

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. (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, "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 "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.)" through "Regulated Tariff Mechanism" (RTM) 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 ED (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 14th Floor, Shakti Bhawan Extn. Building, 14,
Ashok Marg, Lucknow

.....RESPONDENT(S)

And Others



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


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

Place: Bikaner

Date: 15-09-2022

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VS.

Uttar Pradesh Power Corporation Limited (UPPCL)

Import Export & Payment Circle 14th Floor, Shakti Bhawan Extn. Building, 14,

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And Others



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 220 kV bays for RE generators and 400/220kV ICTs at Bikaner-II PS", "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 "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.)" through "Regulated Tariff Mechanism" (RTM) mode may please be registered.

Applicant

[Signature]

POWERGRID Bikaner Transmission System Limited

Project In-charge

POWERGRID Bikaner Transmission System Ltd. (PBTSL)

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

[Signature]

Represented by

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

Project Incharge, POWERGRID Bikaner Transmission System Limited

Place: Bikaner

Date: 15-09-2022

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Uttar Pradesh Power Corporation Limited (UPPCL)
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And Others



MEMO OF PARTIES

POWERGRID Bikaner Transmission System Limited

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Registered office: B-9, Qutab Institutional Area, Katwaria Sarai,

New Delhi 110 016

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

.....**APPLICANT**

VERSUS

1.	Chairman, U.P. Power Corporation Limited (UPPCL). Import Export Payment Circle, 14th Floor, Shakti Bhawan Extn. Building, 14 - Ashok Marg, Lucknow.	....Respondent
2.	Chief Engineer, Haryana Power Purchase Centre Shakti Bhawan Energy Exchange Room No. 446, Top Floor, Sector - 6, Panchkula - 134 109	....Respondent
3.	Chairman & Managing Director, Punjab State Power Corporation Limited Shed No. T-1 A, Thermal Design, Near 22 No. Phatak, Patiala.	....Respondent
4.	Chairman, Jaipur Vidyut Vitran Nigam Limited Vidyut Bhawan, Janpath, Jaipur - 302 005.	....Respondent
5.	Chairman, Ajmer Vidyut Vitran Nigam Limited Vidyut Bhawan, Panchsheel Nagar, Makarwali Road, Ajmer - 305004.	....Respondent



6.	Chairman, Jodhpur Vidyut Vitran Nigam Limited New Power House, Industrial Area, Jodhpur - 342003.	....Respondent
7.	Principal Secretary (Power), Power Development Deptt., Govt. of J&K Govt. of Jammu & Kashmir SLDC Building, 1st Floor, Gladani Power House, Narwal, Jammu.	....Respondent
8.	Chief Electrical Distribution Engineer, North Central Railway Subedar Ganj, Allahabad.	....Respondent
9.	Chief Executive Officer, BSES Yamuna Power Limited 2nd Floor, B Block, Shakti Kiran Bldg., Karkardooma, New Delhi - 110092.	....Respondent
10.	Chief Executive Officer, BSES Rajdhani Power Limited BSES Bhawan, 2nd Floor, B Block, Nehru Place, New Delhi - 110 019.	....Respondent
11.	CEO & ED, TATA Power Delhi Distribution Limited NDPL House, Hudson Lines, Kingsway Camp, Delhi - 110 009	....Respondent
12.	Director (Commercial), New Delhi Municipal Corporation NDMC Palika Kendra, Sansad Marg, New Delhi - 110 001.	....Respondent
13.	Superintending Engineer Electricity Wing of Engineering Dept., Union Territory of Chandigarh, Electricity OP Circle, UT - Chandigarh.	....Respondent



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

2/10

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

-6-

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- 7 -



AFFIDAVIT

I, Upendra Singh, S/o Lt. R.D Singh, aged about 57 years working at Villa No 356, /Umaid Heritage, Ratnada, Jodhpur -342006 and presently at B-129, Kanta Khaturiya 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.



U.S.

Authorized Signatory
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: 15-09-2022

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 15 Day of September 2022 at Bikaner.

ATTESTED

U.S.
CENTRAL NOTARY
BIKANER (Raj.)

U.S.

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

15 SEP 2022

-8-

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And Others



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 detailed scope of TBCB Project is as under:

Sr.	Name of the Transmission Element	Scheduled COD in months from Effective Date 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.	18 Months from Effective Date or June 2022, whichever is later



Sr.	Name of the Transmission Element	Scheduled COD in months from Effective Date in months from Effective Date
	Switching equipment for 400 kV switchable line reactor - 4 nos. Future provisions: Space for 400/220kV 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	
2.	Bikaner-II PS - Khetri 400 kV 2xD/c line (Twin HTLS* on M/c.Tower)	
3.	1x80MVA Fixed Line reactor on each circuit at Khetri end of end of Bikaner -II - Khetri 400 kV 2xD/c Line - 4 nos.	
4.	4 no. 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 no. of 400 kV line bays at Khetri for Khetri - Bhiwadi 400kV D/c line	
7.	2 no of 400 kV(GIS) line bays at Bhiwadi for Khetri- Bhiwadi 400 kV D/c line	
8.	STATCOM at Bikaner-II S/s ± 300 MVA, 2x125 MVA MSC, 1x125 MVA MSR	

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

3. In the meanwhile, Central Transmission Utility of India Limited (CTUIL) has issued an Office Memorandum dated 16.11.2021, wherein Applicant has been nominated to



implement the scheme "Implementation of 220 kV bays for RE generators and 400/220kV ICTs at Bikaner-II PS" under Regulated Tariff Mechanism (RTM) mode comprising the following elements :

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: Mar' 2023 1 no. of bay: Apr' 2023 2 no. of bays: Dec' 2023

Copy of CTU's OM dated 16.11.2021 is annexed and marked as Annexure -3.

3A. That, subsequently the Central Transmission Utility of India Limited (CTUIL) has issued an Office Memorandum dated on 26.04.2022, wherein the Petitioner has been nominated to implement additional scope of work, namely, 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. The detailed scope of work as provided in Annexure-I to the Office Memorandum dated 26.04.2022 is as under:-

Northern Region:

1. Implementation of 1 no. of 400 kV line bay at 400/220kV Bikaner-II PS for interconnection of 1000 MW Solar Project of SJVN Ltd.:



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Sl. 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.	01-10-2023

Copy of CTU's OM dated 26.04.2022 is annexed and marked as Annexure -3A.

3B. That Central Transmission Utility of India Limited (CTUIL) vide its Office Memorandum dated 25.08.2022 nominated the Petitioner to implement additional scope of work, namely, 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.). The detailed scope of work as provided in Annexure-I to the Office Memorandum dated 25.08.2022 is as under:

Northern Region

3. Implementation of 2 nos. of 220 kV line bays at 400/220kV Bikaner-II PS for interconnection of solar projects (ACME Solar Holdings Pvt Ltd., Prerak Greentech Pvt. Ltd.):

Sl 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	220kV Bus Sectionalizer Bay-1 Set 220 kV Bus Coupler Bay	



with bus coupler and transfer bus coupler at 400/220kV Bikaner-II PS.	-1 No. 220 kV Transfer Bus Coupler Bay-1 No. Bus extension works for future Bays (3Nos. of Line Bays & 3 Nos. of ICT Bays) -1Set	
Total Estimated Cost:		INR 38.56 Crore

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.

Copy of CTU's OM dated 25.08.2022 is annexed and marked as Annexure -3B.

4. That the instant Application is for grant of separate transmission license to the Applicant for "Implementation of 220 kV bays for RE generators and 400/220kV ICTs at Bikaner-II PS" , "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 "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.)" scheme under RTM mode. 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:...



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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."

5. 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 220 kV bays for RE generators and 400/220kV ICTs at Bikaner-II PS", "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 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.) scheme under RTM mode.
6. It is submitted that upon grant of the separate Transmission license, the Applicant shall implement the aforementioned schemes under the RTM mode. The estimated cost of the Project- "Implementation of 220 kV bays for RE generators and 400/220kV ICTs at Bikaner-II PS" as per the DPR is Rs. 90.48 Cr.(including IDC of Rs.2.96 Cr.). The estimated cost of the Project- "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" scheme is Rs. 5.76 Cr. (including IDC of Rs 0.18 Cr.). 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 solar projects (ACME Solar Holdings Pvt. Ltd., Prerak Greentech Pvt. Ltd.)" scheme as per CTUIL OM dated 25.08.2022 is Rs. 38.56 Crores.
7. On completion of the "Implementation of 220 kV bays for RE generators and 400/220kV ICTs at Bikaner-II PS" scheme, "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 "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.)"



Handwritten signature/initials.

Ltd.)", 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.

8. 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:-

a) Revised Duly filled in Form 1 for grant of transmission License in accordance with the Transmission License Regulations is enclosed herewith and marked as Annexure-4.

b) 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.

c) The application has been hosted on the website and is accessible on www.powergrid.in/subsidiaries in compliance with Regulation 7 (4), Transmission License Regulations.

d) 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.

e) The application has also been marked to CTUIL as per Regulation 7 (6) of Transmission License Regulations.

f) Appropriate fee for grant of transmission license stands paid.

9. 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 the "*Implementation of 220 kV bays for RE generators and 400/220kV ICTs at Bikaner-II PS*", "*Implementation of*

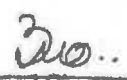


no. of 400 kV line bay at 400/220 kV Bikaner-II PS for interconnection of 1000 MW Solar Project of SJVN Ltd" and "Implementation of 2 no. of 220 kV line bays at 400/220 kV Bikaner-II PS for interconnection of solar projects (ACME Solar Holdings Pvt. Ltd., Prerak Greentech Pvt. Ltd.)" scheme.

10. PRAYER

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

- a) Grant separate Transmission License to the Applicant for transmission scheme "Implementation of 220 kV bays for RE generators and 400/220kV ICTs at Bikaner-II PS" and "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 "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.)" scheme under RTM mode with detailed scope of works as per para 3 and 3A and 3B above.
- b) Allow the Applicant liberty to approach the Hon'ble Commission with actual cost for determination of transmission charges for the aforementioned additional scope in accordance with Section 61, 62 of the Electricity Act, 2003 and as per 8 (2) 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
Project In-charge
POWERGRID Bikaner Transmission System Ltd (PBTSLS)

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

Place: Bikaner

Date: 15-09-2022

(16A)

**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: 15th 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,
9th 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

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POWERGRID Bikaner Transmission System Ltd.

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	18 Months from the 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	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	

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Bikaner Transmission System Ltd.

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

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POWERGRID Bikaner Transmission System Ltd

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

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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

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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.

Order in Petition No. 99/TL/2021

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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

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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;

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- (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

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POWERGRID Bharat Transmission System Ltd.

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

Order in Petition No. 99/TL/2021

CERC Website S.No. 362/2021

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Dt: 11-04-2022

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POWERGRID Bikaner Transmission System

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सत्यमेव जयते
GOVERNMENT OF INDIA
MINISTRY OF CORPORATE AFFAIRS

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

Certificate of Incorporation pursuant to change of name
[Pursuant to rule 29 of the Companies (Incorporation) Rules, 2014]

Corporate Identification Number (CIN): 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.



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

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POWERGRID Bikaner Transmission System Ltd.

सेंट्रल ट्रांसमिशन यूटिलिटी ऑफ इंडिया लिमिटेड
CENTRAL TRANSMISSION UTILITY OF INDIA LIMITED
 (Wholly Owned Subsidiary of Power Grid Corporation of India Limited)
 (A Government of India Enterprise)

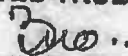
Ref.: C/CTU/AI/00/1st CCTP16th November 2021**OFFICE MEMORANDUM**

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 implementation of the following ISTS costing less than or equal to Rs.100 Cr. in line with MoP office order dated 28.10.2021 under the Regulated Tariff Mechanism (RTM) made by the implementing agencies as indicated in the table below:

Sl.	Name of scheme	Implementing Agency
Northern Region		
1.	Implementation of 220 kV bays for RE generators and 400/220kV ICTs at Bikaner-II PS	Bikaner-II Bhiwadi Transco Ltd. (a subsidiary of Power Grid Corporation of India Ltd.) (now known as POWERGRID Bikaner Transmission System Ltd.)
2.	Augmentation of transformation capacity at 400/220 kV Ludhiana (PG) Substation	Power Grid Corporation of India Ltd.
3.	Augmentation of Transformation capacity at 400/220 kV Kurukshetra (PG) & Patiala (PG) Substations	Power Grid Corporation of India Ltd.
Southern Region		
4.	Requirement of 765 kV spare (1-Ph) Reactors unit at 765kV Warangal New (Part-A)	Warora Kumool Transmission Ltd. (a subsidiary of Adani Transmission Ltd.)
5.	Requirement of 765 kV spare (1-Ph) Reactors unit at 765kV Chikaluripeta (Part-B)	POWERGRID Southern Interconnector Transmission System Ltd. (a subsidiary of Power Grid Corporation of India Ltd.)
6.	Scheme to bypass NGR to use Switchable Line Reactor as Bus Reactor at 765kV Chikaluripeta	POWERGRID Southern Interconnector Transmission System Ltd. (a subsidiary of Power Grid Corporation of India Ltd.)
7.	1 no. 400 kV bay at 765/400 kV Kumool (New) Substation	Power Grid Corporation of India Ltd.
Eastern Region		
8.	Eastern Region Expansion Scheme-XXVI (ERES-XXVI)	Power Grid Corporation of India Ltd.
North Eastern Region		
9.	Additional scope under NERSS-XIII scheme	Power Grid Corporation of India Ltd.

Registered Office: Plot No.2, Sector-29, Gurugram, Haryana-122 001 CIN U40100HR2020GOI091857, Tel.: 0124-2571700-719
 पंजीकृत कार्यालय: "प्लॉट नंबर 2, सेक्टर -29, गुरुग्राम -122001 CIN U40100HR2020GOI091857, दूरभाष: 0124-2571700-719

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Western Region		Power Grid Corporation of India Ltd.
10.	Transmission Network Expansion in Gujarat to increase its ATC from ISTS (Part-A)	

Detailed scope of works for the above schemes, as approved by CTU are given at Annexure-I.

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

This issues with the approval of Competent Authority.



(Partha Sarathi Das)
Sr. General Manager

Encl: as stated.

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POWERGRID Bikaner Transmission System Ltd

To:

<p>1. Director (Projects) Power Grid Corporation of India Ltd., Saudamini, Plot No. 2, Sector-29, Gurgaon- 122 001</p>	<p>2. CEO M/s POWERGRID Southern Interconnector Transmission Ltd. (PSITL) (a subsidiary of Power Grid Corporation of India Ltd.) B-9, Qutub Institutional Area, Katwaria Sarai, New Delhi – 110016</p>
<p>3. Shri Ajit Ranjan N R Das Project Incharge M/s Bikaner-II Bhiwadi Transco Ltd. (BBTL) (a subsidiary of Power Grid Corporation of India Ltd.) [POWERGRID Bikaner Transmission System Limited] C/o ED (TBCB) Power Grid Corporation of India Ltd. Saudamini, Plot No. 2, Sector-29, Gurgaon- 122 001</p>	<p>4. Shri Ankesh Kumar M/s Warora Kurnool Transmission Ltd. (WKTL) (a subsidiary of Adani Transmission Ltd.) Adani Corporate House, Shantigram, S.G. Highway, Ahmedabad -382421</p>

Copy to:

<p>1. Sh. Ishan Sharan Chief Engineer & Member Secretary (NCT) Central Electricity Authority Sewa Bhawan, R.K.Puram, New Delhi-110 066.</p>	<p>2. Sh. Goutam Ghosh Director (Trans) Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi 110 001</p>
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POWERGRID Bikaner Transmission System Ltd.

Northern Region:**1. 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 kV line bays - 4 nos.	1 no. of bay: Mar' 2023 1 no. of bay: Apr' 2023 2 no. of bays: Dec' 2023
Total Estimated Cost:		70 Cr.	

2. Augmentation of transformation capacity at 400/220 kV Ludhiana (PG) Substation:

S. No.	Scope of the Transmission Scheme	Capacity	Implementation timeframe
1	Replacement of 1x315 MVA, 400/220 kV ICT by 1x500 MVA, 400/220kV ICT at Ludhiana (PG) S/s	400/220 kV, 500 MVA ICT - 1 no.	15 months from issue of OM by CTU
Total Estimated Cost		14 Cr.	

3. Augmentation of Transformation capacity at 400/220 kV Kurukshetra (PG) & Patiala (PG) Substations:

S. No.	Scope of the Transmission Scheme	Capacity	Implementation timeframe
1	1x 500 MVA, 400/220 kV ICT at Kurukshetra (PG) S/s	400/220kV 500 MVA ICT: 1 no 400 kV ICT bay - 1 no. 220 kV ICT bay - 1 no.	15 months from issue of OM by CTU
2	1x 500 MVA, 400/220 kV ICT at Patiala (PG) S/s	400/220kV 500 MVA ICT: 1 no 400 kV ICT bay - 1 no. 220 kV ICT bay - 1 no.	May'23
Total Estimated Cost		54 Cr.	

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 POWERGRID Bikaner Transmission System Ltd.

Southern Region

4. Requirement of 765 kV spare (1-Ph) Reactors units at 765kV Warangal New (Part-A):

SI. No	Scope of the Transmission Scheme	Capacity	Implementation timeframe
Part-A	One spare unit (1-Ph) of 80 MVAR reactor at 765 kV Warangal New along with necessary arrangement to take spare reactor units into service as per the operational requirement.	80 MVAR (1-Ph)	15 months from issue of OM by CTU
	Estimated Cost (Rs Crores)	5.5 Cr.	

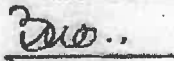
5. Requirement of 765 kV spare (1-Ph) Reactors units at 765kV Chilkaluripeta (Part-B):

SI. No	Scope of the Transmission Scheme	Capacity	Implementation timeframe
Part-B	One spare unit (1-Ph) of 80 MVAR reactor at 765 kV Chilkaluripeta along with necessary arrangement to take spare reactor units into service as per the operational requirement.	80 MVAR (1-Ph)	15 months from issue of OM by CTU
	Estimated Cost (Rs Crores)	5.5 Cr.	

6. Scheme to bypass NGR to use Switchable Line Reactor as Bus Reactor at 765kV Chilkaluripeta

SI. No	Scope of the Transmission Scheme	Capacity	Implementation timeframe
1	NGR bypass arrangement to use switchable line reactors (240 MVAR each) as bus reactors installed on each circuit of Vemagiri – Chilkaluripeta 765 kV D/c line at Chilkaluripeta 765 kV S/s	NGR bypass arrangement	6 months from issue of OM by CTU
2	NGR bypass arrangement to use switchable line reactors (240 MVAR each) as bus reactors installed on each circuit of Chilkaluripeta – Cuddapah	NGR bypass arrangement	6 months from issue of OM by CTU

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POWERGRID Bikaner Transmission System Ltd.

	765 kV D/c line at Chikaluripeta 765 kV S/s..	
	Total Estimated Cost (Rs Lakhs)	32 Lakhs (approx.)

7. 1 no. 400 kV bay at 765/400 kV Kurnool (New) Substation

Sl. No	Scope of the Transmission Scheme	Capacity /km	Implementation timeframe
1	1 no. of 400 kV bay at 765/400 kV Kurnool (New)	400kV line bay-1 no	Oct'22
	Total Estimated Cost (Rs Crores)	9 Cr.	

Eastern Region

8. Eastern Region Expansion Scheme-XXVI (ERES-XXVI):

Sl. No.	Scope of the Transmission Scheme	Capacity /km	Implementation timeframe
1.	Installation of 500 MVA, 400/220kV ICT (3 rd) at Ranchi (PG)	400/220 kV, 500 MVA ICT- 1 no. . 400 kV ICT bays- 1 nos. 220 kV ICT bays- 1 nos.	15 months from issue of OM by CTU
	Total Estimated Cost (Rs. Crore)	27 Cr.	

North Eastern Region

9. Additional scope under NERSS-XIII scheme

Sl. No.	Scope of the Transmission Scheme	Capacity /km	Implementation timeframe
1.	CT of 132kV Imphal (POWERGRID) – Imphal (Manipur) bay-2 to be upgraded to 1200 A at Imphal (POWERGRID) S/s	NIL	In matching timeframe to SCOD of NERSS-XIII, i.e. Sep'2022
	Total Estimated Cost (Rs. Lakhs)	10 lakhs (approx.)	

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 POWERGRID Bikaner Transmission System Ltd

Western Region

10. Transmission Network Expansion in Gujarat to increase its ATC from ISTS (Part-A)

Sl. No.	Scope of the Transmission Scheme	Capacity /km	Implementation timeframe
1.	Augmentation of transformation capacity at Vadodara 765/400/220kV S/s by 1x1500MVA, 765/400kV ICT (3rd) along with associated 765kV ICT bay*	765/4000 kV, 1500 MVA ICT- 1 no. 765 kV ICT bays- 1 nos.	Apr'22
	Total Estimated Cost (Rs. Crore)	70 Cr. (approx.)	

*Out of the 2 nos. 400kV line bays already constructed by POWERGRID for DGEN - Vadodara line, 1no. line bay to be utilized for 765/400kV ICT (3rd) at Vadodara.

Date: 11-04-2022

ATTESTED TRUE COPY

[Signature]

Authorised Signatory

POWERGRID Bilateral Transmission System Ltd

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/00/5th CCTP

26th April 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
Northern Region		
1.	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.	POWERGRID Bikaner Transmission System Ltd. (a subsidiary of Power Grid Corporation of India Ltd. [erstwhile known as Bikaner-II Bhiwadi Transco Ltd.])
2.	Augmentation of Transformation capacity at Bhiwadi (PG) S/s by 1x315MVA, 400/220kV ICT (3rd).	Power Grid Corporation of India Ltd.
Eastern Region		
3.	Eastern Region Expansion Scheme-XXVII	Power Grid Corporation of India Ltd.
North Eastern Region		
4.	North Eastern Region Expansion Scheme-XVII (NERES-XVII)	Power Grid Corporation of India Ltd.

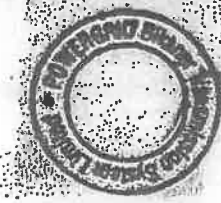
Detailed scope of works for the above schemes, as approved by CTU are given at Annexure-I.

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

This issues with the approval of Competent Authority.


(Partha Sarathi Das)
Sr. General Manager

Encl: as stated.



To:

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

Copy to:

1. Shri Ravinder Gupta
Chief Engineer & Member Secretary
(NCT)
Central Electricity Authority
Sewa Bhawari, 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

2/10



Annexure-I

Northern Region:

1. Implementation of 1 no. of 400 kV line bay at 400/220kV Bikaner-II PS for Interconnection of 1000 MW Solar Project of SJVN Ltd.:

Sl. No.	Scope of the Transmission Scheme	Capacity/km	Implementation timeframe
1	1 no. of 400 kV line bay at 400/220 kV Bikaner-II S/s for interconnection of 1000 MW Solar Project of SJVN Ltd.	• 400 kV line bay – 1 No.	01-10-2023
Total Estimated Cost:			INR 11.62 Crore.

2. Augmentation of Transformation capacity at Bhinmal (PG) S/s by 1x315 MVA, 400/220kV ICT. (3rd).

Sl. No.	Scope of the Transmission Scheme	Capacity/km	Implementation timeframe
1.	Shifting of 1x315 MVA, 400/220kV ICT spared from Ludhiana (PG) s/s and installation of the same at Bhinmal (PG) s/s along with the implementation of associated ICT bays at Bhinmal (PG) S/s.	• 400kV ICT Bay – 1 No. • 220kV ICT Bay – 1 No.	12 months from the issue of OM by CTUIL
Total Estimated Cost:			INR 17.61 Crore

Eastern Region:

3. Eastern Region Expansion Scheme-XXVII (ERES-XXVII)

Sl. No.	Scope of the Transmission Scheme	Capacity/km	Implementation timeframe
1.	Installation of 420kV, 1x125MVAR bus reactor along with associated bay at Alipuduar (POWERGRID) S/s.	• Bus reactor: 420kV, 125MVAR – 1 no. • Bus reactor bay 400kV – 1 no.	18 months from the issue of OM by CTUIL
2.	*Installation of 420kV, 63MVAR switchable line reactor at Kahalgaon (NTPC) end, one each in both circuits of Kahalgaon (NTPC) – Durgapur (POWERGRID) 400kV D/c line.	• Line reactor: 420kV, 63MVAR – 2 no. • Line reactor bay 400kV – 2 no.	18 months from the issue of OM by CTUIL
Total Estimated Cost:			INR 46.62 Cr.

Note:

- a) *NTPC to provide space at Kahalgaon end for installation of switchable line reactor. NTPC vide email dated 23-02-2022 has confirmed regarding availability of space for installation of 63MVAR switchable line reactors in Kahalgaon – Durgapur 400 kV D/c line and associated AIS equipment.



North Eastern Region:

4. North Eastern Region Expansion Scheme-XVII (NERES-XVII)

Sl. No.	Scope of the Transmission Scheme	Capacity/km	Implementation timeframe
1	Upgradation of 33kV system of 400/132/33kV Imphal (POWERGRID) S/s to handle 20MW per feeder. Upgradation/ modification of 33kV panels of 4 nos. outgoing feeders including CT, change of suitable HT cables & accessories and structure, etc. as required.	-	09 months from the issue of OM by CTUIL
Total Estimated Cost:			INR 2 Crore (Approx.)

2/10..



सेंद्रल 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.: G/CTU/AI/00/7th CCTP

25th August 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
Western Region		
1.	Augmentation of Transformation Capacity by 1x500 MVA, 400/220kV ICT (3 rd) at Raigarh (PG) substation.	Power Grid Corporation of India Ltd.
2.	Western Region Expansion Scheme-XXX (WRES-XXX).	Power Grid Corporation of India Ltd.
Northern Region		
3.	Implementation of 2 nos. of 220 kV line bays at 400/220kV Bikaner-II PS for interconnection of solar projects (ACME Solar Holdings Pvt. Ltd., Prerak Greentech Pvt. Ltd.).	POWERGRID Bikaner Transmission System Ltd. [a subsidiary of Power Grid Corporation of India Ltd. (erstwhile known as Bikaner-II Bhiwadi Transco Ltd.)]
Southern Region		
4.	Augmentation of Transformation Capacity by 1x500 MVA, 400/230kV ICT (4 th) at Arasur substation.	Power Grid Corporation of India Ltd.
5.	Augmentation of Transformation Capacity by 1x500 MVA, 400/230kV ICT (4 th) at Hosur substation.	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.

(Partha Sarathi Das)
Sr.General Manager

Encl: as stated.

-39-

To:

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

Copy to:

<p>1. Shri Ravinder Gupta Chief Engineer & 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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Annexure-I

Western Region

1. Augmentation of Transformation Capacity by 1x500 MVA, 400/220kV ICT (3rd) at Raigarh(PG) substation:

Sl. No.	Scope of the Transmission Scheme	Capacity/km	Implementation timeframe
1.	Augmentation of Transformation Capacity by 1x500 MVA, 400/220 kV ICT (3 rd) at Raigarh(PG) S/s along with associated ICT bays	<ul style="list-style-type: none">• 500 MVA, 400/220 kV ICT – 1 No.• 400kV ICT bay – 1 No.• 220kV ICT bay – 1 No.	15 months from the issue of OM by CTUIL
Total Estimated Cost:			INR 45.52 Crore

2. Western Region Expansion Scheme-XXX (WRES-XXX):

Sl. No.	Scope of the Transmission Scheme	Capacity /km	Implementation timeframe
1.	Bypassing of Parli(PG) – Parli(M) 400kV D/c line (~5km.) and Parli(PG) – Parli(New) 400kV D/c (quad) line (~18km.) at the outskirts of the Parli(PG) S/s so as to form Parli(M) – Parli(New) 400kV D/c direct line (refer to note a)	Line Bypassing work	12 months from the issue of OM by CTUIL.
2.	Reconductoring of Parli(PG) – Parli(M) 400kV D/c line section of above line (at Sl. 1) with twin HTLS conductor with a minimum capacity of 1940MVA per circuit at a nominal voltage (refer to note b)	Reconductoring length: About 5 km.	
3.	400kV Bay Upgradation work at Parli(M) S/s (Parli(M) S/s has a DMT scheme. The current rating of existing bays is 2000A which would be upgraded to 3150A to suit the reconductoring with Twin HTLS conductor)	400 kV line bays (Bay Upgradation) – 2 nos.	
Total Estimated Cost:			INR 26.64 Crore

Note:

- As per GA of Parli(PG) S/s, Parli(M) & Parli(New) 400kV D/c lines are getting terminated in adjacent bays on the same side of Parli(PG) S/s. Hence, the above would facilitate their interconnection and bypassing at Parli(PG) S/s.

- b. As informed by POWERGRID in the 8th CMETS-WR meeting, existing towers have been designed for sag corresponding to twin moose conductor at 85C design temperature. Hence, Reconductoring shall be possible on existing towers with GAP conductor to achieve 1400A per sub conductor or 1940MVA per ckt.
- c. Balance works at Parli(M) S/s end such as Bus coupler/Transfer Bus Coupler/Bus Upgradation to 3150A, as required, shall be taken up by MSETCL in matching time-frame of the reconductoring scheme (WRES-XXX).
- d. Due to the volatility in the metal market, scrap value of aluminum conductors may be highly variable at this time. Considering this, the scrap value of the existing ACSR Moose conductor shall be deducted as per the prevailing scrap value to arrive at the final cost of the project.

Northern Region

3. Implementation of 2 nos. of 220 kV line bays at 400/220kV Bikaner-II PS for interconnection of solar projects (ACME Solar Holdings Pvt. Ltd., Prerak Greentech Pvt. Ltd.):

Sl. 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 220kV Bus sectionalizer along with bus coupler and transfer bus coupler at 400/220kV Bikaner-II PS.	<ul style="list-style-type: none"> • 220kV Bus Sectionalizer Bay– 1 Set • 220kV Bus Coupler Bay–1 No. • 220kV Transfer Bus Coupler Bay–1 No. • Bus extension works for future Bays (3 Nos. of Line Bays & 3 Nos. of ICT Bays) – 1 Set. 	
Total Estimated Cost:			INR 38.56 Crore

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.

Southern Region

4. Augmentation of Transformation Capacity by 1x500 MVA, 400/230kV ICT (4th) at Arasur substation:

Sl. No.	Scope of the Transmission Scheme	Capacity/km	Implementation timeframe
1.	Augmentation of transformation capacity by 1x500 MVA, 400/230kV ICT (4 th) at Arasur S/s along with associated ICT bays	<ul style="list-style-type: none">• 500 MVA, 400/230 kV ICT – 1 No.• 400kV ICT bay – 1 No.• 230kV ICT bay – 1 No. <p>(For ICT interconnection to 230kV Switchyard, 245kV Cable / GIB shall be required)</p>	18 months from the issue of OM by CTUIL
Total Estimated Cost:			INR 61 Crore

5. Augmentation of Transformation Capacity by 1x500 MVA, 400/230kV ICT (4th) at Hosur substation:

Sl. No.	Scope of the Transmission Scheme	Capacity/km	Implementation timeframe
1.	Augmentation of transformation capacity by 1x500 MVA, 400/230kV ICT (4 th) at Hosur S/s along with associated ICT bays	<ul style="list-style-type: none">• 500 MVA, 400/230 kV ICT – 1 No.• 400kV ICT bay – 1 No.• 230kV ICT bay – 1 No.	15 months from the issue of OM by CTUIL
Total Estimated Cost:			INR 46 Crore

Form-I

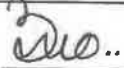
1. Particulars of the Applicant

Sl No	Particulars	Particulars
1.	Name of the Petitioner / Applicant	POWERGRID Bikaner Transmission System Limited. (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 "Implementation of 220 kV bays for RE generators and 400/220kV ICTs at Bikaner-II PS", "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 "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.)" through "Regulated Tariff Mechanism" (RTM) mode.
4.	Address of the Petitioner/Applicant	B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi - 110 016
5.	Name, Designation & Address of the contact person	Sh. Upendra Singh Project Incharge, POWERGRID Bikaner Transmission System Limited (100% wholly owned subsidiary of Power Grid Corporation of India Limited) C/o ED (TBCB) Power Grid Corporation of India Limited Saudamini, Plot no.2, Sector -29, Gurgaon 122001
6.	Contact Tele. No.	9901894202
7.	Fax No.	---
8.	Email ID	upendrasingh@powergrid.in
9.	Place of Incorporation / Registration	New Delhi, India
10.	Year of Incorporation / Registration	2020
11.	Details of Fees Remitted	
	a) UTR No.	Fee already paid vide adjustment through UTR No. SBIN520212862680 dated 30.07.2020.
	b) Date of Remittance	



	c) Amount Remitted	
Signature of the Authorized Signatory with Date	Upendra Singh 	Date : 2022 Project In-charge POWERGRID Bikaner Transmission System Ltd. (PBTSL)

2. Particulars of the Project:-

Details of Elements under present application for Grant of Transmission License

- i. *Transmission Scheme: "Implementation of 220 kV bays for RE generators and 400/220kV ICTs at Bikaner-II PS*

S.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	400/220 kV	2x500MVA, 400/220 kV ICT at Bikaner-II PS	NIL	ICT bays: 400 kV ICT bays - 2 nos. 220 kV ICT bays - 2 nos. 4 nos. 220 kV line bays

- ii. *Transmission Scheme: "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.	Name	Voltage	Transformer	Reactive	No. of
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	(location)	Level(s) (kV)	(Nos. and MVA capacity)	capacitive compensatio n (device with MVAR capacity)	Bays
1	Bikaner-II PS	400/220 kV for interconnec tion of 1000 MW Solar Project of SJVN Ltd.	-	-	400 kV line bay- 1 No

iii. Transmission Scheme:- Implementation of 2 nos. of 220 kV line bays at 400/220kV Bikaner-II PS for interconnection of solar projects (ACME Solar Holdings Pvt Ltd., Prerak Greentech Pvt. Ltd.):-

S.No.	Name (location)	Voltage Level(s) (kV)	Transformer (Nos. and MVA capacity)	Reactive / capacitive compensatio n (device with MVAR capacity)	No. of Bays
1	Bikaner-II PS	2 nos. of 220 kV line bays at 400/220kV Bikaner-II PS for interconnec tion of solar projects (ACME Solar Holdings Pvt Ltd., Prerak Greentech	-	-	220 kV line bay - 2 Nos.



		<i>Pvt. Ltd.</i>			
2.	<i>Bikaner-II PS.</i>	<i>Implementat ion of 220 kV Bus sectionalizer along with bus coupler and transfer bus coupler at 400/220kV</i>	-	-	<i>220kV Bus Sectionalizer Bay-1 Set 220 kV Bus Coupler Bay -1 No. 220 kV Transfer Bus Coupler Bay- 1 No. Bus extension works for future Bays (3Nos. of Line Bays &3 Nos.of ICT Bays) - 1Set</i>

(a) Commissioning schedule

- i. *Transmission Scheme: "Implementation of 220 kV bays for RE generators and 400/220kV ICTs at Bikaner-II PS*

S.No.	Scheme / Transmission Works	Completion Target
I	<i>2x500MVA, 400/220 kV ICT at Bikaner-II PS</i>	<i>ICT-I: Mar' 2023; ICT-II: Apr' 2023</i>
II	<i>4 nos. 220 kV line bays</i>	<i>1 no. of bay: Mar' 2023; 1 no. of bay: Apr' 2023; 2 no. of bays: Dec' 2023</i>



ii. **Transmission Scheme:** "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	Scheme / Transmission Works	Completion Target
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.	01-10-2023

iii. **Transmission Scheme:** - Implementation of 2 nos. of 220 kV line bays at 400/220kV Bikaner-II PS for interconnection of solar projects (ACME Solar Holdings Pvt Ltd., Prerak Greentech Pvt. Ltd.)

S.No.	Scheme / Transmission Works	Completion Target
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.)	15 months from the issue of OM by CTUIL. OM issued on 25.08.2022.
2	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. OM issued on 25.08.2022.

(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

(e) Any other relevant information : Nil

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

- (a) Recommendation of selection by the empowered committee } Not applicable
- (b) Evaluation report made public by the Bid Process Coordinator }

Duo..

Represented by Project In-charge

POWERGRID Bikaner Transmission System Ltd. (PPTSL)

Place: Bikaner

Date:- 15-09-2022