

BEFORE
THE CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI

PETITION FOR
APPROVAL OF TRANSMISSION TARIFF

For

Transmission Assets of

*Project - "Implementation of 220 kV bays for RE generators and 400/220kV ICTs at
Bikaner-II PS"*

Implemented by

POWERGRID BIKANER TRANSMISSION SYSTEM LIMITED

For

TARIFF BLOCK: 2024-29

PETITION NO.....

POWERGRID BIKANER TRANSMISSION SYSTEM LIMITED
(FORMERLY KNOWN AS BIKANER-II BHIWADI TRANSCO LIMITED)

REGISTERED OFFICE

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

ADDRESS FOR CORRESPONDENCE

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



**BEFORE
THE CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI**

PETITION NO.: .../TT/2024

IN THE MATTER OF: Petition for determination of transmission tariff for 2024-29 tariff block for assets under “**Implementation of 220 kV bays for RE generators and 400/220kV ICTs at Bikaner-II PS**” in Northern Region under Section 62 read with Section 79(1)(d) of the Electricity Act, 2003, Regulation 15(1)(a) and Regulation 23 of Central Electricity Regulatory Commission (Conduct of Business) Regulations, 2023 read with Central Electricity Regulatory Commission (Terms and Condition of Tariff) Regulations, 2024.

POWERGRID Bikaner Transmission System Limited

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

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

.....PETITIONER

Uttar Pradesh Power Corporation Limited (UPPCL)

Import Export Payment Circle, 14th Floor,
Shakti Bhawan Extn. Building, 14 - Ashok Marg, Lucknow

And others

.....RESPONDENT(S)

**Filed by
POWERGRID Bikaner Transmission System Limited
Represented by**

**PLACE: Gurgaon
DATED: 04.12.2024**

**Project-in-Charge,
POWERGRID Bikaner Transmission System Limited**



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.....PETITIONER

Versus

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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Filed by

POWERGRID Bikaner Transmission System Limited

PLACE: Gurgaon

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POWERGRID Bikaner Transmission System Limited

.....PETITIONER

Uttar Pradesh Power Corporation Limited (UPPCL)
And others

.....RESPONDENT(S)

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

Sir,

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

Filed by
POWERGRID Bikaner Transmission System Limited

Represented by

PLACE: Gurgaon
DATED: 04.12.2024

Project-in-Charge,
POWERGRID Bikaner Transmission System Limited



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Uttar Pradesh Power Corporation Limited (UPPCL)

Import Export Payment Circle, 14th Floor,
Shakti Bhawan Extn. Building, 14 - Ashok Marg, Lucknow
And others

.....RESPONDENT(S)

MEMO OF PARTIES

Power Grid Corporation of India Ltd.

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

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

VERSUS

1. UTTAR PRADESH POWER CORPORATION LTD.
SHAKTI BHAWAN, 14, ASHOK MARG
LUCKNOW - 226 001

----RESPONDENT(S)



REPRESENTED BY ITS CHAIRMAN

2. AJMER VIDYUT VITRAN NIGAM LTD
CORPORATE OFFICE, VIDYUT BHAWAN,
PANCHSHEEL NAGAR, MAKARWALI ROAD
AJMER-305004 (RAJASTHAN)
REPRESENTED BY ITS MANAGING DIRECTOR
3. JAIPUR VIDYUT VITRAN NIGAM LTD
132 KV, GSS RVPNL SUB- STATION BUILDING,
CALIGIRI ROAD, MALVIYA NAGAR,
JAIPUR-302017 (RAJASTHAN)
REPRESENTED BY ITS MANAGING DIRECTOR
4. JODHPUR VIDYUT VITRAN NIGAM LTD
NEW POWERHOUSE, INDUSTRIAL AREA,
JODHPUR – 342 003 (RAJASTHAN)
REPRESENTED BY ITS MANAGING DIRECTOR
5. HIMACHAL PRADESH STATE ELECTRICITY BOARD LTD
VIDYUT BHAWAN,
KUMAR HOUSE COMPLEX BUILDING II
SHIMLA-171 004
REPRESENTED BY ITS CHAIRMAN
6. PUNJAB STATE POWER CORPORATION LIMITED
THE MALL, PSEB HEAD OFFICE,
PATIALA - 147 001
REPRESENTED BY ITS CHAIRMAN AND MANAGING DIRECTOR
7. HARYANA POWER PURCHASE CENTRE
SHAKTI BHAWAN, SECTOR-6
PANCHKULA (HARYANA) 134 109
REPRESENTED BY ITS S.E. / C & R-1
8. JAMMU KASHMIR POWER CORPORATION LIMITED
220/66/33 KV GLADNI SS SLDC BULIDING
NARWAL, JAMMU
REPRESENTED BY ITS CHAIRMAN



9. BSES YAMUNA POWER Ltd,
B-BLOCK, SHAKTI KIRAN, BLDG.
(NEAR KARKADOOMA COURT),
KARKADOOMA 2ND FLOOR, NEW DELHI-110092
REPRESENTED BY ITS CEO
10. BSES RAJDHANI POWER Ltd,
BSES BHAWAN, NEHRU PLACE, NEW DELHI
REPRESENTED BY ITS CEO
11. TATA POWER DELHI DISTRIBUTION LTD.
33 KV SUBSTATION, BUILDING, HUDSON LANE,
KINGSWAY CAMP, NORTH DELHI - 110009
REPRESENTED BY ITS CEO
12. CHANDIGARH ELECTRICITY DEPARTMENT
UT-CHANDIGARH, DIV-11, OPPOSITE, TRANSPORT NAGAR,
INDUSTRIAL AREA PHASE - I, CHANDIGARH
REPRESENTED BY ITS CHIEF ENGINEER
13. UTTARAKHAND POWER CORPORATION LTD.
URJA BHAWAN, KANWALI ROAD, DEHRADUN.
REPRESENTED BY ITS MANAGING DIRECTOR
14. NORTH CENTRAL RAILWAY
ALLAHABAD.
REPRESENTED BY CE DISTRIBUTION ENGINEER
15. NEW DELHI MUNICIPAL COUNCIL
PALIKA KENDRA, SANSAD MARG,
NEW DELHI-110002
REPRESENTED BY CHAIRMAN
16. CENTRAL TRANSMISSION UTILITY OF INDIA LTD (CTUIL))
FLOORS NO. 5-10, TOWER 1,
PLOT NO. 16, IRCON INTERNATIONAL TOWER,



INSTITUTIONAL AREA, SECTOR 32, GURUGRAM, HARYANA - 122001
REPRESENTED BY ITS COO

17. JUNA RENEWABLE ENERGY PVT LTD
(FOURTH PARTNER ENERGY PVT. LTD)
BASEMENT, J-1/37, DLF CITY PH-II,
(NEAR SIKANDERPUR METRO STATION)
GURUGRAM- (HR),122002

Filed by
POWERGRID Bikaner Transmission System Limited
Represented by

PLACE: Gurgaon
DATED: 04.12.2024

Project-in-Charge,
POWERGRID Bikaner Transmission System Limited



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**POWERGRID Bikaner Transmission System Limited
Versus
Uttar Pradesh Power Corporation Limited (UPPCL)
And others**

.....PETITIONER

.....RESPONDENT(S)

MEMO OF APPEARANCE

POWERGRID Bikaner Transmission System Limited

..... PETITIONER

1. Shri K.K.Choudhury, Project-in-charge, PBTSL

I, K.K.Choudhury, the Petitioner named do hereby nominate to act, plead and appear on my behalf in the aforesaid matter.

IN WITNESS WHEREOF I have set and subscribed my hands to this writing on this 4th date of December 2024.

**PETITIONER
POWERGRID Bikaner Transmission System Limited**

**Project-in-Charge,
POWERGRID Bikaner Transmission System Limited**

**PLACE: Gurgaon
DATED: 04.12.2024**



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Import Export Payment Circle, 14th Floor,

Shakti Bhawan Extn. Building, 14 - Ashok Marg, Lucknow

And others

.....RESPONDENT(S)

A. Executive Summary of the Petition:

(i) Brief Background of the Petitioner

1. The Petitioner herein, POWERGRID Bikaner Transmission System Limited (hereinafter referred to as “PBTSL/ Petitioner”) is a Government Company within the meaning of the Companies Act, 2013. The Petitioner (known erstwhile as Bikaner-II Bhiwadi Transco Ltd.) is a 100% wholly owned subsidiary of Power Grid Corporation of India Limited. PBTSL was granted a transmission licence by this Hon’ble Central Electricity Regulatory Commission (hereinafter referred to as “Hon’ble Commission”) vide its order dated 15.7.2021 in Petition No. 99/TL/2021 to establish the “Transmission System Strengthening Scheme for Evacuation of Power from Solar Energy Zones in Rajasthan (8.1 GW) under



Phase II-Part F” under TBCB mode on Build, Own, Operate, and Maintain (“BOOM”) basis.

Subsequently, various Transmission schemes were assigned to the petitioner by CTUIL/MOP progressively under Regulated Tariff Mechanism (RTM) and the Petitioner approached Hon’ble Commission through Petition 137/TL/2022 for grant of separate RTM transmission license. Hon’ble Commission vide order dated 21.11.2022 in Petition No. 137/TL/2022 granted a separate transmission license to the Petitioner to implement the transmission projects under RTM route which inter-alia included the scheme - **“Implementation of 220 kV bays for RE generators and 400/220 kV ICTs at Bikaner-II PS”**. Further, CTUIL/MOP again assigned additional RTM schemes to Petitioner and Petitioner approached Hon’ble Commission through petition 181/TL/2023 for amendment of earlier RTM license granted vide petition 137/TL/2022. Hon’ble Commission vide order dated 28.01.2024 in Petition No. 181/TL/2023 amended existing RTM transmission license of the Petitioner for inclusion of additional schemes under the scope of license (Total of 7 schemes awarded to PBTSL under RTM mode). PBTSL operates and functions within the regulatory control of Hon’ble Commission. Tariff for the transmission system in the present petition established by PBTSL under RTM is required to be determined by this Hon’ble Commission in accordance with the Tariff Regulations as notified by this Hon’ble Commission from time to time in exercise of its powers under Section 178 of the Electricity Act, 2003.

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

2. PBTSL has impleaded the distribution licensees and Government departments of the respective states which are engaged in distribution of electricity in Northern Region of India. The respondents are also ‘Designated Inter State Transmission Customer’s (hereinafter referred to as ‘DICs’) of Northern Region in terms of the Sharing Regulations, 2020. In Addition, PBTSL has also impleaded Central Transmission Utility of India Limited (CTUIL) as Respondent No 16 and the Associated Generator i.e. Juna Renewable Energy Pvt Ltd as Respondent No 17 for which the instant transmission asset has been implemented.

(iii) Background of Transmission Assets:



3. PBTSL is filing the present petition for determination of transmission tariff for 2024-29 tariff block for the following asset under subject transmission scheme, i.e. **Implementation of 220 kV bays for RE generators and 400/220kV ICTs at Bikaner-II PS:**

Asset No	Asset Name	COD
Asset-1	220kV Main Bay 202 of 220 kV Bikaner-II - Juna Line at Bikaner-II (PBTSL)	Proposed COD – 05.09.2024

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

S.No	Event	Date
1.	Instant transmission scheme viz. Implementation of 220 kV bays for RE generators and 400/220 kV ICTs at Bikaner-II PS was assigned to Petitioner by CTUIL under RTM mode.	16.11.2021
2.	Petition No.137/TL/2022 filed by the Petitioner for grant of separate transmission license under RTM mode	11.04.2022
3.	CTUIL submitted revised timelines for implementation of the schemes covered in Petition No. 137/TL/2022	17.11.2022
4.	Final order issued by Hon'ble Commission granting separate transmission license to PBTSL for implementation of 3 schemes under RTM mode including present scheme	21.11.2022
5.	Investment Approval	22.08.2022
6.	SCOD	30.12.2023
7.	Proposed COD	05.09.2024
8.	Revised Cost Estimates (RCE)	Under preparation

(v) Summary of Claims:

4. PBTSL is seeking determination of transmission tariff for 2024-29 tariff block for aforesaid transmission asset based on capital cost comprising of capital cost incurred/Admitted upto proposed Commercial Operation Date ("Proposed



COD”) and projected additional capital expenditure in accordance with terms of Regulation 24 & 25 of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 (“**Tariff Regulations, 2024**”).

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

(Rs. In lakhs)

Asset No.	Apportioned Approved Cost as per FR	Expenditure Up to DOCO	Estimated expenditure during 2024-29 tariff block			Estimated completion Cost as on 31.03.2029
			2024-25	2025-26	2026-27	
Asset-1 220 kV Juna Bay at Bikaner-II (PBTSL)	373.21	361.26	143.03	40.87	20.43	565.59

Revise Cost estimate is under preparation for instant Transmission Scheme

6. Details of Time- Overrun:

Asset No.	SCOD	Revised SCOD*	COD	Delay in days
Asset-1:220 kV Juna Bay at Bikaner-II (PBTSL)	31.03.2023	30.12.2023	05.09.2024 (Proposed)	247

* Original time schedule of the instant asset was revised by CTUIL, vide affidavit dated 17.11.2022 during the proceedings of the transmission license petition 137/TL/2022.

The time overrun in commissioning of above assets is due to the time taken in grant of separate transmission license to PBTSL under RTM mode, delay in associated dedicated transmission line being implemented by associated generator i.e. Juna Renewable Energy Pvt Ltd and delay in charging clearance by NRLDC which were beyond the control of PBTSL.



7. Details of tariff claimed are as under:

Tariff claimed for 2024-29 tariff block:

(Rs. in Lakhs)

Name of the asset	2024-25	2025-26	2026-27	2027-28	2028-29
Asset-1: 220 kV Juna Bay at Bikaner-II (PBTSL)	50.73	103.26	107.27	108.09	107.41

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

B. Detailed Petition:

MOST RESPECTFULLY SHOWETH:

9. The Petitioner herein, POWERGRID Bikaner Transmission System Limited (hereinafter referred to as "**PBTSL/ Petitioner**") is a Government Company within the meaning of the Companies Act, 2013. The Petitioner (known erstwhile as Bikaner-II Bhiwadi Transco Ltd.) is a 100% wholly owned subsidiary of Power Grid Corporation of India Limited.
10. That the Hon'ble Commission have notified CERC (Terms and Conditions of Tariff) Regulations, 2024, vide notification dated 15.03.2024 applicable for a period of 5 years w.e.f. 01.04.2024.
11. That Petitioner is an Inter-State Transmission Licensee which has implemented "**Transmission System Strengthening Scheme for Evacuation of Power from Solar Energy Zones in Rajasthan (8.1 GW) under Phase II-Part F**" through Tariff Based Competitive Bidding (TBCB) process on the Build, Own, Operate and Maintain (BOOM) basis.
12. That subsequently, instant Transmission scheme was awarded to Petitioner under Regulated Tariff Mechanism (RTM) mode vide CTUIL OM dated 16.11.2021. Accordingly, the Petitioner approached the Hon'ble Commission, vide petition 137/TL/2022, for grant of separate Transmission license for implementation of additional scope of works under RTM mode for instant transmission scheme awarded



by CTUIL. During the proceedings of the petition 137/TL/2022, 02 nos additional transmission scheme were awarded by CTUIL vide OM dated 26.4.2022 & dated 25.8.2022 and petition 137/TL/2022 was amended consequently to incorporate the above 02 nos. transmission schemes awarded by CTUIL.

The Hon'ble Commission vide its order dated 21.11.2022 in Petition No. 137/TL/2022 granted separate transmission license to the Petitioner for implementation of 3 nos. schemes under RTM mode.

A copy of the order dated 21.11.2022 in Petition No. 137/TL/2022 is enclosed as **Annexure 1.**

Subsequently, 4 nos. additional transmission schemes were awarded to the Petitioner by CTUIL under RTM mode, and therefore Petitioner filed Petition No. 181/TL/2023 before Hon'ble Commission for amendment of RTM transmission license to incorporate newly awarded RTM schemes. Hon'ble Commission, vide order dated 28.01.2024 in Petition No. 181/TL/2023, amended the existing transmission license of PBTSL granted vide its Order dated 21.11.2022 in Petition No. 137/TL/2022 to include all 7 nos. Transmission Schemes to be implemented by Petitioner under RTM mode.

The following are the names of the Transmission schemes/projects for which RTM transmission license has been granted by Hon'ble Commission to the Petitioner:-

- (i) **Implementation of 220 bays for RE generators and 400/220kV ICTs at Bikaner-II PS: Part transmission scheme Claimed in the present petition.**
- (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.
- (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.).
- (iv) Implementation of 1 no. of 220 kV line bay at 400/220 kV Bikaner-II PS for interconnection of the solar project (NHPC Ltd.).
- (v) Implementation of 2 nos. of 220 kV line bays at 400/220 kV Bikaner-II PS for interconnection of RE power park of ALF Solar Amarsar Pvt. Ltd.
- (vi) Transmission system for evacuation of power from the Rajasthan REZ Ph-IV (Part-1) (Bikaner Complex) - Part-E.



- (vii) Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220 kV, 1X500 MVA ICT (3rd).

A copy of the order dated 28.01.2024 in Petition No. 181/TL/2023 is enclosed as **Annexure 2**.

13. That the present petition covers approval of transmission tariff for following Asset:

Asset No	Asset Name	DOCO
Asset-1:	220kV Bay (202) of 220 kV Bikaner-II – Juna Line at Bikaner-II (PBTSL)	Proposed COD – 05.09.2024

Approval of the Scheme

14. That instant transmission scheme viz. **Implementation of 220 kV bays for RE generators and 400/220 kV ICTs at Bikaner-II PS** was assigned to the Petitioner by CTUIL vide its OM dated 16.11.2021 for implementation under RTM mode.

The relevant portion of said CTUIL OM is as under:-

Sub : Implementation of ISTS Transmission/Communication 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) mode by the implementing agencies as indicated in the table below:

Sl.	Name of Scheme	Implementation 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.]

Copy of CTUIL OM dated 16.11.2021 is attached as **Annexure-3**.

15. The investment approval and expenditure sanction to the subject transmission project was accorded by Board of Directors of POWERGRID Bikaner Transmission System Limited in its 18th meeting held on 22.08.2022 at an estimated cost of Rs. 92.46



Crores for all assets of the instant project at December, 2021 price level, a copy whereof is attached hereto as **Annexure - 4**.

SCOPE OF WORK:

16. The complete scope of work covered under “Implementation of 220 kV bays for RE generators and 400/220 kV ICTs at Bikaner-II PS” and covered under instant petition is as follows:

Asset	Asset Name	Remarks
Asset-1	a) 1 x 500 MV, 400/220 kV ICT-1 along with associated bays at Bikaner-II PS b) 220kV Line Bay 207 at Bikaner-II PS	Commissioned in Tariff block 2019-24 and being claimed in a separate petition
Asset-2	220kV Bay of 220 kV Bikaner-II - Prerak Line at Bikaner-II (PBTSL)	
Asset-3	1x500 MVA, 400/220kV ICT-2 along with associated bays at Bikaner-II (PBTSL)	
Asset-4	220kV Main Bay of 220 kV Bikaner-II - T P Surya Line at Bikaner-II (PBTSL)	
Asset-5	220kV Bay of 220 kV Bikaner-II – Juna Line at Bikaner-II (PBTSL)	Included in the present petition

With the commissioning of Asset – 5, complete transmission project has been commissioned.

Approval of Proposed COD

It is to mention that the associated generator for instant 220 kV bay is Juna Renewable Energy Private Limited who is implementing 335 MW Solar generation and 220 kV S/C dedicated transmission line (DTL). On the date of commissioning of instant 220 kV by PBTSL i.e. 05.09.2024, the associated generation and DTL was not completed and PBTSL is praying this Hon’ble Commission to approve the DOCO as 05.09.2024 in terms of the Regulation 5 of the Tariff Regulations, 2024 and Regulations 27 of the Indian Grid Code Regulations, 2023. Relevant excerpts of Tariff Regulations, 2024 are provided below;



Quote

5. Date of Commercial Operation: (1) The date of commercial operation of a generating station or unit thereof or a transmission system or element thereof and associated communication system shall be determined in accordance with the provisions of the Grid Code. In the event of mismatch of COD between associated transmission and/or generating stations, the liability for the transmission charges shall be in accordance with the provisions of the Sharing Regulations, 2020 as amended from time to time.

Unquote

Further, Regulations 27 of the Grid Code Regulations, 2023 provides for declaration of commercial operation (DOCO) and commercial operation date (COD) as follows;

Quote

27. DECLARATION OF COMMERCIAL OPERATION (DOCO) AND COMMERCIAL OPERATION DATE (COD)

(1) A generating station or unit thereof or a transmission system or an element thereof or ESS may declare commercial operation as follows and inform CEA, the concerned RLDC, the concerned RPC and its beneficiaries:

.....
(c) Transmission System (i) The commercial operation date in the case of an Inter-State Transmission System or an element thereof shall be the date declared by the transmission licensee on which the Transmission System or an element thereof is in regular service at 0000 hours after successful trial operation for transmitting electricity and communication signals from the sending end to the receiving end as per Regulation 23 and submission of a declaration as per clause (3) of Regulation 26 of these regulations :

Provided also that in case a transmission system or an element thereof executed under regulated tariff mechanism is prevented from regular service on or after the scheduled COD for reasons not attributable to the transmission licensee or its supplier or its contractors but is on account of the delay in commissioning of the concerned generating station or in commissioning of the upstream or downstream transmission system of other transmission licensee, the transmission licensee shall approach the Commission through an appropriate petition along with a certificate from the CTU to the effect that the



transmission system is complete as per the applicable CEA Standards, for approval of the commercial operation date of such transmission system or an element thereof:

Unquote

In compliance with the above regulatory requirement, PBTSL has approached CTUIL for issuance of completion certificate and CTUIL has issued the completion certificate on 29.10.2024 certifying that instant 220 kV bay was completed on 25.07.2024. No load trial run was completed on 04.09.2024 and accordingly approval of COD has been prayed w.e.f. 05.09.2024.

A copy of CEA Energization certificate, RLDC No load trial operation certificate, CTU completion certificate and CMD certificate for the instant asset are enclosed as **Annexure - 5**.

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

Quote

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

Unquote

As already mentioned, 4 nos. assets were commissioned in tariff block 2019-24 for which separate tariff petition is being filed. The 220 kV bay covered under instant petition is the last element of the project and accordingly, the instant petition is being filed in compliance with Regulation 9 of CERC Tariff Regulations, 2024.



18. Implementation Schedule

The original SCOD, SCOD as revised by CTUIL, vide affidavit dated 17.11.2022 during the proceedings of the transmission license petition 137/TL/2022 and actual commissioning dates of the various assets claimed in the present petition are as follows:

Asset	Schedule COD	Revised SCOD*	Actual COD	Delay w.r.t. revised SCOD
Asset-1: 220 kV Juna Bay at Bikaner-II (PBTSL)	31.03.2023	30.12.2023	05.09.2024 (Proposed)	247

* Original time schedule of the instant assets was revised by CTUIL, vide affidavit dated 17.11.2022 during the proceedings of the transmission license petition 137/TL/2022.

Reasons of Time Over-run

As seen from the table above, there is a delay of 247 days in commissioning of instant asset vis-à-vis revised SCOD of 30.12.2023. CTUIL vide its affidavit dated 17.11.2022 in license petition no 137/TL/2022 informed regarding revised SCOD of all the assets of the subject scheme in order to match the commissioning schedule of the generation projects in line with 23rd JCC meeting of NR held on 22.09.2022.

Following are the reasons which led to delay in commissioning of the instant 220 kV bay;

i. Delay in grant of transmission license

The time overrun in commissioning of above assets is due to the time taken in grant of separate transmission license to PBTSL under RTM mode, which is beyond the control of PBTSL. As per the Transmission Licence Regulations, 2009 read with Section 15 of the Electricity Act, 2003, the timeline to grant transmission license is within 90 days from the date of filing of petition and accordingly, 90 days were factored in for the grant of transmission license in project implementation timeline. However, in the instant case, the transmission license was granted after a period of 07 months as the license



petition was amended to incorporate various subsequent schemes assigned to the Petitioner. As already mentioned that instant Transmission scheme was awarded to Petitioner under Regulated Tariff Mechanism (RTM) mode vide CTUIL OM dated 16.11.2021. Accordingly, the Petitioner approached the Hon'ble Commission, vide petition 137/TL/2022, for grant of separate Transmission license for implementation of additional scope of works under RTM mode for instant transmission scheme awarded by CTUIL. During the proceedings of the petition 137/TL/2022, 02 nos additional transmission scheme were awarded by CTUIL vide OM dated 26.4.2022 & dated 25.08.2022 and petition 137/TL/2022 was amended twice consequently to incorporate the above 02 nos. transmission schemes awarded by CTUIL. This amendment of the petition 137/TL/2022, to incorporate the additional schemes awarded by CTUIL at various stages of the hearing of petition 137/TL/2022, delayed the proceedings in the matter as multiple hearings were held and ultimately led to delay in issuance of order in the matter.

The transmission license was granted vide order dated 21.11.2022 in Petition No.137/TT/2022 i.e. after 228 days from the date of filing of petition viz. 11.04.2022 for grant of transmission license by Petitioner. A detailed chronology of the events is shown below:

Sl. No.	Date	Description of Event/Activity
1	11.04.2022	Petition No.137/TL/2022 filed by the Petitioner for grant of separate transmission license under RTM mode
2	26.04.2022	Additional scope of works awarded by CTUIL to the Petitioner vide its OM dated 26.04.2022 under RTM mode
3	05.07.2022	Hon'ble Commission listed the matter for hearing 1 st time and directed Petitioner to file additional affidavit along with amended Petition within two weeks. (Date of posting of ROP: 07.07.2022)
4	21.07.2022	Affidavit and amended petition submitted by Petitioner for including the additional scheme awarded by CTUIL on 26.04.2022
5	25.08.2022	CTUIL vide its OM dated 25.08.2022 awarded additional scope of works to the Petitioner under RTM mode



Sl. No.	Date	Description of Event/Activity
6	15.09.2022	Additional affidavit filed by the Petitioner before the Commission in Petition No.137/TL/2022 for inclusion of transmission scheme awarded by CTUIL vide its OM dated 25.08.2022
7	26.09.2022	CTUIL gave its recommendation for all 3 schemes covered in Petition No.137/TL/2022
8	29.09.2022	Hon'ble Commission listed the matter for hearing (2 nd hearing). After hearing, the Hon'ble Commission reserved order in the matter. (Date of posting of ROP: 06.10.2022)
9	10.10.2022	Hon'ble Commission issues its interim order in Petition No. 137/TL/2022
10	15.11.2022	Final hearing (Date of posting of ROP: 16.11.2022)
11	17.11.2022	CTUIL submitted revised timelines for implementation of the schemes covered in Petition No. 137/TL/2022
12	26.11.2022	Final order issued by Hon'ble Commission granting separate transmission license to PBTSL for implementation of 3 schemes under RTM mode after 224 days of filing of petition.

From the above, it can be seen that the commissioning date of the instant asset was pushed back from the scheduled timeline due to the delay in grant of transmission license to the Petitioner, which is beyond the control of PBTSL. After adjusting 90 days which was factored in for license, extra time lapsed due to above event was 138 days.

ii. Delay due to matching with associated generator i.e. Juna Renewable Energy Pvt. Ltd

Subsequent to issuance of transmission license, PBTSL started implementation of instant bay and same was completed in all respect by March'24. CEA energization certificate was obtained on 05.03.2024 which justifies the readiness of the bays for commissioning. However, instant bay has been implemented for RE generator Juna Renewable Energy Pvt Ltd which was implementing associated generation of 335 MW and 220 kV S/C dedicated transmission line (DTL) having implementation schedule as 31.12.2023. As per the discussion during the 28th Joint Coordination Committee Meeting for Generation and Transmission projects of Northern Region, held on 05.01.2024 and minutes were issued on 26.02.2024, Juna intimated commissioning



schedule of its dedicated Transmission line as 28.02.2024. However, Juna did not complete its dedicated transmission line and PBTSL has to defer the commissioning of the instant bay to match with DTL of Juna.

During the 29th Joint Coordination Committee Meeting for Generation and Transmission projects of Northern Region, held on 27.03.2024, Juna intimated commissioning schedule of its dedicated Transmission line as 30.06.2024. Accordingly, PBTSL again deferred the commissioning of instant bay to match with the commissioning of the DTL of Juna Renewable Energy Pvt Ltd. However, Juna Renewable Energy was not able complete its DTL by June'2024 and it was not possible for PBTSL defer the commissioning further due to its contractual obligation.

Accordingly, PBTSL applied for charging clearance on 25.07.2024 to NRLDC. Total delay occurred due to above was 142 days viz. from CEA energization i.e. 05.03.2024 till 25.07.2024.

iii. Delay in granting charging clearance by NRLDC

PBTSL applied for charging clearance on 25.07.2024 to NRLDC but NRLDC granted charging clearance only on 02.09.2024 which was beyond the control of the PBTSL. NRLDC insisted on connectivity approval, RLDC registration letter and proper Bay approval prior to granting of charging clearance. For RLDC registration, NRLDC sought a copy of original Transmission License granted by Hon'ble Commission, however same was yet to be issued by Hon'ble Commission at that time and was not available with PBTSL. PBTSL kept pursuing with NRLDC that charging clearance may be provided based on the Hon'ble Commission order dated 21.11.2022 in Petition 137/TL/2022 in which Transmission license was granted by the Hon'ble Commission.

Eventually, NRLDC based on the transmission license order issued by Hon'ble Commission dated 21.11.2022 in Petition 137/TL/2022 granted charging clearance and No -load trial run operation was completed on 04.09.2024.

In light of the above, delay of 38 days was beyond the control of the PBTSL as the original Transmission License granted by Hon'ble Commission was not available with the PBTSL and NRLDC deferred the trial run due to same till 02.09.2024.



Therefore, the delay in grant of transmission license, non commissioning of dedicated transmission line by Juna and delay in granting charging clearance by NRLDC was beyond the control of the PBTSL. It is therefore, humbly prayed to Hon'ble Commission to condone the delay in completion of the subject asset. The delay period on account of above force majeure event has been tabulated below;

Particular	Time		Total days
	From	To	
Delay in grant of transmission license	11.04.2022	26.11.2022	228
non commissioning of dedicated transmission line by Juna	05.03.2024	25.07.2024	142
delay in granting charging clearance by NRLDC	26.07.2024	02.09.2024	38
	Total		408

As evident in the above table, Petitioner encountered force Majeure events of 318 days (after factoring 90 days in grant of transmission license) during the implementation of the instant asset. However, Petitioner completed the instant asset with a delay of only 247 days adopting prudent utility practices.

Following documents are attached in support of delay reasons as **Annexure – 6 (Colly)**;

- a. CTUIL affidavit revising the SCOD of the instant 220 kV bays
- b. Relevant extracts of 28th & 29th Joint Coordination Committee Meeting for Generation and Transmission projects of Northern Region
- c. Communications held with NRLDC for charging clearance

Estimated Completion Cost:

19. The present Petition for determination of transmission tariff for 2024-29 tariff block for aforesaid transmission asset is being filed based on the capital cost comprising of capital cost incurred upto proposed DOCO (i.e. 05.09.2024) and additional capital expenditure during 2024-29 tariff block in accordance with terms of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 (“**Tariff Regulations, 2024**”). That the capital cost upto proposed DOCO and Addcap projected to be incurred for 2024-29 is duly certified by the Auditor. Copy of Auditor Certificate for the assets in the instant petition are attached at **Annexure - 7**.



(Rs in lakhs)

Asset No.	Apportioned Approved Cost as per FR	Expenditure Up to proposed DOCO	Estimated expenditure during 2024-29 tariff block			Estimated completion Cost as on 31.03.2029
			2024-25	2025-26	2026-27	
Asset-1 220 kV Juna Bay at Bikaner-II (PBTSL)	373.21	361.26	143.03	40.87	20.43	565.59

The Revised cost estimate of the instant project is under preparation and same shall be filed upon its approval.

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

(Rs. In lakhs)

Asset No.	Approved cost (FR) (a)	Estimated Completion Cost (b)	Variation FR (-decrease/+increase) (c= b-a)
Asset-1 220 kV Juna Bay at Bikaner-II (PBTSL)	373.21	565.59	192.39

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

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

Asset-I

S. No	Description	Cost as per FR	Estimated Capital Cost	Variation (-decrease, +increase)
		a	b	c = b - a
1	Substation	267.56	409.94	142.38
2	Taxes and Duties	46.41	96.23	49.82
3	Spares	33.75	28.46	-5.29
4	Over heads	9.42	19.49	10.07
5	Interest During Construction (IDC)	16.07	11.48	-4.59
Total		373.21	565.6	192.39

Variation in IDC & Variation in IEDC: (Rs 5.48 Lakhs) - Decrease in IDC is attributable to variation in the rate of interest considered in FR v/s Actuals, decrease in overall Capital cost w.r.t. FR, and deployment of funds based on actuals.

The actual IDC accrued up to DOCO has been considered in the Auditor Certificate.



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

Cost variation in the Substation equipment including initial spares and civil works (Rs 186.91 Lakhs) - It is submitted that through open competitive bidding process, lowest possible market prices for required product/services/as per detailed designing is obtained and contracts are awarded on the basis of lowest evaluated eligible bidder on overall basis. The best competitive bid prices against tenders may vary as compared to the cost estimate depending upon prevailing market conditions, design and site requirements, whereas the estimates are prepared by the petitioner as per well-defined procedures for cost estimate. The FR cost estimate is broad indicative cost worked out generally on the basis of average unit rates of recently awarded contracts as a general practice.

Further, regarding variation in cost of individual item in Substation packages, it is submitted that the packages under subject scope of works comprise of a large no. of items and the same are awarded through open competitive bidding. In the said bidding process, bids are received from multiple parties quoting different rates for various BOQ items under the said package. Further, the lowest bidder can be arrived at/ evaluated on overall basis only. Hence, item-wise unit prices in contracts and its variation over unit rate considered in FR estimates are beyond the control of the petitioner.

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

DETAILS OF THE INITIAL SPARES:

20. Regulation 23 (d) of the Tariff Regulations, 2024 regarding initial spares provides as under:

"23. Initial Spares: Initial spares shall be capitalised as a percentage of the Plant and Machinery cost, subject to following ceiling norms:

.....
(d) *Transmission system*

(i) *Transmission line - 1.00%*

(ii) *Transmission Sub-station*

- *Green Field- 4.00%*

- *Brown Field- 6.00%*

(iii) *Series Compensation devices and HVDC Station- 0.00%*



- (iv) Gas Insulated Sub-station (GIS)
 - Green Field-5.00%
 - Brown Field-7.00%
- (v) Communication system - 3.50%
- (vi) Static Synchronous Compensator - 6.00%

.....
 Provided that:

- (i) Plant and Machinery cost shall be considered as the original project cost excluding IDC, IEDC, Land Cost and Cost of Civil Works. The generating company and the transmission licensee, for the purpose of estimating Plant and Machinery Costs, shall submit the break-up of head-wise IDC and IEDC in its tariff application
-

21. Considering the aforesaid Regulation, the initial spares claimed in the present petition is given below :-

(Rs. In Lakhs)

Assets	Particulars	Plan & Machinery cost (A)	Initial Spares Claimed (B)	Ceiling Limit (%) (C)	Initial Spares Worked out D = [(A-B) * C / (100-C)]	Excess [B-D]
Asset-1: 220 kV Juna Bay at Bikaner-II (PBTSL)	SS (Brown Field)	534.62	28.46	6	32.31	-

It is evident from the above that the spares claimed are within the allowable limits and there are no excess spares. It may be mentioned that in the Auditor Certificate, initial spares discharged upto DOCO are included in DOCO cost, whereas initial spares discharged after DOCO are included in the ADD-CAP expenditure of the respective year. Initial discharge summary is as per follows;

Particulars	Sub station incl PLCC & IT Equipment
Total Value of Spares as per Certificate	28.46
Expenditure up to 04.09.2024 (Prop DOCO 05.09.2024)	5.06
Estimated Expenditure from 05.09.2024 to 31.03.2025	20.29
Estimated Expenditure from 01.04.2025 to 31.03.2026	2.41
Estimated Expenditure from 01.04.2026 to 31.03.2027	0.70



DETAILS OF ADDITIONAL CAPITALIZATION

22. Additional Capitalisation

The details of underlying assumptions for additional capitalisation for the instant asset is summarized below:

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

24. Additional Capitalisation within the original scope and up to the cut-off date

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

(b) Works deferred for execution;

(c) Procurement of initial capital spares within the original scope of work, in accordance with the provisions of Regulation 23 of these regulations;

(d) Payment against the award of arbitration or for compliance with the directions or order of any statutory authority or order or decree of any court of law;

(e) Change in law or compliance with any existing law which is not provided for in the original scope of work;

(f) For uninterrupted and timely development of Hydro projects, expenditure incurred towards developing local infrastructure in the vicinity of the power plant not exceeding Rs. 10 lakh/MW shall be considered as part of capital cost and in case the same work is covered under budgetary support provided by Government of India, the funding of such works shall be adjusted on receipt of such funds; Provided that such expenditure shall be allowed only if the expenditure is incurred through Indian Governmental Instrumentality; and

(g) Force Majeure events.

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



23. Additional capitalization claims under Regulation:

Asset	DOCO date	Cut-off date
Asset-1 220 kV Juna Bay at Bikaner-II (PBTSL)	05.09.2024 (Proposed)	31.03.2028

Add cap for 2024-29 block:

Asset	Add cap detail (Rs. Lakhs)				
	2024-25	2025-26	2026-27	2027-28	2028-29
Asset-1 220 kV Juna Bay at Bikaner- II (PBTSL)	143.03	40.87	20.43	-	-
	Applicable regulation				
	24(1)(a) – 22.98	24(1)(a) – 9.42	24(1)(a) – 14.71	-	-
	24(1)(b) – 120.05	24(1)(b) -31.45	24(1)(b) – 5.72		

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

TRANSMISSION TARIFF FOR 2024-29 BLOCK:

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

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

27. Further, for the instant asset, details of accrual IDC as considered under add cap during the year of discharge is tabulated below:



Asset-1:

(Rs. in lakhs)

Sl. No.	Expenditure	Sub-Station	Communication System excl. OPGW	I.T. Equipment	Total
1	As per Auditor Certificate (Upto DOCO) as on 05.09.2024	347.93	9.13	4.20	361.26
2	Less: Accrual IDC not discharged upto DOCO	-3.28	-0.09	-0.04	-3.41
3	Notional IDC	3.50	0.09	0.04	3.63
4	Expenditure upto DOCO Excluding Accrual IDC	348.14	9.14	4.20	361.48
5	Add Cap during for FY 2024-25 as per auditor certificate	140.50	1.63	0.90	143.03
6	Add: Accrual IDC Discharged in 2024-25	3.28	0.09	0.04	3.41
7	Expenditure 2024-25 (Including Accrual IDC discharge)	143.78	1.72	0.94	146.44
8	Estimated Expenditure 2025-26	40.14	0.47	0.26	40.87
9	Estimated Expenditure 2026-27	20.07	0.23	0.13	20.43
10	Estimated Completion Cost	552.14	11.55	5.53	569.22

28. It is submitted that for the instant asset, out of the total IDC of Rs 11.48 Lakhs, Rs 8.07 Lakhs has been discharged upto DOCO. The balance IDC of Rs 3.41 Lakhs is likely to be discharged during FY 2024-25. Further, the entire amount of IEDC for the instant asset has been discharged as on DOCO. It is further submitted that expenditure other than the above accrued IDC has been considered on cash basis in the Auditor certificate. Furthermore, Petitioner has claimed notional IDC of Rs. 3.63 Lakhs in the subject asset. The same has been claimed in accordance with the provisions of Regulation 19(2)(b) and 21(1) of CERC Tariff Regulations, 2024.



29. The Hon'ble Commission is requested to kindly allow the IDC based on cash out flow. It is further submitted that accrued IDC to be discharged during respective years for the assets has not been included in the Add Cap expenditure for the respective year as per the Auditor certificate. Further, the entire IEDC amount mentioned in the auditor certificate is on cash basis and is paid up to DOCO. Furthermore, statement of cash IDC, calculation of notional IDC and Liabilities flow Statement is enclosed at **Annexure - 8**.

30. The transmission tariff has been calculated based on audited cost and considering Accrued IDC to be discharged thereafter. The tariff Formats for block 2024-29 have been furnished out as per Annexure-I, Part-III of the Tariff Regulations for period 2024-29 and the calculations for working out the tariff along with supporting documents are attached hereto as **Annexure - 9**.

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

(Rs. In Lakhs)

Project	2024-25	2025-26	2026-27	2027-28	2028-29
Asset-1 220 kV Juna Bay at Bikaner-II (PBTSL)	50.73	103.26	107.27	108.09	107.41

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



including interest duly adjusted for any refund of tax including interest received from IT authorities shall be recoverable /adjustable during the tariff period 2024-29 on year-to-year basis on receipt of Income Tax assessment order.

33. Under CGST Act, 2017 implemented w.e.f. 01.07.2017, the Govt. of India has exempted the charges of transmission of electricity vide notification no. 12/2017 - Central Tax (Rate) dated 28.06.2017. at serial no. 25 under the heading 9969 "Transmission or distribution of electricity by an electric transmission or distribution utility" by giving applicable GST rate as NIL. Hence, the Transmission Charges as indicated at Para 31 above is exclusive of GST. Further, if GST is levied at any rate and at any point of time in future on Charges of Transmission of Electricity, the same shall be borne and additionally paid by the respondent(s) to the petitioner and the same shall be charged & billed separately by the petitioner. Further additional taxes, if any, are to be paid by the petitioner on account of demand from Govt. / Statutory authorities, the same may be allowed to be recovered from the beneficiaries.
34. Approval was accorded by Board of Directors of PBTSL to borrow funds by way of an inter-corporate loan from POWERGRID. In the tariff calculation for 2024-29 period, Interest on Loans has been calculated on the basis of rate prevailing as on DOCO for inter-corporate loan. The change in Interest rate due to the floating rate of interest applicable, if any, for the project needs to be claimed / adjusted over the tariff block of 05 years directly from / with the beneficiaries.
35. The transmission charges at para-31 above is inclusive of O&M expenses derived for the subject asset based on the norms for O&M expenditure for Transmission System as specified under regulation 36 (3) (a & d) of the tariff regulations for block 2024-29 but excludes security expenses, Insurance and capital spares as provided in the Regulation.
36. That as per Regulation 36(3)(d) of CERC Tariff Regulations, 2024, the Security Expenses, Insurance and Capital Spares more than 10 Lakh for transmission system shall be allowed separately after prudence check.

Security Expanses:

In this regard, it is submitted that a separate petition shall be filed for recovery of security expenses from 01.04.2024 to 31.03.2029 and consequential Interest on Working Capital (IOWC) on the same under the Regulation 36 (3) (d) of Central Electricity Regulatory Commission (Terms and Condition of Tariff Regulations) 2024.



Insurance:

In this regard, it is submitted that a separate petition shall be filed before Hon'ble Commission for claiming the overall Insurance Expenses and consequential Interest on Working Capital (IOWC) on the same considering actual Insurance Expense incurred by the Petitioner for the F/Y 2023-24 after escalating the same at 5.25% per annum for arriving at the Estimated Insurance Expense for the year 2024-25, 2025-26, 2026-27, 2027-28 and 2028-29.

Capital Spare:

With regard to Capital Spares, as per Tariff Regulations, 2024, Capital spares consumed and consequential Interest on Working Capital (IOWC) on the same shall be claimed by the Petitioner as per actual through a separate petition.

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

37. The application filing fee, expenses incurred on publication of Notices in Newspapers and License fee may be allowed to be recovered separately from the respondents in terms of Regulation 94(1) of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024. The fees and charges to be paid by the petitioner as ISTS licensee (deemed ISTS licensee) under CERC (Fees and Charges of RLDC and other matters) Regulations as amended from time to time shall also be recoverable from the DICs as provided under clause 94 (3) of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024.
38. The Transmission Charges and other related Charges indicated at Para 31 above, is exclusive of incentive, late payment surcharge, FERV, any statutory taxes, levies, duties, cess, filing fees, license fee, RLDC fees and charges or any other kind of imposition (s) and/ or other surcharges etc. whatsoever imposed / charged by any Government (Central/State) and / or any other local bodies/authorities/regulatory authorities in relation to transmission of electricity, environmental protection, and/or in respect of any of its installation associated with the Transmission System and the same shall be borne and additionally paid by the respondent(s) to the petitioner and the same shall be charged, billed separately by the petitioner on the respondents.



Sharing of Transmission Charges

39. Tariff for Transmission of Electricity (Annual Fixed Cost) for 2024-29 as per para 31 above shall be recovered on monthly basis in accordance with Regulation 78 of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 and shall be shared by the beneficiaries and long-term transmission customers in Central Electricity Regulatory Commission (Sharing of Inter State Transmission Charges and Losses) Regulations, 2020 (Sharing Regulations, 2020) as amended from time to time.
40. In the circumstances mentioned above, it will be just and proper that the transmission tariff for the asset covered under this petition be allowed to be charged from the beneficiaries on the basis set out above. The Petitioner submits that the **Annexure -1 to 9** may please be treated as integral part of this petition.

PRAYER

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

- 1) Approve the proposed DOCO for instant asset i.e. "220kV Main Bay 202 of 220 kV Bikaner-II - Juna Line at Bikaner-II (PBTSL)" as 05.09.2024 as per para 16 of the instant petition.
- 2) Condone the delay in completion of subject asset on merit of the same being beyond the control of Petitioner as per para 18 of the instant petition.
- 3) Admit the capital cost claimed in the petition and approve the incurred/ projected additional capitalization during 2024-29.
- 4) Approve the transmission tariff for 2024-29 block for the assets covered under this petition, as per Para 31 above.
- 5) Allow interim tariff in accordance with Regulation 10(3) of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 for purpose of inclusion in the PoC charges.
- 6) Allow the petitioner to recover the shortfall or refund the excess Annual Fixed Charges, on account of Return on Equity due to change in applicable Minimum Alternate/Corporate Income Tax rate as per the Income Tax Act, 1961 (as amended from time to time) of the respective financial year directly without making any application before the Commission as provided in Tariff regulations 2024 as per Para 31 above for respective block.



- 7) Approve the reimbursement of expenditure by the beneficiaries towards petition filing fee, and expenditure on publishing of notices in newspapers in terms of Regulation 94 (1) Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024, and other expenditure (if any) in relation to the filing of petition.
- 8) Allow the petitioner to bill and recover Licensee fee and RLDC fees and charges, separately from the respondents in terms of Regulation 94 (3) and (4) Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024.
- 9) Allow the petitioner to bill and adjust impact on Interest on Loan due to change in Interest rate on account of floating rate of interest applicable during 2024-29 period, if any, from the respondents.
- 10) Allow the Initial spares to be claimed as project as a whole.
- 11) Allow the petitioner to file a separate petition before Hon'ble Commission for claiming the overall security expenses and consequential IOWC on that security expenses as mentioned at Para 36 above.
- 12) Allow the petitioner to claim the overall insurance expenses and consequential IOWC on that insurance expenses separately as mentioned at Para 36 above.
- 13) Allow the petitioner to file a separate petition before Hon'ble Commission for claiming the overall capital spares at the end of tariff block as per actual as mentioned at Para 36 above.
- 14) Allow the Petitioner to bill and recover GST on Transmission Charges separately from the respondents, if GST on transmission is levied at any rate in future. Further, any taxes including GST and duties including cess etc. imposed by any statutory/Govt./municipal authorities shall be allowed to be recovered from the beneficiaries.
- 15) Pass such other relief as Hon'ble Commission deems fit and appropriate under the circumstances of the case and in the interest of justice.

Filed by

**POWERGRID Bikaner Transmission System Limited
Represented by**

**PLACE: Gurgaon
DATED: 04.12.2024**

**Project-in-Charge,
POWERGRID Bikaner Transmission System Limited**



**BEFORE
THE CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI**

PETITION NO.:

IN THE MATTER OF: Petition for determination of transmission tariff for 2024-29 tariff block for assets under “Implementation of 220 kV bays for RE generators and 400/220kV ICTs at Bikaner-II PS” in Northern Region under Section 62 read with Section 79(1)(d) of the Electricity Act, 2003, Regulation 15(1)(a) and Regulation 23 of Central Electricity Regulatory Commission (Conduct of Business) Regulations, 2023 read with Central Electricity Regulatory Commission (Terms and Condition of Tariff) Regulations, 2024.

POWERGRID Bikaner Transmission System Limited

--- PETITIONER

Versus

Uttar Pradesh Power Corporation Limited (UPPCL)

--- RESPONDENTS

and others

AFFIDAVIT VERIFYING THE PETITION

I, K.K.Choudhury, S/o Shri R K Choudhary, working as Project-in-charge, POWERGRID Bikaner Transmission System Limited, having its registered Office at B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi-110016, presently at Gurgaon do hereby solemnly affirm and state as follows:-

1. I am the Project-in-charge, POWERGRID Bikaner Transmission System Limited, the representative of the Petitioner in the above matter, and am duly authorized to make this affidavit.
2. I submit that the accompanying Petition under Section 62 of the Electricity Act, 2003, has been filed by my authorised representative/nominated counsel under my instruction and the contents of the same are true and correct to the best of my knowledge and belief.
3. I submit that the contents of Para 01 to 35 of the facts as mentioned in the Petition are true and correct based on my personal knowledge, belief and records maintained in the office and the contents of Para 01 to 35 of the Petition are believed to be true on the basis of the legal advice received.
4. The documents attached with the petition are legible copies and duly attested by me.

VERIFICATION

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

Solemnly affirmed at Gurgaon on this 04th Day of December 2024.

ATTESTED

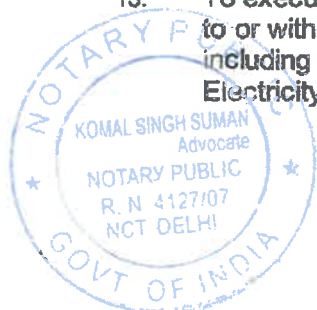
MAHENDER S. PUNIA
ADVOCATE & NOTARY
Distt. Gurugram (Gurgaon) India



37/04/24

applications and pleadings of all kinds and to file them in Central Electricity Regulatory Commission (CERC), State Electricity Regulatory Commissions (SERCs), Appellate Tribunal for Electricity (ATE), Civil, Criminal or Revenue courts, Arbitration, Labour Court, Industrial Tribunal, High Court and Supreme Court, whether having original or appellate jurisdiction and before Government or Local Authorities or Registration Authorities, Tax Authorities, Tribunals, etc.

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



[Handwritten signature]



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

14. To execute Consultancy, Funding and other Agreements
15. To act as administrator for e-filing process with CERC and other Statutory authorities.
16. Generally, to do all lawful acts, necessary for the above-mentioned purposes.
17. To further delegate any of the aforesaid Powers except for SI Nos. 9, 10 & 13 to any of the officers/employees (not below the level of Manager) of Power Grid Corporation of India Limited as deemed fit subject to rules, policy etc. of PSITSL or law in force & overall supervision of Delegates.

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

.....
Signed by the within named

Subir
POWERGRID Bikaner Transmission System Limited
through the hand of **Shri Subir Sen, Chairman (Part-time)**
Duly authorized by the Board to issue such Power of Attorney

Dated this 01st day of May, 2024

Accepted

.....
(Signature of Attorney)

Shri Kanchan
Name: Shri Kanchan Kumar Choudhary
Designation: Project In-charge, POWERGRID Bikaner Transmission System Limited
Address: PWO C-5/603, Sector 43, Gurugram, Haryana – 122009

Attested

.....
(Signature of the Executant)

Subir
Name: Shri Subir Sen
Designation: Chairman (Part-time)
Address: B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi - 110 016

ATTESTED
[Signature]
NOTARY PUBLIC, DELHI

- 1 MAY 2024

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

WITNESS

[Signature]
[Mrs. Aditi Jain
Company Secretary]

[Signature]
[Shri Rajil Shivastava]
(Collector)

[Signature]
[Smt. Sangeeta Saxena
(Director)]

**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: 21st 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, 2nd 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"> • 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 (3 Nos. of Line Bays & 3 Nos. of ICT Bays) – 1 Set 	

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. 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.</p> <p>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</p>	<p>18 Months from the effective date or June 2022, whichever is later</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 6th 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 23rd 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:

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



**CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI**

Petition No. 181/TL/2023

Coram:

Shri Jishnu Barua, Chairperson

Shri Arun Goyal, Member

Shri P.K. Singh, Member

Date of order: 28th January, 2024

In the matter of:

Application under Section 14 of the Electricity Act, 2003 read with the Central Electricity Regulatory Commission (Procedure, Terms and Conditions for Grant of Transmission License and other related matters) Regulations, 2009 for grant of a separate transmission license to POWERGRID Bikaner Transmission System Limited for the "Implementation of 1 no. of 220 kV line bay at 400/220 kV Bikaner-II PS for interconnection of solar project (NHPC Ltd.)", "Implementation of 2 nos. of 220 kV line bays at 400/220 kV Bikaner-II PS for interconnection of RE power park of ALF Solar Amarsar Pvt. Ltd." , "Transmission system for evacuation of power from the 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 (3rd)" 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
Address for correspondence:
ED (TBCB), Power Grid Corporation of India Limited,
Saudamini, Plot no.2, Sector -29,
Gurgaon 122001, Haryana

...Petitioner

Vs

1. The Chairman,
U.P. Power Corporation Limited,
Import Export Payment Circle, 14th Floor,
Shakti Bhawan Extension Building, 14, Ashok Marg,
Lucknow, UP.

2. The Chief Engineer,
Haryana Power Purchase Centre,
Shakti Bhawan, Energy Exchange Room No. 446,



Top Floor, Sector - 6,
Panchkula - 134 109, Haryana

3. The Chairman & Managing Director,
Punjab State Power Corporation Limited,
Shed No. T-1 A, Thermal Design,
Near 22 No. Phatak, Patiala, Punjab

4. The Chairman,
Jaipur Vidyut Vitran Nigam Limited,
Vidyut Bhawan, Janpath, Jaipur - 302 005.

5. The Chairman,
Ajmer Vidyut Vitran Nigam Limited,
Vidyut Bhawan, Panchsheel Nagar,
Makarwali Road, Ajmer – 305004

6. The Chairman,
Jodhpur Vidyut Vitran Nigam Limited,
New Power House, Industrial Area,
Jodhpur – 342003.

7. The Principal Secretary (Power),
Power Development Department,
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, Uttar Pradesh

9. The Chief Executive Officer,
BSES Yamuna Power Limited,
2nd Floor, B Block, Shakti Kiran Bldg.,
Karkardooma, New Delhi – 110092

10. The Chief Executive Officer,
BSES Rajdhani Power Limited,
BSES Bhawan, 2nd 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. The Director (Commercial),
New Delhi Municipal Corporation NDMC,
Palika Kendra, Sansad Marg,
New Delhi – 110 001

13. The Superintending Engineer,
Electricity Wing of Engineering Department,
Union Territory of Chandigarh, Electricity OP Circle,
UT – Chandigarh

14. The Executive Director (Commercial),
Uttarakhand Power Corporation Limited,
UPCL, Urja Bhawan, Kanwali Road, Balliwala Chowk,
Dehradun-248001, Uttarakhand.

15. Tata Power Green Energy Limited,
34, Sant Tukaram Road, Carnac Bunder,
Masjid Bunder (E), Mumbai -400009

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

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

...Respondents

The following were present:

Shri Prashant Kumar, PBTSL
Shri Abhijit Daimari, PBTSL
Shri Yatin Sharma, CTUIL
Shri Siddharth Sharma, CTUIL
Shri Akshyvat Kislay, CTUIL
Shri Lashit Sharma, CTUIL

ORDER

The Petitioner, POWERGRID Bikaner Transmission System Limited, (in Short 'PBTSL'), has filed the present Petition under Section 14 and of the Electricity Act, 2003 (hereinafter referred to as 'the Act') read with the provisions of the Central Electricity



Regulatory Commission (Terms and Conditions for grant of Transmission Licence and other related matters) Regulations, 2009 (hereinafter referred to as 'the Transmission Licence Regulations') for the grant of a separate transmission licence for the Implementation of 1 no. of 220 kV line bay at 400/220 kV Bikaner-II PS for inter-connection of a solar project (NHPC Limited), Implementation of 2 nos. of 220 kV line bays at 400/220 kV Bikaner-II PS for inter-connection of RE power park of ALF Solar Amarsar Pvt. Ltd., Transmission system for evacuation of power from the 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 (3rd) on Regulated Tariff Mechanism mode (hereinafter referred to as the 'transmission scheme/project'). The scope of the project for which a transmission licence has been sought is as under:

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

S 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 to note a)	15 months from the issue of OM by CTUIL, i.e. 27.2.2024
2	Implementation of 220 kV bus sectionalizer along with bus coupler and transfer bus coupler at 400/220kV Bikaner-II PS	220kV bus sectionalizer bay - 1 Set 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)	
Total Estimated Cost:			Rs.29.21 crore

Note:

a) At 220 kV Bikaner-II, future line bays in Section-C are proposed to be allocated to RE developers with bays in the 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.

(b) Implementation of 2 nos. of 220 kV line bays at 400/220 kV Bikaner-II PS for interconnection of RE power park of 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
Total Estimated Cost:			INR 11.68 Crore

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

S. 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.	4x500MVA, 400/220kV ICTs: 31.12.2024 1x500MVA, 400/220kV ICT: 31.1.2025
Total Estimated Cost:			INR 368 Crore**

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

(d) Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220 kV, 1X500 MVA ICT (3rd)

S. 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 rd) along with associated transformer	500 MVA, 400/220 kV ICT – 1 no. 400 kV ICT bay (including associated tie bay) – 1 no. 220 kV ICT bays - 1	18 months from the issue of OM by CTUIL, i.e. 7.12.2024

bays*	no.	
*1 no. of 400kV (AIS) (including associated tie bay) and 1 no. of 220 kV (AIS) transformer bay		
Total estimated cost:		Rs. 55.82 crore

2. PBTSL was incorporated as a special purpose vehicle by PFC Consulting Limited (PFCCL) as part of the Tariff Based Competitive Bidding ('TBCB') process for implementing the "Transmission System Strengthening Scheme for Evacuation of Power from Solar Energy Zones in Rajasthan (8.1 GW) under Phase II-Part F" on a 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, a 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 PBTSL by executing a Share Purchase Agreement with PFCCL on 25.3.2021. PBTSL entered into a 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 a transmission licence to PBTSL for inter-State transmission of electricity to establish the 'Transmission System Strengthening Scheme for Evacuation of Power from Solar Energy Zones in Rajasthan (8.1 GW) under Phase II-Part F" on a Build, Own, Operate, and Maintain ("BOOM") basis consisting of the following elements:

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.	18 months from effective date or June, 2022, whichever is



Sr.	Name of the Transmission Element	Scheduled COD in months from Effective Date
	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	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	
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 a minimum capacity of 2100 MVA on each circuit at a nominal voltage*

3. The Commission has already granted a transmission licence to POWERGRID Bikaner Transmission System Limited under RTM mode vide its order dated 21.11.2022 in Petition No. 137/TL/2022 with the following scope of works.

“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.	2x500 MVA, 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: March, 2023 ICT-II: April, 2023
2.	4 nos. 220 kV line bays	220 kV line bays - 4 nos.	1 no. of bay: March, 2023 1 no. of bay: April, 2023 2 nos. of bays: December, 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.

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

(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.).

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 400/220kV Bikaner-II PS	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 (3 Nos. of Line Bays & 3 Nos. of ICT Bays) -1Set	
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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.

4. Subsequently, the Petitioner filed an amended Petition for the grant of a separate licence for the additional scope of works assigned by CTUIL, vide OMs dated 28.11.2022, 17.1.2023, 16.2.2023, and 8.6.2023. Regarding the grant of a separate transmission licence for the implementation of 1 no. of 220 kV line bay at 400/220 kV Bikaner-II PS for inter-connection of a solar project NHPC Limited, implementation of 2 nos. of 220 kV line bays at 400/220 kV Bikaner-II PS for inter-connection of RE power park of ALF Solar Amarsar Pvt. Ltd., transmission system for the evacuation of power from the 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 (3rd) on the Regulated Tariff Mechanism (RTM) mode" as described in paragraph 1 of the order, the Commission, after considering the application of the Petitioner in light of the provisions of the Act and the Transmission Licence Regulations, vide its order dated 13.11.2023, *prima facie* proposed to grant a transmission licence to the Petitioner. The relevant extract of the order dated 13.11.2023 is extracted as under:

"30. In the present case, the Petitioner does not fulfil any of the eligibility conditions for the grant of a transmission licence. However, in the 6th meeting of the National Committee on Transmission, it was indicated that, as per the revised Terms of Reference issued by the Ministry of Power, Government of India, ISTS projects costing up to Rs. 100 crore or such limit as may be prescribed by the

Ministry of Power from time to time would be approved by CTUIL, including its mode of implementation. The scheme has been identified for implementation through RTM mode by CTUIL. The non-grant of a transmission licence to any agency nominated by NCT to implement a transmission scheme through a regulated tariff mechanism in view of the provisions of Regulation 6 defeats the purpose of the Policy decision of the Government. We are of the view that, considering the strategic importance of the transmission line, it is a fit case for a relaxation of the provisions of Regulation 6 by invoking the power vested under Regulation 24 of the Transmission Licence Regulations.

31. Regulation 24 of the Transmission Licence Regulations, dealing with the power to relax in appropriate cases, provides as under:

“24. The Commission may, when it considers necessary or expedient to do so and for reasons to be recorded in writing, relax or depart from any of the provisions of these regulations”.

32. *It is an established principle of law that the power to relax has to be strictly construed and is to be exercised judiciously and with caution. Further, the power to relax is to be exercised only when undue hardship is caused by the application of the rules or regulations. In the present case, the Petitioner is a transmission licensee who is already implementing the project defined under its scope through the TBCB mechanism. The present Petition is consequent to the office order 28.10.2021 notified by the 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.*

33. *Since the Petitioner is already an inter-State transmission licensee and has been identified as an agency to implement the project as per RTM, the Commission, in the exercise of power under Regulation 24, hereby relaxes the provision of Regulation 6 of the Transmission Licence Regulations and holds that the Petitioner is eligible for the grant of a transmission licence. We, hereby, direct that a public notice under clause (a) of sub-section (5) of Section 15 of the Act be published to invite suggestions or objections to grant a transmission licence aforesaid. The objections or suggestions, if any, shall be filed by any person before the Commission, by 22.11.2023.”*

4. A public notice under Sub-section (5) of Section 15 of the Act was published on 21.11.2023 in all editions of the Times of India (English) and Dainik Jagran (Hindi). No suggestions/objections have been received from members of the public in response to the public notice.

5. The case was called out for hearing on 28.11.2023. 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, it was requested that a transmission licence be granted to the Petitioner Company. The representative of the CTUIL further submitted that CTUIL has already recommended the grant of the transmission licence.

6. Vide Record of Proceedings for the hearing dated 28.11.2023, the CTUIL was directed to furnish its comments/submissions with regard to the compliance of Rule 3(5) of Transmission System Planning Rules and to submit a copy of the approval of the Central Government for the transmission scheme covered in the instant Petition, in terms of the said Rules, 2021 notified by the Ministry of Power on 1.10.2021 on an affidavit within a week. CTUIL, vide its affidavit dated 15.1.2024, has submitted that the National Committee on Transmission ("NCT") was reconstituted *vide* Ministry of Power Office Order dated 28.10.2021 as per the decision made in a meeting held under the Chairmanship of the Hon'ble Minister of Power & NRE on 5.10.2021 to discuss the transmission related issues for renewable energy. In the aforementioned order, it was directed that (a) for the STS Projects costing more than Rs. 500 crore, NCT shall recommend to the Ministry of Power for the implementation of such projects along with their mode of implementation, (B) for ISTS Projects costing between Rs. 100 crore to Rs. 500 crore, NCT shall approve such projects along with their mode of implementation under intimation to the Ministry of Power, (c) for ISTS Projects costing less than or equal to Rs. 100 crore, CTUIL will approve such projects along with their mode of implementation under intimation to NCT



and MoP. CTUIL has further submitted that accordingly, in line with the above order of the Ministry of Power, CTUIL awarded the transmission scheme covered under the instant Petition to the Petitioner. However, as per directions of the Commission, CTUIL, vide its letter dated 15.12.2023 has requested the Ministry of Power to clarify the requirement of approval of the Central Government to transmission schemes under the Transmission System Planning Rules, 2021 for the Projects costing up to Rs. 500 crore approved by NCT/CTUIL as per the Ministry's Order dated 28.10.2021. Any directions or observations received from the Ministry of Power in this regard shall be placed before the Commission. Considering the submissions, CTUIL is directed to place on record the response received from the Ministry of Power as and when it is received. Meanwhile, we proceed to grant the transmission licence to the Petitioner Company so that the construction work of the transmission line may not be hampered.

7. As regards the grant of the transmission licence, Clauses (15) and (16) of Regulation 7 of the 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.”



8. In our order dated 13.11.2023, we had proposed to grant the transmission licence to the Petitioner company and directed the issue of public notice, against which no suggestions/objections have been received as stated above. Further, CTUIL, in its letters dated 21.6.2023 and 22.8.2023, has recommended the grant of a transmission licence to the Petitioner. The Commission, in its order dated 13.11.2023, had observed that the Petitioner fulfils the eligibility conditions for the grant of a transmission licence. Since, in the present case, the Petitioner is a transmission licensee that is already implementing the project defined under its scope through the TBCB mechanism, and the present Petition is consequent to the office order 28.10.2021 notified by the Ministry of Power Government of India, the Commission, vide said order dated 13.11.2023 relaxed the provision of Regulation 6 of the Transmission Licence Regulations and held that the Petitioner is eligible for the grant of a transmission licence. Considering the strategic importance of the transmission line, we, accordingly, direct that the transmission licence be granted to the Petitioner, POWERGRID Bikaner Transmission System Limited, to establish the transmission scheme through the RTM route as per the details given in paragraph 1 above.

9. Considering the above, it is hereby directed that the existing transmission licence of PBTSL granted vide Order in Petition No. 137/TL/2022 dated 21.11.2022 under RTM mode may be amended to include the assets covered in the instant Petition. Accordingly, the transmission licence granted to POWERGRID Bikaner Transmission System Limited under RTM mode shall comprise the following scope of works:

- (i) ***“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
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Order in Petition No. 181/TL/2023

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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

(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.**

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.	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.).**

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 400/220kV Bikaner-II PS	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 (3 Nos. of Line Bays & 3 Nos. of ICT Bays) -1Set	

Note:

b) 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.

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

S. 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 to note a)	15 months from the issue of OM by CTUIL, i.e. 27.2.2024
2	Implementation of 220 kV bus sectionalizer along with bus coupler and transfer bus coupler at 400/220kV Bikaner-II PS	220kV bus sectionalizer bay - 1 Set 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)	
Total Estimated Cost:			Rs.29.21 crore

Note:

a) At 220 kV Bikaner-II, future line bays in Section-C are proposed to be allocated to RE developers with bays in the 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.

(v) Implementation of 2 nos. of 220 kV line bays at 400/220 kV Bikaner-II PS for interconnection of RE power park of 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

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



S. 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.	4x500MVA, 400/220kV ICTs: 31.12.2024 1x500MVA, 400/220kV ICT: 31.1.2025

(vii) Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220 kV, 1X500 MVA ICT (3rd)

S. 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 rd) along with associated transformer bays* *1 no. of 400kV (AIS) (including associated tie bay) and 1 no. of 220 kV (AIS) transformer bay	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. 7.12.2024

10. The grant of the 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 the initial licence period, for the grant of the transmission 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 a 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 provisions of Central Electricity Regulatory Commission (Standard of Performance of inter-State transmission licensees) Regulations, 2012 or subsequent enactment thereof;



- (h) The licensee shall provide the 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 (Connectivity and General Network Access to the inter-State Transmission System) Regulations, 2023; the Central Electricity Regulatory Commission (Indian Electricity Grid Code) Regulations, 2023, 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 the execution of the Project as per the Technical Standards and Grid Standards of CEA; and

(m) 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.

(n) The licensee shall ensure that the EPC contract for the execution of work under the scope of the project is awarded through a competitive bidding process.

11. The 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.

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

13. Petition No. 181/TL/2023 is allowed in terms of the above.

Sd/-
(P.K. Singh)
Member

sd/-
(Arun Goyal)
Member

sd/-
(Jishnu Barua)
Chairperson



Annexure-3

सेंद्रल ट्रान्समिशन यूलिटी 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.: G/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) mode 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 U40100HR2020GCI091857, Tel.: 0124-2571700-719
 पंजीकृत कार्यालय: " प्लॉट नंबर 2, सेक्टर -29, गुरुग्राम -122001 CIN U40100HR2020GCI091857, दूरभाष: 0124-2571700-719

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Duo..

Authorized Signatory
POWERGRID Bikaner Transmission System Ltd.

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Western Region	
10.	Transmission Network Expansion in Power Grid Corporation of India Ltd. 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).

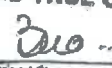
This issues with the approval of Competent Authority.



(Partha Sarathi Das)
Sr. General Manager

Encl: as stated.

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Authorized Signatory
POWERGRID Bikaner Transmission System Ltd



To:

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

Copy to:

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

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Annexure-I**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.

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Southern Region

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

Sl. 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):

Sl. 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

Sl. 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.

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	765 kV D/c line at Chilkaluripeta 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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[Signature]
 Authorised Signatory
 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 buys 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

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Authorised Signatory
POWERGRID Bikaner Transmission System Ltd



POWERGRID BIKANER TRANSMISSION SYSTEM LIMITED
Formerly known as Bikaner-II Bhiwadi Transco Limited
(A Wholly Owned Subsidiary of Power Grid Corporation of India Limited)

Certified True Copy of the Resolution passed at the 18th Adjoined Meeting of Board of Directors of POWERGRID Bikaner Transmission System Limited held on Monday, 22nd August, 2022 at 2:30 p.m. at "Saudamini", Plot No. 2, Sector-29, Gurgaon-122001 through Video Conferencing.

Item No. 18.2.2:

Investment Approval for the RTM Projects allotted to POWERGRID Bikaner Transmission System Limited

x

x

x

The Board passed the following resolution:

"RESOLVED THAT Investment Approval is hereby accorded for an amount of Rs.92.46 Crores for Implementation of 220kV bays and 400/220kV ICTs at Bikaner-II PS and Rs. 5.76 Crores for Implementation of 400 kV line bays at 400/220 kV Bikaner-II PS.

**Certified to be True Copy
For POWERGRID Bikaner Transmission System Limited**

Shwetank Kumar
22/08/2022
**Shwetank Kumar
Ch. Mgr (Co. Sectt.)-POWERGRID
Authorized Person**

**Registered Office
B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi – 110016
Tel: 011 – 26560112, 26560115, Email: mrinal@powergrid.in
CIN: U40300DL2020GOI363669**



I/34253/2024

File No.CEA-PS-16/2/2024-CEI Division



भारत सरकार/Govt. of India
विद्युत मंत्रालय/Ministry of Power
केन्द्रीय विद्युत प्राधिकरण/Central Electricity Authority
मुख्य विद्युत निरीक्षणालय प्रभाग/Chief Electrical Inspectorate Division

To
Shri Abhimanyu Shekhawat
Powergrid Bikaner Transmission System Limited
400/200 kV Bikaner-II Sub-Station
Village- Jaimalsar, Tehsil- Kolayat
District - Bikaner, Pin- 342307

Approval for Energisation

Subject: Approval for energization of Electrical Installations (ICT -02 & ICT tertiary and bay no 202, 205, 206, 417, 418 and associated equipment) of M/s of Powergrid Bikaner Transmission System Limited at village Jaimalsar, Bikaner under Regulation 45 of the Central Electricity Authority (Measures relating to Safety and Electricity Supply) Regulations, 2023.

Ref.: (1) Online Application A/2023/13071 dated 03.02.2024
(2) CEA's order for compliance dated 28.02.2024
(3) M/s PBTSL's compliance report uploaded on portal on 01.03.2024.

Whereas the Electrical Installation (ICT -02 & ICT tertiary and bay no 202, 205, 206, 417, 418 and associated equipment) of M/s PBTSL at village Jaimalsar, Bikaner was inspected on 26.02.2024 by the undersigned under regulation 45 of the Central Electricity Authority (Measures relating to Safety and Electricity Supply) Regulations, 2023.

Approval for Energisation of the said installation (Details of the installation is enclosed) is hereby accorded subject to following:

1. M/s Powergrid Bikaner Transmission System Limited shall ensure to have all other requisite clearances/NOCs from Govt and Local bodies, as applicable, before energisation.
2. Adherence to relevant provisions of Central Electricity Authority (Measures relating to Safety and Electricity Supply) Regulations, 2023 shall be ensured by M/s Powergrid Bikaner Transmission System Limited for safety during operation and maintenance.

The first periodic inspection of the above installation shall be carried out at an interval of 05 years from the date of this inspection under regulation 32 of CEA (Measures relating to safety and Electric Supply) Regulations, 2023. This periodicity is subject to change by Govt order/notification.

Alok Kumar

05.03.2024

(आलोक कुमार)

फ़ोन नंबर : 8376865971

ईमेल: alok.cea@gov.in

प्रतिलिपि: निदेशक, आरआईओ (एन), सीईए, दिल्ली



List of Bays/Equipment to be Energized at 400/220kV Bikaner-II PS under implementation of 220kV Bays of RE Generators and 400/220kV ICTs at Bikaner-II PS.

Sl No	Bay	Equipment Name	Make	MODEL	Rating	SL Number		
						R-Phase	Y-Phase	B-Phase
1		89A	GR POWER	HDB	245KV,2500A,50KA/1 Sec		3965/20931	
2		89B	GR POWER	HDB	245KV,2500A,50KA/1 Sec		3965/20943	
3		89L	GR POWER	HDB	245KV,2500A,50KA/1 Sec		3965/20924	
4		89T	GR Power	HDB	245KV,2500A,50KA/1 Sec		3965/20940	
5	202	Circuit Breaker	Siemens	3AP1FI	245KV		2023/36551	
6		CT	Mehru	800/1600/1	245KV,	OC 12815/3/13/23	OC 12815/3/23/23	OC 12815/3/21/23
7		WT	Quality Power	Fixed Wide Band Filter	3150A,0.5mH,50Hz	4917/5580LT	NA	4917/5581LT
8		CVT	Siemens	TCVT 245	245KV	2CV8509	2CV8508	2CV8507
9		LA	OBLUM	PBC	216KV	92	80	76
10		Isolator with One E/S	GR Power	HDB	245KV,2500A,50KA/1 Sec		3965/20928	
11		Isolator	GR Power	HDB	245KV,2500A,50KA/1 Sec		3965/20946	
12	205	Circuit Breaker	Siemens	3AP1FI	245KV		2023/36548	
13		Isolator with Two E/S	GR POWER	HDB	245KV,2500A,50KA/1 Sec		3965/20920	
14		CT	Mehru	800/1600/1	245KV,	OC12815/3/10/23	OC12815/3/11/23	OC12815/3/12/23
15		LA	OBLUM	PBC	216KV	12	16	19
16		Isolator with One E/S	GR POWER	HDB	245KV,2500A,50KA/1 Sec		3965/20926	
17		Isolator	GR POWER	HDB	245KV,2500A,50KA/1 Sec		3965/20944	
18	206	CB	Siemens	3AP1FI	245KV		2023/36547	
19		Isolator with Two E/S	GR POWER	HDB	245KV,2500A,50KA/1 Sec		3965/20933	
20		Isolator	GR Power	HDB	245KV,2500A,50KA/1 Sec		3965/20941	
21		CT	Mehru	800/1600/1	245KV,	OC12815/3/07/23	OC12815/3/08/23	OC12815/3/09/23
22		Isolator 89A	GR POWER	HDB	420KV,3150A,63KA/1Sec	3965/8293 F1	3965/8293 M	3965/8293 F2
23		Isolator 89AE	GR POWER	VB	420KV,3150A,63KA/1Sec	3965/8293 F1	3965/8293 M	3965/8293 F2
24		Isolator 89B	GR POWER	HDB	420KV,3150A,63KA/1Sec	3965/8295 F1	3965/8295 M	3965/8295 F2
25		Isolator 89BE	GR POWER	VB	420KV,3150A,63KA/1Sec	3965/8295 F1	3965/8295 M	3965/8295 F2
26	418	CT	MEHRU	500/2000/3000	63KA/1 sec	OC 12815/1/4/23	OC 12815/1/5/23	OC 12815/1/6/23
27		89T	GR POWER	HDB	420KV,3150A,63KA/1Sec	3965/8292 F1	3965/8292 M	3965/8292 F2
28		89TE	GR POWER	VB	420KV,3150A,63KA/1Sec	3965/8292 F1	3965/8292 M	3965/8292 F2
29		LA	OBLUM	PBC	336KV	25	26	27
30		Circuit Breaker	SIEMENS	3AP2FI	420KV		36540	



Abhinav
 Sr. Manager/Abhinav
 Sr. Manager/Chief Manager
 Power Grid Bikaner Transmission System Ltd.
 400 KV Substation Bikaner-II

31	ICT	ICT-2	ABB	3 Ph Auto 400/220/33 KV	500 MVA	14116-001			
32	Isolator 89A	GR POWER	HDB	420KV,3150A,63KA/1Sec		3965/8297 F1	3965/8297 M	3965/8297 F2	
33	Isolator 89AE	GR POWER	VB	420KV,3150A,63KA/1Sec		3965/8297 F1	3965/8297 M	3965/8297 F2	
34	Isolator 89B	GR POWER	HDB	420KV,3150A,63KA/1Sec		3965/8296 F1	3965/8296 M	3965/8296 F2	
35	Isolator 89BE	GR POWER	VB	420KV,3150A,63KA/1Sec		3965/8296 F1	3965/8296 M	3965/8296 F2	
36	CT	MEHRU	500/2000/3000	63KA/Sec		OC 12815/1/6/23	12815/1/7/23	OC 12815/1/8/23	
37	Circuit Breaker	SIEMENS	3AP3FI	420KV			2023/36541		
38	LT Transformer	Toshiba	3 Ph, 33/0.33 KV	33/0.433 KV, 630 kVA			2365055		
39	PT	MEHRU	Outdoor Oil cooled	72.5 KV		OP 12815/5/3/23	OP 12815/5/2/23	OP 12815/5/3/23	
40	ICT Tertiary	MEHRU	50/1	72.5KV		OC 12815/4/1/23	OC 12815/4/2/23	OC 12815/4/3/23	
41	Isolator	GR POWER	HDB	72.5 KV			3965/7764		
42	Circuit Breaker	Siemens	3AP1FG	72.5KV			2023/36554		

Abhinav
 400 KV Substation Bikaner-II
 Power Grid Bikaner Transmission System Ltd.





ग्रिड-इंडिया
GRID-INDIA

ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड
(भारत सरकार का उद्यम)
GRID CONTROLLER OF INDIA LIMITED

(A Government of India Enterprise)
[formerly Power System Operation Corporation Limited (Posoco)]

उत्तर क्षेत्रीय भार प्रेषण केंद्र / Northern Regional Load Despatch Centre



कार्यालय: 18-ए, शाहीद जेत सिंह सनसनवाल मार्ग, कटवारिया सराय, नई दिल्ली - 110016
Office : 18-A, Shaheed Jeet Singh Sansanwal Marg, Katwaria Sarai, New Delhi-110016
CIN : U40105DL2009GOI188652, Website : www.nrdc.in, E-mail : nrdc@grid-india.in, Tel.: 011- 26854015, 40224603

Certificate Number: GRID-INDIA/NRLDC/SO/552

Date: 05-11-2024

Certificate of successful Trial Run (without electrical load) as per Clause 25 of CERC (IEGC), 2023

Certificate of completion of Trial Operation of 220 kV Line Bay (202) at Bikaner_2(PBTSL) for 220 kV Bikaner_2- Juna Line.

Reference:

1. POWERGRID BIKANER TRANSMISSION SYSTEM LIMITED (PBTSL) Communication dated 20 Jul 2024 15:00, 23 Jul 2024 16:15, 29 Aug 2024 22:26, vide Format - I and 31 Aug 2024 13:10, vide Format - III regarding the submission of pre charging documents for -

i) 220kV Main Bay 202 of 220 kV Bikaner_2-Juna Line at Bikaner_2 (PBTSL)

2. NRLDC Acknowledgement dated 30 Aug 2024 17:33 vide Format - II and Provisional Approval dated 02 Sep 2024 15:03 vide Format - IV.

3. Real time code issued by NRLDC on request of POWERGRID BIKANER TRANSMISSION SYSTEM LIMITED (PBTSL) Real Time Code No-NR 2409-261

4. POWERGRID BIKANER TRANSMISSION SYSTEM LIMITED (PBTSL) , Communication dated 25 Sep 2024 18:50, 03 Oct 2024 11:42, 21 Oct 2024 12:31, 01 Nov 2024 17:31, vide Format - V regarding the submission of post charging documents.

5. No Objections raised by Beneficiary(ies).

Based on above references, it is hereby certified that the following Transmission elements have been successfully completed the trial operation:

Name of the Transmission Asset:	1. 220 kV Line Bay (202) at Bikaner_2(PBTSL) for 220 kV Bikaner_2-Juna Line.
Owner of the Transmission Asset:	POWERGRID BIKANER TRANSMISSION SYSTEM LIMITED (PBTSL)
Date and Time of Energization for commencement of successful trial run operation	1. 03.09.2024- 16:00 Hrs.
Date/Time of completion of successful trial run operation	1. 04.09.2024- 16:00 Hrs.

Note:

Above mentioned bays was charged at no load as 220kV line is not commissioned.

This certificate is being issued in accordance with Regulation 25 (1) and 25(2) of CERC (Indian Electricity Grid Code) Regulations, 2023 and amendments thereof to certify successful trial run of power system element without electrical load.


Nabarun Roy
Executive Director

Place : New Delhi.

Copy to :

I. Powergrid Bikaner Transmission System Ltd.



II. Member Secretary, NRPC, New Delhi

III. Head, NLDC, New Delhi

IV. Beneficiary(ies)





सेंट्रल ट्रांसमिशन यटिलिटी ऑफ इंडिया लिमिटेड

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

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

Certificate no.: CTU/CMG/RTM/Certificate/2024-25/03

Date: 29-10-2024

CTU Certificate towards completion of Transmission System

(In compliance with requirement of IEGC-2023 to apply for approval of COD)

To,
POWERGRID Bikaner Transmission System Ltd.
400/220kV Bikaner-II Sub-station,
Village Jaimalsar, Bhanipura Road,
Bikaner- 334001, Rajasthan

Project-1: "Implementation of 220 kV bays for RE generators and 400/220kV ICTs at Bikaner-II PS" implemented by "POWERGRID Bikaner Transmission System Ltd." - Bay No.- 202

Project-2: "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." implemented by "POWERGRID Bikaner Transmission System Ltd."

References:

- CTUIL OM dated dated 16.11.2021 and dated 26.04.2022.
- Letter from "POWERGRID Bikaner Transmission System Ltd." with reference no. TBCB-RTM/PBTSL/Completion Certificate dated 21.08.2024 requesting CTU for issuance of the completion certificate.
- Approval letter from CEA with reference no. NRIO/POWERGRID/Bikaner/Raj/2024/316 dated 19.08.2024 for energization of electrical installation (400kV line bay 416) under consideration.
- Approval letter from CEA with reference File No. CEA-PS-16/2/2024-CEI/Division dated 05.03.2024 for energization of electrical installation (ICT-02, ICT tertiary and bay no. 202, 205, 206, 417, 418 and associated equipment) under consideration.
- POWERGRID email dated 04.10.2024 for necessary explanation in case No load charging has not been done due to any reason.
- Undertaking from "POWERGRID Bikaner Transmission System Ltd." signed by Chairman, POWERGRID Bikaner Transmission System Ltd. (Transmission licensee) regarding completion of transmission system.

This is to certify that transmission elements as detailed in Table-A have been completed by M/s "POWERGRID Bikaner Transmission System Ltd." meeting all the requirements of the transmission line, sub-station, communication system & inter-related systems conforming CEA Standards & Regulations including:

- CEA (Technical Standards for Construction of Electrical Plants and Electric lines) Regulation, 2022.



Page 1 of 2

Certificate no.: CTU/CMG/RTM/Certificate/2024-25/03

Date: 29-10-2024

- (ii) CEA (Technical Standards for Connectivity to the Grid) Regulations, 2007.
- (iii) CEA (Technical Standards for Communication in Power System Operation) Regulations, 2020.
- (iv) CEA (Measures relating to Safety and Electricity Supply) Regulations, 2023

Table-A

Sl. No.	Name of the Transmission Elements (as per scope of works under CTU's OM/NCT's letter/MoP's OM)	Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element, if applicable	Date of completion
1	1 no. of 220kV line bay (Bay No. -202 at 400/220kV Bikaner-II S/s for Juna Renewable Energy Pvt. Ltd.) under the scheme "Implementation of 220 kV bays for RE generators and 400/220kV ICTs at Bikaner-II PS"	Not Applicable	25.07.2024
2	"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." (Main Bay No.-416)	Not Applicable	19.08.2024

This Certificate is issued based on the above referred documents/details & the undertaking submitted by "POWERGRID Bikaner Transmission System Ltd." and in accordance with Fourth proviso to Regulation 27(1)(c)(i) of CERC (Indian Electricity Grid Code) Regulations, 2023, to certify that the subject transmission elements are complete as per applicable CEA Standards/Regulations and present certificate can be used to demonstrate Commercial Operation Date [COD] of aforesaid elements. Usage of this Certificate for any other purpose is prohibited.

हस्ताक्षर/Signature:

नाम/Name: Atul Kumar Agarwal

पदनाम/Designation: Chief General Manager

Date: 29-10-2024

Page 2 of 2



पावरग्रिड बीकानेर ट्रांसमिशन सिस्टम लिमिटेड

(पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड की 100% पूर्ण स्वामित्व वाली सहायक कम्पनी)

POWERGRID BIKANER TRANSMISSION SYSTEM LIMITED

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

पता: 400/220 के.वी. बीकानेर-II उपकेन्द्र, ग्राम जयमलसर, भानीपुरा रोड, बीकानेर (राजस्थान) - 334001

Address: 400/220 KV Bikaner-II Sub-station, Village Jaimalsar, Bhanipura Road, Bikaner (Rajasthan) - 334001 **CIN: U40300DL2020GOI363669**

**Certificate as per CERC Tariff Regulations, 2024
and
CERC (Indian Electricity Grid Code) Regulations, 2023**

(For Inter State Transmission System)

It is to certify that "220kV Line Bay (202 - Juna)" under the Transmission system namely "IMPLEMENTATION OF 220KV BAYS AND 400/220KV ICTS AT BIKANER-II PS" Scheme in Northern Region conform to the CEA Technical Standards for Construction, CEA Technical Standards for Connectivity, CEA Technical Standards for Communication, Central Electricity Authority (Measures relating to Safety and Electricity Supply) Regulations, 2010 and Central Electricity Regulatory Commission (Indian Electricity Grid Code) Regulations, 2023 and is capable of operation to its full capacity as per requirements for declaration of commercial operation w.e.f. 03.09.2024 (17:23hrs)

**(Dr. Subir Sen)
Chairman**

POWERGRID Bikaner Transmission System Limited



BEFORE THE HON'BLE CENTRAL ELECTRICITY REGULATORY COMMISSION**AT NEW DELHI****Petition No. 137/TL/2022****IN THE MATTER OF:**

POWERGRID Bikaner Transmission System Limited (PBTSL) Petitioner

v.

U.P. Power Corporation Limited and Ors. Respondents

INDEX

S.No.	Particulars	Pages
1.	Additional Affidavit on behalf of the Respondent No. 17/Central Transmission Utility of India Limited in compliance of Order dated 07.10.2022.	1-4

Filed by:


Atul Kumar Agarwal
 Chief General Manager
 CENTRAL TRANSMISSION UTILITY OF INDIA LTD.
 (Power Grid Company Limited Subsidiary of
 Government of India)
 Central Transmission Utility of India Ltd
 Gaudamini, Gurugram-122 001
 Plot No. 2, Sector-29
 Gurugram-122001(Haryana)

Date: 17.11.2022

Place: Gurugram



**BEFORE THE HON'BLE CENTRAL ELECTRICITY REGULATORY COMMISSION
AT NEW DELHI**

Petition No. 137/TL/2022

IN THE MATTER OF:

POWERGRID Bikaner Transmission System Limited

... Petitioner

v.

U.P. Power Corporation Limited and Ors.

... Respondents

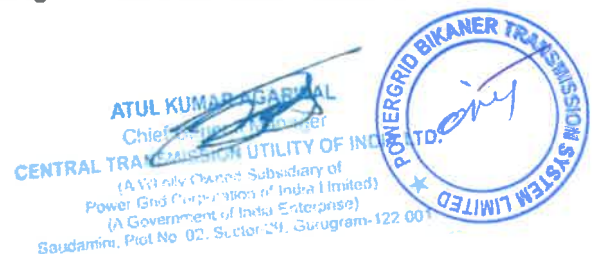
COMPLIANCE AFFIDAVIT ON BEHALF OF RESPONDENT NO. 17/CTU

1. I, Atul Kumar Agarwal, S/o Shri. Om Shankar Agarwal, aged about 57 years, working as Chief General Manager in the Central Transmission Utility of India Ltd. (CTUIL), having its registered Office at Plot No.2, Sector-29, Gurugram, Haryana-122001, do hereby solemnly affirm and state as under:
2. That I am the Chief General Manager in the Respondent No. 17 – Central Transmission Utility of India Ltd. and I am duly authorized to swear the present Affidavit.
3. It is hereby submitted that vide Order dated 07.10.2022 in Petition No. 137/TL/2022 (POWERGRID Bikaner Transmission System Limited v. U.P. Power Corporation Limited and Ors.), CTUIL was directed to get the proposal ratified from the NCT.

Quote

23....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...

4. In this regard, it is submitted that CTU has undertaken preparation for this matter to be ratified and regularized in the next meeting of National Committee on Transmission.



5. Further, CTUIL was also 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. Also, CTUIL was further directed to consider revising the commissioning schedule of transmission elements/systems, if so required.

QUOTE

24...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.

6. In this regard, it is submitted that CTU has communicated to PBTSL/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 23rd JCC meeting of NR held on 22.09.2022. Also, PBTSL was informed about the bay requirement by Juna Renewables Energy Pvt. Ltd at Bikaner-II PS by 30.12.2023.

The updated schedule as communicated is tabulated below:

Table A:- Commissioning Schedule of the RE generators granted Stage-II Connectivity at Bikaner-II PS						
Sr. No.	Stage-II Grantee/Elements	Quantum (MW)/Capacity	Bays Allocated	Schedule		
				Original	Revised	
1	Juna Renewable Energy Pvt Ltd.	335	1 no. of 220kV line bay	Mar'23	30 th Dec'23	
2	ReNew Dinkar Urja Pvt. Ltd.	200	1 no. of 220kV line bay	Apr'23	31 st Mar'24	
3	Khidrat Renewable Energy Private Limited	300	1 no. of 220kV line bay	Dec'23	No Change	
4	TP Surya Limited	300	1 no. of 220kV line bay	Dec'23	No Change	

5	SJVN Ltd.	1000	1 no. of 400kV line bay	01.10.2023	No Change
6	ACME Solar Holdings Pvt. Ltd.	300	1 no. of 220kV line bay	24.11.2023	No Change
7	Prerak Greentech Pvt. Ltd.	340	1 no. of 220kV line bay	24.11.2023	No Change
8	400/220kV ICTs	2x500MVA	NA	ICT-I: Mar'23 ICT-II: Apr'23	ICT-I & II: 24.11.2023
9	220kV bus extension works along with sectionaliser, bus coupler and transfer bus coupler bay	NA	NA	24.11.2023	No Change

7. That the statements made are based on the Respondent Company's official record maintained in the ordinary course of business and I believe that they are true and correct and that nothing material has been concealed therefrom.

ATUL KUMAR AGARWAL
Chief General Manager
CENTRAL TRANSMISSION UTILITY OF INDIA LTD.
(A Publicly Owned Subsidiary of
Power Grid Corporation of India Limited)
(A Government of India Enterprise)
Saudamini, Plot No. 28, Sector-29, Gurugram-122 001
(DEPONENT)

VERIFICATION

Solemnly affirmed at Gurugram on this the 17th day of November, 2022 that the contents of this affidavit are based on the Respondent company's official record maintained in the ordinary course of business and I believe that they are true and correct and that nothing material has been concealed therefrom.



ATTESTED
RAM NIWAS MALIK, ADVOCATE
NOTARY, GURUGRAM (HR.) INDIA

ATUL KUMAR AGARWAL
Chief General Manager
CENTRAL TRANSMISSION UTILITY OF INDIA LTD.
(A Publicly Owned Subsidiary of
Power Grid Corporation of India Limited)
(A Government of India Enterprise)
Saudamini, Plot No. 28, Sector-29, Gurugram-122 001
(DEPONENT)





सेंट्रल ट्रान्समिशन 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)

संदर्भ/Ref: CTU/CMG/28th NR-JCC/MoM

दिनांक/Date: 26.02.2024

वितरण सूची के अनुसार/ As per Distribution List

विषय: उत्तरी क्षेत्र में विद्युत उत्पादन एवं पारेषण परियोजनाओं के लिए 28^{वीं} संयुक्त समन्वय समिति की बैठक – बैठक के कार्यवृत्त / 28th Joint Co-ordination Committee Meeting for Generation & Transmission projects of Northern Region- Minutes of Meeting

महोदय/महोदया/ Sir/ Ma'am,

उत्तरी क्षेत्र की संयुक्त समन्वय समिति की 28^{वीं} बैठक 05 जनवरी, 2024 को वीडियो कॉन्फ्रेंस के माध्यम से उत्पादन और ISTS पारेषण परियोजनाओं की स्थिति की समीक्षा करने के लिए आयोजित की गई थी। इस संबंध में, उत्पादन प्रोजेक्ट्स और संबंधित ISTS पारेषण प्रणाली की प्रगति का संकेत देते हुए बैठक के कार्यवृत्त संलग्न है। उक्त कार्यवृत्त सी.टी.यू. की वेबसाइट (www.ctuil.in) >> ISTS Planning and Coordination >> Joint Coordination Committee Meetings >> Northern Region) पर भी उपलब्ध है।

The 28th meeting of Joint Co-ordination Committee was held on 5th January, 2024 through Video Conference to review the status of upcoming generation & transmission projects in the Northern Region. In this regard, please find enclosed the Minutes of Meeting indicating the progress of generation projects and associated ISTS transmission system. The same is also available on CTU website (www.ctuil.in) >> ISTS Planning and Coordination >> Joint Coordination Committee Meetings >> Northern Region).

धन्यवाद/ Thanking you,

भवदीय / Yours faithfully,


(Rajesh Verma)
General Manager



प्रतिलिपि/ Copy to (for kind information please):

Director (Transmission) Ministry of Power Govt. of India, Shram Shakti Bhawan, Rafi Marg, New Delhi-110001	Chief Engineer Ministry of New and Renewable Energy Block-14, CGO Complex, Lodhi Road, New Delhi-110 003
Chief Engineer (PSP&A-I) Central Electricity Authority, Sewa Bhawan, R K Puram, New Delhi – 110066	Chief Engineer-I/C (PSPM) Central Electricity Authority, Sewa Bhawan, R K Puram, New Delhi – 110066
Joint Chief (Engineering) Central Electricity Regulatory Commission, 3rd & 4th floor, Chanderlok Building, 36, Janpath, New Delhi – 110001	Director (Solar) Solar Energy Corporation of India Ltd. D-3, 1st Floor, A-wing, Religare Building, District Centre, Saket, New Delhi-110017



Sl. No.	Connectivity Applicant	Connectivity under GNA-Quantum (MW)	Generation Comm. Schedule (27 th JCC)	Schedule as per 28 th JCC		Connectivity Start Date under GNA & Likely Effectiveness Date	Deliberation/ Remarks
				Generation Comm. / Connectivity Line & Schedule	Under ISTS Scope		
					Rajasthan REZ Ph-IV (Part-1) (Bikaner Complex: 7.7GW) Exp- Dec'25		
Bikaner-II							
45.	Juna Renewable Energy Private Limited 1200003233 L&FC	290	290MW- 31.12.2024	Generation : 290MW- 31.12.2024 Dedicated system : Juna Renewable Energy Pvt. Ltd. Solar Power Project – Bikaner-II PS 220kV S/c line on D/c tower Sharing with 1200003389 (Juna Renewable 45MW) DTL- 28.02.2024	Connectivity under GNA: 1 no. 220 kV bay at Bikaner-II PS; awarded to PBTSL Bay No. 202 Expected – 31 st Jan'24 <ul style="list-style-type: none">Augmentation of 2x500MVA (3rd & 4th) 400/220 kV ICTs at Bikaner –II PSAugmentation of 1x1500 MVA (4th), 765/400kV ICT at	31.12.2024 (Interim) Connectivity likely to be operationalized upon commissioning of Transmission system, i.e. 31.12.2024	Status updated in meeting



Sl. No.	Connectivity Applicant	Connectivity under GNA-Quantum (MW)	Generation Comm. Schedule (27 th JCC)	Schedule as per 28 th JCC		Connectivity Start Date under GNA & Likely Effectiveness Date	Deliberation/ Remarks
				Generation Comm. / Connectivity Line & Schedule	Under ISTS Scope		
046.	Juna Renewable Energy Pvt. Ltd 1200003389 L&FC	45 MW (Enhancement to 290 MW plant)	45MW-31.12.2024	Generation PS: 30.11.2024	Bikaner (PG) -Exp. 31.03.24 <ul style="list-style-type: none"> Rajasthan (8.1 GW) under phase-II- Part G March'24 Bhinmal – Zerda Line Exp.- 14 th May'24.	31.12.2024 (Interim)	Status updated in meeting
				Generation : 45MW-31.12.2024 Dedicated system: Juna Renewable Energy Pvt Ltd. Solar Power Project – Bikaner-II PS 220 KV S/c line on D/c tower DTL- 29.02.2024 Generation PS: 30.11.2024	Connectivity System under GNA: 1 no. 220 kV bay at Bikaner-II PS; awarded to PBTSL Bay No. 202 Expected – 31 st Jan'24 <ul style="list-style-type: none"> Rajasthan (8.1 GW) under phase-II- Part G Mar'24 Bhinmal – Zerda Line 	Start date of Connectivity under GNA: 31.12.2024 (Interim) Connectivity likely to be operationalized upon commissioning of Transmission system, i.e. 31.12.2024	



Sl. No.	Connectivity Applicant	Connectivity under GNA-Quantum (MW)	Generation Comm. Schedule (27 th JCC)	Schedule as per 28 th JCC		Connectivity Start Date under GNA & Likely Effectiveness Date	Deliberation/ Remarks
				Generation Comm. / Connectivity Line & Schedule	Under ISTS Scope		
47.	Khidrat Renewable Energy Private Limited 1200003390 L&FC	300	300MW: 30/11/2024	Generation : 300MW: 30/11/2024 Dedicated system: Khidrat Renewable Energy Private Limited – Solar Power Project – Bikaner-II PS 220 kV S/c line on D/c tower DTL: 30/10/2024	Connectivity under GNA: 220 kV bay at Bikaner-II PS: awarded to PBTSL Bay No. 207 Charged on 01.01.2024 • Rajasthan REZ Ph-IV (Part-1) (Bikaner Complex: 7.7GW) Exp- Dec'25	Start date of Connectivity under GNA: 30.09.2025 (Interim) Connectivity likely to be operationalized upon commissioning of Transmission system, i.e. Dec'25	Transmission Charges shall be applicable for the bays after charging. Land acquired-1290 acre; Section 68 granted.
48.	Amplus Ages Private Limited 1200003624	38	31.10.2023	Generation PS: 30/11/2024 Generation: 09.01.2024 Charging completed 100MW	Connectivity under GNA: • Bhinmal – Zerda Line Exp.- 14 th May'24.	Start date of Connectivity under GNA: 30.09.2025 (Interim)	





सेंद्रल ट्रान्समिशन यूलिटी 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)

संदर्भ/Ref: CTU/CMG/29th NR-JCC/MoM

दिनांक/Date: 16.05.2024

वितरण सूची के अनुसार/ As per Distribution List

विषय: उत्तरी क्षेत्र में विद्युत उत्पादन एवं पारेषण परियोजनाओं के लिए 29^{वीं} संयुक्त समन्वय समिति की बैठक – बैठक के कार्यवृत्त / 29th Joint Co-ordination Committee Meeting for Generation & Transmission projects of Northern Region- Minutes of Meeting

महोदय/महोदया/ Sir/ Ma'am,

उत्तरी क्षेत्र की संयुक्त समन्वय समिति की 29^{वीं} बैठक 27 मार्च, 2024 को वीडियो कॉन्फ्रेंस के माध्यम से उत्पादन और ISTS पारेषण परियोजनाओं की स्थिति की समीक्षा करने के लिए आयोजित की गई थी। इस संबंध में, उत्पादन प्रोजेक्ट्स और संबंधित ISTS पारेषण प्रणाली की प्रगति का संकेत देते हुए बैठक के कार्यवृत्त संलग्न है। उक्त कार्यवृत्त सी.टी.यू. की वेबसाइट (www.ctuil.in >> ISTS Planning and Coordination >> Joint Coordination Committee Meetings >> Northern Region) पर भी उपलब्ध है।

The 29th meeting of Joint Co-ordination Committee was held on 27th March, 2024 through Video Conference to review the status of upcoming generation & transmission projects in the Northern Region. In this regard, please find enclosed the Minutes of Meeting indicating the progress of generation projects and associated ISTS transmission system. The same is also available on CTU website (www.ctuil.in >> ISTS Planning and Coordination >> Joint Coordination Committee Meetings >> Northern Region).

धन्यवाद/ Thanking you,

भवदीय / Yours faithfully,

(Ranveer Singh)
Chief Manager



प्रतिलिपि/ Copy to (for kind information please):

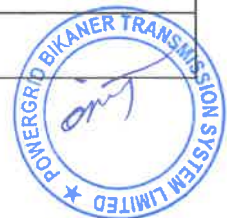
Director (Transmission) Ministry of Power Govt. of India, Shram Shakti Bhawan, Rafi Marg, New Delhi-110001	Chief Engineer Ministry of New and Renewable Energy Block-14, CGO Complex, Lodhi Road, New Delhi-110 003
Chief Engineer (PSP&A-I) Central Electricity Authority, Sewa Bhawan, R K Puram, New Delhi – 110066	Chief Engineer-I/C (PSPM) Central Electricity Authority, Sewa Bhawan, R K Puram, New Delhi – 110066
Joint Chief (Engineering) Central Electricity Regulatory Commission, 3rd & 4th floor, Chanderlok Building, 36, Janpath, New Delhi – 110001	Director (Solar) Solar Energy Corporation of India Ltd. D-3, 1st Floor, A-wing, Religare Building, District Centre, Saket, New Delhi-110017



Sl. No.	Connectivity Applicant	Connectivity under GNA-Quantum (MW)	Generation Comm. Schedule (28 th JCC)	Schedule as per 29 th JCC		Connectivity Start Date under GNA & Likely Effectiveness Date	Deliberation/ Remarks
				Generation Comm. / Connectivity Line & Schedule	Under ISTS Scope		
				Generation PS: 31/03/2025	4th)765/400 kV ICTs at Bikaner-III Pooling Station <ul style="list-style-type: none"> Augmentation of 2x1500 MVA (3rd & 4th), 765/400 kV ICTs at Neemrana-II S/s Rajasthan REZ Ph-IV (Part-1) (Bikaner Complex: 7.7GW) Exp- Dec'25		
Bikaner-II							
62.	Juna Renewable Energy Private Limited 1200003233 L&FC	290	290MW-31.12.2024	Generation : 290MW: 31.12.2024 Dedicated system : Juna Renewable Energy Pvt. Ltd. Solar Power Project -- Bikaner-II PS 220kV S/c line on D/c tower	Connectivity under GNA: 1 no. 220 kV bay at Bikaner-II PS; awarded to PBTSL Bay No. 202 Expected – 31 st Jan'24 • Augmentation of 2x500MVA (3rd & 4th) 400/220 kV ICTs at Bikaner –II PS	Start date of Connectivity under GNA: 31.12.2024 (Final) Connectivity likely to be operationalized on 31.12.2024	Status updated in meeting Land acquisition completed.



Sl. No.	Connectivity Applicant	Connectivity under GNA-Quantum (MW)	Generation Comm. Schedule (28 th JCC)	Schedule as per 29 th JCC		Connectivity Start Date under GNA & Likely Effectiveness Date	Deliberation/ Remarks
				Generation Comm. / Connectivity Line & Schedule	Under ISTS Scope		
				Sharing with 1200003389 (Juna Renewable 45MW) DTL- 30.06.2024 Generation PS: - 30.06.2024	<ul style="list-style-type: none"> Augmentation of 1x1500 MVA (4th), 765/400kV ICT at Bikaner (PG) -Exp. 31.03.24 Rajasthan (8.1 GW) under phase-II- Part G Jun'24 Bhinmal – Zerda Line Exp.- 30 th Apr'24.		
63.	Juna Renewable Energy Pvt. Ltd 1200003389 L&FC	45 MW (Enhancement to 290 MW plant)	45MW- 31.12.2024	Generation : 45MW- 31.12.2024 Dedicated system: Juna Renewable Energy Pvt Ltd. Solar Power Project – Bikaner-II PS 220 kV S/c line on D/c tower DTL- 30.06.2024 Generation PS: - 30.06.2024	Connectivity System under GNA: 1 no. 220 kV bay at Bikaner-II PS; awarded to PBTSL Bay No. 202 Expected – 31 st Jan'24 <ul style="list-style-type: none"> Augmentation of 1x500MVA (4th) 400/220 kV ICTs at Bikaner –II PS Augmentation of 1x1500 MVA (4th), 765/400kV ICT at Bikaner (PG) 	Start date of Connectivity under GNA: 31.12.2024 (Final) Connectivity likely to be operationalized on 31.12.2024	Status updated in meeting



Sl. No.	Connectivity Applicant	Connectivity under GNA- Quantum (MW)	Generation Comm. Schedule (28 th JCC)	Schedule as per 29 th JCC		Connectivity Start Date under GNA & Likely Effectiveness Date	Deliberation/ Remarks
				Generation Comm. / Connectivity Line & Schedule	Under ISTS Scope		
				<ul style="list-style-type: none"> Rajasthan (8.1 GW) under phase-II- Part G Mar'24 Bhinmal – Zerda Line Exp.- 30th Apr'24. 			
64.	Khidrat Renewable Energy Private Limited 1200003390 L&FC	300	300MW: 30/11/2024	Generation : 300MW: 31/01/2025 Dedicated system: Khidrat Renewable Energy Private Limited Solar Power Project – Bikaner-II PS 220 kV S/c line on D/c tower DTL: 31/12/2024 Generation PS: 31/12/2024	Connectivity under GNA: 220 kV bay at Bikaner-II PS: awarded to PBTSL Bay No. 207 Charged on 01.01.2024 <ul style="list-style-type: none"> Rajasthan REZ Ph-IV (Part-1) (Bikaner Complex: 7.7GW) Exp- Dec'25 Bhinmal – Zerda Line Exp.- 30th Apr'24. 	Start date of Connectivity under GNA: 27.12.2025 (final) Connectivity likely to be operationalized upon commissioning of Transmission system, i.e. 27.12.2025	Transmission Charges shall be applicable for the bays after charging. Land acquired-100%; Section 68 & 164 granted.



पावरग्रिड बीकानेर ट्रांसमिशन सिस्टम लिमिटेड

(पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड की 100% पूर्ण स्वामित्व वाली सहायक कम्पनी)

POWERGRID BIKANER TRANSMISSION SYSTEM LIMITED

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

पता: 400/220 के.वी, बीकानेर-II उपकेन्द्र, ग्राम जयमलसर, भानीपुरा रोड, बीकानेर (राजस्थान) – 334001

Address: 400/220 KV Bikaner-II Sub-station, Village Jaimalsar, Bhanipura Road, Bikaner (Rajasthan) – 334001

CIN:U40300DL2020GOI363669

Ref: NR-1/PBTSL/Bikaner-II/Trial Run Notice/JUNA

Date: 17.08.2024

To,

1. Executive Director, CTUIL
2. Chairman & Managing Director, Rajasthan Rajya Vidyut Prasaran Nigam Ltd, Vidhyut Bhawan, Janpath, Jaipur-302005.
3. Chief Engineer (LD), State Load Despatch Centre, Rajasthan Rajya Vidyut Prasaran Nigam Ltd., Ajmer Road, Heerapura, Jaipur-302024

Subject: Trial Run Notice for 220 kV Line Bay 202 at 400/220 kV Bikaner-II SS-Reg.

Dear Sir,

This is in continuation to our previous letters Ref: NR-1/PBTSL/Bikaner-II/Trial Run Notice/JUNA/&02 dated: 17.07.2024 & 23.07.2024, it is to inform you that charging of 220 kV Line Bay 202 at 400/220 kV Bikaner-II SS has been rescheduled on 31.08.2024 due to some unavoidable hindrance on the earlier mentioned date (31.07.2024).

In view of the above, the trial run of the 220 kV Line Bay 202 shall commence w.e.f. 31.08.2024 and After 24 Hrs. of successful completion of trial run, DOCO/Commercial Operation shall be declared

Yours Sincerely,

Abhimanyu Shekhawat

अभिमन्यु शर्मा / Abhimanyu Shekhawat
उप-प्रबन्धक / Deputy General Manager
पावर ग्रिड बीकानेर ट्रांसमिशन सिस्टम लिमिटेड
Power Grid Bikaner Transmission System Ltd.
400 के.वी. बीकानेर-II एस
400 KV Substation Bikaner-II

CC:

1. Head, NRLDC- New Delhi,
2. GM (Planning NR)-CTU, Gurugram.
3. ED, NR-1 & CGM Jaipur/Bikaner for kind information

पंजीकृत कार्यालय: बी 9, कुतुब इंस्टीट्यूशनल एरिया, कटवारिया सराय, नई दिल्ली – 110016 दूरभाष -011 6560121 (ई पी बी एक्स) फैक्स: 6560039

Registered Office: B-9, Qutub Institutional Area, Katwaria Sarai, New Delhi – 110016, Ph: 26560121(EPBAX), Fax: 011-26560112

उत्तरी क्षेत्र पारेषण प्रणाली- I, क्षेत्रीय कार्यालय: एस.सी.ओ. बें. 5-10 सेक्टर 16A, फरीदाबाद – 121002, हरियाणा

Northern Region Transmission System-I, Regional Head Office, CO BAY No. 5 – 10, Sector 16A, Faridabad, Haryana 121002



6. Chairman & Managing Director, Punjab State Transmission Corporation Ltd. Regd. Office, PSEB Head office, The Mall, Patiala-147 001.
7. Chief Engineer (SLDC), SLDC Building, near 220KV grid substation, PSTCL, Ablawal, Patiala-147001.
8. Managing Director, PTCUL, VidyutBhawan, Near I.S.B.T. crossing, Sharanpur Road, Majra, Dehradun-248001.
9. Chief Engineer (SLDC), VidyutBhawan, Saharanpur Road, Majra, Near ISBT, Dehradun-248001, Uttarakhand
10. Managing Director, HPSEB Limited, Kumar House, VidyutBhawan, Shimla-171 004Himachal Pradesh.
11. Director (SLDC), HP State Load Dispatch Centre, Totu, Shimla-171 001.
12. Chairman & Managing Director, Haryana VidyutPrasaran Nigam Ltd., Shakti Bhawan, Sector-6, Panchkula, Distt. Ambala, Haryana-134 109.
13. Chief Engineer (SO & SLDC), Haryana VidyutPrasaran Nigam Ltd., Shakti Bhawan, Sector-6, Panchkula, Distt. Ambala, Haryana-134 109. Ph: 01722560547.
14. Chief Engineer (Power System), 5th-floor Uttar Pradesh Power transmission Corporation Ltd., Shakti Bhawan, 14Ashok Marg, Lucknow-226 001.Ph: 2287879.
15. Chairman & Managing Director, Uttar Pradesh Power transmission Corporation Ltd., Shakti Bhawan, 14- Ashok Marg, Lucknow-226 001.
16. Director (SLDC), VibhutiKhand, Phase-2, Gomti Nagar, Lucknow-226010, Uttar Pradesh
17. Development Commissioner, Power Development Department (J&K), Lottery Building, Behind Civil Secretariat, Srinagar, J&K Pin code: 190009 Fax no. 0194-2452173.
18. Development Commissioner, Power Development Department (J&K), Grid Station Complex, Janipur, Jammu. 0191-2530265
19. Executive Engineer, SLDC Building, 220KV Gladini Grid Station Complex, NarwalBala, Gladini-180016, J&K.
20. Chief Engineer, UT of Chandigarh (Elec. Deptt. 1st Floor), Sector 9-D, Chandigarh160019.
21. Superintending Engineer (Elect. Op), UT of Chandigarh (Elec. Deptt. 5th Floor), Sector 9-D, Chandigarh-160019. Ph: 0172- 2703242
22. Director (Operation), Nuclear Power Corporation of India Ltd, 16th Floor, Centre-I, World Trade Centre, Cuffe Parade, Colaba, Mumbai - 400 005, India.
23. Station Director, Narora Atomic Power Station, Narora, Distt. - Bulandshahar, Uttar Pradesh-202389, FAX:05734-222177
24. Station Director, Rajasthan Atomic Power Station (B & C), Anu Shakti vihar Kota, Anu Shakti, Rajasthan-323303, FAX: 01475-242190
25. Executive Director (OS), NTPC, Core-6, Scope Complex, Lodhi Road-110003, New Delhi
26. Regional Executive Director (NC), NTPC, NCR Headquarters, EOC Building, 11th Floor, OS Dept., Plot No.-8A, Sector-24, Noida, Uttar Pradesh-201301.
27. Regional Executive Director (NR), NTPC, Northern Region Headquarters, TC 33/V1, VibhutiKhand, Gomti Nagar, Lucknow226010.
28. Executive Director (Comml.) NHPC Ltd., NHPC Office Complex, Sector-33, FARIDABAD-121003, Haryana.

29. Executive Director (O&M) NHPC Ltd., NHPC Office Complex, Sector-33, FARIDABAD-121003, Haryana.
30. Chairman and Manager Director, SJVN Ltd, Shakti Sadan, Corporate Office Complex, Shanan, Shimla-171006, Himachal Pradesh. Tel: 0177-2660010, FAX: 0177-2660011
31. General Manager, SJVN Ltd, Nathpa Jhakri Hydro Power Station, Tehsil Rampur, Himachal Pradesh- 172201. FAX: 0177-2673283
32. General Manager(C&SO), SJVN Limited, Sharma Niwas, Below BCS, New Shimla, Shimla, Himachal Pradesh-171009. Tel No.: 0177-2673463, Fax No.: 0177-2673283
33. General Manager (Project), Koteswar, Koteswar puram, THDC India Ltd., Bhagarath Bhawan, Bhaghirath Puram, Tehri (Garhwal), Uttarakhand- 249 001, FAX: 01376-235282
34. General Manager (Project), THDC India Ltd., Bhagarath Bhawan, Bhaghirath Puram, Tehri (Garhwal), Uttarakhand- 249 001, FAX: 01376-235282
35. General Manager (OMS, QA & Safety), THDC India Ltd., Pragatipuram, Bypass Road, Rishikesh- 249201, Uttarakhand
36. Head of the plant, Karcham Wangtoo Hydro Electric Project (KWHEP), 1000MW, Sholto colony, JPVL, Post office- Tapri, Tehsil-Nichar, District-Kinnaur (HP), Pincod-172104
37. Chairman, Bhakra Beas Management Board, sector-19-B, Madhya Marg, Chandigarh-160019
38. Director (PR), BBMB, SLDC Complex, Industrial Area, Phase-I, Chandigarh-160002
39. CEO, Power links Transmission Ltd. 10th Floor, DLF Tower A, District Centre Jasola, New Delhi -110025.
40. Director, Operations, Powerlinks Transmission Ltd., 10th Floor, DLF TowerA, District Centre, Jasola, New Delhi-110044
41. CEO, JaypeePowergrid Ltd., JA House, 63, BasantLok, Vasant Vihar, New Delhi-110057. Fax: +91 11 26148890, 26142726
42. Executive Director & CEO, Jaypee Powergrid ltd F-Block, Sector -128 Noida- U.P.
43. Executive Director (NR-1), POWERGRID, SCO, Bay 5-10, Sector-16A, Faridabad, Haryana-121002
44. Executive Director (NR-2), POWERGRID, Grid Bhawan, Rail Head Complex, Jammu- 180012.
45. Executive Director, NR-3, POWERGRID, 12, MaharanaPratap Marg, Near Sikandar Bag Chauraha, Lucknow-226001
46. Director, Adani Power Ltd, AdaniHouse, Plot No.83, Institutional Area, Sector 32, Gurgaon, Haryana-122001
47. Head Plant, Greenko Budhil Hydro Power Project, Village- Thalla, P.O.- Ghared, Tehsil- Bharmour, Distt. -Chamba, Himachal Pradesh-176315.
48. A.G.M. (BD), ADHPL, Bhilwara Towers, A-12 Sector-1, Noida-201301
49. GM (OS), NRHQ NTPC Ltd TC-33/V-1, Vibhuti Khand, Gomti Nagar Lucknow-201301
50. General Manager, Singrauli Super thermal Power Station, NTPC, P.O. -Shakti Nagar, Distt. - onebhadra, Shakti Nagar, Uttar Pradesh-231 222, FAX: 05446-232021



51. General Manager, Rihand Super thermal Power Station (stage- I, II& III), NTPC, P.O. -Rihand Nagar, Distt. -Sonebhadra, Shakti Nagar, Uttar Pradesh-231 223, FAX: 05446-242437
52. Head of Project, NTPC-Dadri, Vidyut Nagar-201008, Distt. Gautam Budh Nagar, UP
53. General Manager (stage I, II & III), Firoz Gandhi Unchahar Thermal Power Project, P.O. Unchahar, Distt. Rai Bareilly, Uttar Pradesh, FAX: 05311-212210
54. General Manager, Auraiya Gas Power Project, P.O. Dibiyapur, Distt. Etawah, Uttar Pradesh-206 244, FAX: 05683-282341
55. General Manager, Anta Gas Power Proeject, Distt. Baran, Rajasthan-325 209, FAX: 07457-246066
56. General Manager, Uri Power Station, NHPC Ltd., Gingle, P.O. -Mohra, DisttBaramulla, J & K-193122, FAX:011-23736496
57. General Manager, URI PROJ STAGE-II NHPC OFFICE COMPLEX RAJARWANI POST OFF. LAGAMA, TEHSIL URI, DISTT. BARAMULLA J&K - 193 125
58. General Manager, Salal Hydro Electric Project, NHPC Ltd., P.O. Jyotipuram, Via Reasi, Distt. Udhampur, J & K-182 312, FAX: 01991-255706
59. GM, Chamera Hydro Electric Project-I, NHPC Ltd., P.O. Khairi, Distt. Chamba, Himachal Pradesh- 176 325, FAX: 01899-263387
60. General Manager, Chamera Hydro Electric Project-II, NHPC Ltd., Post Bag No. 2, Karian, Distt. Chamba, Himachal Pradesh- 176 310, FAX: 01899-220030
61. General Manager, CHAMERA H.E. PROJECT STAGE-III, N.H.P.C. LIMITED, DHARBALA, DISTT. CHAMBA, 176310 HIMACHAL PRADESH
62. General Manager, Bairasuil Hydro Electric Project, NHPC Ltd., Surangini, Distt. Chamba, Himachal Pradesh- 176 317, FAX: 01896-238101, 232301
63. General Manager, Tanakpur Hydro Electric Project, NHPC Ltd., P.O. -T.P. S Campus, Banbassa, Distt. Champawat, Uttaranchal- 262310, FAX: 05943-263077
64. General Manager, Dhauliganga Hydro Electric Project, NHPC Ltd., P.B. NO.1, Tapovan, Dharchula, Pithoragarh, Uttaranchal- 262545, FAX: 011-23341412
65. General Manager, Sewa -II Hydro Electric Project, NHPC Ltd., Post Bag No. 2, P.O. khairi, Distt. Chamba, Himachal Pradesh- 176325,
66. General Manager, Dulhasti Hydro Electric Project, NHPC Ltd., Chenab Nagar, SectorII, Dist-Kistwar, J &K- 182 206, FAX: 01995-260361
67. Chief Engineer, Parbati HE Project StagelIII, Behali, P.O-Larji Kullu-175122, Himachal Pradesh
68. The General Managar, Parbati-II, HEP, NHPC Ltd. E&M Complex, Sainj, Distt. Kullu 175134, Himachal Pradesh
69. DGM Electrical, Sainj HEP, HPPCL, Larji, Distric - Kullu, Himachal Pradesh, 175122
70. The Chief Engineer (Electrical), Kishanganga HEP, Office cum Residential colony, Kralpora, Distt: Bandipora, Jammu and Kashmir-193502
71. Head Plant, Indira Gandhi Super Thermal Power Project (IGSTPP), Jharli, District Jhajjar, Haryana- 124141
72. General Manager, Shree Cement TPS, Bangur Nagar, Post Box No. 33, Beawar-305901, Distt. -Ajmer (Rajasthan)



73. Chairman & Managing Director, Parbati Koldam Transmission Company Ltd., Office No. 1A, JMD Galleria 5th floor, plot no. 12-D, Sector 48, Sohna road Gurgaon- 122001
74. Adani Transmission (I) Ltd, 7-A, Sambhav building, Judges Bungalow Road, Bodakdev, Ahmedabad-380015
75. Mr. Rajesh Sirigirisetty, Business Development, Adani Transmission Limited, 3rd Floor-South Wing, Adani Corporate House, Adani Shantigram, S G Highway, Ahmedabad 382 421, Gujarat, India.
76. The Vice President, NRSS XXIX TL, RAPP TL &GPTL, F-1, Mira Corporate Suite, Ishwar Nagar, Mathura Road, New Delhi – 110065
77. General Manager, JAYPEE POWERGRID Limited, JA House, 63, Basant Lok, Vasant Vihar, New Delhi-110057
78. The CEO, Meja Urja Nigam (P) Ltd, P.O.- kohdar, Tehsil- Meja, Allahabad 212301, Uttar Pradesh
79. The Sr. Manager, RENEW SOLAR POWER Pvt. Ltd, Commercial Block-1, Zone 6, Golf Course Road, DLF City phase-V, Gurugram 122009, Haryana
80. The Vice President, Operation and Maintenance, Azure Power India Pvt Ltd. (Bhadla SPD), 3rd Floor, Asset 301-304 &307, Word Mark-3, Aerocity, New Delhi 110037, Delhi
81. The Vice President O&M, SB Energy Four Limited, 1st Floor, Wordmark-2, Asset Area -8 ospitality, Aerocity, NH-8 110037, Delhi
82. Associate Vice President (BD- HOD), Mahoba Solar (UP) Pvt Ltd, 4th floor, South Wing, Adani Corporate House, Shantigram, Near Vaishnav Devi Circle, SG Highway, Ahmedabad 382 421, Gujarat, India
83. The Project Head, Tata Power Renewable Energy Ltd. Corporate Centre, A Block, 34, Sant Tukaram Road, Camac Bunder, Mumbai – 400009
84. The Manager – O&M Solar, ACME Chittorgarh Solar Energy Pvt. Ltd. Plot #152, Sector - 44, Gurgoan 122002, Haryana
85. The Sr. Manager, Clean Solar Power (Bhadla) Pvt. Ltd, 1st Floor, Plot 201, Okhla Industrial Estate, Phase III, New Delhi 110020, Delh
86. General Manager, Grian Energy Pvt. Ltd.
87. Senior Manager, Juna Renewable Energy Pvt. Limited.
88. General manager, TP Saurya.
89. General Manager, Khidrat Renewable Energy Private Limited.
90. General Manager, Renew Power Pvt. Limited.
91. Senior Manager, Prerak Greentech Pvt. Limited.
92. Executive Engineer, RRVPNL-Bikaner.
93. SE, JdVVNL-Bikaner.



पावरग्रिड बीकानेर ट्रांसमिशन सिस्टम लिमिटेड

(पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड की 100% पूर्ण स्वामित्व वाली सहायक कम्पनी)

POWERGRID BIKANER TRANSMISSION SYSTEM LIMITED

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

पता: 400/220 के.वी. बीकानेर-II उपकेन्द्र, ग्राम जयमलसर, भानीपुरा रोड, बीकानेर (राजस्थान) – 334001

Address: 400/220 KV Bikaner-II Sub-station, Village Jaimalsar, Bhanipura Road, Bikaner (Rajasthan) – 334001

CIN:U40300DL2020GOI363669

Ref: NR-1/PBTSL/Bikaner-II/Trial Run Notice/JUNA

Date: 17.07.2024

To,

1. Executive Director, CTUIL
2. Chairman & Managing Director, Rajasthan Rajya Vidyut Prasaran Nigam Ltd, Vidhyut Bhawan, Janpath, Jaipur-302005.
3. Chief Engineer (LD), State Load Despatch Centre, Rajasthan Rajya Vidyut Prasaran Nigam Ltd., Ajmer Road, Heerapura, Jaipur-302024

Subject: Trial Run Notice for 220 kV Line Bay 202 at 400/220 kV Bikaner-II SS-Reg.

Dear Sir,

It is to bring your kind notice that the construction work and pre commissioning tests of 220 kV Line Bay 202 at Bikaner-II SS has been completed in all respect.

In view of the above, the trial run of the 220 kV Line Bay 202 shall commence w.e.f. 25.07.2024 and After 24 Hrs. of successful completion of trial run, DOCO/Commercial Operation shall be declared.

Yours Sincerely,

Abhimanyu

Abhimanyu Shekharat
DGM, Bikaner II SS
उप महाप्रबंधक - Deputy General Manager
पावर ग्रिड बीकानेर ट्रांसमिशन सिस्टम लिमिटेड
Power Grid Bikaner Transmission Systems Ltd.
400 के.वी. उपकेन्द्र, बीकानेर-II
400 KV Substation Bikaner-II

CC:

1. Head, NRLDC- New Delhi,
2. GM (Planning NR)-CTU, Gurugram.
3. ED, NR-1 & CGM Jaipur/Bikaner for kind information

Distribution list:

1. Managing Director, Delhi Transco Ltd., Shakti Sadan Building Kotla Road, New Delhi-110 002
2. General Manager (SLDC), Delhi Transco Ltd., SLDC Building, 33 kV Substation Building, Minto Road, New Delhi-110 002.
3. Chairman & Managing Director, Rajasthan RajyaVidyutPrasaran Nigam Limited, Vidyut Bhawan, Janpath, Jaipur- 302005
4. Chief Engineer (LD), State Load Despatch Centre, Rajasthan RajyaVidyutPrasaran Nigam Ltd., Ajmer Road, Heerapura, Jaipur-302024
5. Chairman & Managing Director, Punjab State Transmission Corporation Ltd. Regd. Office, PSEB Head office, The Mall, Patiala-147 001.
6. Chief Engineer (SLDC), SLDC Building, near 220KV grid substation, PSTCL, Ablowal, Patiala-147001.

पंजीकृत कार्यालय: बी 9, कुतुब इंस्टीट्यूशनल एरिया, कटवारिया सराय, नई दिल्ली – 110016 दूरभाष -011 6560121 (ई पी बी एक्स) फैक्स: 6560039,

Registered Office: B-9, Qutub Institutional Area, Katwaria Sarai, New Delhi – 110016, Ph. 26560121 (EPBAX), Fax: 011-26560112

उत्तरी क्षेत्र पारेषण प्रणाली- I, क्षेत्रीय कार्यालय: एस.सी.ओ. बें.नं. 5-10 सेक्टर 16A, फरीदाबाद - 121002, हरियाणा

Northern Region Transmission System-I, Regional Head Office: CO BAY No. 5 – 10, Sector 16A, Faridabad, Haryana 121002



7. Managing Director, PTCUL, VidyutBhawan, Near I.S.B.T. crossing, Sharanpur Road, Majra, Dehradun-248001.
8. Chief Engineer (SLDC), VidyutBhawan, Saharanpur Road, Majra, Near ISBT, Dehradun-248001, Uttarakhand
9. Managing Director, HPSEB Limited, Kumar House, VidyutBhawan, Shimla-171 004Himachal Pradesh.
10. Director (SLDC), HP State Load Dispatch Centre, Totu, Shimla-171 001.
11. Chairman & Managing Director, Haryana VidyutPrasaran Nigam Ltd., Shakti Bhawan, Sector-6, Panchkula, Distt. Ambala, Haryana-134 109.
12. Chief Engineer (SO & SLDC), Haryana VidyutPrasaran Nigam Ltd., Shakti Bhawan, Sector-6, Panchkula, Distt. Ambala, Haryana-134 109. Ph: 01722560547.
13. Chief Engineer (Power System), 5th-floor Uttar Pradesh Power transmission Corporation Ltd., Shakti Bhawan, 14Ashok Marg, Lucknow-226 001.Ph: 2287879.
14. Chairman & Managing Director, Uttar Pradesh Power transmission Corporation Ltd., Shakti Bhawan, 14- Ashok Marg, Lucknow-226 001.
15. Director (SLDC), VibhutiKhand, Phase-2, Gomti Nagar, Lucknow-226010, Uttar Pradesh
16. Development Commissioner, Power Development Department (J&K), Lottery Building, Behind Civil Secretariat, Srinagar, J&K Pin code: 190009 Fax no. 0194-2452173.
17. Development Commissioner, Power Development Department (J&K), Grid Station Complex, janipur, jammu. 0191-2530265
18. Executive Engineer, SLDC Building, 220kV Gladini Grid Station Complex, NarwalBala, Gladini-180016, J&K.
19. Chief Engineer, UT of Chandigarh (Elec. Deptt. 1st Floor), Sector 9-D, Chandigarh160019.
20. Superintending Engineer (Elect. Op), UT of Chandigarh (Elec. Deptt. 5th Floor), Sector 9-D, Chandigarh-160019. Ph: 0172- 2703242
21. Director (Operation), Nuclear Power Corporation of India Ltd, 16th Floor, Centre- I, World Trade Centre, Cuffe Parade, Colaba, Mumbai - 400 005, India.
22. Station Director, Narora Atomic Power Station, Narora, Distt. - Bulandshahar, Uttar Pradesh-202389, FAX:05734-222177
23. Station Director, Rajasthan Atomic Power Station (B & C), Anu Shakti vihar Kota, Anu Shakti, Rajasthan-323303, FAX: 01475-242190
24. Executive Director (OS), NTPC, Core-6, Scope Complex, Lodhi Road-110003, New Delhi
25. Regional Executive Director (NC), NTPC, NCR Headquarters, EOC Building, 11th Floor, OS Dept., Plot No.-8A, Sector-24, Noida, Uttar Pradesh-201301.
26. Regional Executive Director (NR), NTPC, Northern Region Headquarters, TC 33/V1, VibhutiKhand, Gomti Nagar, Lucknow226010.
27. Executive Director (Comml.) NHPC Ltd., NHPC Office Complex, Sector-33, FARIDABAD-121003, Haryana.
28. Executive Director (O&M) NHPC Ltd., NHPC Office Complex, Sector-33, FARIDABAD-121003, Haryana.
29. Chairman and Manager Director, SJVN Ltd, Shakti Sadan, Corporate Office Complex, Shanan, Shimla-171006, Himachal Pradesh. Tel: 0177-2660010, FAX: 0177-2660011



30. General Manager, SJVN Ltd, Nathpa Jhakri Hydro Power Station, Tehsil Rampur, Himachal Pradesh- 172201. FAX: 0177-2673283
31. General Manager(C&SO), SJVN Limited, Sharma Niwas, Below BCS, New Shimla, Shimla, Himachal Pradesh-171009. Tel No.: 0177-2673463, Fax No.: 0177-2673283
32. General Manager (Project), Koteswar, Koteswar puram, THDC India Ltd., Bhagarath Bhawan, Bhaghirath Puram, Tehri (Garhwal), Uttarakhand- 249 001, FAX: 01376-235282
33. General Manager (Project), THDC India Ltd., Bhagarath Bhawan, Bhaghirath Puram, Tehri (Garhwal), Uttarakhand- 249 001, FAX: 01376-235282
34. General Manager (OMS, QA & Safety), THDC India Ltd., Pragatipuram, Bypass Road, Rishikesh- 249201, Uttarakhand
35. Head of the plant, Karcham Wangtoo Hydro Electric Project (KWHEP), 1000MW, Sholto colony, JPVL, Post office- Tapri, Tehsil-Nichar, District-Kinnaur (HP), Pincode-172104
36. Chairman, Bhakra Beas Management Board, sector-19-B, Madhya Marg, Chandigarh-160019
37. Director (PR), BBMB, SLDC Complex, Industrial Area, Phase-I, Chandigarh160002
38. CEO, Power links Transmission Ltd. 10th Floor, DLF Tower A, District Centre Jasola, New Delhi -110025.
39. Director, Operations, Powerlinks Transmission Ltd., 10th Floor, DLF TowerA, District Centre, Jasola, New Delhi-110044
40. CEO, JaypeePowergrid Ltd., JA House, 63, BasantLok, Vasant Vihar, New Delhi-110057.Fax: +91 11 26148890, 26142726
41. Executive Director & CEO, Jaypee Powergrid ltdF-Block, Sector -128 Noida- U.P.
42. Executive Director (NR-1), POWERGRID, SCO, Bay 5-10, Sector-16A, Faridabad, Haryana-121002
43. Executive Director (NR-2), POWERGRID, Grid Bhawan, Rail Head Complex, Jammu- 180012.
44. Executive Director, NR-3, POWERGRID, 12, MaharanaPratap Marg, Near Sikandar Bag Chauraha, Lucknow-226001
45. Director, Adani Power Ltd, AdaniHouse, Plot No.83, Institutional Area, Sector 32, Gurgaon, Haryana-122001
46. Head Plant, Greenko Budhil Hydro Power Project, Village- Thalla, P.O.- Ghared, Tehsil- Bharmour, Distt. -Chamba, Himachal Pradesh-176315.
47. A.G.M. (BD), ADHPL, Bhilwara Towers, A-12 Sector-1, Noida-201301
48. GM (OS), NRHQ NTPC Ltd TC-33/V-1, Vibhuti Khand, Gomti Nagar Lucknow-201301
49. General Manager, Singrauli Super thermal Power Station, NTPC, P.O. -Shakti Nagar, Distt. - onebhadra, Shakti Nagar, Uttar Pradesh-231 222, FAX: 05446-232021
50. General Manager, Rihand Super thermal Power Station (stage- I, II& III), NTPC, P.O. -Rihand Nagar, Distt. -Sonebhadra, Shakti Nagar, Uttar Pradesh-231 223, FAX: 05446-242437
51. Head of Project, NTPC-Dadri, Vidyut Nagar-201008, Distt. Gautam Budh Nagar, UP



52. General Manager (stage I, II & III), Firoz Gandhi Unchahar Thermal Power Project, P.O. Unchahar, Distt. Rai Bareilly, Uttar Pradesh, FAX: 05311-212210
53. General Manager, Auraiya Gas Power Project, P.O. Dibiyapur, Distt. Etawah, Uttar Pradesh-206 244, FAX: 05683-282341
54. General Manager, Anta Gas Power Proejct, Distt. Baran, Rajasthan-325 209, FAX: 07457-246066
55. General Manager, Uri Power Station, NHPC Ltd., Gingle, P.O. –Mohra, DisttBaramulla, J & K-193122, FAX:011-23736496
56. General Manager, URI PROJ STAGE-II NHPC OFFICE COMPLEX RAJARWANI POST OFF. LAGAMA, TEHSIL URI, DISTT. BARAMULLA J&K - 193 125
57. General Manager, Salal Hydro Electric Project, NHPC Ltd., P.O. Jyotipuram, Via Reasi, Distt. Udhampur, J & K-182 312, FAX: 01991-255706
58. GM, Chamera Hydro Electric Project-I, NHPC Ltd., P.O. Khairi, Distt. Chamba, Himachal Pradesh- 176 325, FAX: 01899-263387
59. General Manager, Chamera Hydro Electric Project-II, NHPC Ltd., Post Bag No. 2, Karian, Distt. Chamba, Himachal Pradesh- 176 310, FAX: 01899-220030
60. General Manager, CHAMERA H.E. PROJECT STAGE-III, N.H.P.C. LIMITED, DHARBALA, DISTT. CHAMBA, 176310 HIMACHAL PRADESH
61. General Manager, Bairasuil Hydro Electric Project, NHPC Ltd., Surangini, Distt. Chamba, Himachal Pradesh- 176 317, FAX: 01896-238101, 232301
62. General Manager, Tanakpur Hydro Electric Project, NHPC Ltd., P.O. -T.P. S Campus, Banbassa, Distt. Champawat, Uttaranchal- 262310, FAX: 05943-263077
63. General Manager, Dhauliganga Hydro Electric Project, NHPC Ltd., P.B. NO.1, Tapovan, Dharchula, Pithoragarh, Uttaranchal- 262545, FAX: 011-23341412
64. General Manager, Sewa –II Hydro Electric Project, NHPC Ltd., Post Bag No. 2, P.O. khairi, Distt. Chamba, Himachal Pradesh- 176325,
65. General Manager, Dulhasti Hydro Electric Project, NHPC Ltd., Chenab Nagar, SectorII, Dist-Kistwar, J &K- 182 206, FAX: 01995-260361
66. Chief Engineer, Parbati HE Project StagelIII, Behali, P.O-Larji Kullu-175122, Himachal Pradesh
67. The General Managar, Parbati-II, HEP, NHPC Ltd. E&M Complex, Sainj, Distt. Kullu 175134, Himachal Pradesh
68. DGM Electrical, Sainj HEP, HPPCL, Larji, Distric - Kullu, Himachal Pradesh, 175122
69. The Chief Engineer (Electrical), Kishanganga HEP, Office cum Residential colony, Kralpora, Distt: Bandipora, Jammu and Kashmir-193502
70. Head Plant, Indira Gandhi Super Thermal Power Project (IGSTPP), Jharli, District Jhajjar, Haryana- 124141
71. General Manager, Shree Cement TPS, Bangur Nagar, Post Box No. 33, Beawar-305901, Distt. -Ajmer (Rajasthan)
72. Chairman & Managing Director, Parbati Koldam Transmission Company Ltd., Office No. 1A, JMD Galleria 5th floor, plot no. 12-D, Sector 48, Sohna road Gurgaon- 122001
73. Adani Transmission (I) Ltd, 7-A, Sambhav building, Judges Bungalow Road, Bodakdev, Ahmedabad-380015



74. Mr. Rajesh Sirigirisetty, Business Development, Adani Transmission Limited, 3rd Floor-South Wing, Adani Corporate House, Adani Shantigram, S G Highway, Ahmedabad 382 421, Gujarat, India.
75. The Vice President, NRSS XXIX TL, RAPP TL &GPTL, F-1, Mira Corporate Suite, Ishwar Nagar, Mathura Road, New Delhi – 110065
76. General Manager, JAYPEE POWERGRID Limited, JA House, 63, Basant Lok, Vasant Vihar, New Delhi-110057
77. The CEO, Meja Urja Nigam (P) Ltd, P.O.- kohdar, Tehsil- Meja, Allahabad 212301, Uttar Pradesh
78. The Sr. Manager, RENEW SOLAR POWER Pvt. Ltd, Commercial Block-1, Zone 6, Golf Course Road, DLF City phase-V, Gurugram 122009, Haryana
79. The Vice President, Operation and Maintenance, Azure Power India Pvt Ltd. (Bhadla SPD), 3rd Floor, Asset 301-304 &307, Word Mark-3, Aerocity, New Delhi 110037, Delhi
80. The Vice President O&M, SB Energy Four Limited, 1st Floor, Wordmark-2, Asset Area -8 ospitality, Aerocity, NH-8 110037, Delhi
81. Associate Vice President (BD- HOD), Mahoba Solar (UP) Pvt Ltd, 4th floor, South Wing, Adani Corporate House, Shantigram, Near Vaishnav Devi Circle, SG Highway, Ahmedabad 382 421, Gujarat, India
82. The Project Head, Tata Power Renewable Energy Ltd. Corporate Centre, A Block, 34, Sant Tukaram Road, Camac Bunder, Mumbai – 400009
83. The Manager – O&M Solar, ACME Chittorgarh Solar Energy Pvt. Ltd. Plot #152, Sector - 44, Gurgoan 122002, Haryana
84. The Sr. Manager, Clean Solar Power (Bhadla) Pvt. Ltd, 1st Floor, Plot 201, Okhla Industrial Estate, Phase III, New Delhi 110020, Delh
85. General Manager, Grian Energy Pvt. Ltd.
86. Senior Manager, Juna Renewable Energy Pvt. Limited.
87. General manager, TP Saurya.
88. General Manager, Khidrat Renewable Energy Private Limited.
89. General Manager, Renew Power Pvt. Limited.
90. Senior Manager, Prerak Greentech Pvt. Limited.
91. Executive Engineer, RRVNL-Bikaner.
92. SE, JdVVNL-Bikaner.



Annexure - 7

Date

CERTIFICATE OF CAPITAL COST

Name of the Company

Power Grid Bikaner Transmission System Ltd. having its Registered Office at B-9,
Qutub Institutional Area, Katwaria Sarai, New Delhi-110016

Name of the Region

Northern Region-I

Name of the Project

Implementation of 220kV bays for RE generators and 400/220kV ICTs at Bikaner-II
PS

Name of the Element

220kV Main Bay 202 of 220 kV Bikaner-II - Juna Line at Bikaner-II (PBTSL)

Date of Commercial Operation

05.09.2024 (Proposed)

Rs in Lacs

S/N	Particulars	Capital Cost	IEDC	IDC	Total
1	Expenditure up to 04.09.2024(DOCO 05.09.2024)	330.29	19.49	11.48	361.26
2	Expenditure from 05.09.2024 to 30.09.2024	0.08			0.08
3	Estimated Expenditure from 05.09.2024 to 31.03.2025	142.95			142.95
4	Estimated Expenditure from 01.04.2025 to 31.03.2026	40.87			40.87
5	Estimated Expenditure from 01.04.2026 to 31.03.2027	20.43			20.43
	Total	534.62	19.49	11.48	565.59

- a) We have verified the expenditure mentioned at Sl. No. 1 to 2 excluding liabilities in the above table. The same is based on information drawn from the books of Accounts of Power Grid Corporation of India Ltd., NR1, Faridabad for the period ended on 30.09.2024.
- b) The Estimated Expenditure mentioned at Sl. No. 3 to 5 are based on Management estimates.

 PMSS & Co.
 Chartered Accountants
 FRN-01967N
Place:- Faridabad
Date:- 25.11.2024

VD IN 24095714 BIK BT SF 2024





Date

CERTIFICATE

Name of the Company : Power Grid Bikaner Transmission System Ltd. having its Registered Office at B-9, Qutub Institutional Area, Katwaria Sarai, New Delhi-110016
 Name of the Region : Northern Region-I
 Name of the Project : Implementation of 220kV bays for RE generators and 400/220kV ICTs at Bikaner-II PS
 Name of the Element : 220kV Main Bay 262 of 220 kV Bikaner-II - Juma Line at Bikaner-II (PRTSL)
 Date of Commercial Operation : 05.09.2024 (Proposed)

Rs in Lacs

S/N	Particulars	Freehold Land	Leasehold Land	Building and Civil Works	Tr. Line	Sub-Station	OPGW	Communication System excl. OPGW	LT Equipment incl. software, UNMS, URITDBM, EMS, Cyber Security System, REMC, WAMS, SCADA System	Batteries	Total
1	Expenditure up to 04.09.2024(DOCO 05.09.2024)	0.00	0.00	0.00	0.00	347.92	0.00	9.14	4.20	0.00	361.26
2	Expenditure from 05.09.2024 to 30.09.2024	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.08
3	Estimated Expenditure from 05.09.2024 to 31.03.2025	0.00	0.00	0.00	0.00	140.42	0.00	1.63	0.90	0.00	142.95
4	Estimated Expenditure from 01.04.2025 to 31.03.2026	0.00	0.00	0.00	0.00	40.14	0.00	0.47	0.26	0.00	40.87
5	Estimated Expenditure from 01.04.2026 to 31.03.2027	0.00	0.00	0.00	0.00	20.07	0.00	0.23	0.13	0.00	20.43
	Total	0.00	0.00	0.00	0.00	548.63	0.00	11.47	5.49	0.00	565.59

S/N	Particulars	TL	Sub station incl IT Equipment & Communication System excl OPGW	Total
1	Total Cost (Plant and Machinery cost excluding IDC, IEDC, Land cost and cost of Civil works for the purpose of Initial Spares)		534.62	534.62
2	Initial Spares included above		28.46	28.46

- a) We have verified the expenditure mentioned at Sr. No. 1 to 2 excluding liabilities in the above table. The same is based on information drawn from the books of Accounts of Power Grid Corporation of India Ltd., NR1, Faridabad for the period ended on 30.09.2024.
 b) The Estimated Expenditure mentioned at SL No. 3 to 5 are based on Management estimates.

Place:- Faridabad
Date:- 25.11.2024



UDIN 24095714BKBSF7024

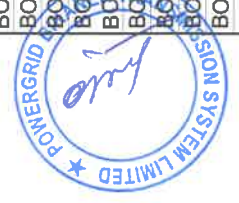


Statement showing IDC Discharged upto DOCO

Project:		Implementation of 220kV bays and 400/220kV ICTs at Bikaner-II PS									
Element:		220kV Line Bay 202 Juna at Bikaner-II PS.									
DOCO: Proposed to CERC		05-Sep-24									
Loans	Amount	Interest Rate	Drawl Date	Total IDC	Annual Interest Payment Date upto DOCO	Interest Discharged upto DOCO	Annual Interest Payment Date after DOCO	24-25	25-26		
BOND-LXXII	0.50	7.56%	21-Jun-23	0.05	04-Jul-24	0.04	03-Oct-24	0.01	0.01		
BOND-LXXII	1.39	7.56%	21-Jun-23	0.13	04-Jul-24	0.11	03-Oct-24	0.02	0.02		
BOND-LXXII	4.07	7.56%	21-Jun-23	0.37	04-Jul-24	0.32	03-Oct-24	0.06	0.06		
BOND-LXXII	0.45	7.56%	23-Jun-23	0.04	04-Jul-24	0.03	03-Oct-24	0.01	0.01		
BOND-LXXII	0.69	7.56%	23-Jun-23	0.06	04-Jul-24	0.05	03-Oct-24	0.01	0.01		
BOND-LXXII	0.25	7.56%	30-Jun-23	0.02	04-Jul-24	0.02	03-Oct-24	0.00	0.00		
BOND-LXXII	0.03	7.56%	30-Jun-23	0.00	04-Jul-24	0.00	03-Oct-24	0.00	0.00		
BOND-LXXII	0.08	7.56%	30-Jun-23	0.01	04-Jul-24	0.01	03-Oct-24	0.00	0.00		
BOND-LXXII	0.01	7.56%	30-Jun-23	0.00	04-Jul-24	0.00	03-Oct-24	0.00	0.00		
BOND-LXXII	0.01	7.56%	30-Jun-23	0.00	04-Jul-24	0.00	03-Oct-24	0.00	0.00		
BOND-LXXII	0.00	7.56%	30-Jun-23	0.00	04-Jul-24	0.00	03-Oct-24	-	-		
SBI_LOC_IV	0.01	Floating	06-Jul-23	0.00	04-Jul-24	0.00	03-Oct-24	0.00	0.00		
SBI_LOC_IV	0.01	Floating	06-Jul-23	0.00	04-Jul-24	0.00	03-Oct-24	0.00	0.00		
SBI_LOC_IV	0.12	Floating	10-Jul-23	0.01	04-Jul-24	0.01	03-Oct-24	0.00	0.00		
SBI_LOC_IV	0.24	Floating	10-Jul-23	0.02	04-Jul-24	0.02	03-Oct-24	0.00	0.00		
SBI_LOC_IV	1.99	Floating	11-Jul-23	0.19	04-Jul-24	0.16	03-Oct-24	0.03	0.03		
SBI_LOC_IV	0.01	Floating	11-Jul-23	0.00	04-Jul-24	0.00	03-Oct-24	0.00	0.00		
SBI_LOC_IV	0.01	Floating	11-Jul-23	0.00	04-Jul-24	0.00	03-Oct-24	0.00	0.00		
BOND-LXXIII	0.04	7.50%	07-Sep-23	0.00	04-Jul-24	0.00	03-Oct-24	0.00	0.00		
BOND-LXXIII	0.03	7.50%	07-Sep-23	0.00	04-Jul-24	0.00	03-Oct-24	0.00	0.00		
BOND-LXXIII	0.07	7.50%	08-Sep-23	0.01	04-Jul-24	0.00	03-Oct-24	0.00	0.00		
BOND-LXXIII	0.19	7.50%	13-Sep-23	0.01	04-Jul-24	0.01	03-Oct-24	0.00	0.00		
BOND-LXXIII	2.59	7.50%	22-Sep-23	0.19	04-Jul-24	0.15	03-Oct-24	0.04	0.04		
BOND-LXXIII	0.01	7.50%	27-Sep-23	0.00	04-Jul-24	0.00	03-Oct-24	0.00	0.00		
BOND-LXXIV	1.87	7.70%	19-Oct-23	0.13	04-Jul-24	0.10	03-Oct-24	0.03	0.03		
BOND-LXXIV	1.19	7.70%	25-Oct-23	0.08	04-Jul-24	0.06	03-Oct-24	0.02	0.02		
BOND-LXXIV	0.61	7.70%	02-Nov-23	0.04	04-Jul-24	0.03	03-Oct-24	0.01	0.01		
BOND-LXXIV	4.29	7.70%	07-Nov-23	0.27	04-Jul-24	0.21	03-Oct-24	0.06	0.06		
BOND-LXXIV	25.29	7.70%	28-Nov-23	1.50	04-Jul-24	1.15	03-Oct-24	0.35	0.35		
BOND-LXXIV	10.77	7.70%	12-Dec-23	0.61	04-Jul-24	0.46	03-Oct-24	0.15	0.15		
BOND-LXXIV	0.02	7.70%	14-Dec-23	0.00	04-Jul-24	0.00	03-Oct-24	0.00	0.00		
BOND-LXXIV	0.76	7.70%	18-Dec-23	0.04	04-Jul-24	0.03	03-Oct-24	0.01	0.01		
BOND-LXXIV	2.88	7.70%	19-Dec-23	0.16	04-Jul-24	0.12	03-Oct-24	0.04	0.04		
BOND-LXXIV	4.19	7.70%	26-Dec-23	0.22	04-Jul-24	0.17	03-Oct-24	0.06	0.06		
BOND-LXXIV	0.02	7.70%	27-Dec-23	0.00	04-Jul-24	0.00	03-Oct-24	0.00	0.00		
BOND-LXXIV	34.27	7.70%	29-Dec-23	1.81	04-Jul-24	1.34	03-Oct-24	0.48	0.48		
BOND-LXXIV	0.81	7.70%	08-Jan-24	0.04	04-Jul-24	0.03	03-Oct-24	0.01	0.01		
BOND-LXXV	0.12	7.65%	12-Jan-24	0.01	04-Jul-24	0.00	03-Oct-24	0.00	0.00		
BOND-LXXV	0.38	7.65%	19-Jan-24	0.02	04-Jul-24	0.01	03-Oct-24	0.01	0.01		
BOND-LXXV	0.11	7.65%	23-Jan-24	0.01	04-Jul-24	0.00	03-Oct-24	0.00	0.00		



Project:		Implementation of 220kV bays and 400/220kV ICTs at Bikaner-II PS									
Element:		220kV Line Bay 202, Juna at Bikaner-II PS.									
DOC0: Proposed to CERC		05-Sep-24									
Loans	Amount	Interest Rate	Drawl Date	Total IDC	Annual Interest Payment Date upto DOC0	Interest Discharged upto DOC0	Annual Interest Payment Date after DOC0	24-25	25-26		
BOND-LXXV	1.33	7.65%	24-Jan-24	0.06	04-Jul-24	0.04	03-Oct-24	0.02			
BOND-LXXV	0.00	7.65%	30-Jan-24	0.00	04-Jul-24	0.00	03-Oct-24	-			
BOND-LXXV	0.22	7.65%	23-Feb-24	0.01	04-Jul-24	0.01	03-Oct-24	0.00			
BOND-LXXV	125.46	7.65%	29-Feb-24	4.97	04-Jul-24	3.23	03-Oct-24	1.74			
BOND-LXXVI	2.09	7.35%	05-Apr-24	0.06	04-Jul-24	0.04	03-Oct-24	0.03			
BOND-LXXVII	0.00	7.55%	23-Apr-24	0.00	04-Jul-24	0.00	03-Oct-24	-			
BOND-LXXVII	0.00	7.55%	23-Apr-24	0.00	04-Jul-24	0.00	03-Oct-24	-			
BOND-LXXVII	2.78	7.55%	29-Apr-24	0.07	04-Jul-24	0.04	03-Oct-24	0.04			
BOND-LXXVII	0.65	7.55%	03-May-24	0.02	04-Jul-24	0.01	03-Oct-24	0.01			
BOND-LXXVII	1.58	7.55%	06-May-24	0.04	04-Jul-24	0.02	03-Oct-24	0.02			
BOND-LXXVII	0.53	7.55%	16-May-24	0.01	04-Jul-24	0.01	03-Oct-24	0.01			
BOND-LXXVII	0.00	7.55%	20-May-24	0.00	04-Jul-24	0.00	03-Oct-24	-			
BOND-LXXVII	0.00	7.55%	22-May-24	0.00	04-Jul-24	0.00	03-Oct-24	-			
BOND-LXXVII	0.43	7.55%	24-May-24	0.01	04-Jul-24	0.00	03-Oct-24	0.01			
BOND-LXXVII	0.26	7.55%	30-May-24	0.01	04-Jul-24	0.00	03-Oct-24	0.00			
BOND-LXXVII	0.10	7.55%	04-Jun-24	0.00	04-Jul-24	0.00	03-Oct-24	0.00			
BOND-LXXVII	0.24	7.55%	04-Jun-24	0.00	04-Jul-24	0.00	03-Oct-24	0.00			
BOND-LXXVII	1.72	7.55%	07-Jun-24	0.03	04-Jul-24	0.01	03-Oct-24	0.02			
BOND-LXXVII	0.69	7.55%	11-Jun-24	0.01	04-Jul-24	0.00	03-Oct-24	0.01			
BOND-LXXVII	1.36	7.55%	11-Jun-24	0.02	04-Jul-24	0.01	03-Oct-24	0.02			
BOND-LXXVII	0.24	7.55%	14-Jun-24	0.00	04-Jul-24	0.00	03-Oct-24	0.00			
BOND-LXXVII	0.05	7.55%	25-Jun-24	0.00	04-Jul-24	0.00	03-Oct-24	0.00			
BOND-LXXVII	0.03	7.55%	27-Jun-24	0.00	04-Jul-24	0.00	03-Oct-24	0.00			
BOND-LXXVII	0.06	7.55%	28-Jun-24	0.00	04-Jul-24	0.00	03-Oct-24	0.00			
BOND-LXXVII	0.00	7.55%	04-Jul-24	0.00	04-Jul-24	0.00	03-Oct-24	-			
BOND-LXXVII	0.55	7.55%	05-Jul-24	0.01	05-Jul-24	0.00	03-Oct-24	0.01			
BOND-LXXVII	0.79	7.55%	05-Jul-24	0.01	05-Jul-24	0.00	03-Oct-24	0.01			
BOND-LXXVII	0.00	7.55%	09-Jul-24	0.00	09-Jul-24	0.00	03-Oct-24	-			
BOND-LXXVII	0.70	7.55%	10-Jul-24	0.01	10-Jul-24	0.00	03-Oct-24	0.01			
BOND-LXXVII	1.46	7.55%	11-Jul-24	0.02	11-Jul-24	0.00	03-Oct-24	0.02			
BOND-LXXVII	1.80	7.55%	24-Jul-24	0.02	24-Jul-24	0.00	03-Oct-24	0.02			
BOND-LXXVIII	1.03	7.38%	29-Jul-24	0.01	29-Jul-24	0.00	03-Oct-24	0.01			
BOND-LXXVIII	0.29	7.38%	30-Jul-24	0.00	30-Jul-24	0.00	03-Oct-24	0.00			
BOND-LXXVIII	0.28	7.38%	30-Jul-24	0.00	30-Jul-24	0.00	03-Oct-24	0.00			
BOND-LXXVIII	0.03	7.38%	02-Aug-24	0.00	02-Aug-24	0.00	03-Oct-24	0.00			
BOND-LXXVIII	0.48	7.38%	06-Aug-24	0.00	06-Aug-24	0.00	03-Oct-24	0.00			
BOND-LXXVIII	0.37	7.38%	22-Aug-24	0.00	22-Aug-24	0.00	03-Oct-24	0.00			
BOND-LXXVIII	0.94	7.38%	28-Aug-24	0.00	28-Aug-24	0.00	03-Oct-24	0.00			
BOND-LXXVIII	0.73	7.38%	29-Aug-24	0.00	29-Aug-24	0.00	03-Oct-24	0.00			
BOND-LXXVIII	0.85	7.38%	30-Aug-24	0.00	30-Aug-24	0.00	03-Oct-24	0.00			
BOND-LXXVIII (IR Replacement)	2.38	7.38%	17-Sep-24	0.00		0.00					
Total	252.88			11.48		8.07		3.41			



Project:		Implementation of 220kV bays and 400/220kV ICTs at Bikaner-II PS					
Element:		220kV Line Bay 202 Juna at Bikaner-II PS.					
DOCO: Proposed to CERC		05-Sep-24					
Loans	Amount	Interest Rate	Drawl Date	Total IDC	Annual Interest Payment Date upto DOCO	Interest Discharged upto DOCO	Annual Interest Payment Date after DOCO
Total IDC as per Cost Certificate	11.48						
IDC Discharged upto DOCO	8.07						
Accrual IDC upto DOCO (To be Discharged during 2024-2025)	3.41						
Accrual IDC upto DOCO (To be Discharged during 2025-2026)	0.00						
							24-25
							25-26



Element 220kV Main Bay 202 of 220 kV Bikaner-II - Juna Line at Bikaner-II (PBTSL)
 DOCC: 05-Sep-24

(Rs. In lakhs)

Year	Quarter	Opening Expense	Exp during the Qtr.	Cumulative exp upto the end of Qtr.	Average Expense	Opening Debt applied	Debt applied during the Qtr.	Repaym ent during the Qtr.	Cumulative Debt Applied upto the end of Qtr.	Avg. Debt applied	Normative Debt	Normative debt funded through Equity	Int Rate (Qtr.)	Notion at IDC
2023	1	0.00	46.87	46.87	23.44	0.00	7.48	0.00	7.48	3.74	16.41	12.67	1.89	0.24
2023	2	46.87	86.22	133.09	89.98	7.48	5.32	0.00	12.80	10.14	62.99	52.85	1.93	1.02
2023	3	133.09	128.15	261.24	197.17	12.80	86.16	0.00	98.96	55.88	138.02	82.14	1.93	1.59
2023	4	261.24	60.82	322.06	291.65	98.96	128.43	0.00	227.39	163.18	204.16	40.98	1.92	0.79
2024	1	322.06	15.99	338.05	330.06	227.39	12.81	0.00	240.20	233.80	231.04	0.00	1.92	-
2024	2	338.05	19.80	357.85	347.95	240.20	12.68	0.00	252.88	246.54	243.57	0.00	1.91	-
														3.63



Summary of Tariff

Form No. - 1

Name of the Transmission Licensee:		POWERGRID Bikaner Transmission System Limited (PBTSL)	
Project	Implementation of 220 kV bays for RE generators and 400/220kV ICTs at Bikaner-II PS" Scheme in Northern Reg		
Element Description	220kV Main Bay 202 of 220 kV Bikaner-II - Juna Line at Bikaner-II (PBTSL)		
Region	Corporate Centre	DOCO Date	Sep 5, 2024

(Amount in Rs. Lakh)

Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
Year Days	365.00	365.00	365.00	366.00	365.00
Tariff Days	208.00	365.00	365.00	366.00	365.00
Depreciation-Form No. 10A	11.35	24.07	25.42	25.86	25.86
Interest on Loan-Form No. 9E	13.02	26.51	26.26	24.84	22.87
Return on Equity-Form No. 8	13.51	28.81	30.48	31.04	31.04
Int. on Working capital-Form No.11	1.07	2.12	2.21	2.25	2.28
Op. and maintenance-Form No.2	11.78	21.75	22.90	24.10	25.36
Total AFC	50.73	103.26	107.27	108.09	107.41

(Petitioner)



Summary of Asset Level Cost

Form No. - 1A

Name of the Transmission Licensee	POWERGRID Bikaner Transmission System Limited (PBTSL)	
Project	Implementation of 220 kV bays for RE generators and 400/220kV ICTs at Bikaner-II PS ² Scheme in Northern Region	
Element Description	220kV Main Bay 202 of 220 kV Bikaner-II - Juna Line at Bikaner-II (PBTSL)	
Region	Corporate Centre	DOC Date Sep 5, 2024

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

(Amount in Rs. Lakh)

Particular	i) Apportioned Approved Cost		ii) Summary of Actual / Projected Capital Expenditure incurred						
	As Per IA	As per RCE	As on COD / 01.04.2024	2024-25	2025-26	2026-27	2027-28	2028-29	As on 31.03.2029
Land (Freehold Land)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building & Civil Works	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Transmission Lines	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Substations	0.00	0.00	397.33	117.83	31.25	5.72	0.00	0.00	552.13
Comm. Sys. excluding Fiber Optic	0.00	0.00	10.12	1.39	0.05	0.00	0.00	0.00	11.56
Land (Leasehold)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IT/Software/UNMS/URTDMS/	0.00	0.00	4.55	0.83	0.15	0.00	0.00	0.00	5.53
Batteries	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Capital Cost as per Books	0.00	0.00	412.00	120.05	31.45	5.72	0.00	0.00	569.22
Less: Liability	0.00	0.00	50.52	0.00	0.00	0.00	0.00	0.00	0.00
Add: discharge of liability	0.00	0.00	0.00	26.39	9.42	14.71	0.00	0.00	0.00
Deprec During Year As per Books	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Capital incurred	0.00	0.00	361.48	146.44	40.87	20.43	0.00	0.00	569.22
Equity	111.963	169.68	108.44	43.93	12.26	6.13	0.00	0.00	170.76
Debt	261.247	395.92	253.04	102.51	28.61	14.30	0.00	0.00	398.46



Name of the Transmission Licensee	POWERGRID Bikaner Transmission System Limited (PBTSL)		
Project	Implementation of 220 kV bays for RE generators and 400/220kV ICTs at Bikaner-II PS" Scheme in Northern Region		
Element Description	220kV Main Bay 202 of 220 kV Bikaner-II - Juna Line at Bikaner-II (PBTSL)		
Region	Corporate Centre	DOCO Date	Sep 5, 2024

1. Transmission Lines

(Amount in Rs. Lakh)

Summary:



2. Sub Station

Name of Sub-station	Type of Substation	Voltage Level KV	No. of Transformers/ Reactor/ SVC etc. (with capacity)	No. of Bays				MVA/MVAR Capacity				Date of Comm. operation	Covered in the present petition	
				765 KV	400 KV	220 KV	132 KV	765 KV	400 KV	220 KV	132 KV			
:JUNA LINE BAY	Brownfield	220 KV				1.000							Sep 5, 2024	Y

Summary:

O&M Expenses For Substations Covered in the instant petition	2024-25	2025-26	2026-27	2027-28	2028-29
220KV SUB-STATION					
Normative Rate of O&M as per Regulation	20.67	21.75	22.90	24.10	25.36
No. of Units	1.00	1.00	1.00	1.00	1.00
O&M Claimed	11.78	21.75	22.90	24.10	25.36



Summary of O&M Expenses claim

(Amount in Rs. Lakh)

Particular	2024-25	2025-26	2026-27	2027-28	2028-29
A) Normative O&M					
Transmission Line	0.00	0.00	0.00	0.00	0.00
Substation	11.78	21.75	22.90	24.10	25.36
Communication System	0.00	0.00	0.00	0.00	0.00
Total Normative O&M	11.78	21.75	22.90	24.10	25.36
B) O&M Claimed under Regulation 35 (3)(C) (* The same is not being claimed and will be claimed through separate Petition)					
*Security Expenses	0.00	0.00	0.00	0.00	0.00
*Actual Capital Spare consumed	0.00	0.00	0.00	0.00	0.00
*Insurance Premium Paid	0.00	0.00	0.00	0.00	0.00
Total O&M	11.78	21.75	22.90	24.10	25.36

(Petitioner)



Normative parameters considered for tariff computations

Form No. - 3

Name of the Transmission Licensee	POWERGRID Bikaner Transmission System Limited (PBTSL)		
Project	Implementation of 220 kV bays for RE generators and 400/220kV ICTs at Bikaner-II PS" Scheme in Northern Reg		
Element Description	220kV Main Bay 202 of 220 kV Bikaner-II - Juna Line at Bikaner-II (PBTSL)		
Region	Corporate Centre	DOCO Date	Sep 5, 2024

(Amount in Rs. Lakh)

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



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

(Petitioner)



Statement of Capital cost

Form No. - 4A

Name of the Transmission Licensee	POWERGRID Bikaner Transmission System Limited (PBTSL)		
Project	Implementation of 220 kV bays for RE generators and 400/220kV ICTs at Bikaner-II PS" Scheme in Northern Region		
Element Description	220kV Main Bay 202 of 220 kV Bikaner-II - Juna Line at Bikaner-II (PBTSL)		
Region	Corporate Centre	DOCO Date	Sep 5, 2024

(Amount in Rs. Lakh)

A) Capital Cost

Particular	Accrual Basis	Un-discharged Liabilities	Cash Basis
As on relevant date :2024-25			
a) Opening Gross Block Amount as per books	412.00	50.52	361.48
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in A(a) above	11.48	3.41	8.07
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above	19.49	0.00	19.49
a) Addition in Gross Block Amount during the period			
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in B(a) above	120.05	0.00	120.05
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in B(a) above	0.00	0.00	0.00
d) De-cap in gross block amount during the year	0.00	0.00	0.00
a) Closing Gross Block Amount as per books			
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in C(a) above	532.05	24.13	507.92
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) above	11.48	0.00	11.48
As on relevant date :2025-26			
a) Opening Gross Block Amount as per books	532.05	24.13	507.92
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in A(a) above	11.48	0.00	11.48



c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above	19.49	0.00	19.49
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a) Addition in Gross Block Amount during the period	31.45	0.00	31.45
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in B(a) above	0.00	0.00	0.00
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in B(a) above	0.00	0.00	0.00
d) De-cap in gross block amount during the year	0.00	0.00	0.00

a) Closing Gross Block Amount as per books	563.50	14.71	548.79
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in C(a) above	11.48	0.00	11.48
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) above	19.49	0.00	19.49

As on relevant date :2026-27

a) Opening Gross Block Amount as per books	563.50	14.71	548.79
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in A(a) above	11.48	0.00	11.48
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above	19.49	0.00	19.49

a) Addition in Gross Block Amount during the period	5.72	0.00	5.72
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in B(a) above	0.00	0.00	0.00
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in B(a) above	0.00	0.00	0.00
d) De-cap in gross block amount during the year	0.00	0.00	0.00

a) Closing Gross Block Amount as per books	569.22	0.00	569.22
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in C(a) above	11.48	0.00	11.48
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) above	19.49	0.00	19.49

As on relevant date :2027-28

a) Opening Gross Block Amount as per books	569.22	0.00	569.22
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in A(a) above	11.48	0.00	11.48
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above	19.49	0.00	19.49



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

a) Closing Gross Block Amount as per books	569.22	0.00	569.22
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in C(a) above	11.48	0.00	11.48
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) above	19.49	0.00	19.49

As on relevant date :2028-29

a) Opening Gross Block Amount as per books	569.22	0.00	569.22
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in A(a) above	11.48	0.00	11.48
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above	19.49	0.00	19.49

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

a) Closing Gross Block Amount as per books	569.22	0.00	569.22
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in C(a) above	11.48	0.00	11.48
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) above	19.49	0.00	19.49

B) Flow of liability for the Asset

(Amount in Rs. Lakh)

Particular	2024-2025	2025-2026	2026-2027			
Opening balance of liability	50.52	24.13	14.71	0.00	0.00	0.00
Add: Liability from ACE	0.00	0.00	0.00	0.00	0.00	0.00



Discharge of liability by payment and claimed as ACE	26.39	9.42	14.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Reversal/cancelation (to be entered)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Closing Balance of Admitted liability	24.13	14.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

(Petitioner)



Financial Package upto COD

Form No. - 6

Name of the Transmission Licensee		POWERGRID Bikaner Transmission System Limited (PBTSL)	
Project	Implementation of 220 kV bays for RE generators and 400/220kV ICTs at Bikaner-II PS" Scheme in Northern Reg		
Element Description	220kV Main Bay 202 of 220 kV Bikaner-II - Juna Line at Bikaner-II (PBTSL)		
Region	Corporate Centre	DOC Date	Sep 5, 2024

(Amount in Rs. Lakh)

Particulars	Financial Package as Approved		Financial Package as on COD 01/04/2024		As Admitted on COD 01/04/2024	
	Currency	Amount	Currency	Amount	Currency	Amount
Loans		0.00		0.00		0.00
Loan-Domestic		0.00		0.00		0.00
Loan-Foreign		0.00		0.00		0.00
Total Loans	INR	261.247	INR	253.04		0.00
Equity		0.00		0.00		0.00
Foreign		0.00		0.00		0.00
Domestic	INR	111.963	INR	108.44		0.00
Total Equity	INR	111.963	INR	108.44		0.00
Debt Equity Ratio					70:30	
Total Cost	INR	373.21	INR	361.48		0.00

Particulars	Debt	Equity	Total
Addcap for 2024 - 2025			146.44
Addcap for 2025 - 2026			40.87
Addcap for 2026 - 2027			20.43
Addcap for 2027 - 2028			0.00



Addcap for 2028 - 2029			0.00
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Particulars	Actual	Normative	
Addcap for 2024 - 2025			
Equity		43.93	
Debt		102.51	
Total		146.44	
Addcap for 2025 - 2026			
Equity		12.26	
Debt		28.61	
Total		40.87	
Addcap for 2026 - 2027			
Equity		6.13	
Debt		14.30	
Total		20.43	
Addcap for 2027 - 2028			
Equity		0.00	
Debt		0.00	
Total		0.00	
Addcap for 2028 - 2029			
Equity		0.00	
Debt		0.00	
Total		0.00	
Total Capital cost with Addcap		569.22	

(Petitioner)



Statement of Additional Capitalisation after COD

Form No. - 7

Name of the Transmission Licensee	POWERGRID Bikaner Transmission System Limited (PBTSL)		
Project	Implementation of 220 kV bays for RE generators and 400/220kV ICTs at Bikaner-II PS" Scheme in Northern Reg		
Element Description	220kV Main Bay 202 of 220 kV Bikaner-II - Juna Line at Bikaner-II (PBTSL)		
Region	Corporate Centre	DOCO Date	Sep 5, 2024

(Amount in Rs. Lakh)

Particulars	Addition into Gross Block as per books of Account during the year (2)	De-Cap into Gross Block as per books of Account during the year	Less: Deductions dr. the year towards				Add: Discharge of earlier admitted liability	ACE on cash basis for tariff purpose	Admitted Cost in final tariff (Rs Lakh)
			Grants Received (if any) (3)	Asset pertaining to other businesses (If any) (4)	Other Deduction (if any) (5)	Less: Undischarged liability included in (2-4-5)			
ACE for the year :2024-25 (Actual/Projected)									
Land (Freehold Land)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building & Civil Works	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Transmission Lines	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Substations	117.83	0.00	0.00	0.00	0.00	0.00	25.95	143.78	0.00
Comm. Sys. excluding Fiber Optic	1.39	0.00	0.00	0.00	0.00	0.00	0.33	1.72	0.00
Land (Leasehold)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IT/Software/UNMS/URTDSM/SCADA,etc	0.83	0.00	0.00	0.00	0.00	0.00	0.11	0.94	0.00
Batteries	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	120.05	0.00	0.00	0.00	0.00	0.00	26.39	146.44	0.00
ACE for the year :2025-26 (Actual/Projected)									



Land (Freehold Land)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building & Civil Works	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Transmission Lines	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Substations	31.25	0.00	0.00	0.00	0.00	0.00	8.89	40.14	0.00
Comm. Sys. excluding Fiber Optic	0.05	0.00	0.00	0.00	0.00	0.00	0.42	0.47	0.00
Land (Leasehold)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IT/Software/UNMS/URTDSM/ SCADA,etc	0.15	0.00	0.00	0.00	0.00	0.00	0.11	0.26	0.00
Batteries	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	31.45	0.00	0.00	0.00	0.00	0.00	9.42	40.87	0.00
ACE for the year :2026-27 (Actual/Projected)									
Land (Freehold Land)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building & Civil Works	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Transmission Lines	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Substations	5.72	0.00	0.00	0.00	0.00	0.00	14.35	20.07	0.00
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.00
Land (Leasehold)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IT/Software/UNMS/URTDSM/ SCADA,etc	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.13	0.00
Batteries	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	5.72	0.00	0.00	0.00	0.00	0.00	14.71	20.43	0.00
ACE for the year :2027-28 (Actual/Projected)									
Land (Freehold Land)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building & Civil Works	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



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

(Petitioner)



Financing of Additional Capitalisation

Form No. - 7A

Name of the Transmission Licensee	POWERGRID Bikaner Transmission System Limited (PBTSL)	
Project	Implementation of 220 kV bays for RE generators and 400/220kV ICTs at Bikaner-II PS" Scheme in Northern Region	
Element Description	220kV Main Bay 202 of 220 kV Bikaner-II - Juna Line at Bikaner-II (PBTSL)	
Region	Corporate Centre	DOC Date Sep 5, 2024

(Amount in Rs. Lakh)

Financial Year (Starting of COD)	Actual/Projected						Admitted				
	2024-25	2025-26	2026-27	2027-28	2028-29		2024-25	2025-26	2026-27	2027-28	2028-29
Amount capitalized in Work/ Equipment											
Financing Details											
Total Loan	102.51	28.61	14.30	0.00	0.00						
Equity	43.93	12.26	6.13	0.00	0.00						
Total	146.44	40.87	20.43	0.00	0.00						



(Petitioner)

Calculation of ROE

Form No. - 8

Name of the Transmission Licensee	POWERGRID Bikaner Transmission System Limited (PBTSL)		
Project	Implementation of 220 kV bays for RE generators and 400/220kV ICTs at Bikaner-II PS" Scheme in Northern Reg		
Element Description	220kV Main Bay 202 of 220 kV Bikaner-II - Juna Line at Bikaner-II (PBTSL)		
Region	Corporate Centre	DOCO Date	Sep 5, 2024

(Amount in Rs. Lakh)

Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
No. of Days in the year	365.00	365.00	365.00	366.00	365.00
No. of days for which tariff claimed	208.00	365.00	365.00	366.00	365.00
Opening Normative Equity	108.44	152.37	164.63	170.76	170.76
Less: Adjustment in Equity*	0.00	0.00	0.00	0.00	0.00
Adjustment during the year	0.00	0.00	0.00	0.00	0.00
Net opening equity (Normal)	108.44	152.37	164.63	170.76	170.76
Add: Increase in Equity due to addition during the year / period	36.01	9.43	1.72	0.00	0.00
Less: Decrease due to de-capitalisation during the year / period	0.00	0.00	0.00	0.00	0.00
Add: Increase due to discharge during the year / period	7.92	2.83	4.41	0.00	0.00
Closing Normative Equity	152.37	164.63	170.76	170.76	170.76
Average Normative Equity	130.41	158.50	167.70	170.76	170.76
Rate of return on Equity (%)	18.176	18.176	18.176	18.176	18.176
Reduced rate of 1% decided by commission under Regulation 30(2) (if any)	0.00	0.00	0.00	0.00	0.00
Effective rate of ROE	15.00	15.00	15.00	15.00	15.00
MAT/Corporate Rate	17.472	17.472	17.472	17.472	17.472
Grossed up rate of ROE	18.176	18.176	18.176	18.176	18.176
Return on Equity	23.70	28.81	30.48	31.04	31.04
Pro rata return on Equity	13.51	28.81	30.48	31.04	31.04



(Petitioner)

Calculation of WAR of interest on actual loan

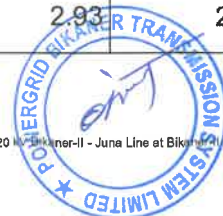
Form No. - 9C

Name of the Transmission Licensee	POWERGRID Bikaner Transmission System Limited (PBTSL)				
Project	Implementation of 220 kV bays for RE generators and 400/220kV ICTs at Bikaner-II PS" Scheme in Northern Reg				
Element Description	220kV Main Bay 202 of 220 kV Bikaner-II - Juna Line at Bikaner-II (PBTSL)				
Region	Corporate Centre	DOC Date	Sep 5, 2024		

(Amount in Rs. Lakh)

Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
Loan 1 PBTSL -DOC LOAN 1					
Gross Loan- Opening	7.48	7.48	7.48	7.48	7.48
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.00	0.00
Net loan-Opening	7.48	7.48	7.48	7.48	7.48
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	0.00	0.00	0.00	0.00	0.00
Net Loan-Closing	7.48	7.48	7.48	7.48	7.48
Average Net Loan	7.48	7.48	7.48	7.48	7.48
Rate of Interest on Loan on Annual Basis	7.56	7.56	7.56	7.56	7.56
Interest on loan	0.5655	0.5655	0.5655	0.5655	0.5655

Loan 2 PBTSL -DOC LOAN 2					
Gross Loan- Opening	2.93	2.93	2.93	2.93	2.93
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.00	0.00
Net loan-Opening	2.93	2.93	2.93	2.93	2.93
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	0.00	0.00	0.00	0.00	0.00
Net Loan-Closing	2.93	2.93	2.93	2.93	2.93



Average Net Loan	2.93	2.93	2.93	2.93	2.93
Rate of Interest on Loan on Annual Basis	7.50	7.50	7.50	7.50	7.50
Interest on loan	0.2198	0.2198	0.2198	0.2198	0.2198

Loan 3 PBTS - DOCO LOAN 3

Gross Loan- Opening	86.97	86.97	86.97	86.97	86.97
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.00	0.00
Net loan-Opening	86.97	86.97	86.97	86.97	86.97
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	0.00	0.00	0.00	0.00	0.00
Net Loan-Closing	86.97	86.97	86.97	86.97	86.97
Average Net Loan	86.97	86.97	86.97	86.97	86.97
Rate of Interest on Loan on Annual Basis	7.70	7.70	7.70	7.70	7.70
Interest on loan	6.6967	6.6967	6.6967	6.6967	6.6967

Loan 4 PBTS - DOCO LOAN 4

Gross Loan- Opening	127.62	127.62	127.62	127.62	127.62
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.00	0.00
Net loan-Opening	127.62	127.62	127.62	127.62	127.62
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	0.00	0.00	0.00	0.00	0.00
Net Loan-Closing	127.62	127.62	127.62	127.62	127.62
Average Net Loan	127.62	127.62	127.62	127.62	127.62
Rate of Interest on Loan on Annual Basis	7.65	7.65	7.65	7.65	7.65
Interest on loan	9.7629	9.7629	9.7629	9.7629	9.7629



Loan 5 PBTSL -DOCO LOAN 5					
Gross Loan- Opening	2.39	2.39	2.39	2.39	2.39
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.00	0.00
Net loan-Opening	2.39	2.39	2.39	2.39	2.39
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	0.00	0.00	0.00	0.00	0.00
Net Loan-Closing	2.39	2.39	2.39	2.39	2.39
Average Net Loan	2.39	2.39	2.39	2.39	2.39
Rate of Interest on Loan on Annual Basis	8.30	8.30	8.30	8.30	8.30
Interest on loan	0.1984	0.1984	0.1984	0.1984	0.1984

PBTSL loan (BOND-LXXVI) -ACCRUAL IDC LOAN					
Gross Loan- Opening	0.00	2.38	2.38	2.38	2.38
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.00	0.00
Net loan-Opening	0.00	2.38	2.38	2.38	2.38
Add: Drawl(s) during the year	2.38	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	0.00	0.00	0.00	0.00	0.00
Net Loan-Closing	2.38	2.38	2.38	2.38	2.38
Average Net Loan	1.19	2.38	2.38	2.38	2.38
Rate of Interest on Loan on Annual Basis	7.35	7.35	7.35	7.35	7.35
Interest on loan	0.0875	0.1749	0.1749	0.1749	0.1749

PBTSL loan (BOND-LXXVI) -DOCO LOAN 6					
Gross Loan- Opening	2.09	2.09	2.09	2.09	2.09
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.00	0.00
Net loan-Opening	2.09	2.09	2.09	2.09	2.09



Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	0.00	0.00	0.00	0.00	0.00
Net Loan-Closing	2.09	2.09	2.09	2.09	2.09
Average Net Loan	2.09	2.09	2.09	2.09	2.09
Rate of Interest on Loan on Annual Basis	7.35	7.35	7.35	7.35	7.35
Interest on loan	0.1536	0.1536	0.1536	0.1536	0.1536

PBTSL loan (BOND-LXXVII) -DOCO LOAN 7

Gross Loan- Opening	16.02	16.02	16.02	16.02	16.02
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.00	0.00
Net loan-Opening	16.02	16.02	16.02	16.02	16.02
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	0.00	0.00	0.00	0.00	0.00
Net Loan-Closing	16.02	16.02	16.02	16.02	16.02
Average Net Loan	16.02	16.02	16.02	16.02	16.02
Rate of Interest on Loan on Annual Basis	7.55	7.55	7.55	7.55	7.55
Interest on loan	1.2095	1.2095	1.2095	1.2095	1.2095

PBTSL loan (BOND-LXXVIII) -ADD CAP FUNDING

Gross Loan- Opening	0.00	0.06	0.06	0.06	0.06
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.00	0.00
Net loan-Opening	0.00	0.06	0.06	0.06	0.06
Add: Drawl(s) during the year	0.06	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	0.00	0.00	0.00	0.00	0.00
Net Loan-Closing	0.06	0.06	0.06	0.06	0.06
Average Net Loan	0.03	0.06	0.06	0.06	0.06



Rate of Interest on Loan on Annual Basis	7.38	7.38	7.38	7.38	7.38
Interest on loan	0.0022	0.0044	0.0044	0.0044	0.0044

PBTSL loan (BOND-LXXVIII) -DOCO LOAN 8

Gross Loan- Opening	5.00	5.00	5.00	5.00	5.00
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.00	0.00
Net loan-Opening	5.00	5.00	5.00	5.00	5.00
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	0.00	0.00	0.00	0.00	0.00
Net Loan-Closing	5.00	5.00	5.00	5.00	5.00
Average Net Loan	5.00	5.00	5.00	5.00	5.00
Rate of Interest on Loan on Annual Basis	7.38	7.38	7.38	7.38	7.38
Interest on loan	0.369	0.369	0.369	0.369	0.369

Summary

Gross Loan- Opening	250.50	252.94	252.94	252.94	252.94
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.00	0.00
Net loan-Opening	250.50	252.94	252.94	252.94	252.94
Add: Drawl(s) during the year	2.44	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	0.00	0.00	0.00	0.00	0.00
Net Loan-Closing	252.94	252.94	252.94	252.94	252.94
Average Net Loan	251.72	252.94	252.94	252.94	252.94
Rate of Interest on Loan on Annual Basis	7.6534	7.6519	7.6519	7.6519	7.6519
Interest on loan	19.2651	19.3547	19.3547	19.3547	19.3547



Calculation of interest on Normative loan

Form No. - 9E

Name of the Transmission Licensee	POWERGRID Bikaner Transmission System Limited (PBTSL)			
Project	Implementation of 220 kV bays for RE generators and 400/220kV ICTs at Bikaner-II PS" Scheme in Northern Reg			
Element Description	220kV Main Bay 202 of 220 kV Bikaner-II - Juna Line at Bikaner-II (PBTSL)			
Region	Corporate Centre	DOC Date	Sep 5, 2024	

(Amount in Rs. Lakh)

Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
No. of Days in the Year	365.00	365.00	365.00	366.00	365.00
No. of days for which Tariff claimed	208.00	365.00	365.00	366.00	365.00
Gross normative loan-Opening	253.04	355.55	384.16	398.46	398.46
Cumulative repayments of Normative loan upto previous year	0.00	11.35	35.42	60.84	86.70
Net normative loan-Opening	253.04	344.20	348.74	337.62	311.76
Addition in normative loan towards the ACE	102.51	28.61	14.30	0.00	0.00
Adjustment of normative gross loan pertaining to the decapitalised asset	0.00	0.00	0.00	0.00	0.00
Normative repayments of normative loan during the year	11.35	24.07	25.42	25.86	25.86
Adjustment of cumulative repayment pertaining to the decapitalised asset	0.00	0.00	0.00	0.00	0.00
Net normative loan - closing	344.20	348.74	337.62	311.76	285.90
Average normative loan	298.62	346.47	343.18	324.69	298.83
Weighted Average Rate of interest on actual loan	7.6534	7.6519	7.6519	7.6519	7.6519
Interest on normative loan	22.85	26.51	26.26	24.84	22.87
Pro rata interest on normative loan	13.02	26.51	26.26	24.84	22.87

(Petitioner)



Calculation of Depreciation Rate on Original Project Cost

Form No. - 10

Name of the Transmission Licensee	POWERGRID Bikaner Transmission System Limited (PBTSL)		
Project	Implementation of 220 kV bays for RE generators and 400/220kV ICTs at Bikaner-II PS" Scheme in Northern Reg		
Element Description	220kV Main Bay 202 of 220 kV Bikaner-II - Juna Line at Bikaner-II (PBTSL)		
Region	Corporate Centre	DOC Date	Sep 5, 2024

(Amount in Rs. Lakh)

Name of Assets	Gross block at the beginning of the year	Add Cap during the year	Gross block at the end of the year	Average Gross Block	Depreciation Rate as per CERC's Depreciation Rate Schedule	Depreciation Amount for each year upto 31.03.2029
2024-25						
Land(Freehold)	0.00	0.00	0.00	0.00	0.00	0.00
Civil & Building	0.00	0.00	0.00	0.00	3.34	0.00
Transmission Line	0.00	0.00	0.00	0.00	4.22	0.00
Sub Station	348.14	143.78	491.92	420.03	4.22	10.10
Comm. Sys. excluding Fiber Optic	9.14	1.72	10.86	10.00	15.00	0.85
Leasehold Land	0.00	0.00	0.00	0.00	3.34	0.00
IT/Software/UNMS/URTDSM/SCADA,etc	4.20	0.94	5.14	4.67	15.00	0.40
Batteries	0.00	0.00	0.00	0.00	9.50	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	6.33	0.00
TOTAL	361.48	146.44	507.92	434.70	0.00	11.35
Weighted Average Rate of Depreciation(%)					2.610996	

2025-26						
Land(Freehold)	0.00	0.00	0.00	0.00	0.00	0.00



Civil & Building	0.00	0.00	0.00	0.00	3.34	0.00
Transmission Line	0.00	0.00	0.00	0.00	4.22	0.00
Sub Station	491.92	40.14	532.06	511.99	4.22	21.61
Comm. Sys. excluding Fiber Optic	10.86	0.47	11.33	11.10	15.00	1.67
Leasehold Land	0.00	0.00	0.00	0.00	3.34	0.00
IT/Software/UNMS/URTDSM/SCADA,etc	5.14	0.26	5.40	5.27	15.00	0.79
Batteries	0.00	0.00	0.00	0.00	9.50	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	6.33	0.00
TOTAL	507.92	40.87	548.79	528.36	0.00	24.07
Weighted Average Rate of Depreciation(%)					4.555606	

2026-27						
Land(Freehold)	0.00	0.00	0.00	0.00	0.00	0.00
Civil & Building	0.00	0.00	0.00	0.00	3.34	0.00
Transmission Line	0.00	0.00	0.00	0.00	4.22	0.00
Sub Station	532.06	20.07	552.13	542.10	4.22	22.88
Comm. Sys. excluding Fiber Optic	11.33	0.23	11.56	11.45	15.00	1.72
Leasehold Land	0.00	0.00	0.00	0.00	3.34	0.00
IT/Software/UNMS/URTDSM/SCADA,etc	5.40	0.13	5.53	5.47	15.00	0.82
Batteries	0.00	0.00	0.00	0.00	9.50	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	6.33	0.00
TOTAL	548.79	20.43	569.22	559.02	0.00	25.42
Weighted Average Rate of Depreciation(%)					4.547243	



2027-28						
Land(Freehold)	0.00	0.00	0.00	0.00	0.00	0.00
Civil & Building	0.00	0.00	0.00	0.00	3.34	0.00
Transmission Line	0.00	0.00	0.00	0.00	4.22	0.00
Sub Station	552.13	0.00	552.13	552.13	4.22	23.30
Comm. Sys. excluding Fiber Optic	11.56	0.00	11.56	11.56	15.00	1.73
Leasehold Land	0.00	0.00	0.00	0.00	3.34	0.00
IT/Software/UNMS/URTDSM/SCADA,etc	5.53	0.00	5.53	5.53	15.00	0.83
Batteries	0.00	0.00	0.00	0.00	9.50	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	6.33	0.00
TOTAL	569.22	0.00	569.22	569.22	0.00	25.86
Weighted Average Rate of Depreciation(%)					4.543059	

2028-29						
Land(Freehold)	0.00	0.00	0.00	0.00	0.00	0.00
Civil & Building	0.00	0.00	0.00	0.00	3.34	0.00
Transmission Line	0.00	0.00	0.00	0.00	4.22	0.00
Sub Station	552.13	0.00	552.13	552.13	4.22	23.30
Comm. Sys. excluding Fiber Optic	11.56	0.00	11.56	11.56	15.00	1.73
Leasehold Land	0.00	0.00	0.00	0.00	3.34	0.00
IT/Software/UNMS/URTDSM/SCADA,etc	5.53	0.00	5.53	5.53	15.00	0.83
Batteries	0.00	0.00	0.00	0.00	9.50	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	6.33	0.00
TOTAL	569.22	0.00	569.22	569.22	0.00	25.86



Weighted Average Rate of Depreciation(%)					4.543059	
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(Petitioner)



Statement of Depreciation

Form No. - 10A

Name of the Transmission Licensee	POWERGRID Bikaner Transmission System Limited (PBTSL)			
Project	Implementation of 220 kV bays for RE generators and 400/220kV ICTs at Bikaner-II PS" Scheme in Northern Reg			
Element Description	220kV Main Bay 202 of 220 kV Bikaner-II - Juna Line at Bikaner-II (PBTSL)			
Region	Corporate Centre	DOC Date	Sep 5, 2024	

(Amount in Rs. Lakh)

Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
No of Days in the year	365.00	365.00	365.00	366.00	365.00
No of days for which tariff claimed	208.00	365.00	365.00	366.00	365.00
Life at the beginning of the year					
1.1 Weighted Average useful life of the Asset/ Project	24.00	24.00	24.00	24.00	24.00
1.2 Lapsed Weighted Average useful life of the Asset/Project(in completed no. of year)	0.00	0.00	1.00	2.00	3.00
1.3 Balance Weighted Average useful life of the Asset/Project(in completed no. of year)	24.00	24.00	23.00	22.00	21.00
Capital Base					
1.4 Opening capital cost	361.48	507.92	548.79	569.22	569.22
1.5 Additional Capital Expenditure dr. the year	146.44	40.87	20.43	0.00	0.00
1.6 De-Capitalisation During the year	0.00	0.00	0.00	0.00	0.00
1.7 Closing capital cost	507.92	548.79	569.22	569.22	569.22
1.8 Average capital cost	434.70	528.36	559.02	569.22	569.22
1.9 Freehold land included in 1.8	0.00	0.00	0.00	0.00	0.00
1.10 Asset having NIL salvage value included in 1.8	4.67	5.27	5.47	5.53	5.53
1.11 Asset having 10% salvage value included in 1.8	430.03	523.09	553.55	563.69	563.69
1.12 Depreciable Value(1.10+90% of 1.11)	391.70	476.05	503.67	512.85	512.85
Depreciation for the period and Cum. Depreciation					
1.13 Weighted Average Rate of depreciation	2.610996	4.555606	4.547243	4.543059	4.543059



1.14 Depreciation(for the period)	11.35	24.07	25.42	25.86	25.86
1.15 Depreciation(Annualised)	11.35	24.07	25.42	25.86	25.86
Unrecovered Depreciation for DECAP	0.00	0.00	0.00	0.00	0.00
1.16 Cumulative depreciation at the beginning of the period	0.00	11.35	35.42	60.84	86.70
1.17 Less:Adj of Cum. Dep pertaining to decapitalised Asset	0.00	0.00	0.00	0.00	0.00
1.18 Cumulative depreciation at the end of the period	11.35	35.42	60.84	86.70	112.56

(Petitioner)



Calculation of interest on working Capital

Form No. - 11

Name of the Transmission Licensee	POWERGRID Bikaner Transmission System Limited (PBTSL)		
Project	Implementation of 220 kV bays for RE generators and 400/220kV ICTs at Bikaner-II PS" Scheme in Northern Reg		
Element Description	220kV Main Bay 202 of 220 kV Bikaner-II - Juna Line at Bikaner-II (PBTSL)		
Region	Corporate Centre	DOC Date	Sep 5, 2024

(Amount in Rs. Lakh)

Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
No of Days in the year	365.00	365.00	365.00	366.00	365.00
No of days for which tariff claimed	208.00	365.00	365.00	366.00	365.00
O&M Expenses-one month	1.72	1.81	1.91	2.01	2.11
Maintenance spares 15% of O&M Expenses	3.10	3.26	3.44	3.62	3.80
Receivables equivalent to 45 days of AFC	10.98	12.73	13.23	13.29	13.24
Total Working capital	15.80	17.80	18.58	18.92	19.15
Bank Rate as on 01.04.2024 or as on 01st April of the COD year, whichever is later.	11.90	11.90	11.90	11.90	11.90
Interest on working capital	1.88	2.12	2.21	2.25	2.28
Pro rata interest on working capital	1.07	2.12	2.21	2.25	2.28

(Petitioner)



Drawdown schedule Calculation of IDC & Financing Charges

Name of the Transmission Licensee	POWERGRID Bikaner Transmission System Limited (PBTSL)		
Project	Implementation of 220 kV bays for RE generators and 400/220kV ICTs at Bikaner-II PS" Scheme in Northern Region		
Element Description	220kV Main Bay 202 of 220 kV Bikaner-II - Juna Line at Bikaner-II (PBTSL)		
Region	Corporate Centre	DOCO Date	Sep 5, 2024

Particulars	Quarter 1		Quarter 2		Quarter n (COD)	
	Quantum in FC	Ex. Rate on Drawn Down Date Amount in Indian Rupee	Quantum in FC	Ex. Rate on Drawn Down Date Amount in Indian Rupee	Quantum in FC	Ex. Rate on Drawn Down Date Amount in Indian Rupee
Loans						
Foreign Loans						
Total of Foreign Loans						
Indian Loans						
Loan 1 PBTSL -DOCO LOAN 1						
Draw Down Account						7.48
Financing Charges						
Loan 2 PBTSL -DOCO LOAN 2						



Form-5

IMPLEMENTATION OF 220 KV BAYS FOR RE GENERATORS AND 400/220KV ICTS AT BIKANER-II PS
220KV Bay (202) of 220 kV Bikaner-II - Juna Line at Bikaner-II (PBTSI)

Name of the Project:
Name of the Transmission Element:
Communication system:

DOCO: 05.09.2024 (Proposed)

Sl. No. (1)	Particulars (2)	Unit of Qty		Amount in Rs. Lakh		The portion Capital Cost included in Col-5 which is not eligible for Transmission Tariff (e.g Grant, Other	Projected/ Actual of Deferred Work to be Capitalised after COD (7)	Variation between Actual cost & I.A Cost (8=(5-6+7)-3 or 4))	Reasons for Variation (9)	Un Discharged Liabilities included in Column-5 (10)	Admitted Cost (11)	Capital Work in progress as per Books of Account as on COD (12)
		As per Original Estimates	Estimated Amount	Gross Block of the asset	Actual Expenditure (Gross Block)							
B.	SUBSTATIONS											
6	Substation Equipments											
6.1	Switchgear (CT,PT, CB, Isolator etc)	Nos	116.97	54.52			22.44		Difference due to variation in IA w.r.t Award Cost	6.09	48.43	
6.2	Automatation	Nos	5.19	2.63			0.98			0.31	2.32	
6.3	Main Equipment (GIS etc)	Nos								0.00		
6.4	Control, Relay & Protection Panel	Nos	19.58	25.00			2.03		Difference due to variation in IA w.r.t Award Cost	2.77	22.23	
6.5	PLCC	Nos	18.54	7.76			1.44			0.89	6.87	
6.6	HVDC package	Nos										
6.7	Fus Bars/ conductors / Insulators	Nos										
6.8	Outdoor/Indoor lighting & AC	Nos	24.50	15.14			0.65		Difference due to variation in IA w.r.t Award Cost	0.11	0.87	
6.9	Control Cables	LS	82.78	209.08			7.11			1.71	13.43	
6.10	Grounding System	LS										
6.11	Structure for switchyard including erection and foundation civil work	LS					60.18					
6.12	Erection (including above)	LS							Difference due to variation in IA w.r.t Award Cost	34.71	174.37	
7	Total Substation Equipments		267.56	315.11		0.00	94.83	142.98				
	Spares		33.75	5.06			23.40	-5.29	Difference due to variation in IA w.r.t. Award Cost	0.85	4.21	
8	Taxes and Duties		46.41	57.56			38.67	49.82			57.56	
8.1	Custom Duty											
8.2	Other Taxes & Duties, F&I								As per Actual			
8.3	Total Taxes & Duties											
	Total (Sub-station)		347.72	377.73		0.00	156.90	186.91			330.29	
C	Communication System											
9.1	Preliminary Works											
9.2	Communication System equipment's											
9.3	Taxes and Duties											
	Total (Communication System)											
10	Construction and pre-commissioning expenses											
10.1	Site supervision & site administration .etc.											
10.2	Tools and Plants											
10.3	construction Insurance											
	Total Construction and pre commissioning expenses											
11	Overheads											
11.1	Establishment											
11.2	Audit & Accounts								As per actual			



IMPLEMENTATION OF 220 KV BAYS FOR RE GENERATORS AND 400/220KV ICTs AT BIKANER-II PS
220kV Bay (202) of 220 KV Bikaner-II - Juna Line at Bikaner-II (PBTSL)

Name of the Project:
Name of the Transmission Element:
Communication system:
DOCO: 05.09.2024 (Proposed)

Sl. No. (1)	Particulars (2)	(Amount in Rs. Lakh)		Unit of Qty	The portion Capital Cost included in Col-5 which is not eligible for Transmission Tariff (e.g Grant, Other)	Projected/ Actual of Deferred Work to be Capitalised after COD (7)	Variation between Actual cost & L.A Cost (8=(5-6+7)-3 or 4)	Reasons for Variation (9)	Un Discharged Liabilities included in Column-5 (10)	Admitted Cost (11)	Capital Work in progress as per Books of Account as on COD (12)
		As per Original Estimates	Actual Capital Expenditure (Gross Block)								
11.3	Contingency	9.42	19.49				10.07				
	Total Overheads										
12	Cost of Plant & Machinery										
13	Capital Cost including Plant & Machinery										
13.1	Interest During Construction (IDC)										
13.2	Financing Charges (FC)										
13.3	Foreign Exchange Rate Variation (FERV)										
13.4	Hedging Cost										
	Total of IDC, FC, FERV & Hedging Cost	16.07	11.48				-4.59	As per actual		11.48	
14	Capital cost including IDC, FC, FERV & Hedging Cost	373.21	408.70			156.90	192.39		47.44	361.26	



Form 12 A

Name of the Petitioner : Power Grid Bikaner Transmission System Ltd.

Name of the Region : NR I

Name of the Project : Implementation of 220kV bays for RE generators and 400/220kV ICTs at Bikaner-II PS

Name of the Transmission Element or Communication System : 220kV Main Bay 202 of 220 kV Bikaner-II - Juna Line at Bikaner-II (PBTSL)

Date of Commercial Operation : 05.09.2024 (Proposed)

Initial Spares Discharged

Rs. In Lakh

Particulars	TL	Sub station	OPGW
		incl PLCC & IT Equipment	
Total Value of Spares as per Certificate		28.46	0.00
Expenditure up to 04.09.2024 (Prop DOCO 05.09.2024)		5.06	0.00
Estimated Expenditure from 05.09.2024 to 31.03.2025		20.29	0.00
Estimated Expenditure from 01.04.2025 to 31.03.2026		2.41	0.00
Estimated Expenditure from 01.04.2026 to 31.03.2027	0.00	0.70	0.00
Balance Expenditure	0.00	0.00	0.00



Summary of issue involved in the petition

**PART-III
FORM- 15**

1. Name of the Petitioner	POWERGRID Bikaner Transmission System Limited
2. Petition Category	Transmission
3. Tariff Period	2024-29
4. Name of the Project	Implementation of 220 kV bays for RE generators and 400/220kV ICTs at Bikaner-II PS
5. Investment Approval date	22.08.2022
6. SCOD of the Project	31.03.2024
7. Actual COD of the project	Asset-1: 05.09.2024
8. Whether entire scope is covered in the present petition.	No
9. No. of Assets covered in instant petition	1
10. No. of Assets having time over run	1
11. Estimated Project Cost as per IA	Rs.92.46 Cr
12. Is there any REC? if so, provide the date	Yes
13. Revised Estimated Project Cost (if any)	
14. Completion cost for all the assets covered in the instant petition.	Rs.5.66 Cr
15. No. of Assets covered in instant petition and having cost overrun.	NIL
16	Prayer in brief
17	Key details and any Specific issue involved:
18	Respondents
Name of Respondents	
1	UTTAR PRADESH POWER CORPORATION LTD.
2	AJMER VIDYUT VITRAN NIGAM LTD
3	JAIPUR VIDYUT VITRAN NIGAM LTD
4	JODHPUR VIDYUT VITRAN NIGAM LTD
5	HIMACHAL PRADESH STATE ELECTRICITY BOARD
6	PUNJAB STATE POWER CORPORATION LIMITED
7	HARYANA POWER PURCHASE CENTRE
8	JAMMU KASHMIR POWER CORPORATION LIMITED
9	BSES YAMUNA POWER Ltd
10	BSES RAJDHANI POWER Ltd
11	TATA POWER DELHI DISTRIBUTION LTD
12	CHANDIGARH ELECTRICITY DEPTT
13	UTTARAKHAND POWER CORPORATION LTD
14	NORTH CENTRAL RAILWAY
15	NEW DELHI MUNICIPAL COUNCIL



Summary of Capital Cost & Annual Fixed Cost (AFC) Claimed for ALL the assets covered in the present petition.	
Name of the Petitioner	POWERGRID Bikaner Transmission System Limited
Tariff Period	2024-29
Name of the Transmission Project	Implementation of 220 kV bays for RE generators and 400/220kV ICTs at Bikaner-II PS
COD of the Project (if entire scope of project is completed)	NA

A) Summary of Capital Cost as on COD and Additional Capital Expenditure claimed for all the assets Covered in the instant petition.											
S. No.	Asset No.	COD	Cut-off Date	i) Apportioned Approved Cost As per Investment approval	As on COD	ii) Summary of Actual/ Projected Capital Cost					Total Completion Cost
						2024-25	2025-26	2026-27	2027-28	Capital Cost as on 31.03.2029	
1	Asset-1	05.09.2024	2 31.03.2028	3 373.21	5 361.26	6 143.03	7 40.87	8 20.43	9 0	10=(5+6+7 +8+9) 565.59	11 565.59
Total Capital Cost Claimed					361.26	143.03	40.87	20.43	0.00	565.59	565.59

B) Summary of Annual Fixed Cost (AFC) claimed for all the assets covered in the instant petition.										
S. No.	Asset No.	Asset Name and its location								
1	Asset-1	220kV Main Bay 202 of 220 kV Bikaner-II - Juna Line at Bikaner-II (PBTSL)								
Total AFC for all the Assets		50.73	50.73	103.26	103.26	107.27	107.27	108.09	108.09	107.41

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

(Petitioner)



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PART-III

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

Form No.	Title of Tariff Filing Forms (Transmission& Communication System)	Tick
FORM- 1	Summary of Tariff	✓
FORM- 1A	Summary of Asset level cost	✓
FORM-2	Details of Transmission Lines and Substations and Communication System covered in the project scope and O&M for instant asset	✓
FORM-3	Normative parameters considered for tariff computations	✓
FORM- 4	Abstract of existing transmission assets/elements under project, Determination of Effective COD and Weighted Average Life for single AFC for the project	✓
FORM- 4A	Statement of Capital cost	✓
FORM- 4B	Statement of Capital Works in Progress	NA
FORM- 4C	Abstract of Capital Cost Estimates and Schedule of Commissioning for the New Project/Element	NA
FORM-5	Element wise Break-up of Project/ Asset/Element Cost for	NA
FORM-5A	Break-up of Construction/Supply/Service packages	NA
FORM-5B	Details of all the assets covered in the project	NA
FORM- 6	Actual Cash Expenditure and Financial Package up to COD	✓
FORM- 7	Statement of Additional Capitalisation after COD	✓
FORM- 7A	Financing of Additional Capitalisation	✓
FORM- 7B	Statement of Additional Capitalisation during five year before the end of the useful life of the project.	NA
FORM- 8	Calculation of Return on Equity	✓
FORM-8A	Details of Foreign Equity	NA
FORM-9	Details of Allocation of corporate loans to various transmission	NA
FORM-9A	Details of Project Specific Loans	NA
FORM-9B	Details of Foreign loans	NA
FORM-9C	Calculation of Weighted Average Rate of Interest on Actual Loans	✓
FORM-9D	Loans in Foreign Currency	✓
FORM-9E	Calculation of Interest on Normative Loan	✓
FORM- 10	Calculation of Depreciation Rate on original project cost	✓
FORM- 10A	Statement of Depreciation	✓
FORM- 10B	Statement of De-capitalisation	NA
FORM- 11	Calculation of Interest on Working Capital	✓
FORM- 12	Details of time over run	NA
FORM- 12A	Incidental Expenditure during Construction	NA
FORM- 12B	Calculation of IDC & Financing Charges	NA
FORM- 13	Details of Initial spares	NA
FORM- 14	Non-Tariff Income	NA
FORM- 15	Summary of issue involved in the petition	✓
FORM A	Summary of Capital Cost & Annual Fixed Cost (AFC) Claimed for ALL	✓
Other Information/ Documents		
S. No.	Information/Document	Tick
1	Certificate of incorporation, Certificate for Commencement of Business, Memorandum of Association, & Articles of Association (For New Project(s) setup by a company making tariff application for the first time to CERC)	NA
2	Region wise and Corporate audited Balance Sheet and Profit & Loss Accounts with all the Schedules & Annexure for the new Transmission System & Communication System for the relevant years.	NA
3	Copies of relevant loan Agreements	NA



4	Copies of the approval of Competent Authority for the Capital Cost and Financial package.	NA
5	Copies of the Equity participation agreements and necessary approval for the foreign equity.	NA
6	Copies of the BPTA/TSA/PPA with the beneficiaries, if any	NA
7	Detailed note giving reasons of cost and time over run, if applicable. List of supporting documents to be submitted: a. Detailed Project Report b. CPM Analysis c. PERT Chart and Bar Chart d. Justification for cost and time Overrun	NA
8	Transmission Licensee shall submit copy of Cost Audit Report along with cost accounting records, cost details, statements, schedules etc. for the transmission system as submitted to the Govt. of India for first two years i.e. 2019-20 and 2020-21 at the time of mid-term true-up in 2021-22 and for balance period of tariff period 2019-24 at the time of final true-up in 2024-25. In case of initial tariff filing the latest available Cost Audit Report should be furnished.	NA
9.	BBMB is maintaining the records as per the relevant applicable Acts. Formats specified herein may not be suitable to the available information with BBMB. BBMB may modify formats suitably as per available information to them for submission of required information for tariff purpose.	NA
10.	Any other relevant information, (Please specify)	NA
<p>Note 1: Electronic copy of the petition (in words format) and detailed calculation as per these formats (in excel format) and any other information submitted has to be uploaded in the e-filing website and shall also be furnished in pen drive/flash drive.</p>		

(Petitioner)

