bikaner -II PS - Khetri 400kV 2xD/c line	

Sr.	Name of the Transmission Element	Scheduled COD in months from Effective Date
5.	Khetri- Bhiwadi 400 kV D/c line (Twin HTLS)*	
6.	2 nos. of 400 kV line bays at Khetri for Khetri - Bhiwadi 400kV D/c line	
7.	2 nos. of 400 kV(GIS) line bays at Bhiwadi for Khetri- Bhiwadi 400 kV D/c line	
8.	STATCOM at Bikaner-II S/s ± 300 MVAR, 2x125 MVAR MSC, 1x125 MVAR MSR	

\*With minimum capacity of 2100 MVA on each circuit at nominal voltage.

3. That, subsequently, Hon'ble Commission vide order dated 21.11.2022 passed in application no. 137/TL/2022 has granted transmission license to the Applicant for implementation of 03(three) nos. transmission schemes through "Regulated Tariff Mechanism" (RTM) mode (placed at **Annexure-4**) assigned to applicant by CTUIL in line with Office Memorandum issued by Ministry of Power dated 28.10.2021 (enclosed and marked as **Annexure-3**), wherein MoP inter alia authorized CTUIL to approve and assign elements required for inter-state transmission along with their mode of implementation to ISTS licensees costing less than or equal to Rs. 100 crores or such limit, as prescribed by MoP from time to time. The details of 03 nos. transmission schemes under RTM mode for which transmission license has been granted to applicant in petition no. 137/TL/2022, which are under implementation, are as follows:-

i. "Implementation of 220 kV bays for RE generators and 400/220kV ICTs at Bikaner-II PS" : Applicant was nominated vide CTUIL OM dated 16.11.2021

Sl. No.	Scope of the Transmission Scheme	Capacity	Implementation timeframe
1.	2x500MVA, 400/220 kV ICT at Bikaner-II PS	400/220 kV, 500 MVA ICT - 2 nos. 400 kV ICT bays - 2 nos. 220 kV ICT bays - 2 nos. 220 kV ICT bays - 2 nos.	Both ICT - 24.11.2023
2.	4 nos. of 220 kV line bays	220 line bays - 4 nos.	1 no. of bay - 30.12.2023 1 no. of bay - 31.03.2024 2 no. of bays - 31.12.2023



- ii. "Implementation of 1 no. of 400 kV line bay at 400/220 kV Bikaner-II PS for interconnection of 1000 MW Solar Project of SJVN Ltd." : Applicant was nominated vide CTUIL OM dated 26.04.2022

Sl. No.	Scope of the Transmission Scheme	Capacity/km	Implementation Timeframe
1.	1 no. of 400 kV line bay	400 kV line bay - 1 no.	01.10.2023

- iii. "Implementation of 2 no. of 220 kV line bays at 400/220 kV Bikaner-II PS for interconnection of solar projects (ACME Solar Holdings Pvt. Ltd., Prerak Greentech Pvt. Ltd.)" : Applicant was nominated vide CTUIL OM dated 25.08.2022

Sl. No.	Scope of the Transmission Scheme	Capacity/km	Implementation Timeframe
1.	2 nos. of 220 kV line bays	220 kV bay – 2 nos.	15 months from the issue of OM by CTUIL, i.e. 24.11.2023
2.	Implementation of 220 kV Bus Sectionalizer along with bus coupler and transfer bus coupler	220kV Bus Sectionalizer 220 kV Bus Coupler 220 kV Transfer Bus Coupler Bay - 1 no.	

4. Subsequently, the Central Transmission Utility of India Limited (CTUIL) has assigned 03 nos. transmission schemes under RTM mode to be implemented by the applicant. The details regarding the transmission schemes are as under:-

- a. **CTUIL Office Memorandum dated 28.11.2022:** Applicant has been nominated to implement additional scope of work, viz. "Implementation of 1 no. of 220 kV line bay at 400/220 kV Bikaner-II PS for interconnection of solar project (M/s NHPC Ltd.)." The detailed scope of work as provided in Annexure-I to the Office Memorandum dated 28.11.2022 is as under :-

9. *Implementation of 1 no. of 220 kV line bay at 400/220 kV Bikaner-II PS for interconnection of solar project (M/s NHPC Ltd.):*

Sl. No.	Scope of the Transmission Scheme	Capacity/km	Implementation timeframe
1	1 no. of 220 kV line bay at 400/220 kV Bikaner-II PS for interconnection of RE project (NHPC Ltd.)	220 kV line bay - 1 no. (refer note (a) )	15 months from the issue of OM by CTUIL, i.e. 27.02.2024
2	Implementation of 220 kV bus sectionalizer along with bus coupler and transfer bus	220kV bus sectionalizer bay - 1 Set	



Sl. No.	Scope of the Transmission Scheme	Capacity/km	Implementation timeframe
	coupler at 400/220kV Bikaner-II PS	220 kV bus coupler bay -1 No. 220 kV transfer bus coupler bay - 1 No. Bus works for future bays (4 nos. of line bays & 3 nos. of ICT bays)	
<b>Total Estimated Cost:</b>			<b>INR 29.21 Crore</b>

**Note:**

a) At 220 kV Bikaner-II, future line bays in Section-C are proposed to be allocated to RE developers with bays in developer's scope (no. 230-231) and ISTS scope (no. 26-227). Accordingly, 220 kV bus works may also be suitably taken up under the above scope.

Copy of CTUIL's OM dated 28.11.2022 is annexed and marked as **Annexure-5**.

- b. **CTUIL Office Memorandum dated 17.01.2023:** Applicant has been nominated to implement additional scope of work, viz. "**Implementation of 2 no. of 220 kV line bays at 400/220 kV Bikaner-II PS for interconnection of RE power park of M/s ALF Solar Amarsar Pvt. Ltd.**" The detailed scope of work as provided in Annexure-I to the Office Memorandum dated 17.01.2023 is as under :-

Northern Region

2. **Implementation of 2 no. of 220 kV line bays at 400/220 kV Bikaner-II PS for interconnection of RE power park of M/s ALF Solar Amarsar Pvt. Ltd.:**

Sl. No.	Scope of the Transmission Scheme	Capacity/km	Implementation timeframe
1.	2 no. of 220 kV line bays at 400/220 kV Bikaner-II PS for interconnection of RE power park of M/s ALF Solar Amarsar Pvt. Ltd.	220 kV line bay - 2 nos.	30.06.2024
<b>Total Estimated Cost:</b>			<b>INR 11.68 Crore</b>

Copy of CTUIL's OM dated 17.01.2023 is annexed and marked as **Annexure-6**.



- c. CTUIL Office Memorandum dated 16.02.2023: Applicant has been nominated to implement additional scope of work, viz. "Transmission system at Bikaner-II PS for evacuation of power from Rajasthan REZ Ph IV (Part-1) (Bikaner Complex) Part-E."

This work was originally allotted to POWERGRID vide CTUIL OM dated 15.11.2022 issued based on NCT letter dated 15.11.2022 (enclosed at Annexure-7). Subsequently, instant scheme was modified during the 11<sup>th</sup> NCT meeting held on 28.12.2022 and 17.01.2023 wherein instant scheme was assigned to Applicant under RTM mode as the works to be executed at Bikaner-II PS which is being implemented by applicant. As the instant scheme is more than 100 Crs, NCT has approved the instant scheme and awarded inter-alia the same to CTUIL vide letter 16.02.2023. Further, CTUIL vide office memorandum dated 16.02.2023 has nominated the Applicant to implement the scheme. The detailed scope of work which has been allotted to PBTSL as provided in Annexure-I to the office memorandum dated 16.02.2023, is as under:-

Northern Region

*Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-1) (Bikaner Complex) - Part-E:*

Sl. No.	Scope of the Transmission Scheme	Capacity/km	Implementation timeframe
1.	Augmentation with 5X500 MVA, 400/220 kV ICTs at Bikaner-II PS	400/220 kV, 500 MVA ICT - 5 nos. 400 kV ICT bays - 5 nos. 220 kV ICT bays - 5 nos.	To be taken up for evacuation requirement beyond 2000 MW at 220 kV level of Bikaner-II PS, with implementation timeframe matching with schedule of RE generation or 18 months from date of allocation, whichever is later
<b>Total Estimated Cost:</b>			<b>INR 368 Crore**</b>

\*\* This inter-alia includes the cost of 02 other transmission assets being constructed by POWERGRID at Bikaner (PG) & Kotputli (PG) sub-stations.

Copy of CTUIL's OM dated 16.02.2023 is annexed and marked as Annexure-8.

- 4A. That, we have already filed a petition for grant of separate Transmission License to POWERGRID Bikaner Transmission System Ltd. in respect of above 03 transmission schemes under RTM mode as mentioned in 4(a), (b) & (c) and Petition No. 181/TL/2023 has been assigned by Hon'ble Commission to said petition (presently under preliminary



scrutiny). However, in the meanwhile, CTUIL vide its OM dated 08.06.2023 has assigned another scope of work to the applicant at Bikaner-II PS under RTM mode, the details of which are as follows:-

*Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220 kV, 1X500 MVA ICT (3<sup>rd</sup>):*

Sl. No.	Scope of the Transmission Scheme	Capacity/km	Implementation timeframe
1.	Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220 kV, 1X500 MVA ICT (3 <sup>rd</sup> ) along with associated transformer bays*	500 MVA, 400/220 kV ICT - 1 no. 400 kV ICT bay (including associated tie bay) - 1 no. 220 kV ICT bays - 1 no.	18 months from the issue of OM by CTUIL, i.e. 07.12.2024
<b>Total Estimated Cost:</b>			<b>INR 55.82 Crore</b>

Copy of CTUIL's OM dated 08.06.2023 is annexed and marked as **Annexure-8A**.

5. That, considering the above, instant revised Application incorporating above additional scope of works is being filed for grant of separate transmission license to the Applicant for "Implementation of 1 no. of 220 kV line bay at 400/220 kV Bikaner-II PS for interconnection of solar project (M/s NHPC Ltd.)", "Implementation of 2 no. of 220 kV line bays at 400/220 kV Bikaner-II PS for interconnection of RE power park of M/s ALF Solar Amarsar Pvt. Ltd.", "Transmission system for evacuation of power from Rajasthan REZ Ph IV (Part-1) (Bikaner Complex) Part-E" and "Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220 kV, 1X500 MVA ICT (3<sup>rd</sup>)" schemes under RTM mode.
6. The application is being preferred in line with order of this Hon'ble Commission dated 21.10.2021 passed in Petition No. 604/MP/2020 (POWERGRID Kala Amb Transmission Company Ltd. Vs. UP Power Corporation Limited). Relevant extract from order dated 21.10.2021 is extracted under for ready reference of this Hon'ble Commission.

*"20. In our view, inclusion of both the TBCB based elements/ assets and the RTM based elements/ assets in the same transmission licence may lead to numerous procedural, legal, commercial issues. A few such issues are highlighted as under....."*





21. The above list of issues is only indicative and not exhaustive. Though the Commission accepts that such issues may not always arise in all the cases, the Commission is, however, of the view that it is always prudent to avoid possible future complexities if an alternative solution is available and possible.

22. As we have already observed, the provisions of the Act do not put any restriction for issuing a second licence to a person, in case it fulfils all necessary requirements specified in the Act and Transmission Licence Regulations....

*In view of the foregoing discussions, we are of the view that the Applicant may approach the Commission for grant of a separate transmission licence for the RTM based assets/ elements. Accordingly, the Applicant is granted liberty to approach the Commission for obtaining a separate transmission licence for implementation of 125 MVAR, 420 kV Bus Reactor at Kala Amb on the RTM route by way of a separate Petition in accordance with law. The filing fees deposited in the instant Petition shall be adjusted against the Petition to be filed by the Applicant in terms of the liberty granted as above."*

7. That in view of foregoing, the instant application is being filed by the Applicant 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 the Applicant for "Implementation of 1 no. of 220 kV line bay at 400/220 kV Bikaner-II PS for interconnection of solar project (M/s NHPC Ltd.)", "Implementation of 2 no. of 220 kV line bays at 400/220 kV Bikaner-II PS for interconnection of RE power park of M/s ALF Solar Amarsar Pvt. Ltd.", "Transmission system for evacuation of power from Rajasthan REZ Ph IV (Part-1) (Bikaner Complex) Part-E" and "Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220 kV, 1X500 MVA ICT (3rd)" under RTM mode.
8. It is submitted that upon grant of the Transmission license, the Applicant shall implement the aforementioned schemes under the RTM mode. The estimated cost of the Project - "Implementation of 1 no. of 220 kV line bay at 400/220 kV Bikaner-II PS for interconnection of solar project (M/s NHPC Ltd.)" as per CTUIL OM dated 27.11.2022 is Rs. 29.21 Cr. Further, the estimated cost of the Project - "Implementation of 2 no. of 220 kV line bays at 400/220 kV Bikaner-II PS for interconnection of RE power park of M/s ALF Solar Amarsar Pvt. Ltd." as per CTUIL OM dated 17.01.2023 is Rs. 11.68 Cr. And, it is submitted that the estimated cost of the project - "Transmission system for evacuation of power from Rajasthan REZ Ph IV (Part-1) (Bikaner Complex) Part-E" is Rs. 368 Cr as per NCT letter dated 15.11.2022, which inter-alia includes the cost of 02 other transmission assets being constructed by POWERGRID at Bikaner (PG) & Kotputli (PG) sub-stations. Further, the estimated cost of the Project - "Augmentation of transformation capacity at 400/220 kV



Bikaner-II PS by 400/220 kV, 1X500 MVA ICT (3rd)" as per CTUIL OM dated 08.06.2023 is Rs. 55.82 Cr.

9. On completion of the "Implementation of 1 no. of 220 kV line bay at 400/220 kV Bikaner-II PS for interconnection of solar project (M/s NHPC Ltd.)", "Implementation of 2 no. of 220 kV line bays at 400/220 kV Bikaner-II PS for interconnection of RE power park of M/s ALF Solar Amarsar Pvt. Ltd.", "Transmission system for evacuation of power from Rajasthan REZ Ph IV (Part-1) (Bikaner Complex) Part-E" and "Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220 kV, 1X500 MVA ICT (3rd)" schemes, the Applicant 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 8 (2) of the Transmission License Regulations.
10. That in accordance with the CERC (Procedure, Terms and Conditions for grant of Transmission License and other related matters) Regulations, 2009, the Applicant has fulfilled the following:-
- Revised Form-1 duly filled for grant of transmission License in accordance with the Transmission License Regulations is enclosed herewith and marked as **Annexure-9**.
  - Application has been served as per 7 (4) of Transmission License Regulations on all the DICs of Northern Region. If this Hon'ble Commission deems necessary to implead any other party, then Applicant shall implead such party as directed by this Hon'ble Commission.
  - The application has been hosted on the website and is accessible on [www.powergrid.in/subsidiaries](http://www.powergrid.in/subsidiaries) in compliance with Regulation 7 (4) of the Transmission License Regulations.
  - It is undertaken that notice of application as per Form-II shall be posted on the e-filing portal of the commission and on its website within 7 days after filing of the application inviting comments from the general public in compliance with the Order dated 22.01.2022 passed by this Hon'ble Commission in 1/SM/2022.
  - The application has also been marked to CTUIL as per Regulation 7 (6) of Transmission License Regulations.
  - Appropriate fee for grant of transmission license stands paid.
11. It is submitted that Section 14 of the Electricity Act, 2003 empowers the Appropriate Commission to grant transmission License and as such this Hon'ble Commission has jurisdiction to grant transmission license to the Applicant for "Implementation of 1 no. of 220 kV line bay at 400/220 kV Bikaner-II PS for interconnection of solar project (M/s NHPC



Ltd.)”, “Implementation of 2 no. of 220 kV line bays at 400/220 kV Bikaner-II PS for interconnection of RE power park of M/s ALF Solar Amarsar Pvt. Ltd.”, “Transmission system for evacuation of power from Rajasthan REZ Ph IV (Part-1) (Bikaner Complex) Part-E ” and “Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220 kV, 1X500 MVA ICT (3rd)” schemes under “Regulated Tariff Mechanism” (RTM) mode.

## 12. PRAYER

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

- a) Grant Transmission License to the Applicant for the transmission schemes, viz. *“Implementation of 1 no. of 220 kV line bay at 400/220 kV Bikaner-II PS for interconnection of solar project (M/s NHPC Ltd.)”, “Implementation of 2 no. of 220 kV line bays at 400/220 kV Bikaner-II PS for interconnection of RE power park of M/s ALF Solar Amarsar Pvt. Ltd.”, “Transmission system for evacuation of power from Rajasthan REZ Ph IV (Part-1) (Bikaner Complex) Part-E” and “Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220 kV, 1X500 MVA ICT (3rd)”* under RTM mode with detailed scope of works as per Para 4 and Para 4A above.
- b) Allow the Applicant liberty to approach the Hon’ble Commission with actual cost for determination of transmission charges for the aforementioned scope of works in accordance with Section 61, 62 of the Electricity Act, 2003 and as per Regulation - 8 (2) & 19 of the Transmission License Regulations.
- 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.

Authorized Signatory



**POWERGRID Bikaner Transmission System Limited**

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

Project In-charge

POWERGRID Bikaner Transmission System Ltd. (PBTSL)

Place: *Bikaner*

Date: *11-07-2023*

**CENTRAL ELECTRICITY REGULATORY COMMISSION  
NEW DELHI**

**Petition No. 99/TL/2021**

**Coram:**

**Shri P.K. Pujari, Chairperson**

**Shri I. S. Jha, Member**

**Shri Arun Goyal, Member**

**Shri P. K. Singh, Member**

**Date of Order: 15<sup>th</sup> July, 2021**

**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 Bikaner-II Bhiwadi Transco Limited.

**And**

**In the matter of**

Bikaner-II Bhiwadi Transco Limited,  
B-9, Qutab Institutional Area,  
Katwaria Sarai, New Delhi-110 01.

.....Petitioner

**Vs**

1. Tata Power Green Energy Limited,  
34, Sant Tukaram Road,  
Carnac Bunder, Masjid Bunder (E),  
Mumbai -400009.
2. Chief Executive Officer,  
PFC Consulting Limited,  
9<sup>th</sup> Floor, A-Wing, Statesman House,  
Connaught Place,  
New Delhi – 110001.
3. Chief Operating Officer, CTU Planning,  
Power Grid Corporation of India Limited.  
Saudamini, Plot No.2, Sector -29,  
Gurugram-122001.

.....Respondents

**Parties present:**

1. Ms. Suparna Srivastava, Advocate, CTU
2. Shri B. Vamsi Rama Mohan, BBTL
3. Shri V. C. Sekhar, BBTL

Order in Petition No. 99/TL/2021

Page 1 of 10



## ORDER

The Petitioner, Bikaner-II Bhiwadi Transco 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 the Central Electricity Regulatory Commission (Procedure, Terms and Conditions for grant of Transmission Licence and other related matters) Regulations, 2009 (hereinafter referred to as "the Transmission Licence Regulations") to establish "Transmission System Strengthening Scheme for Evacuation of Power from Solar Energy Zones in Rajasthan (8.1 GW) under Phase II-Part F", on Build, Own, Operate and Maintain (BOOM) basis (hereinafter referred to as "the Project") consisting of the following elements:

Sr. No.	Name of the Transmission Element	Scheduled COD
1	Establishment of 400 kV switching station at Bikaner –II PS with 420kV (2x125 MVAR) bus reactor. 400 kV line bays – 4 numbers. 125 MVAR, 420 kV bus reactor - 2 numbers. 400 kV bus reactor bay – 2 numbers. 400 kV, 80MVAR line reactor on each circuit at Bikaner –II end of Bikaner –II – Khetri 400 kV 2xD/c Line – 4 numbers. Switching equipment for 400 kV switchable line reactor – 4 numbers.  Future provisions: Space for 400/220 kV ICTs along with bays – 10 numbers. 400 kV line bays – 6 numbers. 220 kV line bays – 16 numbers. 420 kV reactors along with bays – 2 numbers. Suitable bus sectionaliser arrangement at 400 kV and 220 kV	<b>18 Months from the effective date or June 2022, whichever is later</b>
2	Bikaner-II PS – Khetri 400 kV 2xD/c line (Twin HTLS* on M/c Tower)	
3	1x80 MVAR Fixed Line reactor on each circuit at Khetri end of end of Bikaner –II – Khetri 400 kV 2xD/c Line - 4 numbers.	
4	4 number of 400 kV line bays at Khetri for Bikaner – II PS – Khetri 400kV 2xD/c line	



5	Khetri- Bhiwadi 400 kV D/c line (Twin HTLS)*	
6	2 number of 400 kV line bays at Khetri for Khetri - Bhiwadi 400kV D/c line	
7	2 number of 400 kV(GIS) line bays at Bhiwadi for Khetri- Bhiwadi 400 kV D/c line	
8	STATCOM at Bikaner-II S/s ± 300 MVAR, 2x125 MVAR MSC, 1x125 MVAR MSR	

\*With minimum capacity of 2100 MVA on each circuit at nominal voltage.

**Note:**

- i. POWERGRID to provide space for 2 number of 400 kV bays at Bhiwadi substation.
  - ii. Developer of Khetri Substation to provide space for 4 number of 400 kV line bays without any charges & to provide space for 2 number of 400 kV line bays and 4 number of fixed line reactors (for Bikaner-II – Khetri 400 kV 2xD/c line at Khetri end) on chargeable basis.
2. Based on the competitive bidding carried out by PFC Consulting Limited (PFCCL) in its capacity as the Bid Process Coordinator (BPC) in accordance with the Guidelines issued by Ministry of Power, Government of India under Section 63 of the Act, Power Grid Corporation of India Limited (PGCIL) emerged as the successful bidder with the lowest levelized transmission charges of Rs. 1404.86 million per annum. The Petitioner is a SPV formed by PGCIL for the purpose of execution of the Project.
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 5.6.2021, *prima facie* proposed to grant transmission licence to the Petitioner. Relevant extract of order dated 5.6.2021 is extracted as under:

"17. We have considered the submissions of the Petitioner, BPC and CTU. 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 Lol was issued on 16.2.2021, BPC, vide its letter dated 25.3.2021, in terms of Clauses 2.4, 2.5 and 2.6 of RfP extended the date up to 5.4.2021 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. 891 million (Rs. 89.1 crore) on 26.3.2021 and has acquired hundred percent equity holding in the applicant company on 25.3.2021 after execution of the Share Purchase



*Agreement. The TSP on behalf of the selected bidder filed the application for grant of transmission licence through e-portal on 5.4.2021. 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 paragraph 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 20.6.2021."*

4. A public notice under Sub-section (5) of Section 15 of the Act was published on 12.6.2021 in all editions of the Hindustan Times (English) and Hindustan (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 5.6.2021, 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 submission dated 6.7.2021 has submitted that the transmission project is being governed by the pre-signed TSA dated 16.10.2020 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 any time over-run or cost over-run shall be claimed by the Petitioner in accordance with the applicable provisions of the TSA



read with the provisions of the Act, bidding documents and the Regulations of the Commission.

7. In the order dated 5.6.2021, 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.

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

9. The Petitioner, vide its submission dated 6.7.2021, 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 pointed out





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.

10. Case was called out for virtual hearing on 13.7.2021 through video conferencing. It was submitted by the representative of the Petitioner that as per order dated 5.6.2021, the Petitioner has submitted the information called for. Learned counsel for CTU submitted that CTU vide its letter dated 3.5.2021 has recommended for grant of transmission licence to the Petitioner which has been taken on record by the Commission vide its order dated 5.6.2021.

11. We have considered the submissions of the Petitioner and CTU. In the TSA, there is provision for the lead LTTC to designate up to 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 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 should promptly bring the same to the notice of the Commission so that appropriate direction can be issued to the licensee for compliance.



12. 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.

13. As regards 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.”*

14. In our order dated 5.6.2021, 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 3.5.2021 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 paragraph 1 of this order. Accordingly, we direct that transmission licence be granted to the Petitioner, Bikaner-II Bhiwadi Transco



Limited, to establish "Transmission System Strengthening Scheme for Evacuation of Power from Solar Energy Zones in Rajasthan (8.1 GW) under Phase II-Part F", on Build, Own, Operate and Maintain basis as per the details given in paragraph 1 above.

15. 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 from the date of issue;
- (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; the Central Electricity Regulatory Commission (Open Access in inter-State Transmission) Regulations, 2008; the Central Electricity Regulatory Commission (Grant of Connectivity, Long-term Access and Medium-term Open Access in inter-State Transmission and related matters) Regulations, 2009; the Central Electricity Regulatory Commission (Indian Electricity Grid Code) Regulations, 2010, as amended from time to time or any subsequent re-enactments 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 provisions of the Central Electricity Regulatory Commission (Sharing of inter-State Transmission Charges and Losses) Regulations, 2020 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.

16. 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 the Transmission Licence Regulations.

17. Let an extract copy of this order be sent to CEA for information and necessary action.

18. Petition No. 99/TL/2021 is allowed in terms of the above.

Sd/-  
(P.K. Singh)  
Member

sd/-  
(Arun Goyal)  
Member

sd/-  
(I.S. Jha)  
Member

sd-  
(P.K. Pujari)  
Chairperson



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): U40300DL2020GOI363669

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

Company was originally incorporated with the name BIKANER-II BHIWADI TRANSCO LIMITED.

Given under my hand at New Delhi this Sixteenth day of July two thousand twenty-one.

DS DS MINISTRY  
OF CORPORATE  
AFFAIRS (GOVT  
OF INDIA)

KAMNA SHARMA  
DROC  
Registrar of Companies  
RoC - Delhi

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

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



No.15/3/2018-Trans-Pt(5)  
Government of India  
Ministry of Power  
Shram Shakti Bhawan, Rafi Marg, New Delhi

Dated, the 28<sup>th</sup> October 2021

**OFFICE ORDER**

**Subject: - Re-constitution of the "National Committee on Transmission" (NCT) - reg.**

In super-session of this Ministry's Office Order No. 15/3/2017-Trans dated 04.11.2019, regarding constitution of the National Committee on Transmission (NCT) and subsequent amendment issued vide this Ministry's Office Order No. 15/3/2018-Trans Pt(5) dated 20.05.2021, the undersigned is directed to state that the composition and terms of reference of the existing NCT are amended as mentioned below:

1. Composition of NCT

1	Chairperson, Central Electricity Authority (CEA)	Chairman
2	Member(Power System), CEA	Member
3	Member(Economic & Commercial), CEA	Member
4	Joint Secretary level officer nominated by Secretary, MNRE	Member
5	Director(Trans), M/o Power, Govt. of India	Member
6	Chief Operating Officer, Central Transmission Utility	Member
7	CMD POSOCO	Member
8	Advisor(Energy) , NITI Aayog	Member
9	Two experts from Power Sector to be nominated by MoP*	Members
10	Chief Engineer (from Power System Wing), CEA	Member Secretary

\* Will be nominated for a maximum period of two years from the date of their nomination.

2. Terms of Reference (ToR) of the NCT are as under:

- i. The NCT shall evaluate the functioning of the National Grid on a quarterly basis.
- ii. The Central Transmission Utility (CTU), as mandated under the Electricity Act, 2003, is to carry out periodic assessment of transmission requirement under Inter-State Transmission System (ISTS). The CTU shall also make a comprehensive presentation before the NCT every quarter for ensuring development of an efficient, co-ordinated and economical ISTS for smooth flow of electricity. The CTU, in the process, may also take inputs from the markets to identify constraints and congestion in the transmission system.



*Geetika*  
28/10/2021

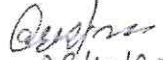
- iii. The CTU after consulting Regional Power Committee(s) [RPC(s)] shall submit the proposal for expansion of ISTS to the NCT for their consideration. For proposal upto Rs. 500 crores, prior consultation with RPC would not be required.
  - iv. As per provision of Electricity (Planning, Development and Recovery of ISTS charges) Rules 2021, the CTU shall also prepare a five-year rolling plan for ISTS capacity addition every year. The Annual Plan shall be put up to the NCT six months in advance, e.g. The Annual Plan for FY 2023-24 will be put up before the NCT by 30<sup>th</sup> September 2022..
  - v. After considering the recommendations of the CTU and views of the RPCs, the NCT shall propose expansion of ISTS after assessing the trend of growth in demand and generation in various regions, constraints, if any, in the inter- State, inter- Region transfer of power, which are likely to arise in the near term/ medium term, so that transmission does not constrain the growth.
  - vi. The NCT shall formulate the packages for the proposed transmission schemes for their implementation.
  - vii. The NCT shall estimate the cost of transmission packages and may constitute a cost committee for this purpose.
  - viii. The NCT shall recommend to Ministry of Power (MoP) for implementation of the ISTS for projects with cost more than Rs 500 crore, along with their mode of implementation i.e. Tariff Based Competitive Bidding (TBCB) / Regulated Tariff Mechanism (RTM), as per the existing Tariff Policy. However, the NCT shall approve the ISTS costing between Rs 100 crore to Rs.500 crore or such limit as prescribed by MoP from time to time, along with their mode of implementation under intimation to MoP. The ISTS costing less than or equal to Rs. 100 crores, or such limit as prescribed by MoP from time to time, will be approved by the CTU along with their mode of implementation under intimation to the NCT and MoP. After approval of the ISTS by the NCT or the CTU (as the case may be), the TBCB project shall be allocated to Bid Process Coordinators through Gazette Notification, while the RTM project shall be allocated to CTU.
  - ix. The NCT shall allocate the task of carrying out survey amongst the CTU and Bid Process Coordinators by maintaining a roster.
3. The NCT meetings shall be held every quarter, and on monthly basis, if required.
  4. While making their recommendations,
    - i. the NCT shall keep in mind the relevant Act, Rules, Regulation, policies and guidelines such as but not limited to - Electricity Act 2003, National Electricity Policy, Tariff Policy, Electricity (Transmission System Planning, Development and Recovery of Inter-State Transmission Charges) Rules, 2021, Guidelines for Encouraging Competition in Development of Transmission Projects, Tariff based Competitive Bidding Guidelines for Transmission Service and any specific advice received from MoP.
    - ii. For enabling growth of Renewable Energy (RE) capacity, areas which have high solar/wind energy potential, as identified by Ministry of New and Renewable Energy





(MNRE), need to be connected to ISTS, so that the RE capacity can come up there. This is a national mission as a part of our energy transition goal.

5. This issues with the approval of the Hon'ble Minister of Power and New & Renewable Energy.

  
28/10/2021  
(Bihari Lal)


Under Secretary to the Govt. of India  
Telefax: 23325242  
Email: transdesk-mop@nic.in

To

1. All Members of NCT.
2. Secretary, Ministry of New & Renewable Energy, Govt. of India.
3. Chairperson, CEA, New Delhi.
4. Secretary, CERC
5. CMDs of all CPSUs under the Ministry of Power, Govt. of India.
6. Heads of all autonomous bodies under the Ministry of Power, Govt. of India.
7. Finance/ Budget Section, Ministry of Power.
8. Power/ Energy Secretaries of all States/UTs.
9. Chief Executives of all State Power Transmission Utilities.
10. CEO, NITI Aayog, New Delhi.

Copy to:

- i. PS to Hon'ble MoP/ PS to Hon'ble MoSP/Sr PPS/ PPS/ PS to Secretary(Power)/ AS&FA/ AS(SKGR)/ AS(VKD)/ all Joint Secretaries/ Economic Advisor/ Chief Engineer(Th)/ all Directors/ Dy. Secretaries, Ministry of Power.
- ii. Technical Director, NIC, M/o Power, for publishing this order on the website of M/o Power.

  
28/10/2021



**CENTRAL ELECTRICITY REGULATORY COMMISSION  
NEW DELHI**

**Petition No. 137/TL/2022**

**Coram:**

**Shri I.S. Jha, Member**

**Shri Arun Goyal, Member**

**Shri P. K. Singh, Member**

**Date of order: 21<sup>st</sup> November, 2022**

**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 Bikaner Transmission System Ltd. ( Formerly known as Bikaner-II Bhiwadi Transmission System) for "Implementation of 220 kV bays for RE generators and 400/220kV ICTs at Bikaner-II PS" through "Regulated Tariff Mechanism" (RTM) mode.

**And**

**In the matter of**

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

**...Petitioner**

1. U.P. Power Corporation Limited (UPPCL)  
Import Export Payment Circle,  
14th Floor, Shakti Bhawan Extn. Building,  
14 - Ashok Marg, Lucknow.
2. Haryana Power Purchase Centre,  
Shakti Bhawan,  
Energy Exchange Room No. 446,  
Top Floor, Sector - 6, Panchkula - 134 109
3. Punjab State Power Corporation Limited,  
Shed No. T-1 A, Thermal Design,  
Near 22 No. Phatak, Patiala.
4. Jaipur Vidyut Vitran Nigam Limited,  
Vidyut Bhawan, Janpath,  
Jaipur - 302 005.



5. Ajmer Vidyut Vitran Nigam Limited,  
Vidyut Bhawan, Panchsheel Nagar,  
Makarwali Road, Ajmer- 305004.
6. Jodhpur Vidyut Vitran Nigam Limited,  
New Power House, Industrial Area,  
Jodhpur – 342003.
7. Principal Secretary (Power),  
Power Development Deptt., Govt. of J&K  
Govt. of Jammu & Kashmir  
SLDC Building, 1st Floor,  
Gladani Power House, Narwal, Jammu.
8. Chief Electrical Distribution Engineer,  
North Central Railway Subedar Ganj, Allahabad.
9. BSES Yamuna Power Limited  
2nd Floor, B Block, Shakti Kiran Building,  
Karkardooma, New Delhi – 110092.
10. BSES Rajdhani Power Limited  
BSES Bhawan, 2<sup>nd</sup> Floor,  
B Block, Nehru Place, New Delhi - 110 019.
11. CEO & ED, Tata Power Delhi Distribution Limited  
NDPL House, Hudson Lines,  
Kingsway Camp, Delhi - 110 009
12. Director (Commercial),  
New Delhi Municipal Corporation NDMC  
Palika Kendra, Sansad Marg,  
New Delhi – 110 001.
13. Superintending Engineer  
Electricity Wing of Engineering Dept.,  
Union Territory of Chandigarh,  
Electricity OP Circle, UT – Chandigarh.
14. Executive Director (Commercial),  
Uttarakhand Power Corporation Limited, UPCL,  
Urja Bhawan, Kanwali Road, Balliwala Chowk,  
Dehradun-248001
15. Tata Power Green Energy Limited,  
34, Sant Tukaram Road, Carnac Bunder,

Masjid Bunder (E), Mumbai -400009

16. Chief Engineer, Power System Project Monitoring Division,  
Central Electricity Authority,  
Sewa Bhawan, R. K. Puram,  
Sector-1, New Delhi - 110 066

17. Chief Operating Officer,  
Central Transmission Utility,  
Saudamini, Plot no.2, Sector -29,  
Gurgaon 122001

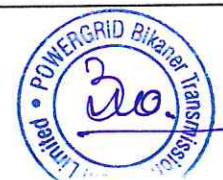
..Respondents

**The following were present:**

Shri Shubham Arya, Advocate, PBTSL  
Ms. Reeha Singh, Advocate, PBTSL  
Shri Kashish Bhambhani, CTUIL  
Shri Yatin Sharma, CTUIL  
Ms. Ankita Singh, CTUIL  
Shri Swapnil Verma, CTUIL  
Shri Siddharth Sharma, CTUIL  
Ms. Muskan Aggarwal, CTUIL  
Shri Ranjeet Singh Rajput, CTUIL

**ORDER**

The Petitioner, POWERGRID Bikaner Transmission System Limited (PBTSL) has filed the present Petition under Section 14 and Section 15 of the Electricity Act, 2003 (hereinafter referred to as 'the Act') read with 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 grant of separate transmission licence for (i) Implementation of 220 kV bays for RE generators and 400/220kV ICTs at Bikaner-II PS scheme, (ii) Implementation of 1 no. of 400 kV line bay at 400/220 kV Bikaner-II PS for interconnection of 1000 MW Solar Project of SJVN Ltd. and (iii) Implementation of 2 nos. of 220 kV line



bays at 400/220kV Bikaner-II PS for interconnection of 1000 MW solar projects (ACME Solar Holdings Pvt. Ltd, Prerak Greentech Pvt. Ltd.) through RTM mode. The scope of the project for which transmission licence has been sought is as under:

(a) Central Transmission Utility of India Limited (CTUIL) Office Memorandum dated 16.11.2021: **"Implementation of 220 kV bays for RE generators and 400/220kV ICTs at Bikaner-II PS"**

S. No.	Scope of the Transmission Scheme	Capacity	Implementation timeframe
1	2x500MVA, 400/220 kV ICT at Bikaner-II PS	400/220 kV, 500 MVA ICT -2 nos. 400 kV ICT bays - 2 nos. 220 kV ICT bays - 2 nos.	ICT-I: Mar' 2023 ICT-II: Apr' 2023
2	4 nos. 220 kV line bays	220 line bays - 4 nos.	1 no. of bay: March 2023 1 no. of bay: April 2023 2 no. of bays: December 2023

(b) CTUIL Office Memorandum dated on 26.4.2022: **Implementation of 1 no. of 400 kV line bay at 400/220 kV Bikaner-II PS for interconnection of 1000 MW Solar Project of SJVN Ltd.**

S. No.	Scope of the Transmission Scheme	Capacity/km	Implementation timeframe
1	1 no. of 400 kV line bay at 400/220kV Bikaner-II S/s for interconnection of 1000 MW Solar Project of SJVN Ltd.	• 400 kV line bay- 1 No.	1.10.2023

(c) CTUIL OM dated 25.8.2022: **Implementation of 2 no. of 220 kV line bays at 400/220 kV Bikaner-II PS for interconnection of solar projects (ACME Solar Holdings Pvt. Ltd., Prerak Greentech Pvt. Ltd.).**

S. No.	Scope of the Transmission Scheme	Capacity/km	Implementation timeframe
1.	2 nos. of 220 kV line bays at 400/220 kV Bikaner-II PS for interconnection of RE projects (ACME Solar Holdings Pvt Ltd., Prerak Greentech Pvt. Ltd.)	220 kV line bay – 2 Nos. (refer to note a)	15 months from the issue of OM by CTUIL
2.	Implementation of 220 kV Bus sectionalizer along with bus coupler and transfer bus coupler at 400/220 kV Bikaner-II PS.	<ul style="list-style-type: none"> <li>• 220kV Bus Sectionalizer Bay-1 Set</li> <li>• 220 kV Bus Coupler Bay -1 No.</li> <li>• 220 kV Transfer Bus Coupler Bay-1 No.</li> <li>• Bus extension works for future Bays (3 Nos. of Line Bays &amp; 3 Nos. of ICT Bays) – 1 Set</li> </ul>	

Note:

a) At 220 kV Bikaner-II, future line bays (no.214/216/218) in Section-B are allocated to RE developers with bays in the RE developer's Scope.

2. PBSTL was incorporated as a special purpose vehicle by PFC Consulting Limited (PFCCL) as part of Tariff Based Competitive Bidding ('TBCB') process for implementing "Transmission System Strengthening Scheme for Evacuation of Power from Solar Energy Zones in Rajasthan (8.1 GW) under Phase II-Part F" on Build, Own, Operate and Maintain (BOOM) basis. Power Grid Corporation of India (PGCIL) Limited participated in the competitive bidding process conducted by PFCCL and upon emerging as the successful bidder, Letter of Intent (LOI) was issued by PFCCL to PGCIL on 16.2.2021. In accordance with the bidding documents, PGCIL acquired 100% of the shareholding in PBSTL by executing a Share Purchase Agreement with PFCCL on 25.3.2021. PBSTL entered into Transmission Service Agreement (TSA) with LTTCs on 16.10.2020. The Commission in its order dated 15.7.2021 in Petition No. 99/TL/2021 granted transmission licence to PBSTL for inter-State transmission of electricity to establish 'Transmission System Strengthening Scheme for Evacuation of Power from Solar Energy Zones in Rajasthan



(8.1 GW) under Phase II-Part F” on Build, Own, Operate and Maintain (“BOOM”) basis consisting of the following elements:

Sr. No.	Name of the Transmission Element	Scheduled COD
1	<p>Establishment of 400 kV switching station at Bikaner –II PS with 420kV (2x125 MVAR) bus reactor.</p> <p>400 kV line bays – 4 numbers.</p> <p>125 MVAR, 420 kV bus reactor - 2 numbers.</p> <p>400 kV bus reactor bay – 2 numbers.</p> <p>400 kV, 80MVAR line reactor on each circuit at Bikaner –II end of Bikaner -II – Khetri 400 kV 2xD/c Line – 4 numbers.</p> <p>Switching equipment for 400 kV switchable line reactor – 4 numbers.</p> <p>Future provisions:</p> <p>Space for 400/220 kV ICTs along with bays – 10 numbers.</p> <p>400 kV line bays – 6 numbers.</p> <p>220 kV line bays – 16 numbers.</p> <p>420 kV reactors along with bays – 2 numbers.</p> <p>Suitable bus sectionaliser arrangement at 400 kV and 220 kV</p>	<p><b>18 Months from the effective date or June 2022, whichever is later</b></p>
2	Bikaner-II PS – Khetri 400 kV 2xD/c line (Twin HTLS* on M/c Tower)	
3	1x80 MVAR Fixed Line reactor on each circuit at Khetri end of end of Bikaner -II – Khetri 400 kV 2xD/c Line - 4 numbers.	
4	4 number of 400 kV line bays at Khetri for Bikaner –II PS – Khetri 400kV 2xD/c line	
5	Khetri- Bhiwadi 400 kV D/c line (Twin HTLS)*	
6	2 number of 400 kV line bays at Khetri for Khetri - Bhiwadi 400kV D/c line	
7	2 number of 400 kV (GIS) line bays at Bhiwadi for Khetri- Bhiwadi 400 kV D/c line	
8	STATCOM at Bikaner-II S/s ± 300 MVAR, 2x125 MVAR MSC, 1x125 MVAR MSR	

\*With minimum capacity of 2100 MVA on each circuit at nominal voltage.

**Note:**

- i. POWERGRID to provide space for 2 number of 400 kV bays at Bhiwadi substation.
- ii. Developer of Khetri Substation to provide space for 4 number of 400 kV line bays without



any charges & to provide space for 2 number of 400 kV line bays and 4 number of fixed line reactors (for Bikaner-II – Khetri 400 kV 2xD/c line at Khetri end) on chargeable basis.

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 7.10.2022, prima facie proposed to grant transmission licence to the Petitioner described in paragraph 1 of the order dated 7.10.2022. Relevant extract of order dated 7.10.22 is extracted as under:

*“20. In the present case, the Petitioner does not fulfil any of the eligibility condition for grant of transmission licence. However, in the 6<sup>th</sup> meeting of National Committee on Transmission, it was indicated that as per the revised Terms of Reference issued by Ministry of Power, Government of India, ISTS projects costing upto Rs. 100 crore or such limit as may be prescribed by Ministry of Power from time to time would be approved by CTUIL including its mode of implementation. The scheme has been identified for implementation though RTM mode by CTUIL. Non-grant of transmission licence to any agency nominated by NCT to implement a transmission system through 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 relaxation of the provisions of Regulation 6 by invoking of the power vested under Regulation 24 of the Transmission Licence Regulations.*

21. *Regulation 24 of the Transmission Licence Regulations dealing with 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”*

22. *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 which is already implementing the project defined under its scope through TBCB mechanism. The present Petition is consequent to the office order 28.10.2021 notified by Ministry of Power Government of India wherein CTUIL has been authorized to determine the mode of implementation of ISTS projects less than or equal to Rs.100 crore. Pursuant to direction of Ministry of Power, CTUIL, vide its separate three Office Memorandums dated 16.11.2021, 26.4.2022 and 25.8.2022 has determined a list of transmission schemes/Projects to be implemented or through Regulated Tariff*





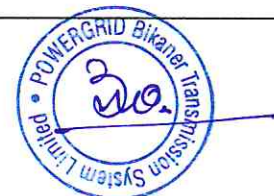
*Mechanism which also includes the instant Petition for the subject transmission system.*

23. *It is noticed that as per the Ministry of Power, Government of India letter dated 28.10.2021, ISTS costing less than or equal to Rs. 100 crore is required to be approved by CTUIL along with mode of implementation. However, in the present case, CTUIL vide its OMs dated 16.11.2021, 26.4.2022 and 25.8.2022 has approved the three schemes, which cumulatively cost more than Rs. 100 crore. During the course of hearing on 29.9.2022, the representative of CTUIL submitted that the Petitioner has been nominated as the implementing agency for the three elements on three separate instances (vide separate above three OMs) and the individual cost of all the three elements individually is less than Rs. 100 crore and as per the MoP's OM dated 28.10.2021, ISTS costing less than or equal to Rs. 100 crore is required to be approved by CTUIL along with its mode of implementation. The Commission is of the view that since combined cost of the three elements is exceeding Rs. 100 crore, the proposal may also be got ratified from the NCT.*

24. *With regard to likely date of generation for which the subject transmission system/elements are being implemented, the representative of CTUIL submitted that the generation is likely to start from the month of October, 2023 and as per the original schedule, these elements/systems are also likely to achieve COD from March, 2023. CTUIL is directed to properly coordinate and ensure that the timeline for commissioning of these elements/systems is in line with the commissioning of the generating station(s) for which the respective elements/systems are implemented so that there is no mismatch between their commissioning. CTUIL is further directed to consider revising the commissioning schedule of transmission elements/systems, if so required.*

25. *Since the Petitioner is already an inter-State transmission licensee and has been identified as an agency to implement the above noted three projects/schemes vide separate three OMs as per RTM, the Commission in 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 grant of transmission licence. We, hereby, 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 25.10.2022."*

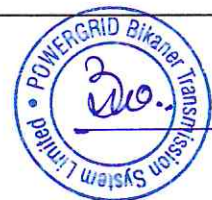
4. A public notice under Sub-section (5) of Section 15 of the Act was published on 13.10.2022 in all editions of the Hindustan Times (English) and Hindustan (Hindi). No suggestions/ objections have been received from the members of the public in response to the public notice.



5. The Commission, vide its order dated 7.10.2022, had observed that since combined cost of the three elements is exceeding Rs. 100 crore, the proposal may also be got ratified from the NCT. The Commission further directed CTUIL to properly coordinate and ensure that the timeline for commissioning of these elements/systems is in line with the commissioning of the generating station(s) for which the respective elements/systems are implemented so that there is no mismatch between their commissioning. CTUIL was further directed to consider revising the commissioning schedule of transmission elements/systems, if so required.

6. Case was called out for hearing on 15.11.2022. The learned counsel for the Petitioner submitted that no objection has been received in response to the public notice published by the Commission under sub-section (5) of Section 15 of the Act. Accordingly, requested to grant transmission licence to the Petitioner company.

7. The representative of CTUIL during the course of hearing submitted that as per the Commission`s direction dated 7.10.2022, CTUIL has obtained the revised schedules from various generation projects and intimated the same to the Petitioner for coordination of their commissioning schedules. The representative of CTUIL further submitted that as per information received, the requirement of the 400/220 kV ICTs under subject transmission scheme is from November, 2023 instead of March, 2023 and accordingly, CTUIL has revised the time line for implementation of 220 kV bays for RE generators and 400/220 kV ICTs at Bikaner-II PS and same has been communicated to the Petitioner vide letter dated 21.10.2022. He submitted that CTUIL shall monitor the progress of generation projects and the transmission system in the JCC meetings. The



representative of CTUIL submitted that it shall file the information regarding compliance of the order dated 7.10.2022 on affidavit.

8. Learned counsel for the Petitioner submitted that CTUIL vide its letter dated 20.10.2022 has revised the implementation schedule for 220 kV bays for RE generators and 400/220 kV ICTs at Bikaner-II PS and has advised the Petitioner to sign the Implementation Agreement with concerned RE generators. Accordingly, the Petitioner will comply with the time line given by CTUIL.

9. CTUIL vide Record of Proceedings for the hearing dated 15.11.2022 was to file the information regarding compliance of the order dated 7.10.2022. CTUIL vide its affidavit dated 17.11.2022 has submitted that CTUIL has communicated to the Petitioner that RE developers, who have been granted Stage-II connectivity at Bikaner-II PS, have updated the commissioning schedule of their generation project as recorded in 23<sup>rd</sup> JCC meeting of NR held on 22.9.2022. Further, PBTSL was informed about the bay requirement by Juna Renewables Energy Pvt. Limited at Bikaner-II PS by 30.12.2023. CTUIL has communicated the following revised time schedule for implementation of the Project as under:

<b>Commissioning Schedule of the RE generators granted Stage-II Connectivity at Bikaner-II PS</b>					
<b>Sr. No.</b>	<b>Stage-II Grantee/Elements</b>	<b>Quantum (MW)/ Capacity</b>	<b>Bays Allocated</b>	<b>Schedule</b>	
1.	Juna Renewable Energy Pvt. Ltd.	335	1 no. of 220 kV line bay	March'23	30 <sup>th</sup> December 2023
2.	ReNew Dinkar Urja Pvt. Ltd.	200	1 no. of 220 kV line bay	April'23	31 <sup>st</sup> March 2024
3.	Khidrat Renewable Energy Private Limited	300	1 no. of 220 kV line bay	December'23	No Change



4.	TP Saurya Limited	300	1 no. of 220 kV line bay	December'23	No Change
5.	SJVN Ltd.	1000	1 no. of 400 kV line bay	1.10.2023	No Change
6.	ACME Solar Holdings Pvt. Ltd.	300	1 no. of 220 kV line bay	24.11.2023	No Change
7.	Prerak Greentech Pvt. Ltd.	340	1 no. of 220 kV line bay	24.11.2023	No Change
8.	400/220 kV ICTs	2X500 MVA	NA	ICT-I: March'23  ICT-II: April'23	ICT-I & II: 24.11.2023
9.	220 kV bus extension works along with sectionalizer, bus coupler and transfer bus coupler bay	NA	NA	24.11.2023	No Change

10. As regards 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.”*

11. In our order dated 7.10.2022, 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. CTUIL in its letter dated 20.9.2022 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 paragraph 1 of this order. Accordingly, we direct that transmission licence be granted to the Petitioner, POWERGRID Bikaner Transmission System Limited to establish the transmission scheme through RTM route as per the details given in paragraph 1 above.

12. 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 from the date of issue;

(b) The transmission licensee shall comply with the provisions of the Transmission Licence Regulations or any subsequent enactment thereof during the period of subsistence of the licence;

(c) 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;

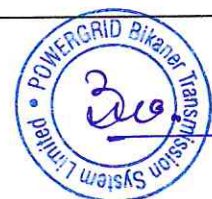


(e) The licensee shall have the liability to pay the license fee in accordance with the provisions of the Central Electricity Regulatory Commission (Payment of Fees) Regulations, 2012, as amended from time to time or any subsequent enactment thereof. Delay in payment or non-payment of licence fee or 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; the Central Electricity Regulatory Commission (Open Access in inter-State Transmission) Regulations, 2008; the Central Electricity Regulatory Commission (Grant of Connectivity, Long-term Access and Medium-term Open Access in inter-State Transmission and related matters) Regulations, 2009; the Central Electricity Regulatory Commission (Indian



Electricity Grid Code) Regulations, 2010, as amended from time to time or any subsequent re-enactments 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 provisions of the Central Electricity Regulatory Commission (Sharing of inter-State Transmission Charges and Losses) Regulations, 2020 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 as per the Technical Standards and Grid Standards of CEA;

(m) The licensee shall coordinate with the licensees (including deemed licensees) executing the upstream or downstream transmission projects, the Central Electricity Authority and CTUIL for ensuring smooth execution and commissioning of the Project; and



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

13. Central Electricity Authority/ CTUIL 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 the Transmission Licence Regulations.

14. Let an extract copy of this order be sent to the Central Government in Ministry of Power and Central Electricity Authority in terms of sub-section (7) of Section 15 of the Electricity Act, 2003 for their information and record.

15. Petition No. 137/TL/2022 is allowed in terms of the above.

**Sd/-**  
**(P. K. Singh)**  
**Member**

**sd/-**  
**(Arun Goyal)**  
**Member**

**sd/-**  
**(I.S. Jha)**  
**Member**



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

**CENTRAL TRANSMISSION UTILITY OF INDIA LTD.**

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

Ref.: C/CTU/AI/00/9<sup>th</sup> CCTP

28<sup>th</sup> November 2022

**OFFICE MEMORANDUM**

**Sub: Inter-State Transmission Schemes (costing up to Rs.100 Cr.) to be taken up for implementation under Regulated Tariff Mechanism (RTM).**

The undersigned is directed to inform that CTU has approved the implementation of the following ISTS costing less than or equal to Rs.100 Cr. in line with the MoP office order dated 28.10.2021 under the Regulated Tariff Mechanism (RTM) mode by the implementing agencies as indicated in the table below:

Sl.	Name of scheme	Implementing Agency
<b>Western Region</b>		
1.	Implementation of 1 no. 220kV line bay at Bhuj PS for providing Connectivity to M/s NTPC Renewable Energy Ltd. (300MW)	Power Grid Corporation of India Ltd.
2.	Transmission System for providing connectivity to M/s VEH Jayin Renewables Pvt. Ltd. at Rajgarh (PG) S/s	Power Grid Corporation of India Ltd.
3.	Western Region Expansion Scheme XXXI (WRES-XXXI): Part C	Power Grid Corporation of India Ltd.
4.	Western Region Expansion Scheme XXXIII (WRES-XXXIII): Part D	Power Grid Corporation of India Ltd.
<b>Northern Region</b>		
5.	Implementation of 2 nos. of 220 kV line bays at 400/220 kV Panchkula (Barwala) (PG) S/s for interconnection with 220 kV Dera Bassi S/s.	Power Grid Corporation of India Ltd.
6.	Replacement of 1x315 MVA 400/220kV ICT (ICT-1) at 400/220 kV Ludhiana (PG) S/s with 1x500 MVA 400/220kV ICT	Power Grid Corporation of India Ltd.
7.	Replacement of 1x250 MVA, 400/220 kV ICT at 765/400/220 kV Moga (PG) S/s with 1x500 MVA 400/220kV ICT along with associated works at 220kV level.	Power Grid Corporation of India Ltd.
8.	Augmentation of Transformation Capacity by 1x500 MVA, 400/220kV ICT (3rd) at 400/220 kV Patran (GIS) S/s	Patran Transmission Company Ltd. (PTCL) (a subsidiary of India Grid Trust)
9.	Implementation of 1 no. of 220 kV line bay at 400/220kV Bikaner-II PS for interconnection of solar project (M/s NHPC Ltd.):	POWERGRID Bikaner Transmission System Ltd. (a subsidiary of Power Grid Corporation of India Ltd. [erstwhile known as Bikaner-II Bhiwadi Transco Ltd.]

"सौदामिनी" प्रथम तल, प्लॉट नं. 2, सेक्टर-29, गुरुग्राम -122001 (हरियाणा), दूरभाष: 0124-2822547, सीआईएन: U40100HR2020GOI091857

"Saudamini", 1st Floor, Plot No. 2, Sector-29, Gurugram-122001, (Haryana) Tel: 0124-2822547, CIN: U40100HR2020GOI091857

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




Eastern Region		
10.	Eastern Region Expansion Scheme-XXX (ERES-XXX)	Power Grid Corporation of India Ltd.
11.	Eastern Region Expansion Scheme-XXXIII (ERES-XXXIII)	Power Grid Corporation of India Ltd.
North Eastern Region		
12.	North Eastern Region Expansion Scheme-XVIII (NERES-XVIII)	Power Grid Corporation of India Ltd.
13.	North Eastern Region Expansion Scheme-XX (NERES-XX)	Power Grid Corporation of India Ltd.
Southern Region		
14.	Implementation of 1 no. 400kV line bay at Kumood New S/s for providing Connectivity to M/s Greenko AP01 IREP Pvt. Ltd. (2 <sup>nd</sup> 400kV line bay for M/s Greenko)	Power Grid Corporation of India Ltd.

The detailed scope of works for the above transmission schemes, as approved by CTU is given at Annexure-I.

Implementing agencies shall enter into a concession agreement with CTU for the implementation of the above-mentioned schemes through the Regulated Tariff Mechanism (RTM).

This issues with the approval of Competent Authority.

  
 28/10/22  
 (Jasbir Singh)  
 Chief General Manager

Encl: as stated.

To:

<p>1. The Chairman &amp; Managing Director Power Grid Corporation of India Ltd., Saudamini, Plot No. 2, Sector-29, Gurgaon- 122 001</p>	<p>2. Shri Lokendra Singh Ranawat Head (Regulatory) Patran Transmission Company Ltd., (PTCL) (a subsidiary of India Grid Trust) Unit No. 101, First Floor, Windsor, Village Kolekalyan, off CST Road, Vidyanagari Marg, Kalina, Santacruz (East), Mumbai - 400 098</p>
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Copy to:

<p>1. Shri Ishan Sharan Chief Engineer &amp; Member Secretary (NCT) Central Electricity Authority Sewa Bhawan, R. K. Puram, New Delhi-110 066.</p>	<p>2. Shri Goutam Ghosh Director (Trans) Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi 110 001</p>
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Western Region

1. Implementation of 1 no. 220kV line bay at Bhuj PS for providing Connectivity to M/s NTPC Renewable Energy Ltd. (300MW)

Sl.	Scope of the Transmission Scheme	Capacity /km	Implementation Timeframe.
1	1 no. 220kV line bay at Bhuj PS associated with M/s NTPC Renewable Energy Ltd. (300MW)	220kV line bay: 1 no.	15 months from the date of issue of OM by CTUIL (refer Note e).
<b>Total Estimated Cost:</b>			<b>INR 5.84 Crore</b>

Note:

- a. Best efforts shall be carried out to implement the transmission scheme within 12 months from the issue of OM by CTUIL.

2. Transmission System for providing connectivity to M/s VEH Jayin Renewables Pvt. Ltd. at Rajgarh (PG) S/s

Sl.	Scope of the Transmission Scheme	Capacity /km	Implementation Timeframe.
1.	220kV bus extension (GIS) of Rajgarh 400/220 kV (PG) S/s along with 220kV Bus Coupler bay for extended bus.	<ul style="list-style-type: none"> <li>• Bus Extension along with 220kV Bus coupler bay- 1 no. using GIS</li> <li>• Space provision in 220kV GIS Hall for accommodalling 5 nos. 220kV future bays</li> </ul>	21 months from the issue of OM by CTUIL.
2.	220kV bus sectionaliser bay (GIS) between existing & extended 220 kV bus of Rajgarh S/s.	• 220kV Bus Sectionaliser – 1 set (GIS)	
3.	220kV GIS line bay at Rajgarh 400/220 kV (PG) S/s (on extended bus) for RE interconnection.	• 220kV line bay: 1 no. (GIS) along with 220kV Bus Duct for Bus Extension (AIS to GIS building)	
<b>Total Estimated Cost:</b>			<b>INR 29.33 Crore</b>

3. Western Region Expansion Scheme XXXI (WRES-XXXI): Part C

Sl.	Scope of the Transmission Scheme	Capacity /km	Implementation Timeframe.
1.	Augmentation of transformation capacity at Pune (GIS) 765/400	• 765/400 kV, 1500 MVA ICT – 1 no.	21 months from the issue of OM by CTUIL (refer note-a)

Sl.	Scope of the Transmission Scheme	Capacity /km	Implementation Timeframe.
	kV substation by 1x1500 MVA ICT (3rd)	<ul style="list-style-type: none"> <li>• 400 kV ICT bay (GIS) – 1 no.</li> <li>• 765/400kV, 1500MVA ICT in existing bay with GIS bus duct along with associated GIS to AIS termination, Erection hardware are required.</li> </ul>	
<b>Total Estimated Cost:</b>			<b>INR 86.01 Crore</b>

Note:

- a. Best efforts shall be carried out to implement the transmission scheme within 18 months from the issue of OM by CTUIL.
- b. 1 no. 765kV ICT bay is available (up to wall of GIS building)

#### 4. Western Region Expansion Scheme XXXIII (WRES-XXXIII): Part D

Sl.	Scope of the Transmission Scheme	Capacity /km	Implementation Timeframe.
1.	Installation of 1x500 MVA, 400/220 kV ICT (4 <sup>th</sup> ) along with associated ICT bays at Satna(PG)	<ul style="list-style-type: none"> <li>• 400/220 kV, 500 MVA ICT – 1 no.</li> <li>• 400 kV ICT bay – 1 no.</li> <li>• 220 kV ICT bay – 1 no. (includes 220kV Cable interconnection for 220kV side of ICT)</li> </ul>	18 months from the issue of OM by CTUIL
2.	2 No. of 220kV line bays at Satna for LILO of Satna 220kV - Maihar 220kV line at Satna (PG) S/s	220kV line bay – 2 nos.	
<b>Total Estimated Cost:</b>			<b>INR 77.52 Crore</b>

#### Northern Region

#### 5. Implementation of 2 nos. of 220 kV line bays at 400/220 kV Panchkula (Barwala) (PG) S/s for Interconnection with 220 kV Dera Bassi S/s

Sl. No.	Scope of the Transmission Scheme	Capacity/km	Implementation timeframe
1	Implementation of 2 nos. of 220 kV line bays at 400/220 kV Panchkula (Barwala) (PG) S/s for Interconnection with 220 kV Dera Bassi S/s	220 kV line bays – 2 nos.	31.05.24
<b>Total Estimated Cost:</b>			<b>INR 11.68 Crore</b>

6. Replacement of 1x315 MVA 400/220kV ICT (ICT-1) at 400/220 kV Ludhiana (PG) S/s with 1x500 MVA 400/220kV ICT

Sl. No.	Scope of the Transmission Scheme	Capacity/km	Implementation timeframe
1	Replacement of 1x315 MVA 400/220kV ICT (ICT-1) at 400/220 kV Ludhiana (PG) S/s with 1x500 MVA 400/220kV ICT *	500 MVA 400/220 kV ICT- 1no.	18 months from the issue of OM by CTUIL (refer note-a)
*along with 66kV cable for shifting auxiliary supply to SVC from ICT-1 to ICT-2			
<b>Total Estimated Cost:</b>			<b>INR 26.98 Crore</b>

Note:

- a. TSP may expedite the implementation of the above transmission scheme to the extent possible, as per the request of PSTCL vide letter dated 06.09.22 for Implementation schedule of May'23 (reconfirmed to 31.05.23 vide mail dated 01.11.22)

7. Replacement of 1x250 MVA, 400/220 kV ICT at 765/400/220 kV Moga (PG) S/s with 1x500 MVA 400/220kV ICT along with associated works at 220kV level

Sl. No.	Scope of the Transmission Scheme	Capacity/km	Implementation timeframe
1.	Replacement of 1x250 MVA, 400/220 kV ICT at 765/400/220 kV Moga (PG) S/s with 1x500 MVA 400/220kV ICT along with associated works at 220 kV level	500 MVA 400/220 kV ICT- 1no. (with associated works at 220 kV level)	18 months from the issue of OM by CTUIL (refer note a)
<b>Total Estimated Cost:</b>			<b>INR 27.03Crore</b>

Note:

- a. TSP may expedite the implementation of the above transmission scheme to the extent possible, as per the request of PSTCL vide letter dated 06.09.22 for implementation schedule of May'23 (reconfirmed to 31.05.23 vide mail dated 01.11.22)

8. Augmentation of Transformation Capacity by 1x500 MVA, 400/220kV ICT (3rd) at 400/220 kV Patran (GIS) S/s

Sl. No.	Scope of the Transmission Scheme	Capacity/km	Implementation timeframe
1.	Augmentation of Transformation Capacity by 1x500 MVA, 400/220kV ICT (3rd) at 400/220 kV Patran (GIS) S/s along with GIS duct (at 400kV and 220kV) in new diameter of ICT - Tie-Line.	<ul style="list-style-type: none"> <li>• 500 MVA 400/220 kV ICT- 1no.</li> <li>• 400 kV ICT bay (GIS) - 1 no.</li> <li>• 400kV bay (GIS) for diameter completion for</li> </ul>	21 months from the issue of OM by CTUIL.

	future line (duct up to outside GIS Hall) – 1 no. • 220 kV ICT bay (GIS) – 1 no.	
<b>Total Estimated Cost:</b>		<b>INR 65.19 Crore</b>

Note:

- a. Best efforts shall be carried out to implement the transmission scheme by 31.05.2024 as per the request of PSTCL letter vide dated 06.09.22 and mail dated 01.11.2022

**9. Implementation of 1 no. of 220 kV line bay at 400/220kV Bikaner-II PS for interconnection of solar project (M/s NHPC Ltd.)**

Sl. No.	Scope of the Transmission Scheme	Capacity/km	Implementation timeframe
1.	1 no. of 220 kV line bay at 400/220 kV Bikaner-II PS for interconnection of RE project (NHPC Ltd.)	• 220 kV line bay – 1 no. (refer note a)	15 months from the issue of OM by CTUIL
2.	Implementation of 220kV Bus sectionalizer along with bus coupler and transfer bus coupler at 400/220kV Bikaner-II PS	<ul style="list-style-type: none"> <li>• 220kV Bus Sectionalizer Bay-- 1 Set</li> <li>• 220kV Bus Coupler Bay--1 No.</li> <li>• 220kV Transfer Bus Coupler Bay--1No.</li> <li>• Bus works for future Bays (4 Nos. of Line Bays &amp; 3 Nos. of ICT Bays)</li> </ul>	
<b>Total Estimated Cost:</b>			<b>INR 29.24 Crore</b>

Note:

- a. At 220 kV Bikaner-II, future line bays in Section-C are proposed to be allocated to RE developers with bays in developer's scope (no. 230-231) and ISTS scope (no. 226-227). Accordingly, 220 kV bus works may also be suitably taken up under the above scope.

**Eastern Region**

**10. Eastern Region Expansion Scheme-XXX (ERES-XXX)**

Sl. No.	Scope of the Transmission Scheme	Capacity/km	Implementation timeframe
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1.	Installation of existing spare 132/66kV, 1x50MVA ICT (already stationed at Gangtok) as 3 <sup>rd</sup> ICT at Gangtok (POWERGRID) S/s along with conversion of existing 132kV TBC bay as 132kV ICT bay for 3 <sup>rd</sup> ICT and construction of new 66kV ICT bay in Hybrid/Outdoor GIS with suitable modification in the gantry structure of 66kV side.	<ul style="list-style-type: none"> <li>• 132/66kV, 50MVA spare ICT as 3<sup>rd</sup> ICT – 1 no.</li> <li>• Conversion of 132kV TBC bay to ICT bay – 1 no.</li> <li>• New 66kV ICT bay (in Hybrid/Outdoor GIS) – 1 no.</li> </ul>	21 months from the issue of OM by CTUIL ( <i>best efforts may be made for early commissioning to the extent possible</i> )
2.	Construction of new 132kV TBC bay in Hybrid/Outdoor GIS.	<ul style="list-style-type: none"> <li>• New 132kV TBC bay (in Hybrid/Outdoor GIS) – 1 no.</li> </ul>	
<b>Total Estimated Cost:</b>			<b>INR 11.64 Crore</b>

#### 11. Eastern Region Expansion Scheme-XXXIII (ERES-XXXIII)

Sl. No.	Scope of the Transmission Scheme	Capacity/km	Implementation timeframe
1.	Reconductoring of Rangpo – Gangtok 132kV D/c line with single HTLS conductor of 800A (at nominal voltage level).	Ckt-1: 26km Ckt-2: 26km	24 months from the issue of OM by CTUIL.
2.	Upgradation of CTs at Gangtok end in both circuits of Rangpo – Gangtok 132kV D/c line from 600A to rating commensurate with rating of HTLS conductor (800A)	-	
<b>Total Estimated Cost:</b>			<b>INR 23.68 Crore</b>

#### North Eastern Region

#### 12. North Eastern Region Expansion Scheme-XVIII (NERES-XVIII)

Sl. No.	Scope of the Transmission Scheme	Capacity/km	Implementation timeframe
1.	Reconductoring of Melriat (GIS) (POWERGRID) – Zuangtui (Mizoram) 132kV ACSR Panther S/c line with Single HTLS conductor of 900A (at nominal voltage level)  <i>Note: The existing line bay and dead tower at Melriat (POWERGRID) end of Melriat (POWERGRID) – Zuangtui (Mizoram) 132kV HTLS S/c line may be kept as spare bay after shifting of the line to newly constructed bay.</i>	10.13km	Apr 2025



2.	One (i) new 132kV line bay at Melriat (GIS) (POWERGRID) S/s (of rating commensurate with rating of HTLS viz. 900A) for shifting of Melriat (GIS) (POWERGRID) – Zuangtui (Mizoram) 132kV HTLS line from existing bay and termination of the HTLS line in the new bay (0.5km including approx. 5 nos. towers)	<ul style="list-style-type: none"> <li>• 132kV GIS line bay – 1 no.</li> <li>• New 132kV S/c HTLS line section – 0.5km (including approx. 5 nos. towers)</li> </ul>
3.	Replacement of existing CT of 600/1A at Zuangtui (Mizoram) end in Melriat (GIS) (POWERGRID) – Zuangtui (Mizoram) 132kV S/c line with rating commensurate with ampacity (900A) of HTLS conductor.	-
4.	Reconductoring of Aizawl (POWERGRID) – Luangmual (Mizoram) 132kV ACSR Panther S/c line with Single HTLS conductor of 800A (at nominal voltage level)	0.8km
5.	Replacement of existing CT of 600/1A at Luangmual (Mizoram) end in Aizawl (POWERGRID) – Luangmual (Mizoram) 132kV S/c line with rating commensurate with ampacity (800A) of HTLS conductor.	-
6.	Installation of OPGW in Aizawl (POWERGRID) – Luangmual (Mizoram) 132kV S/c line	0.8km
<b>Total Estimated Cost:</b>		<b>INR 11.49 Crore</b>

### 13. North Eastern Region Expansion Scheme-XX (NERES-XX)

Sl. No.	Scope of the Transmission Scheme	Capacity/km	Implementation timeframe
1.	Reconductoring of existing Single ACSR Panther Kopili (NEEPCO) – Khandong (NEEPCO) 132kV S/c line-1 (10.9km) of POWERGRID with Single HTLS conductor of ampacity of 800A (at nominal voltage level) along with replacement of existing wave trap at Kopili end and CT at Khandong end with rating commensurate with ampacity (800A) of HTLS conductor	10.9km	24 months from the issue of OM by CTUIL.
2.	Reconductoring of existing Single ACSR Panther Khandong (NEEPCO) – Khlelriat (POWERGRID) 132kV S/c line-1 (42.48km) of POWERGRID with Single HTLS conductor of ampacity of 800A (at nominal voltage level) along with replacement of existing CTs at both ends with rating commensurate with ampacity (800A) of HTLS conductor.	42.48km	

3.	Reconductoring of existing Single AAAC Panther Khandong (NEEPCO) – Khliehriat (POWERGRID) 132kV S/c line-2 (40.93km) of POWERGRID with Single HTLS conductor of ampacity of 800A (at nominal voltage level) along with replacement of existing CTs at both ends & wave trap at Khandong end with rating commensurate with ampacity (800A) of HTLS conductor, and strengthening of requisite tower members (approx. 0.348 MT).	40.93km
4.	Reconductoring of existing Single ACSR Panther Khliehriat (POWERGRID) – Khliehriat (MePTCL) 132kV S/c POWERGRID line-1 (7.8km) of POWERGRID with Single HTLS conductor of ampacity of 800A (at nominal voltage level) along with replacement of existing CTs at both ends with rating commensurate with ampacity (800A) of HTLS conductor, and strengthening of requisite tower members (approx. 0.121 MT).	7.8km
5.	Reconductoring of existing Single AAAC Panther Khliehriat (POWERGRID) – Badarpur (POWERGRID) 132kV S/c line (76.64km) with Single HTLS conductor of ampacity of 900A (at nominal voltage level) along with replacement of existing CTs at both ends with rating commensurate with ampacity (900A) of HTLS conductor.	76.64km
6.	Replacement of existing bus coupler bay CT at Khandong HEP (NEEPCO) switchyard from 600A to 800A	
<b>Total Estimated Cost:</b>		<b>INR 77.04 Crore</b>

### Southern Region

14. Implementation of 1 no. 400kV line bay at Kurnool New S/s for providing Connectivity to M/s Greenko AP01 IREP Pvt. Ltd. (2<sup>nd</sup> 400kV line bay for M/s Greenko)

Sl. No.	Scope of the Transmission Scheme	Capacity/km	Implementation timeframe
1	Implementation of 1 no. 400kV line bay at Kurnool New S/s for providing Connectivity to M/s Greenko AP01 IREP Pvt. Ltd. (2 <sup>nd</sup> 400kV line bay for M/s Greenko)	400kV line bay – 1 No (Bay No. 412, SI D enclosed).	15 months from the issue of OM by CTUIL (refer note a.)
<b>Total Estimated Cost:</b>			<b>INR 8.55 Crore</b>

Note:

- a. Best efforts shall be carried out to implement the transmission scheme by 15.12.2023 as per the request of M/s Greenko AP01 IERP Pvt. Ltd. in its application / grant for enhancement of Connectivity.



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

**CENTRAL TRANSMISSION UTILITY OF INDIA LTD.**

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

Ref.: C/CTU/AI/00/10<sup>th</sup> CCTP

17<sup>th</sup> January 2023

**OFFICE MEMORANDUM**

**Sub: Inter-State Transmission Schemes (costing up to Rs.100 Cr.) to be taken up for implementation under Regulated Tariff Mechanism (RTM).**

The undersigned is directed to inform that CTU has approved the implementation of the following ISTS costing less than or equal to Rs.100 Cr. in line with the MoP office order dated 28.10.2021 under the Regulated Tariff Mechanism (RTM) mode by the implementing agencies as indicated in the table below:

Sl. No.	Name of scheme	Implementing Agency
<b>Eastern Region</b>		
1.	Eastern Region Expansion Scheme-XXXII (ERES-XXXII)	Power Grid Corporation of India Ltd.
<b>Northern Region</b>		
2.	Implementation of 2 no. of 220 kV line bays at 400/220kV Bikaner-II PS for interconnection of RE power park of M/s ALF Solar Amarsar Pvt. Ltd.	POWERGRID Bikaner Transmission System Ltd. (a subsidiary of Power Grid Corporation of India Ltd.)

The detailed scope of works for the above transmission schemes, as approved by CTU is given at Annexure-I.

Implementing agencies shall enter into a concession agreement with CTU for the implementation of the above-mentioned schemes through the Regulated Tariff Mechanism (RTM).

This issues with the approval of Competent Authority.

  
(Jasbir Singh)  
Chief General Manager

Encl: as stated.



To:

1. The Chairman & Managing Director  
Power Grid Corporation of India Ltd.,  
Saudamini, Plot No. 2, Sector-29,  
Gurgaon- 122 001

Copy to:

1. Shri Ishan Sharan  
Chief Engineer & Member Secretary  
(NCT)  
Central Electricity Authority  
Sewa Bhawan, R. K. Puram,  
New Delhi-110 056.

2. Shri Goutam Ghosh  
Director (Trans)  
Ministry of Power,  
Shram Shakti Bhawan,  
Rafi Marg, New Delhi 110 001



Eastern Region

## 1. Eastern Region Expansion Scheme-XXXII (ERES-XXXII)

Sl. No.	Scope of the Transmission Scheme	Capacity /km	Implementation Timeframe.
1	(a) Installation of new 420kV, 1x125MVar bus reactor along with associated bay at Durgapur (POWERGRID) S/s in split bus section-A (which is not having ICTs)  <i>Note: The existing 50MVar (3x18.67MVar) bus reactor at Durgapur S/s in bus section-A may be decommissioned prior to installation of new 420kV, 1x125MVar bus reactor as indicated above.</i>	• 420kV, 1x125MVar Bus reactor – 1 no. • 400kV Bus reactor bay – 1 no.	18 months from the issue of OM by CTUIL.
<b>Total Estimated Cost:</b>			<b>INR 25.93 Crore</b>

Northern Region

## 2. Implementation of 2 no. of 220 kV line bays at 400/220kV Bikaner-II PS for interconnection of RE power park of M/s ALF Solar Amarsar Pvt. Ltd.

Sl. No.	Scope of the Transmission Scheme	Capacity /km	Implementation Timeframe.
1.	2 no. of 220 kV line bays at 400/220 kV Bikaner-II PS for interconnection of RE power park of M/s ALF Solar Amarsar Pvt. Ltd.	• 220 kV line bay – 2nos.	30.06.2024
<b>Total Estimated Cost:</b>			<b>INR 11.68 Crore</b>



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

CENTRAL TRANSMISSION UTILITY OF INDIA LTD.

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

Ref.: CTUIL/OM/06

15<sup>th</sup> November 2022

Director (Projects)  
Power Grid Corporation of India Ltd.,  
Saudamini, Plot No. 2, Sector-29,  
Gurgaon- 122 001

**Sub: Implementation of ISTS Transmission Schemes approved by NCT in its 9<sup>th</sup> meeting held on 28.09.2022 under Regulated Tariff Mechanism (RTM)**

NCT vide letter dated 15.11.2022 has awarded the following ISTS Transmission Schemes to CTUIL for their implementation under RTM mode by POWERGRID as indicated in the table below:

Sl. No.	Transmission Scheme	Implementing Agency
1.	Augmentation of ISTS for interconnection of HVPNL transmission schemes	POWERGRID
2.	Scheme to relieve high loading of WR-NR Inter Regional Corridor (400 kV Bhinmal-Zerda line)	POWERGRID
3.	Eastern Region Expansion Scheme-XXIX (ERES-XXIX)	POWERGRID
4.	Transmission system for evacuation of power from Rajasthan REZ Ph- IV (Part-1) (Bikaner Complex)- Part-E	POWERGRID
5.	Supply and Installation of OPGW on existing main lines which are to be LILoed under various transmission schemes	POWERGRID

Further, the modified scope of works for Western Region Expansion Scheme-XXV (WRESXXV) scheme on account of space constraints at Raigarh (Kotra) S/s has also been approved by 9<sup>th</sup> NCT with revised implementation time-frame, which was already awarded for implementation under RTM mode by POWERGRID as per 8<sup>th</sup> NCT meeting held on 25.03.2022.

Copy of NCT letter in this regard is enclosed at Annexure-I. The detailed scope of work along with implementation time frame for transmission schemes is as per the letter enclosed.

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

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

Yours faithfully,

*Jasbir Singh*

(Jasbir Singh) 15/11/22

Chief General Manager

Encl: as stated.



I/24500/2022



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

Chief Operating Officer, CTUIL  
 Saudamini, Plot No. 2,  
 Sector-29, Gurgaon – 122 001.

**विषय/Subject: Implementation of ISTS Transmission Schemes (costing greater than Rs.100 crore and upto Rs. 500 crore) approved by NCT in its 9<sup>th</sup> meeting held on 28.09.2022- regarding**

महोदय/ Sir,

The undersigned is directed to inform that NCT has approved implementation of the following ISTS Transmission Scheme (costing greater than Rs. 100 crore and upto Rs. 500 crore) in its 9<sup>th</sup> meeting held on 28.09.2022, in line with MoP office order dated 28.10.2021, to be implemented through Regulated Tariff Mechanism (RTM) route by agency as indicated below:

S.No	Transmission Scheme	Implementing Agency
1.	Augmentation of ISTS for interconnection of HVVNL transmission schemes	POWERGRID
2.	Scheme to relieve high loading of WR-NR Inter Regional Corridor (400 kV Bhinmal-Zerda line)	POWERGRID
3.	Eastern Region Expansion Scheme-XXIX (ERES-XXIX)	POWERGRID
4.	Augmentation of transformation capacity at Kallam PS by 2x500 MVA, 400/220 kV ICTs (3rd & 4th) along with 220kV bays for RE interconnection	Consortium of IndiGrid 1 Ltd. (Lead Member) and IndiGrid 2 Ltd.
5.	Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-1) (Bikaner	POWERGRID

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



I/24500/2022

S.No	Transmission Scheme	Implementing Agency
	Complex)-Part-E	
6.	Supply and Installation of OPGW on existing main lines which are to be LILoed under various transmission schemes.	POWERGRID

Detailed scope of works for the above scheme is enclosed at Annexure-I.

In addition to the above, NCT also approved modification in the scope under Western Region Expansion Scheme-XXV (WRES-XXV) awarded through RTM by 8<sup>th</sup> NCT. Details enclosed at Annexure-II.

The schemes are awarded to CTUIL for its 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.

भवदीय / Yours faithfully,

संलग्न / Encl. - उपरोक्त / as above

(ईशान शरण/Ishan Sharan)

मुख्य अभियन्ता /Chief Engineer & Member Secretary (NCT)

Copy to:

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





I/24500/2022

Annexure-IDetailed scope of works of schemes agreed in 9<sup>th</sup> meeting of NCT:

S.No	Name of scheme	Detailed scope	Estimated Cost (Rs. Crs)
1.	Augmentation of ISTS for interconnection of HVPNL transmission schemes	<p>i) Augmentation by 1x500 MVA, 400/220 kV ICT (3 rd ) at 400/220 kV Bahadurgarh (PG) S/s -<b>July, 24</b></p> <ul style="list-style-type: none"> <li>• 400/220 kV, 500 MVA ICT – 1 no.</li> <li>• 400 kV ICT bay – 1 no.</li> <li>• 220 kV ICT bay – 1 no.</li> </ul> <p>ii) 2 nos of 220 kV line bays at 400/220 kV Bahadurgarh (PG) S/s (for 220 kV Kharkhoda pocket B- Bahadurgarh (PG) D/c line) – <b>July, 24</b></p> <ul style="list-style-type: none"> <li>• 220 kV line bays – 2 nos.</li> </ul> <p>iii) 2 nos of 220 kV line bays at 400/220 kV Bahadurgarh (PG) S/s (for 220 kV METL – Bahadurgarh (PG) D/c line) – <b>March, 24</b></p> <ul style="list-style-type: none"> <li>• 220 kV line bays – 2 nos.</li> </ul> <p>iv) Augmentation by 1x500 MVA, 400/220 kV ICT (3 rd ) at 400/220 kV Jind (PG) S/s – <b>February, 24</b></p> <ul style="list-style-type: none"> <li>• 400/220 kV, 500 MVA ICT – 1 no.</li> <li>• 400 kV ICT bay – 1 no.</li> <li>• 220 kV ICT bay – 1 no.</li> </ul> <p>v) 2 nos of 220 kV line bays at 400/220 kV Sonepat (PG) S/s (for 220 kV D/c line from Kharkhoda pocket A) - <b>July, 24</b></p> <ul style="list-style-type: none"> <li>• 220 kV line bays – 2 nos.</li> </ul>	117.05
2.	Scheme to relieve high loading of WR-NR Inter Regional Corridor (400 kV Bhinmal-Zerda line)	<p>i) Bypassing of 400 kV Kankroli - Bhinmal-Zerda line at Bhinmal to form 400 kV Kankroli – Zerda (direct) line # - 12 months from date of issue of this letter</p> <p>ii) Reconductoring of 400 kV Jodhpur (Surpura) (RVPN) – Kankroli S/c (twin moose) line with twin HTLS conductor*- 18 months** from date of issue of this letter</p> <p>iii) OPGW installation on 400 kV Jodhpur (Surpura)(RVPN) – Kankroli S/c (twin moose) line -188 km</p> <p># with necessary arrangement for bypassing Kankroli- Zerda line at Bhinmal with suitable</p>	288.9



I/24500/2022

		switching equipment inside the Bhinmal substation *with minimum capacity of 1940MVA/ckt at nominal voltage; Upgradation of existing 400kV bay equipment's each at Jodhpur (Surpura) (RVPN) and Kankroli S/s(3150 A) **Best effort to be made for reconductoring in 15 months from date of issue of this letter	
3.	Eastern Region Expansion Scheme-XXIX (ERES-XXIX)	i) Reconductoring of Jharsuguda/Sundargarh (PG) – Rourkela (PG) 400kV 2xD/c Twin Moose line with Twin HTLS conductor (with ampacity of equivalent to single HTLS as 1228 A at nominal voltage).  ii) Bay upgradation at Rourkela (PG) end for 3150 A rating – 04 nos. diameters in one and half breaker scheme (except 09 nos. existing circuit breakers which are of minimum 3150 A rating).  Implementation timeframe 36 months from date of issue of this letter. Note: No upgradation in line bays is envisaged at Jharsuguda/Sundargarh (POWERGRID) S/s as the existing line bays are rated for 3150A.	422.23
4.	Augmentation of transformation capacity at Kallam PS by 2x500 MVA, 400/220 kV ICTs (3rd & 4th) along with 220kV bays for RE interconnection	i) Augmentation of Kallam Pooling Station by 2x500 MVA, <ul style="list-style-type: none"> <li>• 500 MVA, 400/220kV ICT: 2 nos.</li> <li>• 400 kV ICT bays: 2 nos.</li> <li>• 400/220 kV ICTs 220 kV ICT bays: 2 nos.</li> </ul> ii) 3 nos. 220 kV line bays for RE interconnection <ul style="list-style-type: none"> <li>• 220 kV line bays: 3 nos.</li> </ul> iii) 1x125 MVA bus reactor (2 nd ) at Kallam PS <ul style="list-style-type: none"> <li>• 125 MVA, 420 kV Bus reactor – 1 no.</li> <li>• Bus reactor bay: 1 no.</li> </ul> with implementation timeframe of 18 months from date of issue of this letter	156.89
5.	Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-1) (Bikaner Complex)-	i) Augmentation by 765/400 kV, 1x1500 MVA ICT (4 <sup>th</sup> ) at Bikaner (PG) <ul style="list-style-type: none"> <li>• 765/400 kV, 1500 MVA ICT – 1 no.</li> <li>• 765 kV ICT bay – 1 nos.</li> <li>• 400 kV ICT bay - 1 nos.</li> </ul> with implementation timeframe of 18 months from date of issue of this letter  ii) Augmentation by 400/220 kV, 1x500 MVA	368

I/24500/2022

	Part-E	<p>ICT (3 rd ) at Kotputli (PG)</p> <ul style="list-style-type: none"> <li>• 400/220 kV, 500 MVA ICT – 1 nos.</li> <li>• 400 kV ICT bay – 1 nos.</li> <li>• 220 kV ICT bay - 1 nos.</li> </ul> <p>with implementation timeframe of 18 months from date of issue of this letter {matching with Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-1) (Bikaner Complex)-Part-B }</p> <p>iii) Augmentation by 400/220 kV, 5x500 MVA ICT at Bikaner-II PS</p> <ul style="list-style-type: none"> <li>• 400/220 kV, 500 MVA ICT – 5 nos.</li> <li>• 400 kV ICT bays – 5 nos.</li> <li>• 220 kV ICT bays - 5 nos.</li> </ul> <p>Augmentation with 400/220 kV, 5x500 MVA ICT at Bikaner-II PS –to be taken up for evacuation requirement beyond 2000 MW at 220 kV level of Bikaner-II PS, with implementation timeframe matching with schedule of RE generation or 18 months from date of allocation, whichever is later.</p>	
6.	Supply and Installation of OPGW on existing main lines which are to be LILOed under various transmission schemes.	<p>Installation of OPGW alongwith necessary accessories and FOTE are mentioned as under-</p> <p>Western Region</p> <ul style="list-style-type: none"> <li>• 400kV Bachau (PG) – EPGL line (221 km) [to be LILOed at Lakadia]</li> <li>• 400kV Satna – Bina (1 st ) D/c line (276 km) [to be LILOed at Chatarpur]</li> <li>• 400kV Kakrapar - Vapi D/c line (116 km) [to be LILOed at Vapi-II]</li> </ul> <p>Northern Region</p> <ul style="list-style-type: none"> <li>• 765kV S/c Jaipur (Phagi) (RVPNL) – Gwalior line (312 km) (Ckt-1 is proposed) (to be LILOed at Dausa)</li> <li>• 400kV D/c Agra – Jaipur (South) (PG) line (254 km) (to be LILOed at Dausa).</li> </ul> <p>Matching with the timeframe of the respective LILOs.</p>	59.5



I/24500/2022

Annexure-II**Modification in the scope of works of Transmission Scheme awarded through RTM by 8<sup>th</sup> NCT.**

1. The modified scope of works for Western Region Expansion Scheme-XXV (WRES-XXV) scheme on account of space constraints at Raigarh (Kotra) S/s:

**Raigarh (Kotra) Section-A**

Original Scope	Revised Scope
765/400kV ICT: 1x1500MVA	765/400 kV ICT (Sec-A: 3rd ): 1x1500 MVA
765kV ICT bay: 1 no.	765 kV bay: 1 no. for change in termination of Champa-I line from existing bay to new bay & Equipment of Existing Main bay of Champa-I line shall be shifted to New ICT Bay (ICT 3rd bay) for utilization.
400kV ICT bay: 1 no.	400 kV ICT bay: 1 no.

**Raigarh(Kotra) Section-B**

Original Scope	Revised Scope
765/400kV ICT: 2x1500MVA	765/400kV ICTs (Sec-B: 3rd & 4th ): 2x1500MVA
765kV ICT bay: 2 no.	Sec-B: 3rd ICT <ul style="list-style-type: none"> <li>765kV ICT bay (AIS): 1 no.</li> </ul> Sec-B: 4th ICT <ul style="list-style-type: none"> <li>765kV ICT bay (GIS): 1 no. consisting of 2 breakers [with Double bus double breaker scheme and the ICT (4 th ) (physically located in the space available near section-A) to be connected with the above bay through GIB Duct]</li> </ul>
400kV ICT bay: 2 no.	Sec-B: 3rd ICT <ul style="list-style-type: none"> <li>400kV ICT bay (AIS): 1 no. (ICT shall be terminated into above bay using partly 400Kv GIB duct and balance by BPI arrangement)</li> </ul> Sec-B: 4th ICT <ul style="list-style-type: none"> <li>400kV ICT bay (GIS): 1 no. consisting of 2 breakers [with Double bus double breaker scheme and the ICT (4th ) (physically located in the space available near section-A) to be connected with the above bay through GIB Duct]</li> </ul>

2. The revised cost of Western Region Expansion Scheme-XXV (WRES-XXV) scheme is Rs. 381 Crs. Implementation timeframe of the scheme would be 12 months on best effort basis from date of issue of this letter

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

CENTRAL TRANSMISSION UTILITY OF INDIA LTD.

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

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

16<sup>th</sup> February 2023

<b>Director (Projects)</b> Power Grid Corporation of India Ltd., Saudamini, Plot No. 2, Sector-29, Gurgaon- 122 001	<b>Shri Chetan Bundela</b> Torrent Power Grid Ltd. 'SAMANVAY', 600, Topovan, Ambawadi, Ahmedabad, Gujarat
<b>GEO</b> POWERGRID Bikaner Transmission System Ltd. C/o ED (TBCB) Power Grid Corporation of India Ltd., Saudamini, Plot No. 2, Sector-29, Gurgaon- 122 001	<b>Shri Lonkendra Singh Ranawat</b> Head – Regulatory INDIGRID Unit No. 101, 1 <sup>st</sup> Floor, Windsor, Village Kolkalyan Off CST Road, Vidyanagari Marg, Kalina, Santacruz (East), Mumbai – 400 098.

**Sub: Implementation of ISTS Transmission Schemes approved by NCT in its 11<sup>th</sup> meeting held on 28.12.2022 and 17.01.2023 under Regulated Tariff Mechanism (RTM)**

NCT vide letter dated 16.02.2023 has awarded the following ISTS Transmission Scheme for its implementation under RTM mode by implementing agencies as indicated in the table below:

Sl. No.	Transmission Scheme	Implementing Agency
<b>I. Approved ISTS Schemes:</b>		
1.	Western Region Expansion Scheme XXXIII (WRES-XXXIII): Part A	POWERGRID
2.	Transmission scheme for evacuation of 4.5 GW RE injection at Khavda PS under Phase II- Part D:	TPGL
3.	ICT Augmentation at Navsari (New) associated with integration of additional 7 GW RE power from Khavda RE park under Phase-III.	POWERGRID
4.	Western Region Expansion Scheme-XXXIII (WRES-XXXIII): Part B1	POWERGRID
5.	Western Region Expansion Scheme-XXXIII (WRES-XXXIII): Part C1	POWERGRID
<b>II. Modification in the already approved schemes:</b>		
1.	Transmission Network Expansion in Gujarat to increase ATC from ISTS: Part C	POWERGRID
2.	Transmission system for evacuation of power from Rajasthan REZ Ph IV (Part-1) (Bikaner Complex) Part-E	
	(iii) Augmentation with 5x500MVA, 400/220 kV ICTs at Bikaner-II PS:	POWERGRID Bikaner



Sl. No.	Transmission Scheme	Implementing Agency
III. Communication schemes approved by NCT:		
1.	Supply and Installation of OPGW on existing 400 kV Jalandhar (PG) – Kurukshetra (PG) line which is to be LILOed at 400 kV Dhanansu (PSTCL) (229 km)	POWERGRID
2.	Supply and Installation of OPGW on existing 400 kV Koldam – Ludhiana (PG) line which is to be LILOed at 400 kV Ropar (PSTCL) (150 kms)	INDIGRID
3.	Supply and Installation of OPGW on existing 400 kV Agra – Ballabgarh line (181km) - Replacement	POWERGRID
4.	Supply and Installation of OPGW on existing 400 kV Kishenpur – Wagoora line (183 km) – Replacement	POWERGRID
5.	Redundant communication system for Bhinmal (PG) and Kankrol (PG) ISTS stations	POWERGRID
6.	Supply and Installation of OPGW on existing 220kV Anta (NTPC) – Bhiwara line (167 km)	POWERGRID

Copy of NCT letter dated 16.02.2023 in this regard is enclosed at Annexure-I. The detailed scope of work along with implementation time frame for the above transmission scheme is as per the letter enclosed.

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

The earlier letter ref. no. CTUIL/OM/09 dated 14.02.2023 issued on the above subject stands withdrawn.

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

Yours faithfully,

*Jasbir Singh*  
16/02/23  
(Jasbir Singh)  
Chief General Manager

Encl: as stated.



## ANNEXURE-I



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

सेवा में / To

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

विषय/Subject: Implementation of ISTS Transmission Schemes approved by NCT in its  
11<sup>th</sup> meeting held on 28.12.2022 and 17.01.2023- regarding

महोदय/Sir,

The undersigned is directed to inform that NCT has approved implementation of the following ISTS Transmission Schemes in its 11<sup>th</sup> meeting held on 28.12.2022 and 17.01.2023, in line with MoP office order dated 28.10.2021, to be implemented through Regulated Tariff Mechanism (RTM) route by agency as indicated below:

**I. APPROVED ISTS SCHEMES:**

**I. Western Region Expansion Scheme XXXIII (WRES-XXXIII): Part A**

Sl. Nos.	Transmission Scheme	Scope	Implementing Agency
1.	Western Region Expansion Scheme XXXIII (WRES-XXXIII): Part A	i) Creation of 220 kV level at 765/400 kV Jabalpur PS with installation of 2x500 MVA, 400/220 kV ICTs along with associated ICT bays, ii) 4 Nos. of 220 kV line bays at Jabalpur PS for LILO of Narsinghpur - Jabalpur (MP) 220 kV D/c line at Jabalpur Pool	POWERGRID



I/26294/2023

Detailed scope of the scheme is given below:

Sl.	Scope of the Transmission Scheme	Capacity /km
1.	Creation of 220 kV level at 765/400 kV Jabalpur PS with installation of 2x500 MVA, 400/220 kV ICTs along with associated ICT bays	400/220 kV, 500 MVA ICT – 2 Nos. 400 kV ICT bays – 2 Nos. 220 kV ICT bays – 2 Nos.
2.	4 Nos. of 220 kV line bays at Jabalpur PS for LILO of Narsinghpur - Jabalpur (MP) 220 kV D/c line at Jabalpur Pool	220 kV line bays – 4 Nos.

Estimated Cost: Rs. 126.09 Crs.

Implementing Agency: POWERGRID.

Implementation timeframe: 18 months from date of allocation

**2. Transmission scheme for evacuation of 4.5 GW RE injection at Khavda PS under Phase II- Part D:**

Sl. Nos.	Scope of the Transmission Scheme
1.	LILO of Pirana (PG) – Pirana (T) 400 kV D/c line at Ahmedabad S/s with twin HTLS alongwith reconductoring of Pirana (PG) – Pirana (T) line with twin HTLS conductor with OPGW for both main line and LILO section
2.	Bay upgradation work with requisite FOTE at Pirana (PG) & Pirana (T) 400 kV line bays (Bay Upgradation) – 4 Nos@

@ The current rating of existing bays at Pirana (PG) & Pirana(T) is 2000 A. 04 Nos. 400 kV line bays upgradation includes 02 bays upgradation at Pirana (PG) and 02 bays upgradation at Pirana (T). Upgradation at Pirana (T) shall also include upgradation of 400 kV Bus coupler bay and 400 kV Transfer bus coupler bay along with upgradation of bus bar.

Note:

- Transmission system for evacuation of 3 GW RE injection at Khavda is being taken up under Phase-I. Phase-II RE scheme for evacuation of 4.5 GW RE injection at Khavda needs to be taken up for evacuation requirement beyond 3 GW from Khavda RE park.
- Implementation of all the transmission packages proposed for evacuation of 4.5 GW RE injection at Khavda RE park under Phase-II (Part A to Part D) needs to be taken up in similar timeframe.





I/26294/2023

iii) The switching scheme of existing 400 kV Pirana (T) S/S is Double Main and Transfer (DMT) Scheme and current rating of existing Bus Coupler bay and Transfer Bus Coupler bay is 2000 A. With upgradation of line bays to 3150 A (to suit the re-conductoring with Twin HTLS conductor), existing 400 kV Bus Coupler bay and Transfer Bus Coupler bay (with associated Bus Bar) shall also be upgraded to 3150 A by the TSP.

The scheme has already been de-notified vide Gazette Notification No. 221 dated 13.01.2023.

Estimated cost of the scheme: Rs.221 Crs (as per CTUIL email dated 10.02.2023)

Implementing agency: Torrent Power Grid Limited (TPGL)

Implementation timeframe: In matching the commissioning timeframe of Khavda Phase-II (Part A to C). The implementing agency under RTM would coordinate with the BPC/SPV of Khavda Phase II (Part A – C) schemes to match the commissioning timeframe.

**3. ICT Augmentation at Navsari (New) associated with integration of additional 7 GW RE power from Khavda RE park under Phase-III:**

Sl. Nos.	Name of Transmission Scheme	Implementation Mode
1.	ICT Augmentation at Navsari (New) S/s associated with integration of additional 7 GW RE power from Khavda RE park under Phase-III	RTM route by TSP of Navsari (new) S/sm i.e. POWERGRID

Detailed scope of the scheme:

S.No.	Scope of the Transmission Scheme	Capacity / line length km
1.	Augmentation of transformation capacity at Navsari (New) 765/400 kV S/s by 1x1500 MVA (ICT-IV)	765/400 kV, 1500 MVA ICT – 1 Nos. 765 kV ICT bay – Not required as ICT to be terminated in existing bay 400 kV ICT bay – 1 Nos. (GIS)

Note: Bay(s) as may be required for completion of diameter (GIS) in one-and-half breaker scheme, shall also be executed by the TSP.

Estimated Cost: Rs. 58.52 Crores.



I/26294/2023

Implementing Agency: POWERGRID.

Implementation timeframe: In matching timeframe of Transmission system for evacuation of additional 7 GW RE power from Khavda RE park under Phase-III Part B

#### 4. Western Region Expansion Scheme XXXIII (WRES-XXXIII): Part B1

Sl. No.	Name of Transmission Scheme	Implementation Mode
1.	Western Region Expansion Scheme XXXIII (WRES-XXXIII): Part B1	Under RTM to the owner of Gwalior-Safna 765 kV line i.e. Powergrid

Detailed scope of the scheme:

Sl. No.	Scope of the Transmission Scheme	Capacity /km
1.	Conversion of 1x240 MVAR, 765 kV Fixed line reactor at Gwalior end to Switchable line reactor (with NGR bypass arrangement) along with implementation of Inter-tripping scheme (for tripping of the switchable shunt reactor at Gwalior end along with the main line breaker)	<ul style="list-style-type: none"> <li>Switching equipment for 765 kV line reactor (with NGR bypass arrangement) – 1 No.</li> <li>Implementation of inter-tripping scheme for the switchable line reactor at Gwalior end</li> </ul>

Estimated Cost: Rs 19 Crs

Implementing Agency: POWERGRID.

Implementation timeframe: In matching timeframe of Western Region Expansion Scheme XXXIII (WRES-XXXIII): Part B

#### 5. Western Region Expansion Scheme XXXIII (WRES-XXXIII): Part C1

Sl. Nos.	Name of Transmission Scheme	Implementation Mode
1.	Western Region Expansion Scheme XXXIII (WRES-XXXIII): Part C1	RTM route to POWERGRID, the TSP of Jabalpur - Orai 765 kV S/c line.

Detailed scope of the scheme:

Sl. No.	Scope of the Transmission Scheme	Capacity /km
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I/26294/2023

## (2) Transmission system for evacuation of power from Rajasthan REZ Ph IV (Part-1) (Bikaner Complex) Part-E

The scheme inter-alia includes augmentation with 5x500 MVA, 400/220 kV ICTs at Bikaner-II PS:

- Augmentation with 5x500 MVA, 400/220 kV ICTs at Bikaner-II PS:

CEA vide letter dated 15.11.22 has allocated the implementation of above scheme to POWERGRID under RTM.

CTUIL vide its mail dated 01.12.2022 has informed that Bikaner-II PS is under implementation by POWERGRID Bikaner Transmission System Ltd. (PBTSL) [100% subsidiary of POWERGRID] under TBCB.

Accordingly, the implementing agency for augmentation with 5x500 MVA, 400/220 kV ICTs at Bikaner-II PS is POWERGRID Bikaner Transmission System Ltd. (PBTSL).

## II. COMMUNICATION SCHEMES APPROVED BY NCT:

Sl. Nos.	Name of Transmission Scheme	Implementation Mode	Implementation timeframe	Allocated to	Estimated Cost (Rs Crs)
1.	Supply and Installation of OPGW on existing 400 kV Jalandhar (PG) – Kurukshetra (PG) line which is to be LILOed at 400 kV Dhanansu (PSTCL) (229 km)	RTM	24 months	POWER GRID	10.3
2.	Supply and Installation of OPGW on existing 400 kV Koldam (Indigrid) – Ludhiana (PG) line which is to be LILOed at 400 kV Ropar (PSTCL) (150 kms)	RTM	18 months	INDIGRID	6.7
3.	Supply and Installation of OPGW on existing 400 kV Agra – Ballabhgarh line (181 km) - Replacement	RTM	18 months	POWER GRID	9.05



I/26294/2023

Sl. Nos.	Name of Transmission Scheme	Implementation Mode	Implementation timeframe	Allocated to	Estimated Cost (Rs Crs)
4.	Supply and Installation of OPGW on existing 400 kV Kishenpur – Wagoora line (183 km) - Replacement	RTM	18 months	POWER GRID	9.15
5.	Redundant communication System for Bhinmal (PG) and Kankroli (PG) ISTS stations	RTM	18 months	POWER GRID	2.55
6.	Supply and Installation of OPGW on existing 220 kV Anta (NTPC) – Bhilwara line (187 km)	RTM	18 months	POWER GRID	9.35

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

The letter dated 14.02.2023 on the above subject stands withdrawn.

Yours faithfully

(इशान शरण/Ishan Sharan)

मुख्य अभियंता /Chief Engineer &  
Member Secretary (NCT)

Copy to:

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



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

**CENTRAL TRANSMISSION UTILITY OF INDIA LTD.**

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

Ref.: C/CTU/AI/00/13<sup>th</sup> CCTP

8<sup>th</sup> June 2023

**OFFICE MEMORANDUM**

**Sub: Inter-State Transmission Schemes (costing up to Rs.100 Cr.) to be taken up for implementation under Regulated Tariff Mechanism (RTM).**

The undersigned is directed to inform that CTU has approved the implementation of the following ISTS costing less than or equal to Rs.100 Cr. in line with the MoP office order dated 28.10.2021 under the Regulated Tariff Mechanism (RTM) mode by the implementing agencies as indicated in the table below:

Sl. No.	Name of Transmission Scheme	Implementing Agency
<b>Western Region</b>		
1.	Implementation of 1 no. 400kV bay at Kallam PS for interconnection of RE project of Torrent Solar Power Pvt. Ltd. (TSPPL)	Kallam Transmission Ltd. (a subsidiary of India Grid Trust)
<b>Northern Region</b>		
2.	Augmentation of transformation capacity at 400/220kV Nalagarh S/s by 400/220kV, 1x500 MVA ICT (4 <sup>th</sup> )	Power Grid Corporation of India Ltd.
3.	Augmentation of transformation capacity at 400/220kV Bikaner-II PS by 400/220kV, 1x500 MVA ICT (3 <sup>rd</sup> )	Power Grid Bikaner Transmission System Ltd. (a subsidiary of Power Grid Corporation of India Ltd.)
<b>Eastern Region</b>		
4.	Eastern Region Expansion Scheme-XXXV (ERES-XXXV)	Power Grid Corporation of India Ltd.

The detailed scope of works for the above transmission schemes is given at Annexure-I.

The above transmission schemes are awarded to the Implementing Agency for its implementation under RTM mode. The implementing agency shall enter into a concession agreement with CTU for the implementation of the above-mentioned transmission schemes through the Regulated Tariff Mechanism (RTM).

This issues with the approval of Competent Authority.

(Jasbir Singh)

Chief General Manager



Encl: as stated.

**To:**

<b>1. The Chairman &amp; Managing Director</b> Power Grid Corporation of India Ltd., Saudamini, Plot No. 2, Sector-29, Gurgaon- 122 001	<b>2. Shri Venkatraman Inumula</b> Vice President – Regulatory & Contracts, Kallam Transmission Ltd. (KTL) (A consortium of IndiGrid 1 Ltd. & IndiGrid 2 Ltd.) Unit No. 101, First Floor, Windsor, Village Kolekalyan, Off CST Road, Vidyanagari Marg, Santacruz (East), Mumbai – 400 098, Maharashtra
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**Copy to:**

<b>1. Shri Ishan Sharan</b> Chief Engineer & Member Secretary (NCT) Central Electricity Authority Sewa Bhawan, R. K. Puram, New Delhi-110 066.	<b>2. Shri Om Kant Shukla</b> Director (Trans) Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi 110 001
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**CC:**

<b>1. Shri Jigish Mehta</b> Director Torrent Solar Power Pvt. Ltd. Sugen Mega Power Project, Torrent Power Ltd., Village-Akhakhhol, Dist.-Surat 394 155	<i>With the request to implement Wind Power Project along with 400kV S/c dedicated transmission line by 30.12.2024 i.e., implementation timeframe of 1 no. 400kV line bay at Kallam PS.</i>
<b>2. Director (P &amp; C)</b> HPPTCL, Headoffice, Himfed Bhawan, Panjari, Shimla-171005 Himachal Pradesh	<i>For Kind information</i>
<b>3. Director (Technical)</b> Punjab State Transmission Corporation Ltd. Head Office, The Mall, Patiala 147001, Punjab	<i>For Kind information</i>



**Western Region**

1. Implementation of 1 no. 400kV bay at Kallam PS for interconnection of RE project of Torrent Solar Power Private Limited (TSPPL)

Sl. No.	Scope of the Transmission Scheme	Item Descriptions	Implementation Timeframe.
1.	400kV line bay at Kallam PS for interconnection of Torrent Solar Power Pvt. Ltd. (TSPPL)	• 400kV line bay (including associated tie bay)- 1no.	30.12.2024
<b>Total Estimated Cost:</b>			<b>₹ 17.1 Crore</b>

**Northern Region**

2. Augmentation of transformation capacity at 400/220kV Nalagarh S/s by 400/220kV, 1x500 MVA ICT (4th)

Sl. No.	Scope of the Transmission Scheme	Item Description	Implementation Timeframe.
1.	Augmentation of transformation capacity at 400/220kV Nalagarh S/s by 400/220 kV, 1x500 MVA (4 <sup>th</sup> ) ICT along with associated transformer bays*  *1 no. of 400kV (AIS) (including associated tie bay) and 1 no. of 220kV (GIS) transformer bay along with GIS duct for interconnection of 220kV bay with ICT	• 500 MVA, 400/220 kV ICT-1 no. • 400 kV ICT bay (including associated tie bay)- 1 no. • 220 kV ICT bay - 1 no. (GIS)	24 months from the issue of OM by CTUIL (refer note 1).
<b>Total Estimated Cost:</b>			<b>₹ 63.08 Crore</b>

Note: -

1. Best efforts shall be carried out to implement the transmission scheme within 18 months from the issue of OM by CTUIL
3. Augmentation of transformation capacity at 400/220kV Bikaner-II PS by 400/220kV, 1x500 MVA ICT (3rd)

Sl. No.	Scope of the Transmission Scheme	Item Description	Implementation Timeframe
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1	Augmentation of transformation capacity at 400/220kV Bikaner-II PS by 400/220 kV, 1x500 MVA (3 <sup>rd</sup> ) ICT along with associated transformer bays*  *1 no. of 400kV (AIS) (including associated tie bay) and 1 no. of 220kV (AIS) transformer bay.	<ul style="list-style-type: none"> <li>• 500 MVA, 400/220 kV ICT-1 no.</li> <li>• 400 kV ICT bay (including associated tie bay)- 1 no.</li> <li>• 220 kV ICT bay – 1 no.</li> </ul>	18 months from the issue of OM by CTUIL.
<b>Total Estimated Cost:</b>			<b>₹ 55.82 Crore</b>

### Eastern Region

#### 4. Eastern Region Expansion Scheme-XXXV (ERES-XXXV)

<i>Sl. No.</i>	<i>Scope of the Transmission Scheme</i>	<i>Item Description</i>	<i>Implementation timeframe</i>
1	Switching arrangement within the Rangpo (POWERGRID) GIS S/s premises such that Rangpo-Melli and Rangpo-Rangit 132kV S/c lines can be bypassed at Rangpo S/s end, such that the lines can either be terminated at Rangpo 132kV bus or bypassed, as per operational requirement.	<ul style="list-style-type: none"> <li>• 132kV, 1250A, SF6, 3-Ph GIB – Approx. 300m length</li> <li>• 3 Phase, 1250A, SF6 to Air bushing – 02 Sets.</li> <li>• 132kV, 1250A, 31.5kA, 3-Ph, AIS Disconnecter with one E/S – 01 no.</li> <li>• 132kV BPI AIS – Approx. 05 nos.</li> </ul>	18 months from the issue of OM by CTUIL.
<b>Total Estimated Cost:</b>			<b>₹ 7.23 Crore</b>





## Form-I

## 1. Particulars of the Applicant

SI No	Particulars	Particulars
1.	Name of the Petitioner / Applicant	<b>POWERGRID Bikaner Transmission System Limited</b> (A 100% wholly owned subsidiary of Power Grid Corporation of India Limited)
2.	Status	Public Limited Company
3.	Subject Matter	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 Bikaner Transmission System Ltd. for <i>"Implementation of 1 no. of 220 kV line bay at 400/220 kV Bikaner-II PS for interconnection of solar project (M/s NHPC Ltd.)"</i> , <i>"Implementation of 2 no. of 220 kV line bays at 400/220 kV Bikaner-II PS for interconnection of RE power park of M/s ALF Solar Amarsar Pvt. Ltd."</i> , <i>"Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-1) (Bikaner Complex) - Part-E"</i> and <i>"Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220 kV, 1X500 MVA ICT (3rd)"</i> through "Regulated Tariff Mechanism" (RTM) mode.
4.	Address of the Petitioner/ Applicant	B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi - 110 016



SI No	Particulars	Particulars
5.	Name, Designation & Address of the contact person	Sh. Upendra Singh Project Incharge, <b>POWERGRID Bikaner Transmission System Limited</b> (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
6.	Contact Tele. No.	9001894202
7.	Fax No.	
8.	Email ID	
9.	Place of Incorporation / Registration	New Delhi, India
10.	Year of Incorporation / Registration	2020
11.	Details of Fees Remitted	
	a) UTR No.	SBIN523100183641 (Already paid during filing of initial petition, viz. 181/TL/2023)
	b) Date of Remittance	10.04.2023
	c) Amount Remitted	1,00,000
	Signature of the Authorized Signatory with Date	Upendra Singh Date :



## 2. Particulars of the Project

Details of Elements under present application for Grant of Transmission License

i. Transmission Scheme: Implementation of 1 no. of 220 kV line bay at 400/220 kV Bikaner-II PS for interconnection of solar project (M/s NHPC Ltd.)

Sl. No.	Name (location)	Voltage Level(s) (kV)	Transformer (Nos. and MVA capacity)	Reactive / capacitive compensation (device with MVAR capacity)	No. of Bays
1	Bikaner-II PS	1 no. of 220 kV line bay at 400/220 kV Bikaner-II PS for interconnection of RE project (NHPC Ltd.)	-	-	220 kV line bay - 1 No.
2	Bikaner-II PS	Implementation of 220 kV bus sectionalizer along with bus coupler and transfer bus coupler at 400/220kV Bikaner-II PS	-	-	<ul style="list-style-type: none"> <li>• 220 kV bus sectionalizer bay - 1 Set</li> <li>• 220 kV bus coupler bay - 1 No.</li> <li>• 220 kV transfer bus coupler bay - 1 No.</li> <li>• Bus works for future bays (4 nos. of line bays &amp; 3 nos. of ICT bays)</li> </ul>

ii. Transmission Scheme: Implementation of 2 no. of 220 kV line bays at 400/220 kV Bikaner-II PS for interconnection of RE power park of M/s ALF Solar Amarsar Pvt. Ltd.



Sl. No.	Name (location)	Voltage Level(s) (kV)	Transformer (Nos. and MVA capacity)	Reactive/capacitive compensation (device with MVAR capacity)	No. of Bays
1	Bikaner-II PS	2 no. of 220 kV line bays at 400/220 kV Bikaner-II PS for interconnection of RE power park of M/s ALF Solar Amarsar Pvt. Ltd.	-	-	220 kV line bay - 2 No.

iii. Transmission Scheme: Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-1) (Bikaner Complex) - Part-E

Sl. No.	Name (location)	Voltage Level(s) (kV)	Transformer (Nos. and MVA capacity)	Reactive/capacitive compensation (device with MVAR capacity)	No. of Bays
1	Bikaner-II PS	Augmentation with 5X500 MVA, 400/220 kV ICTs at Bikaner-II PS	400/220 kV, 500 MVA ICT - 5 nos.	-	<ul style="list-style-type: none"> <li>• 400 kV ICT bays - 5 nos.</li> <li>• 220 kV ICT bays - 5 nos.</li> </ul>

iv. Transmission Scheme: Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-1) (Bikaner Complex) Part-E

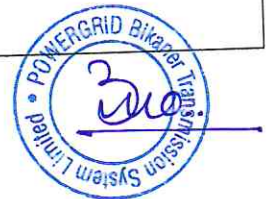


Sl. No.	Name (location)	Voltage Level(s) (kV)	Transformer (Nos. and MVA capacity)	Reactive/capacitive compensation (device with MVAR capacity)	No. of Bays
1	Bikaner-II PS	Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220 kV, 1X500 MVA ICT (3rd) along with associated transformer bays*  *1 no. of 400kV (AIS) (including associated tie bay) and 1 no. of 220 kV (AIS) transformer bay	400/220 kV, 500 MVA ICT - 1 no.	-	<ul style="list-style-type: none"> <li>• 400 kV ICT bay (including associated tie bay) - 1 no.</li> <li>• 220 kV ICT bay - 1 no.</li> </ul>

(a) Commissioning schedule

i. Transmission Scheme: Implementation of 1 no. of 220 kV line bay at 400/220 kV Bikaner-II PS for interconnection of solar project (M/s NHPC Ltd.)

Sl.No.	Scheme / Transmission Works	Completion Target
i	1 no. of 220 kV line bay at 400/220 kV Bikaner-II PS for interconnection of RE project (NHPC Ltd.)	15 months from the issue of OM by CTUIL, i.e. 27.02.2024
ii	Implementation of 220 kV bus sectionalizer along with bus coupler and transfer bus coupler at 400/220kV Bikaner-II PS	15 months from the issue of OM by CTUIL, i.e. 27.02.2024



ii. Transmission Scheme : Implementation of 2 no. of 220 kV line bays at 400/220 kV Bikaner-II PS for interconnection of RE power park of M/s ALF Solar Amarsar Pvt. Ltd.

Sl.No.	Scheme / Transmission Works	Completion Target
i	2 no. of 220 kV line bays at 400/220 kV Bikaner-II PS for interconnection of RE power park of M/s ALF Solar Amarsar Pvt. Ltd.	30.06.2024

iii. Transmission Scheme : Transmission system at Bikaner-II PS for evacuation of power from Rajasthan REZ Ph-IV (Part-1) (Bikaner Complex) - Part-E

Sl.No.	Scheme / Transmission Works	Completion Target
i	Augmentation with 5X500 MVA, 400/220 kV ICTs at Bikaner-II PS	To be taken up for evacuation requirement beyond 2000 MW at 220 kV level of Bikaner-II PS, with implementation timeframe matching with schedule of RE generation or 18 months from date of allocation, whichever is later

iv. Transmission Scheme : Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220 kV, 1X500 MVA ICT (3<sup>rd</sup>)

Sl.No.	Scheme / Transmission Works	Completion Target
i	Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220 kV, 1X500 MVA ICT (3 <sup>rd</sup> ) along with associated transformer bays	18 months from the issue of OM by CTUIL, i.e. 07.12.2024

(b) Identified Long-Term Transmission Customers of the Project:

- 1 U.P. Power Corporation Limited
- 2 Haryana Power Purchase Centre
- 3 Punjab State Power Corporation Limited
- 4 Ajmer Vidyut Vitran Nigam Limited



- 5 Jodhpur Vidyut Vitran Nigam Limited
- 6 Jaipur Vidyut Vitran Nigam Limited
- 7 Power Development Deptt., Govt. of J&K
- 8 North Central Railway
- 9 BSES Yamuna Power Limited
- 10 BSES Rajdhani Power Limited
- 11 TATA Power Delhi Distribution Limited
- 12 New Delhi Municipal Council
- 13 Electricity Wing of Engineering Department, Union Territory of Chandigarh
- 14 Uttarakhand Power Corporation Limited
- 15 Himachal Pradesh State Electricity Board
- 16 Tata Power Green Energy Limited

(c) Any other relevant information : Nil

3. Transmission charges : To be determined u/s 61, 62 of EA 2003

- |   |   |                |
|---|---|----------------|
| <p>(a) Recommendation of selection<br/>by the empowered committee</p> <p>(b) Evaluation report made public<br/>by the Bid Process Coordinator</p> | } | Not applicable |
|---|---|----------------|

Place: Bikaner  
Date: 11-07-2023

  
 Represented by Project In-charge  
**POWERGRID Bikaner Transmission System Limited**  
Project In-charge  
**POWERGRID Bikaner Transmission System Ltd. (PBTSL)**