

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

**PETITION FOR  
APPROVAL OF TRANSMISSION TARIFF**

For

Transmission Assets of

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

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/2025**

**IN THE MATTER OF:** Petition for determination of Transmission tariff for 2024-29 tariff block for assets under “**Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220kV, 1X500 MVA ICT (3<sup>rd</sup>)**” 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**

**.....RESPONDENTS**

**Filed by**

**POWERGRID Bikaner Transmission System Limited**

**PLACE : Bikaner**

**DATED : 27.06.2025**

**Represented by**

**Project-in-Charge,**

**POWERGRID Bikaner Transmission System Limited**

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

**PETITION NO.: .../TT/2025**

**IN THE MATTER OF:** Petition for determination of Transmission tariff for 2024-29 tariff block for assets under “**Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220kV, 1X500 MVA ICT (3<sup>rd</sup>)**” 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**

**.....RESPONDENTS**

**INDEX**

<b>Sl. No.</b>	<b>Description</b>	<b>Annexure No.</b>	<b>Page No.</b>
1	Index	-	3-4
2	Letter for registration	-	5
3	Memo of Parties	-	6-9
4	Memo of appearance	-	10
6	Petition for determination of transmission tariff for 2024-29 tariff block	-	11-33
7	Supporting Affidavit	-	34
8	Power of Attorney	-	35-37
<b><u>ANNEXURES</u></b>			

<b>Sl. No.</b>	<b>Description</b>	<b>Annexure No.</b>	<b>Page No.</b>
9	Order dated 28.01.2024 in Petition No. 181/TL/2023	Annexure-1	38-56
10	Copy of CTUIL OM dated 08.06.2023	Annexure-2	57-60
11	Investment Approval	Annexure-3	61
12	CEA Energization certificate, RLDC trial operation certificate, SPV Chairman certificate and DOCO letter	Annexure-4	62-65
13	Excerpts of 28 <sup>th</sup> NCT MOM dated 06.05.2025	Annexure-5	66-67
14	Copy of Auditor's Certificate	Annexure-6	68-69
15	Statement of initial spares discharge	Annexure-7	70
16	Statement of cash IDC and Liabilities flow Statement	Annexure-8	71-74
17	Tariff Forms for 2024-29 block	Annexure-9	75-114
18	Checklist	-	115-116

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

**PLACE : Bikaner**  
**DATED : 27.06.2025**

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

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

**PETITION NO.: .../TT/2025**

**IN THE MATTER OF:** Petition for determination of Transmission tariff for 2024-29 tariff block for assets under “**Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220kV, 1X500 MVA ICT (3<sup>rd</sup>)**” 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**

**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 be pleased to be registered and taken on record by the Hon’ble Commission.

**Filed by  
POWERGRID Bikaner Transmission System Limited**

**PLACE : Bikaner**

**DATED : 27.06.2025**

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

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

**PETITION NO.: .../TT/2025**

**IN THE MATTER OF:** Petition for determination of Transmission tariff for 2024-29 tariff block for assets under “**Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220kV, 1X500 MVA ICT (3<sup>rd</sup>)**” 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**

**.....RESPONDENTS**

**MEMO OF PARTIES**

**POWERGRID Bikaner Transmission System Limited**

**.....PETITIONER**

**VERSUS**

1. UTTAR PRADESH POWER CORPORATION LTD.

**.....RESPONDENT(S)**

SHAKTI BHAWAN, 14, ASHOK MARG

LUCKNOW - 226 001

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 AND KASHMIR POWER DEVELOPMENT CORPORATION LIMITED  
220/66/33 KV GLADNI SS SLDC BUILDING  
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))  
FIRST FLOOR, SAUDAMINI, PLOT NO-2,  
NEAR IFFCO CHOWK METRO STATION  
GURGAON-122001, HARYANA  
REPRESENTED BY ITS COO

.... RESPONDENTS

Filed by  
**POWERGRID Bikaner Transmission System Limited**

<b>PLACE : Bikaner</b>	<b>Represented by</b>
<b>DATED : 27.06.2025</b>	<b>Project-in-Charge,</b>
	<b>POWERGRID Bikaner Transmission System Limited</b>

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

**PETITION NO.: .../TT/2025**

**IN THE MATTER OF:** Petition for determination of Transmission tariff for 2024-29 tariff block for assets under “**Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220kV, 1X500 MVA ICT (3<sup>rd</sup>)**” 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)  
And others**

**.....RESPONDENTS**

**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 27<sup>th</sup> date of June'2025.

**PETITIONER  
POWERGRID Bikaner Transmission System Limited**

**(K.K. Choudhury)  
Project-in-Charge,  
POWERGRID Bikaner Transmission System Limited**

**PLACE: Bikaner  
DATED: 27.06.2025**

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

**PETITION NO.: .../TT/2025**

**IN THE MATTER OF:** Petition for determination of Transmission tariff for 2024-29 tariff block for assets under “**Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220kV, 1X500 MVA ICT (3<sup>rd</sup>)**” 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**

**.....RESPONDENTS**

<b>A. Executive Summary of the Petition:</b>
--

**(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 and the Petitioner approached Hon’ble Commission through Petition 137/TL/2022. Hon’ble Commission vide order dated 21.11.2022 in Petition No. 137/TL/2022 granted a separate transmission license to Petitioner to implement the transmission projects under RTM. Further, CTUIL/MOP assigned additional RTM schemes to the Petitioner and Petitioner approached Hon’ble Commission through Petition No. 181/TL/2023 for amendment of earlier RTM license granted vide Petition No. 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 which inter-alia included the scheme- **“Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220 kV, 1X500 MVA ICT(3<sup>rd</sup>).”** Further, few additional schemes have been progressively allocated to the Petitioner under RTM mode vide order dated 27.03.2025 in Petition No.487/TL/2024.

PBTSL operates and functions within the regulatory control of Hon’ble Central Commission. Hence, the tariff for the transmission system in the present petition established by PBTSL is required to be determined by this Hon’ble Commission in accordance with the Tariff Regulations as notified by this Hon’ble Commission in exercise of its powers under Section 178 of the Electricity Act, 2003.

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

PBTSL has impleaded the distribution licensees and Government department 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. The Petitioner have also impleaded CTUIL as Respondent no. 16.

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

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

Asset No.	Asset Name	COD
Asset-1	1X500 MVA, 400/220kV, ICT (3rd) along with associated bays at 400/220 kV Bikaner-II PS	31.03.2025

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

S.No	Event	Date
1.	Petition No.181/TL/2023 filed by the Petitioner for amendment of existing RTM transmission license required for instant transmission scheme	01.05.2023
2.	Instant transmission scheme viz. Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220 kV, 1X500 MVA ICT(3 <sup>rd</sup> ) was assigned to Petitioner by CTUIL under RTM mode	08.06.2023
3.	Revised application in Petition No.181/TL/2023 submitted by the Petitioner including the instant transmission scheme in the said petition	11.07.2023
4.	Hearing in the petition was held and Hon'ble Commission directed Petitioner to file certain information on affidavit.	31.07.2023
5.	Petition filed requisite information including information regarding the instant	11.08.2023
6.	Next hearing held in the petition and order was reserved	12.09.2023
7.	Hon'ble Commission issued interim order and held that Petitioner is eligible for the grant of a transmission licence	13.11.2023

S.No	Event	Date
8.	Hearing in the petition was held and Hon'ble Commission reserved the petition for final order	28.11.2023
9.	Final order issued by Hon'ble Commission amending RTM transmission license to PBTSL	28.01.2024
10.	Investment Approval	30.10.2023
11.	SCOD	07.12.2024
12.	COD	31.03.2025
13.	Revised Cost Estimate	Under approval

**(v) Summary of Claims:**

3. 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 Commercial Operation Date (“**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**”).

4. 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	2027-28	
Asset -1	4561.95	3384.39	0	1184.78	148.10	148.10	4865.37

*\*Revised Cost estimate is under preparation for instant Transmission Scheme and will be submitted after its approval by competent authority.*

**5. Details of Time- Overrun:**

Asset No.	SCOD	COD	Delay in days
Asset-1	07.12.2024	31.03.2025	115

The time overrun in commissioning of above assets is due to the time taken in amendment of existing RTM transmission license to PBTSL under RTM mode and due to delay in timely delivery of equipments caused by bottlenecks in the existing supply chain mechanism.

**6. Details of tariff claimed are as under:**

Tariff claimed for 2024-29 tariff block:

<b>(Rs. in Lakhs)</b>					
<b>Name of the asset</b>	<b>2024-25</b>	<b>2025-26</b>	<b>2026-27</b>	<b>2027-28</b>	<b>2028-29</b>
Asset-1	1.88	819.75	929.60	948.18	955.92

**7. 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:**

- 8.** 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 (erstwhile Bikaner-II Bhiwadi Transco Ltd.) is a 100% wholly owned subsidiary of Power Grid Corporation of India Limited.
- 9.** 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.
- 10.** 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.

11. That subsequently, various transmission schemes were awarded to Petitioner under Regulated Tariff Mechanism (RTM) mode vide CTUIL OM. Accordingly, the Petitioner approached the Hon'ble Commission, vide petition 137/TL/2022, for grant of separate RTM Transmission license for implementation of additional scope of works awarded by CTUIL under RTM mode. 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.

Subsequently, 04 nos. additional transmission schemes, including the instant project, were assigned by CTUIL to Petitioner and accordingly, Petition no. 181/TL/2023 was filed by Petitioner for amendment of existing RTM license. Hon'ble Commission vide order dated 28.01.2024 in Petition No. 181/TL/2023 has amended existing RTM transmission license granted to the Petitioner for implementation of additional 4 nos. transmission schemes under RTM mode which inter-alia included instant transmission scheme i.e. **Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220 kV, 1X500 MVA ICT (3<sup>rd</sup>) along with associated transformer bays.** A copy of the order dated 28.01.2024 in Petition No. 181/TL/2023 is enclosed as **Annexure-1**.

Further, 02 nos. additional transmission scheme were assigned to the Petitioner by CTUIL and a separate transmission license was granted by Hon'ble Commission vide its order dated 27.03.2025 in Petition No. 487/TL/2024.

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.
- (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 (3<sup>rd</sup>).**
- (viii) Implementation of Bus Sectionalizer at 400kV level of 400/220kV Bikaner-II PS.
- (ix) Augmentation of Transformation Capacity at 400/220 kV Bikaner-II PS in Rajasthan by 400/220 kV, 1X500 MVA ICT (9<sup>th</sup>).

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

Asset No	Asset Name	DOCO
Asset-1	1X500 MVA, 400/220kV, ICT (3 <sup>rd</sup> ) along with associated bays at 400/220 kV Bikaner-II PS	31.03.2025

### Approval of the Scheme

- 13.** That instant transmission scheme viz. **Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220 kV, 1X500 MVA ICT (3<sup>rd</sup>)** was assigned to the Petitioner by CTUIL vide its OM dated 08.06.2023 for implementation under RTM mode, which is enclosed as **Annexure-2**.
- 14.** 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 32<sup>nd</sup> meeting held on 30.10.2023 at an estimated cost of Rs.45.62 Crores for all assets of the instant project.

A copy of investment approval is attached hereto as **Annexure-3**.

## **SCOPE OF WORK:**

15. The scope of work covered under the project "**Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220 kV, 1X500 MVA ICT (3<sup>rd</sup>)**" are as follows:

**a) Augmentation of Bikaner-II PS**

**400 kV**

- 400/220 kV, 500 MVA ICT : 1 no.
- ICT bay (including associated tie bay) : 1 no.

**220 kV**

- ICT bay : 1 no.

The details of the petition filed under the instant Project is given as here under:

Asset	Asset Name	Remarks
Asset-1	1X500 MVA, 400/220kV, ICT (3rd) along with associated bays at 400/220 kV Bikaner-II PS	Entire project is covered under instant petition

A copy of CEA Energization certificate, RLDC trial operation certificate, SPV Chairman certificate and DOCO letter for the instant asset are enclosed as **Annexure-4**.

16. 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**

The entire scope of the subject project has been completed with the commissioning of instant asset is being filed in compliance with Regulation 9 of CERC Tariff Regulations, 2024.

## 17. Implementation Schedule

The SCOD vis-à-vis actual commissioning date of the asset claimed in the present petition are as follows:

Asset	Schedule COD	Actual COD	Delay w.r.t. SCOD
Asset-1	07.12.2024	31.03.2025	115

### **Reasons of Time Over-run**

As can be seen from the table above, there is a delay of 115 days in commissioning of instant asset vis-à-vis SCOD of 07.12.2024. Following are the reasons which led to delay in commissioning of the instant asset:

#### **i. Delay in amendment of RTM transmission license**

The time overrun in commissioning of above assets is due to the time taken in amendment of existing RTM license to PBTSL, 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.

The Petitioner filed the petition for RTM license on 01.05.2023 and filed the revised petition on 11.07.2023, incorporating the subject project, and the transmission license was granted by Hon'ble Commission vide order dated 28.01.2024 in Petition No.181/TL/2023, i.e. after 272 days from the date of filing of petition and 202 days from the date of filing of revised petition. A detailed chronology of the events is shown below:

S.No	Event	Date
1.	Petition No.181/TL/2023 filed by the Petitioner for amendment of existing RTM transmission license	01.05.2023
2.	Instant transmission scheme viz. Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220 kV, 1X500 MVA ICT(3 <sup>rd</sup> ) was assigned to Petitioner by CTUIL under RTM mode	08.06.2023

S.No	Event	Date
3.	Revised application in Petition No.181/TL/2023 submitted by the Petitioner including the instant transmission scheme in the said petition	11.07.2023
4.	Hearing in the petition was held and Hon'ble Commission directed Petitioner to file certain information on affidavit.	31.07.2023
5.	Petition filed requisite information including information regarding the instant	11.08.2023
6.	Next hearing held in the petition and order was reserved	12.09.2023
7.	Hon'ble Commission issued interim order held that Petitioner is eligible for the grant of a transmission licence	13.11.2023
8.	Hearing in the petition was held and Hon'ble Commission reserved the petition for final order	28.11.2023
9.	Final order issued by Hon'ble Commission amending RTM transmission license to PBTSL	28.01.2024
10.	Investment Approval	30.10.2023

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. It is submitted that the Petitioner had factored in 90 days towards grant of transmission license while planning for implementation of the instant project. However, there was a total delay of 202 days in issuance of order from the date of filing of revised petition. Hence, it is submitted that delay of 112 days was beyond the control of the Petitioner and therefore, not attributable to the Petitioner. Thus, the adjusted delayed period is 3 days only.

## ii. Delay in timely delivery of equipments

Further, time overrun is mainly attributable to delay in delivery of equipments caused due to impediments in existing supply chain mechanism. It is submitted that Petitioner, being a government enterprise, is bound to comply with several guidelines. Further, to achieve optimum and competitive price and to reduce the burden on beneficiaries, packaging of contracts for the Project procurement, i.e., grouping of

equipment/goods/works/services into an optimum quantity is being strictly followed. Further, in the instant case, considering economy in procurement to obtain better competitive price, the subject scope of work being small in bid size, was clubbed with different projects coming up during that time in the process of achieving a better competitive price. Despite all these measures, delay in timely supply of items has been a serious issue under various contracts, mainly due to supply chain constraints, over booking of orders, delay in delivery, etc.

In fact, this issue of time overrun due to constraints in award of contracts and bottlenecks in the supply chain mechanism has been a recurring cause of concern for the Petitioner's parent company, POWERGRID, in similar RTM petitions allocated on nomination basis. This matter was taken up with CTUIL and subsequently discussed during the meeting of 28<sup>th</sup> National Committee on Transmission (NCT) held on 06.05.2025 (excerpts placed as **Annexure-5**), wherein the following was approved:-

**3.9 Challenges being faced by POWERGRID in Awarding of Contracts for Projects allocated under RTM**

**3.9.1** *Representative from POWERGRID highlighted certain challenges being faced by them in the tendering process for projects allocated by CTUIL in multiple compressed time frame. Despite multiple efforts, engagement from potential bidders remain limited due to the low financial value and geographically dispersed nature of these projects. POWERGRID has highlighted key challenges observed in awarding these contracts including AIS/GIS bay extension and transformer augmentation works are as follows:*

- *Low Bidder participation*
- *Compressed timeline in CTUIL OM*
- *High lead time for ICT/Reactor manufacturing*
- *Small work in staggered geographical location*
- *Variation in cost mentioned in CTUIL OM & estimated cost*
- *Extension of existing GIS substation*
- *Reconductoring packages*

**3.9.2** *Representative from POWERGRID requested to increase the timelines of Transformer & Reactor Augmentation Works, GIS Extension Works, AIS Extension Works, Reconductoring Works, etc. to resolve these issues.*

**3.9.3** *Representative of CTUIL stated that presently, the timelines considered for Bay extension works as 15 months, ICT augmentation works as 18 months and GIS extension works as 21 months.*

**3.9.4** ***After deliberation, NCT decided to consider the following timelines for implementation of the projects under RTM:***

- (i). Bay extension works - 18 months,**
- (ii). ICT augmentation works - 21 months and**
- (iii). GIS extension works - 24 months.**

It is seen from above that NCT has acknowledged the veracity of this issue and thereby granted an extension of 3 months against the original timeline of 18 months against ICT augmentation works. Hence, it can be unequivocally stated that this persistent issue of delay is beyond the control of the Petitioner, and it therefore falls under Regulation 22(2) of Tariff Regulations, 2024. Hon'ble Commission may like to appreciate the fact that despite very poor response of vendors, the Petitioner through all its efforts could expedite the tendering works and place the award for the subject asset and the project could be completed with minimal delay. Thus, the adjusted delay period of 3 days may be considered under Regulation 22(2) of Tariff Regulations, 2024 and thereby condoned by Hon'ble Commission.

It is therefore humbly submitted that the entire delay of 115 days was beyond the control of Petitioner as elaborated in preceding paras and may be condoned.

#### **Estimated Completion Cost:**

- 18.** 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 DOCO (i.e. 31.03.2025) 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 Add cap 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-6**.

**(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	2027-28	
Asset -1	4561.95	3384.39	0	1184.78	148.10	148.10	4865.37

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

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	4561.95	4865.37	303.41

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**

(Rs. in lakhs)

Sl. No	Description	Cost as per FR	Estimated Capital Cost	Variation (-decrease, +increase)
		a	b	c = b - a
1.	Substation	3766.00	4504.48	738.48
2.	Communication	80.08	103.96	23.88
3.	Construction and pre-commissioning	413.45	158.14	-255.31
4.	Over heads	115.38	0	-115.38
5.	Interest During Construction (IDC)	187.04	98.78	-88.26
	<b>Total</b>	<b>4561.95</b>	<b>4865.37</b>	<b>303.41</b>

**Variation in IDC (Decrease of Rs. 88.26 Lakhs):**

Decrease in IDC is attributable to variation in the rate of interest considered in FR vs 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's Certificate.

**Cost variation in the Substation equipment including initial spares and civil works (Increase of Rs.738.48 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.

**Cost variation in construction and pre-commissioning and overheads (Decrease of Rs.370.69 Lakhs):**

As submitted in preceding para, the contracts in sub-station packages, which includes construction and pre-commissioning and overheads, are awarded on the basis of lowest evaluated eligible bidder on overall basis. The awarded packages may vary greatly vis-à-vis estimated prices considering the prevailing market conditions, which was the case in the instant asset. Further, clubbing of various packages also leads to huge variation in prices discovered through competent bidding mode compared to unit rates considered in FR estimates.

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

**DETAILS OF THE INITIAL SPARES:**

**19. 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- 4.00%
- (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

.....

20. 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	SS (Brown Field)	4608.45	224.41	6	279.83	-

It is submitted that initial spares claimed in the instant petition is well within the norms allowed by this Hon'ble Commission. Therefore, it is prayed to allow the initial spares as claimed by the Petitioner.

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.

Details of initial spares discharged is enclosed at **Annexure-7**.

## DETAILS OF ADDITIONAL CAPITALIZATION

### 21. 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.*

**22. Additional capitalization claims under Regulation:**

<b>Asset</b>	<b>DOCO date</b>	<b>Cut-off date</b>
Asset-1	31.03.2025	31.03.2028

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

Asset	Add cap detail (Rs. in Lakhs)				
	2024-25	2025-26	2026-27	2027-28	2028-29
Asset-1	-	1184.78	148.10	148.10	-
	Applicable regulation				
	24(1)(a) & 24(1)(b)	24(1)(a) & 24(1)(b)	24(1)(a) & 24(1)(b)	24(1)(a) & 24(1)(b)	-

23. 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 upto 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:**

24. 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.
25. 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 considering actual Expenditure upto DOCO and Actual/estimated expenditure from DOCO to 31.03.2029.
26. Further, for the instant asset, details of accrual IDC as considered under add cap during the year of discharge is tabulated as follows :

**Asset-1:****(Rs. in Lakhs)**

<b>Sl. No.</b>	<b>Expenditure</b>	<b>Sub-Station</b>	<b>Commn. System excl. OPGW</b>	<b>I.T. Equipment</b>	<b>Total</b>
1	As per Auditor Certificate (Upto DOCO) as on 31.03.2025	3300.81	0	83.58	<b>3384.39</b>
2	Less : Accrual IDC not discharged upto DOCO	28.22	0	0.71	28.93
3	<b>Expenditure upto DOCO (excluding Accrual IDC)</b>	<b>3272.59</b>	<b>0.00</b>	<b>82.87</b>	<b>3355.46</b>
4	Estimated Expenditure for FY 2025-26 (As per auditor certificate)	1163.40	0.00	21.38	1184.78
5	Add : Accrual IDC to be discharged in FY 2025-26	28.22	0	0.71	28.93
6	<b>Estimated Expenditure in FY 2025-26 (Including Accrual IDC)</b>	<b>1191.62</b>	<b>0.00</b>	<b>22.09</b>	<b>1213.71</b>
7	<b>Estimated Expenditure in FY 2026-27</b>	<b>145.43</b>	<b>0.00</b>	<b>2.67</b>	<b>148.10</b>
8	<b>Estimated Expenditure in FY 2027-28</b>	<b>145.43</b>	<b>0.00</b>	<b>2.67</b>	<b>148.10</b>
9	<b>Total Estimated Completion Cost</b>	<b>4755.07</b>	<b>0.00</b>	<b>110.30</b>	<b>4865.37</b>

27. It is submitted that for the instant asset, out of the total IDC of Rs.98.78 Lakhs, Rs 69.85 Lakhs has been discharged upto DOCO. The balance IDC of Rs.28.93 Lakhs is likely to be discharged during FY 2025-26. 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, the Petitioner has not claimed any notional IDC.

**28.** The Hon'ble Commission is requested to kindly allow the IDC based on cash outflow. It is further submitted that accrued IDC to be discharged during FY 2025-26 for Asset-1, as claimed in Para 26 above, has not been included in the Add Cap expenditure for the respective year in the auditor's certificate. Further, the entire IEDC amount mentioned in the auditor's certificate is on cash basis and is paid up to DOCO. Furthermore, statement of cash IDC and Liabilities flow Statement is enclosed at **Annexure-8**.

**29.** 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**.

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

**(Rs. in Lakhs)**

<b>Project</b>	<b>2024-25</b>	<b>2025-26</b>	<b>2026-27</b>	<b>2027-28</b>	<b>2028-29</b>
Asset-1	1.88	819.75	929.60	948.18	955.92

**31.** It is submitted that the petitioner has opted to pay income tax under Section 115BAA of Income-tax Act, 1961. Therefore, ROE has been calculated @ 20.045% after grossing up the ROE with tax rate of 25.168% (Base Rate 22% + Surcharge 10% + Cess 4%) as per Regulation 31 of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024. 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.

**32.** 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 30 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.

33. 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.
34. The transmission charges 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) & 36(3)(d) of the tariff regulations for block 2024-29 but excludes security expenses, Insurance and capital spares as provided in the Regulation.
35. 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 Spares:**

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.

36. 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.
37. The Transmission Charges and other related Charges indicated as 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**

38. Tariff for Transmission of Electricity (Annual Fixed Cost) for 2024-29 at para 30 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 as per Central Electricity Regulatory Commission (Sharing of Inter State Transmission Charges and Losses) Regulations, 2020 (Sharing Regulations, 2020) as amended from time to time.

**39.** 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 7** 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) Condone the delay in completion of subject asset on merit of the same being beyond the control of Petitioner.
- 2) Admit the capital cost claimed in the petition and approve the incurred/ projected additional capitalization during 2024-29.
- 3) Approve the transmission tariff for 2024-29 block for the assets covered under this petition.
- 4) 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.
- 5) 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 30 above for respective block.
- 6) 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.
- 7) 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 93(4) Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024.
- 8) 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.
- 9) Allow the Initial spares as claimed in Para 20 above.



- 10) 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.
- 11) Allow the petitioner to claim the overall insurance expenses and consequential IOWC on that insurance expenses separately.
- 12) 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.
- 13) 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.
- 14) 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:**

**DATED: 27.06.2025**

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

**Versus**

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

... **PETITIONER**

... **RESPONDENTS**

**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 paras 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 Paras 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.

*(Signature)*  
**(DEPONENT)**

**VERIFICATION**

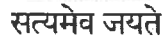
I, the deponent above named, do hereby verify the contents of the above affidavit are true to my knowledge and belief and no part of it is false and nothing material has been concealed there from.

Solemnly affirmed at Bikaner on this 27<sup>th</sup> day of June'2025.

*(Signature)*  
**(DEPONENT)**

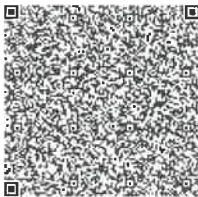
**ATTESTED**  
*(Signature)*  
**CENTRAL NOTARY**  
**BIKANER (Raj.) INDIA**

कंचन कुमार चौधरी  
(परियोजना प्रभारी)  
पावरग्रिड बीकानेर ट्रांसमिशन सिस्टम लिमिटेड



## Government of National Capital Territory of Delhi

Certificate No.	: IN-DL72227539188864W
Certificate Issued Date	: 10-Apr-2024 01:36 PM
Account Reference	: IMPACC (IV)/ dl732103/ DELHI/ DL-DLH
Unique Doc. Reference	: SUBIN-DL73210303242234956446W
Purchased by	: POWERGRID BIKANER TRANSMISSION SYSTEM LTD
Description of Document	: Article 48(c) Power of attorney - GPA
Property Description	: Not Applicable
Consideration Price (Rs.)	: 0 (Zero)
First Party	: POWERGRID BIKANER TRANSMISSION SYSTEM LTD
Second Party	: NA
Stamp Duty Paid By	: POWERGRID BIKANER TRANSMISSION SYSTEM LTD
Stamp Duty Amount(Rs.)	: 100 (One Hundred only)



Know all men by these presents, we **POWERGRID Bikaner Transmission System Limited** (hereinafter referred to as PBTSL which expression shall unless repugnant to the context or meaning thereof, include its successors, administrators, and assigns) formerly known as **Bikaner-II Bhiwadi Transco Limited** having its Registered Office at B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi – 110 016 do hereby constitute, appoint and authorize Shri Kanchan Kumar Choudhary, Project In-charge of PBTSL residing at PWO C-5/603, Sector 43, Gurugram, Haryana – 122009 as our true and lawful attorney, to do in our name and our behalf, all of the acts or things hereinafter mentioned, that is to say:-

1. To constitute, and defend legal cases, sign and verify complaints, written statements, petitions and objections, memorandum of appeal, claims, affidavits, applications, re-

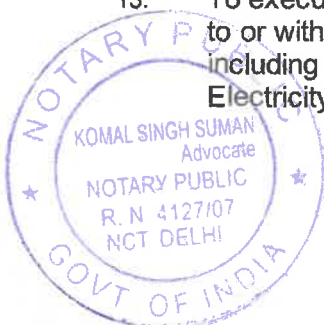
Yes

1. The authenticity of this Stamp certificate should be verified at 'www.shcilestamp.com' or using e-Stamp Mobile App of Stock Holding. Any discrepancy in the details on this Certificate and as available on the website / Mobile App renders it invalid.
2. The onus of checking the legitimacy is on the users of the certificate.
3. In case of any discrepancy please inform the Competent Authority.



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,



*Deer*

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 Delegatee.

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

.....  
Signed by the within named

POWERGRID 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 01<sup>st</sup> day of May, 2024

Accepted

.....  
(Signature of Attorney)

**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)

**Name:** Shri Subir Sen

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

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

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

**WITNESS**



**ATTESTED**

**NOTARY PUBLIC, DELHI**

**- 1 MAY 2024**

.....  
[Mrs. Aditi Jain  
Company Secretary]

.....  
[Shri Rajiv Srivastava]  
(Director)

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

**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: 28<sup>th</sup> 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 (3<sup>rd</sup>)” 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, 2<sup>nd</sup> Floor, B Block,  
Nehru Place, New Delhi - 110 019

11. CEO & ED,  
Tata Power Delhi Distribution Limited,  
NDPL House, Hudson Lines,  
Kingsway Camp, Delhi - 110 009

12. 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 (3<sup>rd</sup>) 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.):***

<b>S no</b>	<b>Scope of the Transmission Scheme</b>	<b>Capacity/km</b>	<b>Implementation timeframe</b>
1	1 no. of 220 kV line bay at 400/220 kV Bikaner-II PS for interconnection of RE project (NHPC Ltd.)	<ul style="list-style-type: none"> <li>220 kV line bay – 1 no. (refer to note a)</li> </ul>	15 months from the issue of OM by CTUIL, i.e. <b>27.2.2024</b>
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)	
<b>Total Estimated Cost:</b>			<b>Rs.29.21 crore</b>

**Note:**

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

<b>Sl. No.</b>	<b>Scope of the Transmission Scheme</b>	<b>Capacity/km</b>	<b>Implementation timeframe</b>
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.	<b>30.06.2024</b>
<b>Total Estimated Cost:</b>			<b>INR 11.68 Crore</b>

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

<b>S. No</b>	<b>Scope of the Transmission Scheme</b>	<b>Capacity/km</b>	<b>Implementation timeframe</b>
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
<b>Total Estimated Cost:</b>			<b>INR 368 Crore**</b>

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

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

<b>S. No.</b>	<b>Scope of the Transmission Scheme</b>	<b>Capacity/km</b>	<b>Implementation timeframe</b>
1.	Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220 kV, 1X500 MVA ICT (3 <sup>rd</sup> ) along with associated transformer	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. <b>7.12.2024</b>

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

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, 80MVA 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.	1x80MVA Fixed Line reactor on each circuit at Khetri end of end of Bikaner-II – Khetri 400 kV 2xD/c Line - 4 nos.	
4.	4 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 MVA, 2x125 MVA MSC, 1x125 MVA 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”***

<b>S. No.</b>	<b>Scope of the Transmission Scheme</b>	<b>Capacity</b>	<b>Implementation timeframe</b>
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.***

<b>S. No.</b>	<b>Scope of the Transmission Scheme</b>	<b>Capacity/km</b>	<b>Implementation timeframe</b>
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.).***

<b>S. No.</b>	<b>Scope of the Transmission Scheme</b>	<b>Capacity/km</b>	<b>Implementation timeframe</b>
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:**

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 (3<sup>rd</sup>) 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”***

<b><i>S. No.</i></b>	<b><i>Scope of the Transmission Scheme</i></b>	<b><i>Capacity</i></b>	<b><i>Implementation timeframe</i></b>
----------------------	--	------------------------	--

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.**

<b>S. No.</b>	<b>Scope of the Transmission Scheme</b>	<b>Capacity/km</b>	<b>Implementation timeframe</b>
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.).**

<b>S. No.</b>	<b>Scope of the Transmission Scheme</b>	<b>Capacity/km</b>	<b>Implementation timeframe</b>
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. <b>27.2.2024</b>
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)	
<b>Total Estimated Cost:</b>			<b>Rs.29.21 crore</b>

**Note:**

a) At 220 kV Bikaner-II, future line bays in Section-C are proposed to be allocated to RE developers with bays in 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.	<ul style="list-style-type: none"> <li>220 kV line bay – 2 nos.</li> </ul>	30.06.2024

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

<b>S. No.</b>	<b>Scope of the Transmission Scheme</b>	<b>Capacity/km</b>	<b>Implementation timeframe</b>
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 (3<sup>rd</sup>)***

<b>S. No.</b>	<b>Scope of the Transmission Scheme</b>	<b>Capacity/km</b>	<b>Implementation timeframe</b>
1.	Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220 kV, 1X500 MVA ICT (3 <sup>rd</sup> ) along with associated transformer bays*  *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. <b>7.12.2024</b>

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



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

**CENTRAL TRANSMISSION UTILITY OF INDIA LTD.**

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

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

8<sup>th</sup> June 2023

**OFFICE MEMORANDUM**

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


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

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

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

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

This issues with the approval of Competent Authority.

  
**(Jasbir Singh)**  
**Chief General Manager**

**Encl: as stated.**

**To:**

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

**Copy to:**

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

**CC:**

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

**Western Region**

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

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

**Northern Region**

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

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

**Note: -**

1. Best efforts shall be carried out to implement the transmission scheme within 18 months from the issue of OM by CTUIL

3. Augmentation of transformation capacity at 400/220kV Bikaner-II PS by 400/220kV, 1x500 MVA ICT (3rd)

<b>Sl. No.</b>	<b>Scope of the Transmission Scheme</b>	<b>Item Description</b>	<b>Implementation timeframe</b>
----------------	---	-------------------------	---------------------------------

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

### Eastern Region

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

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

**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 in 32<sup>nd</sup> Meeting of the Board of Directors of POWERGRID Bikaner Transmission System Limited held on Monday, 30<sup>th</sup> October 2023 at 03:40 P.M. at "Saudamini", Plot No. 2, Sector-29, Gurgaon-122001 through Video Conferencing.**

**Item No.: 32.2.3**

**Investment Approval for "Augmentation of transformation capacity at 400/220kV Bikaner-II PS by 400/220kV, 1x500 MVA ICT (3rd)"**

X

X

X

After discussion Board passed the following resolution:

**"RESOLVED THAT** Investment Approval, be and is hereby accorded for 'Augmentation of transformation capacity at 400/220kV Bikaner-II PS by 400/220kV, 1x500 MVA ICT (3rd)' at an estimated cost of Rs 45.62 crore (comprising of 31.93 crore as debt and 13.69 crore as equity maintaining debt equity ratio as 70:30) incl. IDC of Rs. 1.87 Cr & IEDC of Rs. 4.13 Cr. at June 2023 price level scheduled to be commissioned within 18 months from the date of CTUIL OM i.e., by 07.12.2024, be and is hereby approved, as per the memorandum submitted before the Board of Directors."

**RESOLVED FURTHER THAT** approval of the Board be and is hereby accorded for availing the consultancy services fee from POWERGRID @ 5% of the actual project cost (excl IDC & IEDC) plus GST as applicable for additional scope of additional scope of works."

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



(Aditi)

**Company Secretary**

**Membership No.: A66193**

**Address: Saudamini", Plot No. 2,  
Sector-29, Gurgaon-122001**

**Registered Office**

**B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi – 110016**

**Tel: 011 – 26560112, 26560115, Email: mrinal@powergrid.in**

**CIN: U40300DL2020GOI363669**





**भारत सरकार/Govt. of India**  
**विद्युत मंत्रालय/Ministry of Power**  
**केन्द्रीय विद्युत प्राधिकरण/Central Electricity Authority**  
**क्षेत्रीय निरीक्षणालय संगठन (उत्तर)/Regional Inspectorial Organization (North)**  
 \*\*\*\*\*

**NRIO/ PBTSL /RAJ/2025/211**

**Dated: 22.03.2025**

**Approval for Energisation**

(Under Regulation 45 of CEA (Measures relating to Safety and Electric Supply), Regulations, 2023)

**To,**  
**M/s Powergrid Bikaner Transmission System Limited (PBTSL)**  
**400/220 kV Bikaner-II SS**  
**Village Jaimalsar, Tehsil Kolayat,**  
**Bikaner (Raj)-334001**

**Subject: Approval for energisation of electrical installations ( 400/220 kV-500 MVA ICT, 400 kV Bays (437 & 438) and 220 kV Bay (228) at 400/220 kV Bikaner-II SS, Village- Jaimalsar, Tehsil Kolayat, Bikaner, Rajasthan of M/s PBTSL under Regulation 45 of the Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations, 2023.**

**Ref:** (1) Online application No. (Form A application A/2025/15769 dated 27/02/2025)  
 (2) CEA Order for compliance dated 12.03.2025  
 (3) M/s PBTSL's compliance uploaded on the portal dated 18.03.2025

Whereas the electrical installation at ( 400/220 kV-500 MVA ICT, 400 kV Bays (437 & 438) and 220 kV Bay (228) at 400/220 kV Bikaner-II SS, Village Jaimalsar, Tehsil Kolayat, Bikaner, Rajasthan of M/s PBTSL were inspected by the undersigned on 10.03.2025 under Regulation 45 of the Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations, 2023.

**Approval for Energisation of the said electrical installation/apparatus (Details being enclosed as Annexure) is hereby accorded subject to the following conditions:**

1. M/s PBTSL shall ensure to have all other requisite clearances/NOCs from Government 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 PBTSL for safety during operation and maintenance.

The first periodic inspection of the above installation shall be carried out at an interval not exceeding 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.

*Somrat*

Som Vrat Tripathi  
 Deputy Director &  
 Electrical Inspector to the GoI

## Annexure

List of Bays/Equipment to be Energized at 400/220kV Bikaner-II PS under Extension of 400/220 kV Bikaner-II PS associated with augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220 kV, 1 *500 MVA ICT								
Sl No	Bay	Equipment Name	Make	MODEL	Rating	SL Number		
						R-Phase	Y-Phase	B-Phase
1	228	LA	OBLUM	PBC	216kV	488	489	490
2		Isolator 89A with One E/S	GR POWER	HDB	245kV,2500A,50KA/1 Sec	4284/21798		
3		Isolator 89B	GR POWER	HDB	245kV,2500A,50KA/1 Sec	4284/21799		
4		CB	Siemens	3AP1FI	245kV	10/2024/42135		
5		Isolator 89TR with Two E/S	GR Power	HDB	245kV,2500A,50KA/1 Sec	4284/21796		
6		Isolator 89T	GR Power	HDB	245kV,2500A,50KA/1 Sec	4284/21780		
7		CT	Mehru	800/1600/1	245kV,	OC14077/3/1/24	OC14077/3/2/24	OC14077/4/1/24
8	438	Isolator 89A	GR POWER	HDB	420KV,3150A,63KA/1Sec	4284/8938 F1	4284/8938 M	4284/8938 F2
9		Isolator 89B	GR POWER	HDB	420KV,3150A,63KA/1Sec	4284/8937 F1	4284/8937 M	4284/8937 F2
10		CT	MEHRU	500/2000/3000	63KA/1 sec	OC/14077/1/3/24	OC/14077/1/2/24	OC/14077/2/1/24
12		Isolator 89TR	GR POWER	VB	420KV,3150A,63KA/1Sec	4284/8939 F1	4284/8939 FM	4284/8939 F2
13		LA	OBLUM	PBC	336kV	445	444	443
14		Circuit Breaker	SIEMENS	3AP2FI	420KV	09/2024/42133		
15	ICT	ICT-8	T&R	3 Ph Auto 400/220/33 KV	500 MVA	PM0200275		
16	437	Isolator 89A	GR POWER	HDB	420KV,3150A,63KA/1Sec	4284/8941 F1	4284/8941 M	4284/8941 F2
17		Isolator 89B	GR POWER	HDB	420KV,3150A,63KA/1Sec	4284/8940 F1	4284/8940 M	4284/8940 F2
18		CT	MEHRU	500/2000/3000	63KA/sec	OC/14077/1/7/24	OC/14077/1/5/24	OC/14077/1/4/24
19		Circuit Breaker	SIEMENS	3AP3FI	420KV	08/2024/42131		

*Sommit*

# 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) – 334302

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

**Certificate as per**

**CERC (Indian Electricity Grid Code) Regulation 2023**

**(For Inter State Transmission System)**

It is to certify that "1X500 MVA, 400/220kV, ICT along with associated bays at Bikaner-II S/s" under the Transmission system namely "Augmentation of transformation capacity at 400/220kV Bikaner-II PS by 400/220kV, 1x500 MVA ICT (3rd)" Scheme in Northern Region conform to the Central Electricity Authority Technical Standards for Construction, Central Electricity Authority Technical Standards for Connectivity, Central Electricity Authority 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 are capable of operation to their full capacity as per requirements for declaration of commercial operation w.e.f 30.03.2025 (23:48 hrs).



**(Dr. Subir Sen)**  
**Chairman**

**POWERGRID Bikaner Transmission System Limited**

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 पारिषद प्रणाली- I, क्षेत्रीय कार्यालय: एस.सी.ओ. बे नं. 5-10 सेक्टर 16A, फरीदाबाद – 121002, हरियाणा

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



# 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) – 334302

Address: 400/220 KV Bikaner-II Sub-station, Village Jaimalsar, Bhanipura Road, Bikaner (Rajasthan) – 334302

CIN: U40300DL2020GOI363669

Ref: TBCB-RTM/PBTSL/DOCO Letter/ICT 8/08

Date: 21.04.2025

To  
COO, CTUIL  
Floor No. 7, Tower 1, Plot No. 16,  
IRCON International Tower, Institutional Area, Sector 32,  
Gurugram, Haryana – 122001.

**Kind Attention: Shri Ashok Pal**

**Subject:** Issuance of DOCO Certificate for for transmission element namely 400/220 kV, 500 MVA ICT – 8 along with associated bays at Bikaner-II SS (PBTSL) under the transmission Scheme namely "augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220 kV, 1 \*500 MVA ICT (3rd)".

Ref: (i) "CTU's OM: C/CTU/AI/00/13<sup>th</sup> CCTP dated 08.06.2023"

Dear Sir,

Consequent to the successful charging, the 400/220 kV, 500 MVA ICT – 8 along with associated bays at Bikaner-II SS; Executed by POWERGRID Bikaner Transmission System Ltd.(PBTSL) under the transmission Scheme namely "augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220 kV, 1 \*500 MVA ICT (3rd)" has been put under commercial operation with effect from 00:00 Hrs. of 31.03.2025, in terms of CERC (Indian Electricity Grid Code) Regulations 2023 and Clause 1 of Regulation (5) of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024.

Transmission charges for the above asset is payable with effect from 31.03.2025.

Thanking You,

Yours faithfully,  
For and on behalf of POWERGRID BIKANER TRANSMISSION SYSTEM LIMITED



(K K Choudhary)  
Project In-charge

POWERGRID BIKANER TRANSMISSION SYSTEM LIMITED

Email id: kanchan@powergrid.in

Mobile No.: 9560690612

Enclosed: As above

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.जी. नं. 5-10 सेक्टर 16A, फरीदाबाद – 121002, हरियाणा

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

Minutes of 28<sup>th</sup> meeting of National Committee on Transmission (NCT)

<b>Sl. No</b>	<b>Scope of the Transmission Scheme</b>	<b>Capacity /km</b>	<b>Schedule</b>
.	make Hassan - CN'Halli 400kV D/c line (25 KM)		

### 3.8 Procurement of Regional Spares for Southern Region in compliance to Commission's Order dated 18.01.2018 in Petition No. 38/TT/2017 of POWERGRID

3.8.1 Representative of POWERGRID stated that during the 50<sup>th</sup> TCC & 53<sup>rd</sup> SRPC meeting held on 29-30<sup>th</sup> November, 2024, forum approved regional cold spare transformers and reactors for Southern Region. The details are as below:

#### A. Transformers

<b>MVA rating &amp; phase</b>	<b>Voltage rating</b>	<b>Qty approved</b>	<b>Location approved of spare transformers</b>	<b>Tentative Cost / Unit (Rs in Cr.)</b>	<b>Amount (Rs. in Cr.)</b>
3Ø – 500 MVA	400/220/33kV	5	AP, Karnataka, Kerala Telangana & Tamil Nadu	26.81	134.05

#### B. Reactors

<b>MVA rating &amp; phase</b>	<b>Voltage rating</b>	<b>Qty approved</b>	<b>Location approved of spare transformers</b>	<b>Tentative Cost / Unit (Rs in Cr.)</b>	<b>Amount (Rs. in Cr.)</b>
3Ø – 125 MVar	420kV	5	AP, Karnataka, Kerala Telangana & Tamil Nadu	13	65
3Ø – 80 MVar	420kV	2	Karnataka & Tamil Nadu	11.25	22.5
<b>Total</b>					<b>0</b>

3.8.2 POWERGRID sought the approval of NCT for the above spares.

3.8.3 After deliberations, NCT decided that comprehensive proposals for all regions may be prepared for each region and deliberated in respective RPCs and thereafter in the National Power Committee (NPC). Further, NPC may formulate comprehensive guidelines for requirement and use of spares.

### 3.9 Challenges being faced by POWERGRID in Awarding of Contracts for Projects allocated under RTM

3.9.1 Representative from POWERGRID highlighted certain challenges being faced by

Minutes of 28<sup>th</sup> meeting of National Committee on Transmission (NCT)

them in the tendering process for projects allocated by CTUIL in multiple compressed timeframe. Despite multiple efforts, engagement from potential bidders remain limited due to the low financial value and geographically dispersed nature of these projects. POWERGRID has highlighted key challenges observed in awarding these contracts including AIS/GIS bay extension and transformer augmentation works are as follows:

- Low Bidder participation
  - Compressed timeline in CTUIL OM
  - High lead time for ICT/Reactor manufacturing
  - Small work in staggered geographical location
  - Variation in cost mentioned in CTUIL OM & estimated cost
  - Extension of existing GIS substation
  - Reconductoring packages
- 3.9.2 Representative from POWERGRID requested to increase the timelines of Transformer & Reactor Augmentation Works, GIS Extension Works, AIS Extension Works, Reconductoring Works, etc. to resolve these issues.
- 3.9.3 Representative of CTUIL stated that presently, the timelines considered for Bay extension works as 15 months, ICT augmentation works as 18 months and GIS extension works as 21 months.
- 3.9.4 After deliberations, NCT decided to consider the following timelines for implementation of the projects under RTM:
- (i). Bay extension works - 18 months,
  - (ii). ICT augmentation works - 21 months and
  - (iii). GIS extension works - 24 months.
- 3.10 Mismatch in transmission system and implementation of line bays under ISTS for termination of DTL of RE generation projects**

# PMSS & CO.

Chartered Accountants

GSTIN: 06AAHFP9830G1Z2

PAN: AAHFP9830G

Head Office: 118 B, G.F., Sector-30-33,  
Indraprastha Colony, Faridabad-121003

Email: [guptaak990@gmail.com](mailto:guptaak990@gmail.com)

M.No. 9871325500

## 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:** Augmentation of Transformation Capacity at 400/220kV Bikaner-II  
PS By 400/220kV, 1X500 MVA ICT (3RD)

**Name of the Element:** 1X500 MVA, 400/220kV, ICT (3rd) along with associated bays at Bikaner-II S/s

**Date of Commercial Operation:** 31.03.2025

					Rs. in Laacs
S/N	Particulars	Capital Cost	IEDC	IDC	Total
1	Expenditure up to 30.03.2025 (DOCO 31.03.2025)	3127.47	158.14	98.78	3,384.39
2	Expenditure from 31.03.2025 to 31.03.2025	0.00			0.00
3	Estimated Expenditure from 01.04.2025 to 31.03.2026	1184.78			1,184.78
4	Estimated Expenditure from 01.04.2026 to 31.03.2027	148.10			148.10
5	Estimated Expenditure from 01.04.2027 to 31.03.2028	148.10			148.10
	<b>Total</b>	<b>4,608.45</b>	<b>158.14</b>	<b>98.78</b>	<b>4,865.37</b>

- 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 31.03.2025.
- b) The Estimated Expenditure mentioned at Sl. No. 3 to 5 are based on Management estimates.

**PMSS AND CO.**

Chartered Accountants

FRN: 019667N

Place: Faridabad

Date: 03/06/2025

**Ajay Kumar Gupta**

Partner

M.No.095714

UDIN: 25095714BMISYM6495

**P M S S & Co.**  
**CHARTERED ACCOUNTANTS**  
**118 B.G.F. INDRAPRASTHA COLONY, SECTOR 33, FARIDABAD-121 003**

**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 :** Augmentation of Transformation Capacity at 400/220kV Bikaner-II PS By 400/220kV, 1X500 MVA ICT (3RD)

**Name of the Element :** 1X500 MVA, 400/220kV, ICT (3rd) along with associated bays at Bikaner-II S/s

**Date of Commercial Operation :** 31.03.2025

Rs in Lacs											
S/N	Particulars	Freehold Land	Leasehold Land	Building and Civil Works	Tr. Line	Sub Station	OPGW	Communication System excl. OPGW	I. T Equipment incl. software, UNMS, URTDSM, EMS, Cyber Security System, REMC, WAMS, SCADA System	Batteries	Total
1	Expenditure up to 30.03.2025 (DOCO 31.03.2025)	0.00	0.00	0.00	0.00	3300.81	0.00	0.00	83.58	0.00	3384.39
2	Expenditure from 31.03.2025 to 31.03.2025	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	Estimated Expenditure from 01.04.2025 to 31.03.2026	0.00	0.00	0.00	0.00	1163.40	0.00	0.00	21.38	0.00	1184.78
4	Estimated Expenditure from 01.04.2026 to 31.03.2027	0.00	0.00	0.00	0.00	145.43	0.00	0.00	2.67	0.00	148.10
5	Estimated Expenditure from 01.04.2027 to 31.03.2028	0.00	0.00	0.00	0.00	145.43	0.00	0.00	2.67	0.00	148.10
	Total	0.00	0.00	0.00	0.00	4755.07	0.00	0.00	110.30	0.00	4865.37

S/N	Particulars	TL	Sub station incl PLCC & IT Equipment	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)	0.00	4608.45	0.00	4608.45
2	Initial Spares included above	0.00	224.41	0.00	224.41

- 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 31.03.2025
- b) The Estimated Expenditure mentioned at Sl. No. 3 to 5 are based on Management estimates.

**P M S S & Co.**  
Chartered Accountants  
**FRN-019667N**

Place:- Faridabad  
Date:- 03.06.2025

**Ajay Kumar Gupta**  
Partner  
**M.No. 095714**  
**UDIN 25095714BMISYM6495**

**Statement of discharge of initial spares**

Name of the Petitioner : **Power Grid Corporation Of India Limited**

Name of the Region : **NR I**

Name of the Project : **Transmission System for Evacuation of Power from Rajasthan REZ PH-IV (Part-1) (Bikaner Complex) Part-E**

Name of the Transmission Element or Communication System : **1X500 MVA, 400/220kV, ICT along with associated bays at Bikaner-II S/s under the Transmission system namely "Augmentation of transformation capacity at 400/220kV Bikaner-II PS by 400/220kV, 1x500 MVA ICT (3rd)**

Date of Commercial Operation : **31.03.2025**

(Rs. in Lakh)

<b>Particulars</b>	<b>TL</b>	<b>Sub station incl PLCC &amp; IT Equipment</b>	<b>OPGW</b>
Total Value of Spares as per Certificate		224.41	
Expenditure up to 30.03.2025 (DOCO 31.03.2025)		38.69	
Estimated Expenditure from 31.03.2025 to 31.03.2025		148.58	
Estimated Expenditure from 01.04.2025 to 31.03.2026		18.57	
Estimated Expenditure from 01.04.2026 to 31.03.2027		18.57	
Balance Expenditure	0.00	0.00	0.00

**Statement showing IDC Discharged upto DOCO**

<b>Project:</b>	<b>Transmission System for Evacuation of Power from Rajasthan REZ PH-IV (Part-1) (Bikaner Complex)-Part-E</b>						
<b>Element:</b>	<b>1X500 MVA, 400/220kV, ICT along with associated bays at Bikaner-II S/s under the Transmission system namely "Augmentation of transformation capacity at 400/220kV Bikaner-II PS By 400/220kV, 1X500 MVA ICT (3rd)</b>						
<b>DOCO: Actual</b>	<b>31-Mar-25</b>						
<b>Description of Loan from POWERGRID</b>	<b>Amount</b>	<b>Interest Rate</b>	<b>Drawl Date</b>	<b>Total IDC</b>	<b>Annual Interest Payment Date upto DOCO</b>	<b>Interest Discharged upto DOCO</b>	<b>Annual Interest Payment Date after DOCO</b>
BOND-LXXII	0.18	7.56%	21-Jun-23	0.02	04-Jan-25	0.02	31-Mar-25
BOND-LXXII	0.50	7.56%	21-Jun-23	0.07	04-Jan-25	0.06	31-Mar-25
BOND-LXXII	11.41	7.56%	21-Jun-23	1.53	04-Jan-25	1.32	31-Mar-25
BOND-LXXII	0.16	7.56%	23-Jun-23	0.02	04-Jan-25	0.02	31-Mar-25
BOND-LXXII	0.24	7.56%	23-Jun-23	0.03	04-Jan-25	0.03	31-Mar-25
BOND-LXXII	0.08	7.56%	30-Jun-23	0.01	04-Jan-25	0.01	31-Mar-25
BOND-LXXII	0.01	7.56%	30-Jun-23	0.00	04-Jan-25	0.00	31-Mar-25
BOND-LXXII	0.02	7.56%	30-Jun-23	0.00	04-Jan-25	0.00	31-Mar-25
BOND-LXXII	0.01	7.56%	30-Jun-23	0.00	04-Jan-25	0.00	31-Mar-25
SBI_LOC_IV	0.01	Floating	06-Jul-23	0.00	04-Jan-25	0.00	31-Mar-25
SBI_LOC_IV	0.01	Floating	06-Jul-23	0.00	04-Jan-25	0.00	31-Mar-25
SBI_LOC_IV	0.04	Floating	10-Jul-23	0.01	04-Jan-25	0.00	31-Mar-25
SBI_LOC_IV	0.08	Floating	10-Jul-23	0.01	04-Jan-25	0.01	31-Mar-25
SBI_LOC_IV	0.72	Floating	11-Jul-23	0.10	04-Jan-25	0.09	31-Mar-25
BOND-LXXIII	0.02	7.50%	07-Sep-23	0.00	04-Jan-25	0.00	31-Mar-25
BOND-LXXIII	0.01	7.50%	07-Sep-23	0.00	04-Jan-25	0.00	31-Mar-25
BOND-LXXIII	0.03	7.50%	08-Sep-23	0.00	04-Jan-25	0.00	31-Mar-25
BOND-LXXIII	0.08	7.50%	13-Sep-23	0.01	04-Jan-25	0.01	31-Mar-25
BOND-LXXIII	14.73	7.50%	22-Sep-23	1.68	04-Jan-25	1.41	31-Mar-25
BOND-LXXIV	0.68	7.70%	19-Oct-23	0.08	04-Jan-25	0.06	31-Mar-25
BOND-LXXIV	0.43	7.70%	25-Oct-23	0.05	04-Jan-25	0.04	31-Mar-25
BOND-LXXIV	0.22	7.70%	02-Nov-23	0.02	04-Jan-25	0.02	31-Mar-25
BOND-LXXIV	23.00	7.70%	07-Nov-23	2.47	04-Jan-25	2.04	31-Mar-25
BOND-LXXIV	39.66	7.70%	12-Dec-23	3.97	04-Jan-25	3.23	31-Mar-25
BOND-LXXIV	0.01	7.70%	14-Dec-23	0.00	04-Jan-25	0.00	31-Mar-25
BOND-LXXIV	0.27	7.70%	18-Dec-23	0.03	04-Jan-25	0.02	31-Mar-25
BOND-LXXIV	16.39	7.70%	19-Dec-23	1.62	04-Jan-25	1.31	31-Mar-25
BOND-LXXIV	23.82	7.70%	26-Dec-23	2.32	04-Jan-25	1.87	31-Mar-25
BOND-LXXIV	208.69	7.70%	29-Dec-23	20.15	04-Jan-25	16.23	31-Mar-25
BOND-LXXIV	1.21	7.70%	08-Jan-24	0.11	04-Jan-25	0.09	31-Mar-25
BOND-LXXV	0.18	7.65%	12-Jan-24	0.02	04-Jan-25	0.01	31-Mar-25
BOND-LXXV	0.58	7.65%	19-Jan-24	0.05	04-Jan-25	0.04	31-Mar-25
BOND-LXXV	0.17	7.65%	23-Jan-24	0.02	04-Jan-25	0.01	31-Mar-25
BOND-LXXV	2.38	7.65%	24-Jan-24	0.22	04-Jan-25	0.17	31-Mar-25
BOND-LXXV	0.35	7.65%	23-Feb-24	0.03	04-Jan-25	0.02	31-Mar-25
BOND-LXXV	202.17	7.65%	29-Feb-24	16.78	04-Jan-25	13.00	31-Mar-25
BOND-LXXVII	200.00	7.55%	23-Apr-24	14.15	04-Jan-25	10.47	31-Mar-25
BOND-LXXVII	100.00	7.55%	04-Jun-24	6.21	04-Jan-25	4.36	31-Mar-25
BOND-LXXVIII	15.11	7.38%	01-Oct-24	0.55	04-Jan-25	0.28	31-Mar-25
BOND-LXXVIII	2.64	7.38%	07-Oct-24	0.09	04-Jan-25	0.05	31-Mar-25
BOND-LXXIX	24.86	7.08%	25-Oct-24	0.76	04-Jan-25	0.33	31-Mar-25
BOND-LXXIX	8.40	7.08%	25-Oct-24	0.26	04-Jan-25	0.11	31-Mar-25
BOND-LXXIX	4.15	7.08%	25-Oct-24	0.13	04-Jan-25	0.05	31-Mar-25
BOND-LXXIX	19.21	7.08%	25-Oct-24	0.59	04-Jan-25	0.25	31-Mar-25
BOND-LXXIX	14.98	7.08%	29-Oct-24	0.44	04-Jan-25	0.19	31-Mar-25
BOND-LXXIX (Repaid on 09.01.2025 and replaced with HDFC_1 on 21.05.2025)	470.22	7.08%	29-Oct-24	6.57	04-Jan-25	5.84	31-Mar-25
BOND-LXXIX	104.15	7.08%	29-Oct-24	3.09	04-Jan-25	1.29	31-Mar-25
BOND-LXXIX	104.15	7.08%	29-Oct-24	3.09	04-Jan-25	1.29	31-Mar-25
BOND-LXXIX	15.48	7.08%	29-Oct-24	0.46	04-Jan-25	0.19	31-Mar-25
BOND-LXXIX	246.41	7.08%	29-Oct-24	7.31	04-Jan-25	3.06	31-Mar-25
BOND-LXXIX	36.82	7.08%	05-Nov-24	1.04	04-Jan-25	0.41	31-Mar-25
BOND-LXXIX	8.82	7.08%	29-Nov-24	0.21	04-Jan-25	0.06	31-Mar-25
BOND-LXXIX	61.45	7.08%	03-Dec-24	1.41	04-Jan-25	0.35	31-Mar-25
BOND-LXXIX	18.34	7.08%	04-Dec-24	0.42	04-Jan-25	0.10	31-Mar-25
BOND-LXXIX	0.00	7.08%	09-Jan-25	0.00	09-Jan-25	0.00	31-Mar-25
BOND-LXXX	35.34	7.12%	24-Jan-25	0.45	24-Jan-25	0.00	31-Mar-25
BOND-LXXX	6.27	7.12%	25-Mar-25	0.01	25-Mar-25	0.00	31-Mar-25
BOND-LXXX	68.25	7.12%	25-Mar-25	0.08	25-Mar-25	0.00	31-Mar-25

Description of Loan from POWERGRID	Amount	Interest Rate	Drawl Date	Total IDC	Annual Interest Payment Date upto DOCO	Interest Discharged upto DOCO	Annual Interest Payment Date after DOCO
BOND-LXXX	6.14	7.12%	27-Mar-25	0.00	27-Mar-25	0.00	31-Mar-25
BOND-LXXX	48.16	7.12%	29-Mar-25	0.02	29-Mar-25	0.00	31-Mar-25
BOND-LXXX	20.62	7.12%	29-Mar-25	0.01	29-Mar-25	0.00	31-Mar-25
Proposed Loan (2025-26) (IR Replacement)	160.30			0.00		0.00	
Proposed Loan (2025-26) (IR Replacement)	20.25			0.00		0.00	
<b>Total</b>	<b>2369.07</b>			<b>98.78</b>		<b>69.85</b>	
Total IDC as per Cost Certificate	98.78						
IDC Discharged upto DOCO	69.85						
Accrual IDC upto DOCO (To be Discharged during 2024-2025)	0.00						
Accrual IDC upto DOCO (To be Discharged during 2025-2026)	28.93						
Certified that Interest on SBI Loan is paid monthly and Interest on Bonds is paid annually/quarterly as per terms of Agreement /terms of issue of bonds and no default has been made in respect of debt servicing.							



**Liability Flow Statement**

**Name of Petitioner**      **POWER GRID CORPORATION OF INDIA LTD.**

**Asset Name**      1X500 MVA, 400/220kV, ICT along with associated bays at Bikaner-II S/s under the Transmission system namely "Augmentation of transformation capacity at 400/220kV Bikaner-II PS by 400/220kV, 1x500 MVA ICT (3rd)

**Project Name**      Transmission System for Evacuation of Power from Rajasthan REZ PH-IV (Part-1) (Bikaner Complex)-Part-E (Rs. in Lakhs)

Asset No.	Headwise /Partywise	Particulars <sup>#</sup>	Year of Actual Capitalisation	Outstanding Liability as on COD/31st March 2019*	Discharge						Reversal						Additional Liability Recognized^						Outstanding Liability as on 31.03.2024
					2024-25	2025-26	2026-27	2027-28	2028-29	Total (24-29)	2024-25	2025-26	2026-27	2027-28	2028-29	Total (24-29)	2024-25	2025-26	2026-27	2027-28	2028-29	Total (24-29)	
<b>Asset-1</b>		Land	31.03.2025	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Civil & Building	31.03.2025	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Tr. Line	31.03.2025	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	M/s Hartek Power, M/s T&R (Powergrid)	Sub Station	31.03.2025	120.04	0.00	<b>96.04</b>	<b>12.00</b>	<b>12.00</b>	0.00	<b>120.04</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		OPGW	31.03.2025	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Communication System excl. OPGW	31.03.2025	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	M/s Hartek Power	I. T Equipment incl. software, UNMS, URTDSM, EMS, Cyber Security System, REMC, WAMS, SCADA System	31.03.2025	3.46	0.00	<b>2.76</b>	<b>0.35</b>	<b>0.35</b>	0.00	<b>3.46</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Batteries	31.03.2025	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Asset No.	Headwise /Partywise	Particulars <sup>#</sup>	Year of Actual Capitalisation	Outstanding Liability as on COD/31st March 2019*	Discharge						Reversal						Additional Liability Recognized^						Outstanding Liability as on 31.03.2029
					2029-30	2030-31	2031-32	2032-33	2033-34	Total (29-34)	2029-30	2030-31	2031-32	2032-33	2033-34	Total (29-34)	2029-30	2030-31	2031-32	2032-33	2033-34	Total (29-34)	
<b>Asset-1</b>		Land	31.03.2025	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Civil & Building	31.03.2025	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Tr. Line	31.03.2025	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Sub Station	31.03.2025	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		OPGW	31.03.2025	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Communication System excl. OPGW	31.03.2025	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		I. T Equipment incl. software, UNMS, URTDSM, EMS, Cyber Security System, REMC, WAMS, SCADA System	31.03.2025	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Batteries	31.03.2025	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Asset No.	Headwise /Partywise	Particulars <sup>#</sup>	Year of Actual Capitalisation	Details of unexecuted work for which works to be completed before DOCO/Cut-off date	Remarks
-----------	---------------------	--------------------------	-------------------------------	---	---------

			2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	Total (24-29 & 29-34)	
Asset-1		Land	31.03.2025	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
		Civil & Building	31.03.2025	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
		Tr. Line	31.03.2025	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
	M/s Hartek Power, M/s T&R (Powergrid)	Sub Station	31.03.2025	0.00	1067.36	133.43	133.43	0.00	0.00	0.00	0.00	0.00	1334.22	-
		OPGW	31.03.2025	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
		Communication System excl. OPGW	31.03.2025	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	M/s Hartek Power	I. T Equipment incl. software, UNMS, URTDSM, EMS, Cyber Security System, REMC, WAMS, SCADA System	31.03.2025	0.00	18.62	2.32	2.32	0.00	0.00	0.00	0.00	0.00	23.26	
		Batteries	31.03.2025	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-

\*All Works completed within Cut-off Date

**Summary of Tariff**

Name of the Transmission Licensee:		Power Grid Bikaner Transmission System Ltd	
Project	Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 440/220 kV, 1X500 MVA ICT (3rd)		
Element Description	Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220 kV, 1X500 MVA ICT (3rd) along with associated transformer bays		
Region	Corporate Centre	DOCO Date	Mar 31, 2025

(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	1.00	365.00	365.00	366.00	365.00
Depreciation-Form No. 10A	0.41	177.34	207.41	213.95	217.21
Interest on Loan-Form No. 9E	0.38	195.48	222.59	214.76	202.74
Return on Equity-Form No. 8	0.55	238.27	279.22	288.13	292.58
Int. on Working capital-Form No.11	0.04	17.83	19.77	20.31	20.80
Op. and maintenance-Form No.2	0.50	190.83	200.61	211.03	222.59
Total AFC	1.88	819.75	929.60	948.18	955.92

(Petitioner)

## Summary of Asset Level Cost

Form No. - 1A

Name of the Transmission Licensee	Power Grid Bikaner Transmission System Ltd		
Project	Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 440/220 kV, 1X500 MVA ICT (3rd)		
Element Description	Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220 kV, 1X500 MVA ICT (3rd) along with associated transformer bays		
Region	Corporate Centre	DOCO Date	Mar 31, 2025

### 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	3,420.85	0.00	1,067.36	133.43	133.43	0.00	4,755.07
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/URTDMS/	0.00	0.00	87.04	0.00	18.62	2.32	2.32	0.00	110.30
Batteries	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total Capital Cost as per Books</b>	0.00	0.00	3,507.89	0.00	1,085.98	135.75	135.75	0.00	4,865.37
Less: Liability	0.00	0.00	152.43	0.00	0.00	0.00	0.00	0.00	0.00
Add:discharge of liability	0.00	0.00	0.00	0.00	127.73	12.35	12.35	0.00	0.00
De cap During Year As per Books	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total Capital incurred</b>	0.00	0.00	3,355.46	0.00	1,213.71	148.10	148.10	0.00	4,865.37
Equity	1,368.60	0.00	1,006.64	0.00	364.11	44.43	44.43	0.00	1,459.61
Debt	3,193.40	0.00	2,348.82	0.00	849.60	103.67	103.67	0.00	3,405.76

**Details of Transmission Lines and Substations, Communication System covered in the project scope and O&M for instant asset**

Form No. - 2

Name of the Transmission Licensee	Power Grid Bikaner Transmission System Ltd		
Project	Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 440/220 kV, 1X500 MVA ICT (3rd)		
Element Description	Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220 kV, 1X500 MVA ICT (3rd) along with associated transformer bays		
Region	Corporate Centre	DOCO Date	Mar 31, 2025

**1. Transmission Lines**

(Amount in Rs. Lakh)

**Summary:**

## 2. Sub Station

Name of Sub-station	Type of Substation	Voltage Level KV	No. of Transfor ms/ 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		Ye s/ No	If No, Petitio n No.
:ICT-8 AT BIKANER-II PS	Brownfield	400 KV	1.000						500.00			Mar 31, 2025	Y	
:400 KV BAY OF ICT-8 AT BIKANER-II	Brownfield	400 KV			1.000							Mar 31, 2025	Y	
:220 KV BAY OF ICT-8 AT BIKANER-II	Brownfield	220 KV				1.000						Mar 31, 2025	Y	

### Summary:

O&M Expenses For Substations Covered in the instant petition	2024-25	2025-26	2026-27	2027-28	2028-29
400KV SUB-STATION					
Normative Rate of O&M as per Regulation	29.53	31.08	32.71	34.43	36.23
No. of Units	1.00	1.00	1.00	1.00	1.00
O&M Claimed	0.08	31.08	32.71	34.43	36.23
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	0.06	21.75	22.90	24.10	25.36

400KV SUB-STATION ICT					
Normative Rate of O&M as per Regulation	0.262	0.276	0.29	0.305	0.322
No. of Units	1.00	1.00	1.00	1.00	1.00
O&M Claimed	0.36	138.00	145.00	152.50	161.00

## Summary of O&M Expenses claim

(Amount in Rs. Lakh)

Particular	2024-25	2025-26	2026-27	2027-28	2028-29
<b>A) Normative O&amp;M</b>					
Transmission Line	0.00	0.00	0.00	0.00	0.00
Substation	0.50	190.83	200.61	211.03	222.59
Communication System	0.00	0.00	0.00	0.00	0.00
Total Normative O&M	0.50	190.83	200.61	211.03	222.59
<b>B) O&amp;M Claimed under Regulation 35 (3)(C) (* The same is not being claimed and will be claimed through separate Petition )</b>					
*Security Expenses	0.00	0.00	0.00	0.00	0.00
*Actual Capital Spare consumed	0.00	0.00	0.00	0.00	0.00
*Insurance Premium Paid	0.00	0.00	0.00	0.00	0.00
Total O&M	0.50	190.83	200.61	211.03	222.59

(Petitioner)



# Normative parameters considered for tariff computations

Form No. - 3

Name of the Transmission Licensee	Power Grid Bikaner Transmission System Ltd		
Project	Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 440/220 kV, 1X500 MVA ICT (3rd)		
Element Description	Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220 kV, 1X500 MVA ICT (3rd) along with associated transformer bays		
Region	Corporate Centre	DOCO Date	Mar 31, 2025

(Amount in Rs. Lakh)

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

81

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

(Petitioner)

**Abstract of existing transmission assets/elements under Project, Determination of Effective COD and weighted Average life for single AFC for the project as whole**

Form No. - 4

Name of the Transmission Licensee	Power Grid Bikaner Transmission System Ltd		
Project	Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 440/220 kV, 1X500 MVA ICT (3rd)		
Element Description	Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220 kV, 1X500 MVA ICT (3rd) along with associated transformer bays		
Region	Corporate Centre	DOC Date	Mar 31, 2025

**A) Details of All the Asset Covered under the Scope of the Project**

(Amount in Rs. Lakh)

Asset Name	Actual COD of the asset	COD considered for tariff purpose	Effective COD for the project as whole ( Refer C)	Weighted Average useful life of the project (Refer D)	Lapsed useful Life of the project as on 01.04.2024 (Refer E)	Balance useful Life of the project as on 01.04.2024 ( Refer E)
					0	25

**B) Details as on 01.04.2024 for determination of Single Tariff for the Project Commissioned prior to 01.04.2024**

**C) Computation of Effective COD for determining lapsed useful life of the project as whole**

**D) Weighted Average useful Life of the Project as whole**

**E) Lapsed Weighted average useful life of the project & Balance weighted average Useful life**

**This refers to the No. of completed years from the effective COD till the last day of the previous tariff period ( i.e. 31.03.2024 )**

1) Effective COD	
2) Last date of the previous tariff control period	Mar 31, 2024
3) No. of Completed years lapsed as on 01.04.2024 (2) - (1)	0

4) Remaining useful life ( in year ) (WAL-lapsed year)

25

(Petitioner)

# Statement of Capital cost

Form No. - 4A

Name of the Transmission Licensee	Power Grid Bikaner Transmission System Ltd		
Project	Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 440/220 kV, 1X500 MVA ICT (3rd)		
Element Description	Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220 kV, 1X500 MVA ICT (3rd) along with associated transformer bays		
Region	Corporate Centre	DOCO Date	Mar 31, 2025

## A) Capital Cost

(Amount in Rs. Lakh)

Particular	Accrual Basis	Un-discharged Liabilities	Cash Basis
<b>As on relevant date :2024-25</b>			
a) Opening Gross Block Amount as per books	3,507.89	152.43	3,355.46
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in A(a) above	98.78	28.93	69.85
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above	158.14	0.00	158.14

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	3,507.89	152.43	3,355.46
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in C(a) above	98.78	28.93	69.85
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) above	158.14	0.00	158.14

<b>As on relevant date :2025-26</b>			
a) Opening Gross Block Amount as per books	3,507.89	152.43	3,355.46
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in A(a) above	98.78	28.93	69.85

c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above	158.14	0.00	158.14
---	--------	------	--------

a) Addition in Gross Block Amount during the period	1,085.98	0.00	1,085.98
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	4,593.87	24.70	4,569.17
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in C(a) above	98.78	0.00	98.78
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) above	158.14	0.00	158.14

#### As on relevant date :2026-27

a) Opening Gross Block Amount as per books	4,593.87	24.70	4,569.17
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in A(a) above	98.78	0.00	98.78
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above	158.14	0.00	158.14

a) Addition in Gross Block Amount during the period	135.75	0.00	135.75
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	4,729.62	12.35	4,717.27
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in C(a) above	98.78	0.00	98.78
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) above	158.14	0.00	158.14

#### As on relevant date :2027-28

a) Opening Gross Block Amount as per books	4,729.62	12.35	4,717.27
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in A(a) above	98.78	0.00	98.78
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above	158.14	0.00	158.14

a) Addition in Gross Block Amount during the period	135.75	0.00	135.75
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	4,865.37	0.00	4,865.37
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in C(a) above	98.78	0.00	98.78
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) above	158.14	0.00	158.14

#### As on relevant date :2028-29

a) Opening Gross Block Amount as per books	4,865.37	0.00	4,865.37
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in A(a) above	98.78	0.00	98.78
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above	158.14	0.00	158.14

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	4,865.37	0.00	4,865.37
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in C(a) above	98.78	0.00	98.78
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) above	158.14	0.00	158.14

#### B) Flow of liability for the Asset

(Amount in Rs. Lakh)

Particular	2024-2025	2025-2026	2026-2027	2027-2028					
Opening balance of liability	152.43	152.43	24.70	12.35	0.00	0.00	0.00	0.00	0.00
Add: Liability from ACE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Discharge of liability by payment and claimed as ACE	0.00	127.73	12.35	12.35	0.00	0.00	0.00	0.00	0.00
Reversal/cancelation (to be entered)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Closing Balance of Admitted liability	152.43	24.70	12.35	0.00	0.00	0.00	0.00	0.00	0.00

(Petitioner)



Name of the Transmission Asset: 1X500 MVA, 400/220kV, ICT (3rd) along with associated bays at 400/220 kV Bikaner-II PS  
 Name of Project : Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220 kV, 1X500 MVA ICT(3rd)  
 DOCO: 31.03.2025

S. No. (1)	Particulars (2)	Unit	As per Original Estimates (3)			As per Revised Cost Estimates (if any)(4) (Under Preparation)			Actual Capital Expenditure (Gross Block) as on COD as per Books of Account <sup>3,4,5</sup> (5)			The portion Capital cost included in col. 5 which is not eligible for transmission tariff (eg. Grant, other business etc. <sup>6</sup> (6)	Projected/actual cost of Deferred work to be capitalised after COD but before cut-off date (7)	Variation between actual Cost and 1A/RCE cost as on COD (8=[5-6+7]-(3 or 4))	Reasons for Variation 1 (9)	Un- Discharge Liabilities included in Col. 5 (10)	Admitted cost <sup>7</sup> (11)	Capital Work in Progress as per Books of Account as on COD (12)
			Quantity	Rate	Estimated Cost	Quantity	Rate	Estimated Cost	Quantity	Rate	Gross Block of the asset							
<b>B.</b>	<b>SUBSTATIONS</b>																	
4	Preliminary works & land																	
4.1	Design & Engineering																	
4.20	Land <sup>2</sup>	Ls																
4.30	Site preparation	Ls																
4.40	<b>Total Preliminary works &amp; land (4.1+4.2+4.3)</b>																	
5.00	<b>Civil Works</b>																	
5.10	Control Room & Office Building including HVAC	LS																
5.20	Township & Colony	LS																
5.30	Roads and Drainage	LS																
5.40	Foundation for structures																	
5.50	Misc. civil works	LS			20.00						0.00		0.00	20.00				
5.60	<b>Total Civil Works (5.1+5.2+5.3+5.4+5.5)</b>				20.00						0.00		0.00	20.00				
6.00	<b>Substation Equipment</b>																	
6.10	Switchgear (CT,PT, Circuit Breaker, Isolator etc)	No.			361.54			340.05			337.56		2.49	21.49		15.68	321.88	
6.20	Transformers	No.			2136.59			2429.43			1960.91		468.52	-292.84		62.43	1898.48	
6.30	Compensating Equipment (Reactor, SVCs etc)	No.																
6.40	Control , Relay & Protection Panel	Ls			51.51			69.76			71.30		-1.54	-18.25		3.58	67.72	
6.50	PLCC	No.																
6.60	HVDC package																	
6.70	Bus Bars/ conductors / Insulators																	
6.80	Outdoor lighting	LS			6.21			16.18			13.07		3.11	-9.97		0.84	12.23	
6.90	Emergency DG Set	No.																
6.10	Grounding System	LS			100.64			146.77					146.77	-46.13				
6.11	Structure for switchyard	LS			369.88			617.19			273.66		343.53	-247.31		35.00	238.66	
6.12	<b>Total Substation Equipment (Sum of 6.1 to 6.11)</b>				3026.37			3619.39			2656.50		962.89	-593.02		117.53	2538.97	
7.00	<b>Spares</b>	LS			165.12			224.41			35.24		189.17	-59.29		2.51	32.73	
8.00	<b>Taxes and Duties</b>																	
8.10	Custom Duty																0.00	
8.20	Other Taxes & Duties				554.51			660.68			478.54		182.14	-106.17		0.00	478.54	
8.30	<b>Total Taxes &amp; Duties (8.1+8.2+8.3)</b>				554.51			660.68			478.54		182.14	-106.17		0.00	478.54	
8.40	<b>Total (Sub-station) (4.4+5.6+6.12+7+8.3)</b>				3766.00			4504.48			3170.28		1334.20	-738.48		120.04	3050.24	
<b>C</b>	<b>Communication System</b>																	
9.10	Preliminary Works																	
9.20	IT				68.26			88.32			68.94		19.38	-20.06		3.46	65.48	
9.30	Taxes and Duties				11.82			15.64			11.75		3.89			0.00	11.75	
9.40	<b>Total (Communication System)</b>				80.08			103.96			80.69		23.27	-20.06		3.46	77.23	
10.00	<b>Cost of Plant &amp; Machinery (3.4+8.4+9.4)</b>				3846.08			4608.45			3250.97			595.11		123.50	3127.47	
11.00	<b>Construction and pre-commissioning expenses</b>																	-700.34
11.10	Site supervision & site administration etc				413.45			158.14			158.14			255.31			158.14	
11.20	Tools & Plants										0.00							
11.30	Construction Insurance																	
11.40	<b>Total Construction and pre commissioning expenses (11.1+11.2+11.3)</b>				413.45			158.14			158.14			255.31			158.14	
12.00	<b>Over heads</b>																	
12.10	Establishment																	

S. No. (1)	Particulars (2)	Unit	As per Original Estimates (3)			As per Revised Cost Estimates (if any)(4) (Under Preparation)			Actual Capital Expenditure (Gross Block) as on COD as per Books of Account <sup>3,4,5</sup> (5)			The portion Capital cost included in col. 5 which is not eligible for transmission tariff (eg. Grant, other business etc.' (6)	Projected/actual cost of Deferred work to be capitalised after COD but before cut-off date (7)	Variation between actual Cost and 1A/RCE cost as on COD (8=(5-6+7)-(3 or 4))	Reasons for Variation 1 (9)	Un- Discharge Liabilities included in Col. 5 (10)	Admitted cost <sup>7</sup> (11)	Capital Work in Progress as per Books of Account as on COD (12)
			Quantity	Rate	Estimated Cost	Quantity	Rate	Estimated Cost	Quantity	Rate	Gross Block of the asset							
12.20	Audit & Accounts																	
12.30	Contingency				115.38									115.38				
12.40	Other overheads																	
12.50	<b>Total Overheads (12.1+12.2+12.3+12.4)</b>				115.38									115.38				
13.00	<b>IDC, FC, FERV &amp; Hedging Cost</b>																	
13.10	Interest During Construction (IDC)				187.04						98.78		0.00	88.26			98.78	
13.20	Financing Charges (FC)																	
13.30	Foreign Exchange Rate Variation (FERV)										0.00		0.00					
13.40	Hedging Cost																	
13.50	<b>Total of IDC, FC, FERV &amp; Hedging Cost (13.1+13.2+13.3+13.4)</b>				187.04			98.78			98.78		0.00	88.26		0.00	98.78	
14.00	<b>Capital cost including IDC, FC, FERV &amp; Hedging Cost (10+11.4+12.5+13.5)</b>				4561.95			4865.37			3507.89	0.00	1357.48			123.50	3384.39	

**B) Summary of Capital Cost as on COD**

Particular	Plant & Machinery Cost including initial spare but excluding IDC&IE DC	Initial Spare capitalised	IEDC capitalised	IDC capitalised	Loan FERV	Gross Block as per books of Account as on COD	Deduction from Gross Block	Gross block meant for tariff as on COD / 01.04.2019 (after deductions )	Un- discharged liability included in 8	Capital Cost on Cash basis for tariff as on COD / as on 01-04-2019
	1	2	3	4	5	6=(1+3+4+5)	7	8=(6-7)	9	10=(8-9)
Land (Freehold Land)	0.00					0.00		0.00	0.00	0.00
Land (Leasehold)	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
Transmission Line	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00
Sub-Station	3170.28	35.24	154.23	96.34	0.00	3420.86		3420.86	120.04	3300.82
PLCC	0.00		0.00	0.00	0.00	0.00		0.00	0.00	0.00
IT	80.69		3.91	2.44	0.00	87.03		87.03	3.46	83.57
<b>Total Capital Cost as per Books of Account</b>	3250.97	35.24	158.14	98.78	0.00	3507.89	NIL	3507.89	123.50	3384.39
Less: Un-discharged liabilities						0.00				

**Note:**

1. In case of cost variation, a detailed note giving reasons of such variation should be submitted clearly indicating whether such cost over- run was beyond the control of the transmission licensee.
2. Separate details of free hold/ lease hold land should be submitted.
3. Deduction from Gross Block includes the Grant Received as on COD, Gross block as on COD which pertains to other business, Adjustment of excess initial spare etc.

(Petitioner)

# Financial Package upto COD

Form No. - 6

Name of the Transmission Licensee	Power Grid Bikaner Transmission System Ltd		
Project	Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 440/220 kV, 1X500 MVA ICT (3rd)		
Element Description	Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220 kV, 1X500 MVA ICT (3rd) along with associated transformer bays		
Region	Corporate Centre	DOCO Date	Mar 31, 2025

(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	3,193.40	INR	2,348.82		0.00
Equity		0.00		0.00		0.00
Foreign		0.00		0.00		0.00
Domestic	INR	1,368.60	INR	1,006.64		0.00
Total Equity	INR	1,368.60	INR	1,006.64		0.00
Debt Equity Ratio					70:30	
Total Cost	INR	4,562.00	INR	3,355.46		0.00

Particulars	Debt	Equity	Total	
Addcap for 2024 - 2025			0.00	
Addcap for 2025 - 2026			1,213.71	
Addcap for 2026 - 2027			148.10	
Addcap for 2027 - 2028		91	148.10	

Addcap for 2028 - 2029			0.00	
------------------------	--	--	------	--

Particulars	Actual	Normative	
<b>Addcap for 2024 - 2025</b>			
Equity		0.00	
Debt		0.00	
Total		0.00	
<b>Addcap for 2025 - 2026</b>			
Equity		364.11	
Debt		849.60	
Total		1,213.71	
<b>Addcap for 2026 - 2027</b>			
Equity		44.43	
Debt		103.67	
Total		148.10	
<b>Addcap for 2027 - 2028</b>			
Equity		44.43	
Debt		103.67	
Total		148.10	
<b>Addcap for 2028 - 2029</b>			
Equity		0.00	
Debt		0.00	
Total		0.00	
<b>Total Capital cost with Addcap</b>		4,865.37	

(Petitioner)

# Statement of Additional Capitalisation after COD

Form No. - 7

Name of the Transmission Licensee	Power Grid Bikaner Transmission System Ltd		
Project	Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 440/220 kV, 1X500 MVA ICT (3rd)		
Element Description	Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220 kV, 1X500 MVA ICT (3rd) along with associated transformer bays		
Region	Corporate Centre	DOC Date	Mar 31, 2025

(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)			
<b>ACE for the year :2024-25 (Actual/Projected)</b>									
Land (Freehold Land)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building & Civil Works	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Transmission Lines	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Substations	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Land (Leasehold)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IT/Software/UNMS/URTDMS/ SCADA,etc	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Batteries	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>ACE for the year :2025-26 (Actual/Projected)</b>									

Land (Freehold Land)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building & Civil Works	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Transmission Lines	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Substations	1,067.36	0.00	0.00	0.00	0.00	0.00	124.26	1,191.62	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/URTDISM/ SCADA,etc	18.62	0.00	0.00	0.00	0.00	0.00	3.47	22.09	0.00
Batteries	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total</b>	1,085.98	0.00	0.00	0.00	0.00	0.00	127.73	1,213.71	0.00
<b>ACE for the year :2026-27 (Actual/Projected)</b>									
Land (Freehold Land)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building & Civil Works	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Transmission Lines	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Substations	133.43	0.00	0.00	0.00	0.00	0.00	12.00	145.43	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/URTDISM/ SCADA,etc	2.32	0.00	0.00	0.00	0.00	0.00	0.35	2.67	0.00
Batteries	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total</b>	135.75	0.00	0.00	0.00	0.00	0.00	12.35	148.10	0.00
<b>ACE for the year :2027-28 (Actual/Projected)</b>									
Land (Freehold Land)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building & Civil Works	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Transmission Lines	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Substations	133.43	0.00	0.00	0.00	0.00	0.00	12.00	145.43	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/URTDMS/ SCADA,etc	2.32	0.00	0.00	0.00	0.00	0.00	0.35	2.67	0.00
Batteries	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total</b>	135.75	0.00	0.00	0.00	0.00	0.00	12.35	148.10	0.00
<b>ACE for the year :2028-29 (Actual/Projected)</b>									
Land (Freehold Land)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building & Civil Works	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Transmission Lines	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Substations	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Land (Leasehold)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IT/Software/UNMS/URTDMS/ SCADA,etc	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Batteries	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

(Petitioner)

## Financing of Additional Capitalisation

Form No. - 7A

Name of the Transmission Licensee	Power Grid Bikaner Transmission System Ltd			
Project	Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 440/220 kV, 1X500 MVA ICT (3rd)			
Element Description	Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220 kV, 1X500 MVA ICT (3rd) along with associated transformer bays			
Region	Corporate Centre	DOCO Date	Mar 31, 2025	

(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
<b>Amount capitilized in Work/ Equipment</b>										
<b>Financing Details</b>										
Total Loan	0.00	849.60	103.67	103.67	0.00					
Equity	0.00	364.11	44.43	44.43	0.00					
Total	0.00	1,213.71	148.10	148.10	0.00					



# Calculation of ROE

Form No. - 8

Name of the Transmission Licensee	Power Grid Bikaner Transmission System Ltd		
Project	Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 440/220 kV, 1X500 MVA ICT (3rd)		
Element Description	Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220 kV, 1X500 MVA ICT (3rd) along with associated transformer bays		
Region	Corporate Centre	DOCO Date	Mar 31, 2025

(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	1.00	365.00	365.00	366.00	365.00
Opening Normative Equity	1,006.64	1,006.64	1,370.75	1,415.18	1,459.61
Less: Adjustment in Equity*	0.00	0.00	0.00	0.00	0.00
Adjustment during the year	0.00	0.00	0.00	0.00	0.00
Net opening equity (Normal)	1,006.64	1,006.64	1,370.75	1,415.18	1,459.61
Add: Increase in Equity due to addition during the year / period	0.00	325.79	40.72	40.72	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	0.00	38.32	3.71	3.71	0.00
Closing Normative Equity	1,006.64	1,370.75	1,415.18	1,459.61	1,459.61
Average Normative Equity	1,006.64	1,188.70	1,392.97	1,437.40	1,459.61
Rate of return on Equity (%)	20.045	20.045	20.045	20.045	20.045
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	25.168	25.168	25.168	25.168	25.168
Grossed up rate of ROE	20.045	20.045	20.045	20.045	20.045
Return on Equity	201.78	238.27	279.22	288.13	292.58
Pro rata return on Equity	0.55	238.27	279.22	288.13	292.58

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

Form No. - 9C

Name of the Transmission Licensee	Power Grid Bikaner Transmission System Ltd		
Project	Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 440/220 kV, 1X500 MVA ICT (3rd)		
Element Description	Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220 kV, 1X500 MVA ICT (3rd) along with associated transformer bays		
Region	Corporate Centre	DOCO Date	Mar 31, 2025

(Amount in Rs. Lakh)

Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
<b>Proposed Loan -ADD CAP 2025-26</b>					
Gross Loan- Opening	0.00	0.00	20.25	20.25	20.25
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.00	0.00
Net loan-Opening	0.00	0.00	20.25	20.25	20.25
Add: Drawl(s) during the year	0.00	20.25	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	0.00	20.25	20.25	20.25	20.25
Average Net Loan	0.00	10.13	20.25	20.25	20.25
Rate of Interest on Loan on Annual Basis	8.21	8.21	8.21	8.21	8.21
Interest on loan	0.00	0.8317	1.6625	1.6625	1.6625

<b>Proposed Loan -DOCO LOAN</b>					
Gross Loan- Opening	160.30	160.30	160.30	160.30	160.30
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.00	0.00
Net loan-Opening	160.30	160.30	160.30	160.30	160.30
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	160.30	160.30	160.30	160.30	160.30

Average Net Loan	160.30	160.30	160.30	160.30	160.30
Rate of Interest on Loan on Annual Basis	8.21	8.21	8.21	8.21	8.21
Interest on loan	13.1606	13.1606	13.1606	13.1606	13.1606

#### Loan 1 PBTSL (BOND LXXII) -DOCO LOAN

Gross Loan- Opening	12.61	12.61	12.61	12.61	12.61
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.53	1.58
Net loan-Opening	12.61	12.61	12.61	12.08	11.03
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	0.53	1.05	1.05
Net Loan-Closing	12.61	12.61	12.08	11.03	9.98
Average Net Loan	12.61	12.61	12.35	11.56	10.51
Rate of Interest on Loan on Annual Basis	7.56	7.56	7.56	7.56	7.56
Interest on loan	0.9533	0.9533	0.9337	0.8739	0.7946

#### Loan 2 PBTSL (BOND LXXIII) -DOCO LOAN

Gross Loan- Opening	14.87	14.87	14.87	14.87	14.87
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.62	1.86
Net loan-Opening	14.87	14.87	14.87	14.25	13.01
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	0.62	1.24	1.24
Net Loan-Closing	14.87	14.87	14.25	13.01	11.77
Average Net Loan	14.87	14.87	14.56	13.63	12.39
Rate of Interest on Loan on Annual Basis	7.50	7.50	7.50	7.50	7.50
Interest on loan	1.1153	1.1153	1.092	1.0223	0.9293

Loan 3 PBTSL (BOND-LXXIV) -DOCO LOAN					
Gross Loan- Opening	314.38	314.38	314.38	314.38	314.38
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	13.14	39.42
Net loan-Opening	314.38	314.38	314.38	301.24	274.96
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	13.14	26.28	26.28
Net Loan-Closing	314.38	314.38	301.24	274.96	248.68
Average Net Loan	314.38	314.38	307.81	288.10	261.82
Rate of Interest on Loan on Annual Basis	7.70	7.70	7.70	7.70	7.70
Interest on loan	24.2073	24.2073	23.7014	22.1837	20.1601

Loan 4 PBTSL (BOND LXXV) -DOCO LOAN					
Gross Loan- Opening	205.83	205.83	205.83	205.83	205.83
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	8.60	25.81
Net loan-Opening	205.83	205.83	205.83	197.23	180.02
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	8.60	17.21	17.21
Net Loan-Closing	205.83	205.83	197.23	180.02	162.81
Average Net Loan	205.83	205.83	201.53	188.63	171.42
Rate of Interest on Loan on Annual Basis	7.65	7.65	7.65	7.65	7.65
Interest on loan	15.746	15.746	15.417	14.4302	13.1136

Loan 5 PBTSL (SBI_LOC_IV) -DOCO LOAN					
Gross Loan- Opening	0.86	0.86	0.86	0.86	0.86
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.04	0.11
Net loan-Opening	0.86	0.86	0.86	0.82	0.75

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	0.04	0.07	0.07
Net Loan-Closing	0.86	0.86	0.82	0.75	0.68
Average Net Loan	0.86	0.86	0.84	0.79	0.72
Rate of Interest on Loan on Annual Basis	8.55	8.55	8.55	8.55	8.55
Interest on loan	0.0735	0.0735	0.0718	0.0675	0.0616

PBTSL loan (BOND-LXXVII) -DOCO LOAN					
Gross Loan- Opening	300.00	300.00	300.00	300.00	300.00
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	12.54	37.62
Net loan-Opening	300.00	300.00	300.00	287.46	262.38
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	12.54	25.08	25.08
Net Loan-Closing	300.00	300.00	287.46	262.38	237.30
Average Net Loan	300.00	300.00	293.73	274.92	249.84
Rate of Interest on Loan on Annual Basis	7.55	7.55	7.55	7.55	7.55
Interest on loan	22.65	22.65	22.1766	20.7565	18.8629

PBTSL loan (BOND-LXXVIII) -DOCO LOAN					
Gross Loan- Opening	17.75	17.75	17.75	17.75	17.75
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.74	2.23
Net loan-Opening	17.75	17.75	17.75	17.01	15.52
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	0.74	1.48	1.48
Net Loan-Closing	17.75	17.75	17.01	15.53	14.04
Average Net Loan	17.75	17.75	17.38	16.27	14.78

Rate of Interest on Loan on Annual Basis	7.38	7.38	7.38	7.38	7.38
Interest on loan	1.31	1.31	1.2826	1.2007	1.0908

**PBTSL Loan (Bond LXXIX) -DOCO LOAN**

Gross Loan- Opening	667.22	667.22	667.22	667.22	667.22
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	27.80	83.40
Net loan-Opening	667.22	667.22	667.22	639.42	583.82
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	27.80	55.60	55.60
Net Loan-Closing	667.22	667.22	639.42	583.82	528.22
Average Net Loan	667.22	667.22	653.32	611.62	556.02
Rate of Interest on Loan on Annual Basis	7.08	7.08	7.08	7.08	7.08
Interest on loan	47.2392	47.2392	46.2551	43.3027	39.3662

**PBTSL Loan (Bond LXXX) -DOCO LOAN**

Gross Loan- Opening	184.78	184.78	184.78	184.78	184.78
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	7.86	23.59
Net loan-Opening	184.78	184.78	184.78	176.92	161.19
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	7.86	15.73	15.73
Net Loan-Closing	184.78	184.78	176.92	161.19	145.46
Average Net Loan	184.78	184.78	180.85	169.06	153.33
Rate of Interest on Loan on Annual Basis	7.12	7.12	7.12	7.12	7.12
Interest on loan	13.1563	13.1563	12.8765	12.0371	10.9171

**PBTSL BOND-LXXIX (Repaid on 09.01.2025 and replaced with HDFC-03 on 21.05.2025) -**

Gross Loan- Opening	470.22	470.22	470.22	470.22	470.22
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.00	0.00
Net loan-Opening	470.22	470.22	470.22	470.22	470.22
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	470.22	470.22	470.22	470.22	470.22
Average Net Loan	470.22	470.22	470.22	470.22	470.22
Rate of Interest on Loan on Annual Basis	0.00	6.662466	7.72	7.72	7.72
Interest on loan	0.00	31.3282	36.301	36.301	36.301

## Summary

Gross Loan- Opening	2,348.82	2,348.82	2,369.07	2,369.07	2,369.07
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	71.87	215.62
Net loan-Opening	2,348.82	2,348.82	2,369.07	2,297.20	2,153.45
Add: Drawl(s) during the year	0.00	20.25	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	0.00	0.00	71.87	143.74	143.74
Net Loan-Closing	2,348.82	2,369.07	2,297.20	2,153.46	2,009.71
Average Net Loan	2,348.82	2,358.95	2,333.14	2,225.35	2,081.60
Rate of Interest on Loan on Annual Basis	5.9439	7.2817	7.4977	7.5044	7.5144
Interest on loan	139.6115	171.7714	174.9308	166.9987	156.4203

(Petitioner)

# **Calculation of interest on Normative loan**

Form No. - 9E

Name of the Transmission Licensee	Power Grid Bikaner Transmission System Ltd		
Project	Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 440/220 kV, 1X500 MVA ICT (3rd)		
Element Description	Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220 kV, 1X500 MVA ICT (3rd) along with associated transformer bays		
Region	Corporate Centre	DOCO Date	Mar 31, 2025

(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	1.00	365.00	365.00	366.00	365.00
Gross normative loan-Opening	2,348.82	2,348.82	3,198.42	3,302.09	3,405.76
Cumulative repayments of Normative loan upto previous year	0.00	0.41	177.75	385.16	599.11
Net normative loan-Opening	2,348.82	2,348.41	3,020.67	2,916.93	2,806.65
Addition in normative loan towards the ACE	0.00	849.60	103.67	103.67	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	0.41	177.34	207.41	213.95	217.21
Adjustment of cumulative repayment pertaining to the decapitalised asset	0.00	0.00	0.00	0.00	0.00
Net normative loan - closing	2,348.41	3,020.67	2,916.93	2,806.65	2,589.44
Average normative loan	2,348.62	2,684.54	2,968.80	2,861.79	2,698.05
Weighted Average Rate of interest on actual loan	5.9439	7.2817	7.4977	7.5044	7.5144
Interest on normative loan	139.60	195.48	222.59	214.76	202.74
Pro rata interest on normative loan	0.38	195.48	222.59	214.76	202.74

(Petitioner)



# Calculation of Depreciation Rate on Original Project Cost

Form No. - 10

Name of the Transmission Licensee	Power Grid Bikaner Transmission System Ltd		
Project	Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 440/220 kV, 1X500 MVA ICT (3rd)		
Element Description	Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220 kV, 1X500 MVA ICT (3rd) along with associated transformer bays		
Region	Corporate Centre	DOCO Date	Mar 31, 2025

(Amount in Rs. Lakh)

Name of Assets	Gross block at the beginning of the year	Add Cap during the year	Gross block at the end of the year	Average Gross Block	Depreciation Rate as per CERC's Depreciation Rate Schedule	Depreciation Amount for each year upto 31.03.2029
<b>2024-25</b>						
Land(Freehold)	0.00	0.00	0.00	0.00	0.00	0.00
Civil & Building	0.00	0.00	0.00	0.00	3.34	0.00
Transmission Line	0.00	0.00	0.00	0.00	4.22	0.00
Sub Station	3,272.59	0.00	3,272.59	3,272.59	4.22	0.38
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	15.00	0.00
Leasehold Land	0.00	0.00	0.00	0.00	3.34	0.00
IT/Software/UNMS/URTDMS/ SCADA,etc	82.87	0.00	82.87	82.87	15.00	0.03
Batteries	0.00	0.00	0.00	0.00	9.50	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	6.33	0.00
<b>TOTAL</b>	3,355.46	0.00	3,355.46	3,355.46	0.00	0.41
<b>Weighted Average Rate of Depreciation(%)</b>					0.012219	

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

Civil & Building	0.00	0.00	0.00	0.00	3.34	0.00
Transmission Line	0.00	0.00	0.00	0.00	4.22	0.00
Sub Station	3,272.59	1,191.62	4,464.21	3,868.40	4.22	163.25
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	15.00	0.00
Leasehold Land	0.00	0.00	0.00	0.00	3.34	0.00
IT/Software/UNMS/URTDMS/SCADA,etc	82.87	22.09	104.96	93.92	15.00	14.09
Batteries	0.00	0.00	0.00	0.00	9.50	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	6.33	0.00
<b>TOTAL</b>	3,355.46	1,213.71	4,569.17	3,962.32	0.00	177.34
<b>Weighted Average Rate of Depreciation(%)</b>					4.475661	

<b>2026-27</b>						
Land(Freehold)	0.00	0.00	0.00	0.00	0.00	0.00
Civil & Building	0.00	0.00	0.00	0.00	3.34	0.00
Transmission Line	0.00	0.00	0.00	0.00	4.22	0.00
Sub Station	4,464.21	145.43	4,609.64	4,536.93	4.22	191.46
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	15.00	0.00
Leasehold Land	0.00	0.00	0.00	0.00	3.34	0.00
IT/Software/UNMS/URTDMS/SCADA,etc	104.96	2.67	107.63	106.30	15.00	15.95
Batteries	0.00	0.00	0.00	0.00	9.50	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	6.33	0.00
<b>TOTAL</b>	4,569.17	148.10	4,717.27	4,643.23	0.00	207.41
<b>Weighted Average Rate of Depreciation(%)</b>					4.466934	

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	4,609.64	145.43	4,755.07	4,682.36	4.22	197.60
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	15.00	0.00
Leasehold Land	0.00	0.00	0.00	0.00	3.34	0.00
IT/Software/UNMS/URTDSP/SCADA,etc	107.63	2.67	110.30	108.97	15.00	16.35
Batteries	0.00	0.00	0.00	0.00	9.50	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	6.33	0.00
<b>TOTAL</b>	4,717.27	148.10	4,865.37	4,791.33	0.00	213.95
<b>Weighted Average Rate of Depreciation(%)</b>					4.465357	

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	4,755.07	0.00	4,755.07	4,755.07	4.22	200.66
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	15.00	0.00
Leasehold Land	0.00	0.00	0.00	0.00	3.34	0.00
IT/Software/UNMS/URTDSP/SCADA,etc	110.30	0.00	110.30	110.30	15.00	16.55
Batteries	0.00	0.00	0.00	0.00	9.50	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	6.33	0.00
<b>TOTAL</b>	4,865.37	0.00	4,865.37	4,865.37	0.00	217.21

Weighted Average Rate of Depreciation(%)					4.464409	
--	--	--	--	--	----------	--

(Petitioner)

# Statement of Depreciation

Form No. - 10A

Name of the Transmission Licensee	Power Grid Bikaner Transmission System Ltd		
Project	Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 440/220 kV, 1X500 MVA ICT (3rd)		
Element Description	Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220 kV, 1X500 MVA ICT (3rd) along with associated transformer bays		
Region	Corporate Centre	DOCO Date	Mar 31, 2025

(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	1.00	365.00	365.00	366.00	365.00
<b>Life at the beginning of the year</b>					
1.1 Weighted Average useful life of the Asset/Project	25.00	25.00	25.00	25.00	25.00
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)	25.00	25.00	24.00	23.00	22.00
<b>Capital Base</b>					
1.4 Opening capital cost	3,355.46	3,355.46	4,569.17	4,717.27	4,865.37
1.5 Additional Capital Expenditure dr. the year	0.00	1,213.71	148.10	148.10	0.00
1.6 De-Capitalisation During the year	0.00	0.00	0.00	0.00	0.00
1.7 Closing capital cost	3,355.46	4,569.17	4,717.27	4,865.37	4,865.37
1.8 Average capital cost	3,355.46	3,962.32	4,643.23	4,791.33	4,865.37
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	82.87	93.92	106.30	108.97	110.30
1.11 Asset having 10% salvage value included in 1.8	3,272.59	3,868.40	4,536.93	4,682.36	4,755.07
1.12 Depreciable Value(1.10+90% of 1.11)	3,028.20	3,575.48	4,189.54	4,323.09	4,389.86
<b>Depreciation for the period and Cum. Depreciation</b>					
1.13 Weighted Average Rate of depreciation	0.012219	4.475661	4.466934	4.465357	4.464409

1.14 Depreciation(for the period)	0.41	177.34	207.41	213.95	217.21
1.15 Depreciation(Annualised)	0.41	177.34	207.41	213.95	217.21
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	0.41	177.75	385.16	599.11
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	0.41	177.75	385.16	599.11	816.32

(Petitioner)

**Calculation of interest on working Capital**

Form No. - 11

Name of the Transmission Licensee	Power Grid Bikaner Transmission System Ltd		
Project	Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 440/220 kV, 1X500 MVA ICT (3rd)		
Element Description	Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220 kV, 1X500 MVA ICT (3rd) along with associated transformer bays		
Region	Corporate Centre	DOCO Date	Mar 31, 2025

(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	1.00	365.00	365.00	366.00	365.00
O&M Expenses-one month	15.10	15.90	16.72	17.59	18.55
Maintenance spares 15% of O&M Expenses	27.18	28.62	30.09	31.65	33.39
Receivables equivalent to 45 days of AFC	84.50	101.07	114.61	116.58	117.85
Total Working capital	126.78	145.59	161.42	165.82	169.79
Bank Rate as on 01.04.2024 or as on 01st April of the COD year, whichever is later.	11.90	12.25	12.25	12.25	12.25
Interest on working capital	15.09	17.83	19.77	20.31	20.80
Pro rata interest on working capital	0.04	17.83	19.77	20.31	20.80

(Petitioner)

**Details of Initial Spares**

Name of the Petitioner		POWERGRID Bikaner Transmission System Limited											
Claimed COD		31.03.2025						Cut-off Date of the Asset: 31.03.2028					
Name of Transmission Asset: 1X500 MVA, 400/220kV, ICT (3rd) along with associated bays at 400/220 kV Bikaner-II PS													
Name of Project : Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220 kV, 1X500 MVA ICT(3rd)													
DOCO:31.03.2025													
<b>A) Determination of Excess initials spare and its adjustment from Capital cost</b>													
Particulars	Plant and machinery cost as on cut-off Date <sup>1</sup>	Initial Spare Capitalised as per Books of Account up to Cut-off Date					Ceiling limit as mentioned in Regulations 23	Entitled Initial Spare as per Regulations	Excess of capitalised Initial Spare to be reduced from Capital cost.	Adjustment of Excess Initial Spare from Capital cost of Plant and Machinery			
		As on COD	As ACE dr. Y1	As ACE dr. Y2	As ACE dr. Y3	Total as on Cut off Date <sup>3</sup>				COD	ACE for Y1	ACE for Y2	ACE for Y3
1	2	3	4	5	6	7	8	9	10=7-9 (Note 2)	11	12	13	14
Transmission Line	0.00	0	0	0	0	0	1.00%	0	0				
Substation Green field							4.00%	0.00	0.00				
Substation Brown Field	4608.45	38.69	148.58	18.57	18.57	224.41	6.00%	276.51	0.00				
Series Compensation devices and HVDC Station							4.00%						
GIS/S- Green field							5.00%						
GIS/S-Brown field	0.00	0.00	0	0	0	0	7.00%						
Communication System	0.00	0	0.00	0.00	0.00	0	3.50%	0.00	0.00				
Static Synchronous Compensator							6.00%						
<b>initial spare as per Books of Account</b>								0	0				
Un-Discharge liabilities included above													
<b>Total Capitalized initial spare</b>													

Note: 1) Plant and machinery cost as on cut-off Date for the purpose of initial spare (As computed in Col.L of the below table)  
2) The column 10 has to be shown as nil in case the claimed initial spare is with in the ceiling limit.  
3) Total cost should be excluding IDC and IEDC.



B) Determination of Plant & Machinery Cost for ceiling of initial spare.											
Particulars	Gross Block of Asset as on COD	Less: Amount included in Col. B towards					Plant and machinery cost as on COD for Initial Spare purpose	Plant & Machinery Capitalised as ACE up to cut off date			Plant and machinery cost as on cut-off Date for the purpose of initial spare
		Land Cost	Cost of Civil Works	IEDC	IDC	Initial Spare		Year -1	Year-2	Year-3	
a	b	c	d	e	f	g	h=b-c-d-e-f-g	i	j	k	l=h+i+j+k
Transmission Line	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Substation Green field											
Substation Brown Field	3507.89	0.00	0.00	158.14	98.78	35.24	3215.73	1096.52	148.10	148.10	4608.45
Series Compensation devices and HVDC Station											
Gas Insulated Substation-Green field											
Gas Insulated Substation-Brown field	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Communication System	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Static Synchronous Compensator											
<b>Note:</b> The Cost details for the year in which Cut-off date falls has to be provide only up to the cut-off date											

(Petitioner)

Summary of issue involved in the petition		PART-III FORM- 15
1. Name of the Petitioner	POWERGRID Bikaner Transmission System Ltd.	
2. Petition Category	Transmission	
3. Tariff Period	2024-29	
4. Name of the Project	Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220kV, 1X500 MVA ICT (3rd)	
5. Investment Approval date	30.10.2023	
6. SCOD of the Project	07.12.2024	
7. COD of the project	31.03.2025	
8. Whether entire scope is covered in the present petition	Yes	
9. No. of Assets covered in instant petition	01 no.	
10. No. of Assets having time over run	01 no.	
11. Estimated Project Cost as per IA	Rs.4561.95 Lakh	
12. Is there any RCE? if so, provide the date		
13. Revised Estimated Project Cost (if any)		
14. Completion cost for all the assets covered in the instant petition	Rs.4865.37 Lakh	
15. No. of Assets covered in instant petition and having cost overrun	01 no.	
16	<b>Prayer in brief</b>	
17	<b>Key details and any Specific issue involved</b>	
18	<b>Respondents</b>	
	<b>Name of Respondents</b>	
	1. UTTAR PRADESH POWER CORPORATION LTD.	2. BSES YAMUNA POWER Ltd
	3. AJMER VIDYUT VITRAN NIGAM LTD	4. BSES RAJDHANI POWER Ltd
	5. JAIPUR VIDYUT VITRAN NIGAM LTD	6. TATA POWER DELHI DISTRIBUTION LTD
	7. JODHPUR VIDYUT VITRAN NIGAM LTD	8. CHANDIGARH ELECTRICITY DEPTT
	9. HIMACHAL PRADESH STATE ELECTRICITY BOARD	10. UTTARAKHAND POWER CORPORATION LTD
	11. PUNJAB STATE POWER CORPORATION LIMITED	12. NORTH CENTRAL RAILWAY
	13. HARYANA POWER PURCHASE CENTRE	14. NEW DELHI MUNICIPAL COUNCIL
	15. JAMMU KASHMIR POWER CORPORATION LIMITED	16. CTUIL
<b>(Petitioner)</b>		

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

Form No.	Title of Tariff Filing Forms (Transmission& Communication System)	Tick
FORM- 1	Summary of Tariff	✓
FORM- 1A	Summary of Asset level cost	✓
FORM-2	Details of Transmission Lines and Substations and Communication System covered in the project scope and O&M for instant asset	✓
FORM-3	Normative parameters considered for tariff computations	✓
FORM- 4	Abstract of existing transmission assets/elements under project, Determination of Effective COD and Weighted Average Life for single AFC for the project as whole.	N.A.
FORM- 4A	Statement of Capital cost	✓
FORM- 4B	Statement of Capital Works in Progress	N.A.
FORM- 4C	Abstract of Capital Cost Estimates and Schedule of Commissioning for the New Project/Element	✓
FORM-5	Element wise Break-up of Project/ Asset/Element Cost for Transmission System or Communication System	✓
FORM-5A	Break-up of Construction/Supply/Service packages	✓
FORM-5B	Details of all the assets covered in the project	✓
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.	N.A.
FORM- 8	Calculation of Return on Equity	✓
FORM-8A	Details of Foreign Equity	N.A.
FORM-9	Details of Allocation of corporate loans to various transmission elements	N.A.
FORM-9A	Details of Project Specific Loans	N.A.
FORM-9B	Details of Foreign loans	N.A.
FORM-9C	Calculation of Weighted Average Rate of Interest on Actual Loans	✓
FORM-9D	Loans in Foreign Currency	N.A.
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	N.A.
FORM- 11	Calculation of Interest on Working Capital	✓
FORM- 12	Details of time over run	✓
FORM- 12A	Incidental Expenditure during Construction	✓
FORM- 12B	Calculation of IDC & Financing Charges	✓
FORM- 13	Details of Initial spares	✓
FORM- 14	Non-Tariff Income	N.A.
FORM- 15	Summary of issue involved in the petition	✓
FORM A	Summary of Capital Cost & Annual Fixed Cost (AFC) Claimed for ALL	✓
<b>Other Information/ Documents</b>		
S. No.	Information/Document	Tick
1	Certificate of incorporation, Certificate for Commencement of Business, Memorandum of Association, & Articles of Association (For New Project(s) setup by a company making tariff application for the first time to CERC)	N.A.
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.	N.A.

3	Copies of relevant loan Agreements	N.A.
4	Copies of the approval of Competent Authority for the Capital Cost and Financial package.	N.A.
5	Copies of the Equity participation agreements and necessary approval for the foreign equity.	N.A.
6	Copies of the BPTA/TSA/PPA with the beneficiaries, if any	N.A.
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	N.A.
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.	N.A.
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.	N.A.
10	Any other relevant information, (Please specify)	N.A.
<b>Note</b> 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.		