

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

PETITION FOR

APPROVAL OF TRANSMISSION TARIFF

For

Transmission Assets of

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

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

**C/O ED(TCB), POWER GRID CORPORATION OF INDIA LIMITED
"SAUDAMINI", PLOT NO.2, SECTOR -29, GURGAON 122 001 (HARYANA)**



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

PETITION NO.: .../TT/2024

IN THE MATTER OF: Petition for determination of Transmission tariff for 2024-29 tariff block for assets under "*Transmission system for evacuation of power from the Rajasthan REZ Ph-IV (Part-1) (Bikaner Complex) - Part-E*" in Northern Region under Section 62 read with Section 79(1)(d) of 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 Conditions 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: C/O ED (TBCB),
"SAUDAMINI", Plot No.-2, Sector-29, Gurgaon-122 001
(Haryana)

.....PETITIONER

Uttar Pradesh Power Corporation Limited (UPPCL)

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

And others

.....RESPONDENT(s)

Filed by

POWERGRID Bikaner Transmission System Limited



Represented by

Project-in-Charge,

PLACE: Bikaner

DATED: 03.05.2025

POWERGRID Bikaner Transmission System Limited

**BEFORE
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IN THE MATTER OF: Petition for determination of Transmission tariff for 2024-29 tariff block for assets under ***“Transmission system for evacuation of power from the Rajasthan REZ Ph-IV (Part-1) (Bikaner Complex) - Part-E”*** in Northern Region under Section 62 read with Section 79(1)(d) of 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 Conditions of Tariff) Regulations, 2024.

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Filed by

POWERGRID Bikaner Transmission System Limited

PLACE: Bikaner

DATED: 03.05.2025

POWERGRID Bikaner Transmission System Limited



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POWERGRID Bikaner Transmission System Limited

.....PETITIONER

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

.....RESPONDENT(s)

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

Sir,

The present tariff Petition is being filed under Section 62 read with Section 79 (1) (d) of 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 Conditions of Tariff) Regulations, 2024 and the same may please be registered and taken on record by the Hon'ble Commission.

**Filed by
POWERGRID Bikaner Transmission System Limited**



PLACE : Bikaner

**Represented by
Project-in-Charge,**

DATED :03.05.2025

POWERGRID Bikaner Transmission System Limited

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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 KASHMIR POWER CORPORATION LIMITED
220/66/33 KV GLADNI SS SLDC BULIDING
NARWAL, JAMMU
REPRESENTED BY ITS CHAIRMAN



9. BSES YAMUNA POWER Ltd,
B-BLOCK, SHAKTI KIRAN, BLDG.
(NEAR KARKADOOMA COURT),
KARKADOOMA 2ND FLOOR, NEW DELHI-110092
REPRESENTED BY ITS CEO
10. BSES RAJDHANI POWER Ltd,
BSES BHAWAN, NEHRU PLACE, NEW DELHI
REPRESENTED BY ITS CEO
11. TATA POWER DELHI DISTRIBUTION LTD.
33 KV SUBSTATION, BUILDING, HUDSON LANE,
KINGSWAY CAMP, NORTH DELHI - 110009
REPRESENTED BY ITS CEO
12. CHANDIGARH ELECTRICITY DEPARTMENT
UT-CHANDIGARH, DIV-11, OPPOSITE, TRANSPORT NAGAR,
INDUSTRIAL AREA PHASE - I, CHANDIGARH
REPRESENTED BY ITS CHIEF ENGINEER
13. UTTARAKHAND POWER CORPORATION LTD.
URJA BHAWAN, KANWALI ROAD, DEHRADUN.
REPRESENTED BY ITS MANAGING DIRECTOR
14. NORTH CENTRAL RAILWAY
ALLAHABAD.
REPRESENTED BY CE DISTRIBUTION ENGINEER
15. NEW DELHI MUNICIPAL COUNCIL
PALIKA KENDRA, SANSAD MARG,
NEW DELHI-110002
REPRESENTED BY CHAIRMAN



16. CENTRAL TRANSMISSION UTILITY OF INDIA LTD (CTUIL))

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



Represented by

Project-in-Charge,

POWERGRID Bikaner Transmission System Limited

PLACE: BIKANER

DATED: 03.05.2025

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

.....PETITIONER

.....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 3rd date of May 2025.

**PETITIONER
POWERGRID Bikaner Transmission System Limited**


(K.K. Choudhury)
Project-in-Charge,

POWERGRID Bikaner Transmission System Limited

**PLACE: Bikaner
DATED:03.05.2025**

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.....PETITIONER

Uttar Pradesh Power Corporation Limited (UPPCL)

Import Export Payment Circle, 14th Floor,

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

And others

.....RESPONDENTS

A. Executive Summary of the Petition:

(i) Brief Background of the Petitioner

1. The Petitioner herein, POWERGRID Bikaner Transmission System Limited (hereinafter referred to as “PBTSL/ Petitioner”) is a Government Company within the meaning of the Companies Act, 2013. The Petitioner (known erstwhile as Bikaner-II Bhiwadi Transco Ltd.) is a 100% wholly owned subsidiary of Power Grid Corporation of India Limited. PBTSL was granted a transmission licence by this Hon'ble Central Electricity Regulatory Commission (hereinafter referred to as



“Hon’ble Commission”) vide its order dated 15.7.2021 in Petition No. 99/TL/2021 to establish the “Transmission System Strengthening Scheme for Evacuation of Power from Solar Energy Zones in Rajasthan (8.1 GW) under Phase II-Part F” under TBCB mode on Build, Own, Operate, and Maintain (“BOOM”) basis.

Subsequently, 3 nos. Transmission schemes were assigned to the petitioner by CTUIL/MOP progressively under Regulated tariff mechanism. Petitioner approached Hon’ble Commission through Petition 137/TL/2022 for grant of separate RTM transmission license. Hon’ble Commission vide order dated 21.11.2022 in Petition No. 137/TL/2022 granted a separate transmission license to Petitioner to implement the 3 nos. transmission projects under RTM.

Subsequently, 4 nos. additional transmission schemes were awarded to the Petitioner by CTUIL under RTM mode and therefore Petitioner approached Hon’ble Commission through petition 181/TL/2023 for amendment of earlier RTM license granted vide petition 137/TL/2022. Hon’ble Commission vide order dated 28.01.2024 in Petition No. 181/TL/2023 amended existing RTM transmission license of the Petitioner for inclusion of 4 nos. additional schemes under the scope of license which inter-alia included the scheme- ***“Transmission system for evacuation of power from the Rajasthan REZ Ph-IV (Part-1) (Bikaner Complex) - Part-E”***.

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

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

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

(iii) Background of Transmission Assets:

3. PBTSL is filing the present petition for determination of transmission tariff for 2024-29 tariff block for the following assets under subject transmission scheme, i.e. **Transmission system for evacuation of power from the Rajasthan REZ Ph-IV (Part-1) (Bikaner Complex) - Part-E:**

Asset No	Asset Name	COD	Remarks
Asset-1	400/220kV, 500 MVA T&R Make ICT-6 along with associated bays at 400/220kV Bikaner-II SS	30.12.2024	Instant Petition
Asset-2	400/220kV, 500 MVA T&R Make ICT-7 along with associated bays at 400/220kV Bikaner-II SS	03.02.2025	

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

S.No	Event	Date
1.	Instant transmission scheme viz. Transmission system for evacuation of power from the Rajasthan REZ Ph-IV (Part-1) (Bikaner Complex) - Part-E was assigned to Petitioner by CTUIL under RTM mode.	16.02.2023
2.	Petition No.181/TL/2023 filed by the Petitioner for amendment of RTM transmission license	01.05.2023
3.	Investment Approval	06.06.2023
4.	CTUIL E-Mail regarding revision in SCOD	13.06.2023
5.	Final order issued by Hon'ble Commission amending RTM transmission license to PBTSL	28.01.2024

V



S.No	Event	Date
6.	SCOD	Asset-1: 31.12.2024 Asset-2: 31.01.2025
7.	COD	Asset-1: 30.12.2024 Asset-2: 03.02.2025

(v) Summary of Claims:

- PBTSL is seeking determination of transmission tariff for 2024-29 tariff block for aforesaid transmission assets on capital cost comprising of capital cost incurred upto Commercial Operation Date ("COD") and actual/ projected additional capital expenditure during 2024-29 tariff blocks in accordance with terms of Regulation 24 & 25 of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 ("Tariff Regulations, 2024").
- The details of FR approved cost vis-a-vis claimed capital cost as on COD and additional capital expenditure during 2024-29 tariff block are as under:

(Rs. in lakhs)

Asset No.	Apportioned Approved Cost as per FR	Expenditure Up to DOCO	Estimated expenditure during 2024-29 tariff block			Estimated completion Cost as on 31.03.2029
			2024-25	2025-26	2026-27	
Asset-1	4047.80	3330.33	812.12	222.00	110.99	4475.44
Asset-2	4047.80	3404.58	754.83	223.58	107.83	4490.82
Total	8095.60	6734.91	1566.95	445.58	218.82	8966.26

The Revised Cost Estimate is under approval and the same shall be submitted subsequently.

- Details of Time- Overrun:** The original SCOD and actual commissioning dates of the various assets claimed in the present petition are as follows:



Asset No.	SCOD	COD	Delay in days
Asset-1	31.12.2024	30.12.2024	No delay
Asset-2	31.01.2025	03.02.2025	3 days

Thus, there is no delay in the case of Asset-1. However, there is a minor delay of 3 days in commissioning of Asset-2.

7. Details of tariff claimed are as under:

Tariff claimed for 2024-29 tariff block:

(Rs. in Lakhs)

Name of the asset	2024-25	2025-26	2026-27	2027-28	2028-29
Asset-1	195.02	860.83	883.41	888.54	885.98
Asset-2	122.20	862.58	885.11	890.02	887.54

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

**B. Detailed Petition:
MOST RESPECTFULLY SHOWETH:**

9. The Petitioner herein, POWERGRID Bikaner Transmission System Limited (hereinafter referred to as "PBTSL/ Petitioner") is a Government Company within the meaning of the Companies Act, 2013. The Petitioner (known erstwhile as Bikaner-II Bhiwadi Transco Ltd.) is a wholly owned subsidiary of Power Grid Corporation of India Limited.
10. That the Hon'ble Commission have notified CERC (Terms and Conditions of Tariff) Regulations, 2024, vide notification dated 15.03.2024. These regulations shall remain in force for a period of 5 years w.e.f. 01.04.2024, unless reviewed earlier or extended by the Hon'ble Commission.
11. That Petitioner is an Inter-State Transmission Licensee which has implemented "Transmission System Strengthening Scheme for Evacuation of Power from Solar Energy Zones in Rajasthan (8.1 GW) under Phase II-Part F" through Tariff



Based Competitive Bidding (TBCB) process on the Build, Own, Operate and Maintain (BOOM) basis.

12. That subsequently, various transmission schemes were awarded to Petitioner under Regulated Tariff Mechanism (RTM) mode vide CTUIL OMs. Accordingly, the Petitioner approached the Hon'ble Commission, vide petition 137/TL/2022, for grant of separate Transmission license for implementation of additional scope of works under RTM mode awarded by CTUIL. The Hon'ble Commission vide its order dated 21.11.2022 in Petition No. 137/TL/2022 granted separate transmission license to the Petitioner for implementation of 3 nos. schemes under RTM mode.

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

A copy of the order dated 28.01.2024 in Petition No. 181/TL/2023 is enclosed hereto as **Encl-1**.

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:** Part transmission scheme Claimed in the instant petition.

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

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

Asset No	Asset Name	COD
Asset-1	400/220kV, 500 MVA T&R Make ICT-6 along with associated bays at 400/220kV Bikaner-II SS	30.12.2024
Asset-2	400/220kV, 500 MVA T&R Make ICT-7 along with associated bays at 400/220kV Bikaner-II SS	03.02.2025

Approval of the Scheme

14. That instant transmission scheme viz. **Transmission system for evacuation of power from the Rajasthan REZ Ph-IV (Part-1) (Bikaner Complex) - Part-E** was initially assigned to POWERGRID by vide CTUIL OM dated 15.11.2022 under RTM mode. Subsequently based on the discussion in the 11th meeting of NCT dated 28.12.2022 and 17.01.2023, the scheme was allotted to the Petitioner i.e. POWERGRID Bikaner Transmission System Ltd. (PBTSLS) which is the implementing agency of Bikaner-II PS vide CTUIL OM dated 16.02.2023.

Copy of CEA letter, CTUIL OM dated 15.11.2022 & CTUIL OM dated 16.02.2023 is enclosed hereto as **Encl-2**.

15. The investment approval and expenditure sanction to the subject transmission project was accorded by Board of Directors of POWERGRID Bikaner Transmission System Limited in its 28th meeting held on 06.06.2023 at an estimated cost of **Rs. 202.39 Crores** for all assets of the instant project, a copy whereof is enclosed hereto as **Encl-3**.



SCOPE OF WORK:

16. The complete scope of work covered under “**Transmission system for evacuation of power from the Rajasthan REZ Ph-IV (Part-1) (Bikaner Complex) - Part- E**” and covered under instant petition is as follows:

Asset Name	DOCO	Remarks
1x500 MVA, 400/220kV ICT-III along with associated bays at Bikaner-II	24.05.2024	Filed vide Diary No -115/2025
1x500 MVA, 400/220kV ICT-IV along with associated bays at Bikaner-II	10.07.2024	
1 x500 MVA, 400/220kV ICT-V along with associated bays at Bikaner-II	29.11.2024	
Asset-1: 400/220kV, 500 MVA T&R Make ICT-6 along with associated bays at 400/220kV Bikaner-II SS	30.12.2024	Instant Petition
Asset-2: 400/220kV, 500 MVA T&R Make ICT-7 along with associated bays at 400/220kV Bikaner-II SS	03.02.2025	

17. It is submitted that as per 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 Rs. 100 Crore or 70% of the cost envisaged in the Investment Approval, whichever is lower, as on the actual date of commercial operation:

Unquote

The Petitioner is filing the instant petition in compliance with Regulation 9 of CERC Regulations, 2024.



18. Implementation Schedule

The original SCOD, revised SCODs as revised by CTUIL, and actual commissioning dates of the various assets claimed in the present petition are as follows:

Asset	Schedule COD considering CTUIL OM dated 16.02.2023	Revised SCOD as per CTUIL E- Mail dated 13.06.2023	Actual COD	Delay
Asset-1	Implementation timeframe matching with schedule of RE generation or 18 months from date of allocation i.e	31.12.2024	30.12.2024	No delay
Asset-2	15.08.2024, whichever is later.	31.01.2025	03.02.2025	3 days

Instant transmission scheme viz. Transmission system for evacuation of power from the Rajasthan REZ Ph-IV (Part-1) (Bikaner Complex) - Part-E was initially inadvertently assigned to POWERGRID by vide CTUIL OM dated 15.11.2022 under RTM mode. Implementation schedule in the same was provided as "timeframe matching with schedule of RE generation or 18 months from date of allocation, whichever is later". Subsequently as Petitioner i.e. POWERGRID Bikaner Transmission System Ltd. (PBTSL) is the implementing agency of Bikaner-II PS, CTUIL based on the discussion in 11th meeting of NCT dated 28.12.2022 and 17.01.2023, vide OM dated 16.02.2023 allotted the scheme to the Petitioner. Considering the CTUIL OM dated 16.02.2023, SCOD of the scheme is a timeframe matching with schedule of RE generation or 15.08.2024 whichever is later.

Further, CTUIL vide E-mail dated 13.06.2023 based on the stage-II connectivity granted at 220 kV level of Bikaner-II PS, provided the implementation schedule to be as follows;

- 4*500 MVA ICT -31.12.2024



- 1*500 MVA ICT -31.01.2025

Thus, SCOD of Asset-1 of the instant petition is 31.12.2024 and that of Asset-2 is 31.01.2025.

A copy of the CTU Email dated 13.06.2023 is enclosed hereto as **Encl-4**. A copy of the CEA certificate, RLDC certificate, CMD Certificate and DOCO Certificate are enclosed hereto as **Encl-5**.

Reasons of Time Over-run

As can be seen from the table above, there is no delay in the case of Asset-1. However, there is a minor delay of 3 days in commissioning of Asset-2 and is mainly on account of unprecedented rainfall.

- The unprecedented rainfall in and around Bikaner (under Bikaner District in western part of the state of Rajasthan) during the period of Aug'2024 led to deferment of works associated with Asset-2. The actual rainfall in this month as mentioned above was unprecedented in large excess as compared to their respective LPAs (long period average) Owing to reasons such as disturbances caused by the development of low pressure over northwestern part of India.
- The above weather pattern led to:
 - formation of Low-Pressure System
 - convergence of winds leading to situation of heavy to very heavy rainfall
 - strong winds, lightning and thunderstorms.
- The heavy rainfall in this period was also accompanied with Lightning and thunderstorm conditions which are not considered ideal for executing works in electrically charged switchyard in this case being Bikaner-II sub-station apart from issues related to hindrances caused by water logging, restricted movement of machinery, swift mobilisation/ re-mobilisation of man and material, etc.
- In the instant case, as per data available from website of Indian Meteorological Department (Jaipur Division), the rainfall excess during the said period as against long term average at Bikaner (west Rajasthan) is tabulated below:



- During Aug'2024, the total rainfall recorded was 272.00 mm which was 258% above normal (LPA) rainfall.
- Also, cumulatively, during June- Sep'2024, the total rainfall recorded was about 423.30 mm (against LPA of 247.00 mm) which was 71% above normal (LPA) rainfall.

Note:

- IMD defines the normal rainfall as LPA i.e. Long Period Averages while computing the % excess/ low/ departure.
- The LPA as defined is Long Period Average (LPA) is the averages of rainfall received over a 50-year period between 1951 and 2001 and for longer /lesser period wherever available.
- Further, % increment of more than 60% over LPA is defined as large excess.

The relevant report with data is enclosed hereto as **Encl-6**. Thus, the delay due to the above-mentioned issue amounts to around two weeks which was finally reduced with the best efforts to minor delay of only 3 days. It is prayed to the Hon'ble Commission to condone the delay in completion of subject asset on merit of the same being beyond the control of the Petitioner.

Estimated Completion Cost:

19. The present Petition for determination of transmission tariff for 2024-29 tariff block for aforesaid transmission assets is being filed based on the capital cost comprising of capital cost incurred upto DOCO and actual/proposed 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 DOCO and additional capital expenditure projected to be incurred for 2024-29 is duly certified by the Auditor. Copy of Auditor Certificates for the assets in the instant petition are enclosed hereto as **Encl-7**.

(Rs in lakhs)

Asset No.	Apportioned Approved Cost as per FR	Expenditure Up to 31.03.24	Estimated expenditure during 2024-29 tariff block			Estimated completion Cost as on 31.03.2029
			2024-25	2025-26	2026-27	
Asset-1	4047.80	3330.33	812.12	222.00	110.99	4475.44



Asset No.	Apportioned Approved Cost as per FR	Expenditure Up to 31.03.24	Estimated expenditure during 2024-29 tariff block			Estimated completion Cost as on 31.03.2029
			2024-25	2025-26	2026-27	
Asset-2	4047.80	3404.58	754.83	223.58	107.83	4490.82
Total	8095.60	6734.91	1566.95	445.58	218.82	8966.26

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	4047.80	4475.44	427.64
Asset-2	4047.80	4490.82	443.02

The item-wise cost variation between FR approved cost and estimated completion cost have been given in Form-5. The Revised Cost Estimate is under approval and the same shall be submitted subsequently.

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

Asset-1

S. No	Description	Cost as per FR	Estimated Capital Cost	Variation (-decrease, +increase)
		a	b	c = b - a
1	Civil Works	4.00	0.00	-4.00
2	Substation	2852.80	3384.30	531.50
3	Taxes and Duties	540.06	603.84	63.78
4	Spares	26.08	217.52	191.44
5	Over heads	470.66	182.65	-288.01
6	Interest During Construction (IDC)	154.20	87.13	-67.07
Total		4047.80	4475.44	427.64



Asset-2

S. No	Description	Cost as per FR	Estimated Capital Cost	Variation (-decrease, +increase)
		a	b	c = b - a
1	Civil Works	4.00	0.00	-4.00
2	Substation	2852.80	3384.30	531.50
3	Taxes and Duties	540.06	603.84	63.78
4	Spares	26.08	217.52	191.44
5	Over heads	470.66	184.51	-286.15
6	Interest During Construction (IDC)	154.20	100.65	-53.55
Total		4047.80	4490.82	443.02

Variation in IDC & Variation in IEDC:

Decrease in IDC is attributable to variation in the rate of interest considered in FR v/s Actuals and deployment of funds based on actuals.

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

Cost variation in the Substation equipment including initial spares and civil works

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



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

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

DETAILS OF THE INITIAL SPARES:

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

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

.....

(d) Transmission system

(i) Transmission line - 1.00%

(ii) Transmission Sub-station

- Green Field- 4.00%

- Brown Field- 6.00%

(iii) Series Compensation devices and HVDC Station- 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:

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



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

(Rs. In Lakhs)

Assets	Particulars	Plan & Machinery cost (A)	Initial Spares Claimed (B)	Ceiling Limit (%) (C)	Initial Spares Worked out $D = [(A-B) * C / (100-C)]$	Excess [B-D]
Asset-1	SS	4205.66	221.14	6	254.33	Nil
Asset-2	(Brown Field)	4205.66	221.14	6	254.33	Nil

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

DETAILS OF ADDITIONAL CAPITALIZATION

22. Additional Capitalisation

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

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

“Additional Capitalisation”

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

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



(a) Payment made towards admitted liabilities for works executed up to the cut-off date;

(b) Works deferred for execution;

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

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

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

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

(g) Force Majeure events.

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

23. Additional capitalization claims under Regulation:

Sl. No.	Asset	DOCO date	Cut-off date
1	Asset-1	30.12.2024	31.03.2028
2	Asset-2	03.02.2025	31.03.2028

Add cap for 2024-29 block:

Asset	Add cap detail (Rs. Lakhs)				
	2024-25	2025-26	2026-27	2027-28	2028-29



Asset-1	812.12	222.00	110.99	-	-
	Applicable regulation (Tariff Regulations, 2024)				
	24(1)(a) & 24(1)(b)	24(1)(a) & 24(1)(b)	24(1)(a) & 24(1)(b)	-	-
Asset-2	754.83	223.58	107.83		-
	Applicable regulation (Tariff Regulations, 2024)				
	24(1)(a) & 24(1)(b)	24(1)(a) & 24(1)(b)	24(1)(a) & 24(1)(b)	-	-

24. The additional Capitalization incurred/projected to be incurred in the contextual assets is mainly on account of Balance/Retention Payments or work deferred for execution under cut off date and hence, the same may be allowed by the Hon'ble Commission under 24(1)(a) and 24 (1)(b) of Tariff Regulations, 2024. Liability Flow statement showing vendor-wise detail is enclosed hereto as **Encl-8**.

TRANSMISSION TARIFF FOR 2024-29 BLOCK:

25. That as per Regulation 8(1) (ii), 14(5) and 15 of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024, the tariff for transmission of electricity on Inter-State transmission system (ISTS) shall comprise transmission charges for recovery of annual fixed cost consisting of (a) Return on Equity, (b) Interest on Loan Capital, (c) Depreciation, (d) Interest on Working Capital and (e) Operation and maintenance expenses.
26. The tariff for block 2024-29 has been worked out as per Regulation 10 of the CERC (Terms and Conditions of Tariff) Regulations, 2024. In the present petition, the transmission tariff has been calculated taking into account the actual expenditure incurred up to DOCO & additional capital expenditure estimated expenditure to be incurred for 2024-29.
27. Further, for the instant assets, details of accrual IDC as considered under add-cap during the year of discharge for tariff blocks 2024-29 are tabulated below.



Asset-1:

(Rs. in lakhs)

SL. No.	Particulars	Sub-Station	I. T Equipment incl. software, etc	Total
1	As per Auditor Certificate (Upto DOCO)	3320.66	16.47	3337.13
2	Less: Accrual IDC not discharged upto DOCO	-34.98	-0.17	-35.15
3	Add: Notional IDC	28.21	0.14	28.35
4	Expenditure upto DOCO Excluding Accrual IDC and including notional IDC	3313.89	16.44	3330.33
5	Estimated Add Cap during for FY 2024-25	757.42	19.55	776.97
6	Add: Accrual IDC Discharged in 2024-25	34.98	0.17	35.15
7	Expenditure 2024-25 (Including Accrual IDC discharge)	792.40	19.72	812.12
8	Estimated Expenditure 2025-26	216.41	5.59	222.00
9	Estimated Expenditure 2026-27	108.20	2.79	110.99
10	Estimated Completion Cost	4430.90	44.54	4475.44

Asset-2:

(Rs. in lakhs)

No.	Particulars	Sub-Station	I. T Equipment incl. software, etc	Total
1	As per Auditor Certificate (Upto DOCO)	3347.59	16.98	3364.57
2	Less: Accrual IDC not discharged upto DOCO	-7.88	-0.04	-7.92
3	Add: Notional IDC	47.69	0.24	47.93
4	Expenditure upto DOCO Excluding Accrual IDC and including notional IDC	3387.40	17.18	3404.58
5	Estimated Add Cap during for FY 2024- 25	735.34	19.49	754.83
6	Estimated Expenditure 2025-26	210.09	5.57	215.66
7	Add: Accrual IDC Discharged in 2025-26	7.88	0.04	7.92



8	Expenditure 2025-26 (Including Accrual IDC discharge)	217.97	5.61	223.58
9	Estimated Expenditure 2026-27	105.05	2.78	107.83
10	Estimated Completion Cost	4445.76	45.06	4490.82

28. It is submitted that for the instant asset, Accrued IDC not discharged as on DOCO was not considered while calculating the tariff. The accrued IDC has been taken out of DOCO expenditure and added in the add cap, when it has been discharged in case of asset covered under the instant petition. The Hon'ble Commission is requested to kindly allow IDC on the basis of cash outflow. Further, the entire amount of IEDC for the instant asset has been discharged as on DOCO. Cash IDC statement is enclosed at **Encl-9**.

29. **Notional IDC:** It is submitted that the petitioner has claimed notional IDC of ₹28.35 Lakhs for Asset-1 and ₹42.83 Lakhs for Asset-2. The same has been claimed in accordance with the provisions of Regulation 19(2)(b) and regulation 21(1) of CERC Tariff Regulations, 2024. The calculation of the same is enclosed at **Encl-10**.

30. The transmission tariff has been calculated based on audited cost and considering Accrued IDC to be discharged thereafter. The tariff Formats for block 2024-29 have been furnished out as per Annexure-I, Part-III of the Tariff Regulations for period 2024- 29 and the calculations for working out the tariff along with supporting documents are enclosed hereto as **Encl-11**.

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

(Rs. In Lakhs)

Sl. No.	Project	2024-25	2025-26	2026-27	2027-28	2028-29
1	Asset-1	195.02	860.83	883.41	888.54	885.98
2	Asset-2	122.20	862.58	885.11	890.02	887.54

32. 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.

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



Security Expenses:

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.

37. The application filing fee, expenses incurred on publication of Notices in Newspapers and License fee may be allowed to be recovered separately from the respondents in terms of Regulation 94(1) and 94(4) of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024. The fees and charges to be paid by the petitioner as ISTS licensee (deemed ISTS licensee) under CERC (Fees and Charges of RLDC and other matters) Regulations as amended from time to time shall also be recoverable from the DICs as provided under clause 94 (3) of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024.
38. The Transmission Charges and other related Charges in the instant petition, is exclusive of incentive, late payment surcharge, FERV, any statutory taxes, levies, duties, cess, filing fees, license fee, RLDC fees and charges, Security Expenses, Insurance, Capital Spares or any other kind of imposition (s) and/ or other surcharges etc. whatsoever imposed / charged by any Government (Central/State) and / or any



other local bodies/authorities/regulatory authorities in relation to transmission of electricity, environmental protection, and/or in respect of any of its installation associated with the Transmission System and the same shall be borne and additionally paid by the respondent(s) to the petitioner and the same shall be charged, billed separately by the petitioner on the respondents.

Sharing of Transmission Charges

39. Tariff for Transmission of Electricity (Annual Fixed Cost) for 2024-29 shall be recovered on monthly basis in accordance with Regulation 78 of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 and shall be shared by the beneficiaries and long-term transmission customers in Central Electricity Regulatory Commission (Sharing of Inter State Transmission Charges and Losses) Regulations, 2020 (Sharing Regulations, 2020) as amended from time to time.
40. In the circumstances mentioned above, it will be just and proper that the transmission tariff for the asset covered under this petition be allowed to be charged from the beneficiaries on the basis set out above. The Petitioner submits that the Encl-1 to 11 may please be treated as an integral part of this petition.

41. PRAYER

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

- 1) Admit the capital cost claimed in the petition and approve the incurred/ projected additional capitalization during 2024-29.
- 2) Approve the transmission tariff for 2024-29 block for the assets covered under this petition.
- 3) 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.
- 4) Condone the minor delay of 3 days in case of Asset-2.
- 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 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 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 (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 to be claimed as project as a whole.
- 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 as mentioned at Para 36 above.
- 11) Allow the petitioner to claim the overall insurance expenses and consequential IOWC on that insurance expenses separately as mentioned at Para 36 above.
- 12) Allow the petitioner to file a separate petition before Hon'ble Commission for claiming the overall capital spares as per actual as mentioned at Para 36 above.
- 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.



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
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 "Transmission system for evacuation of power from the Rajasthan REV Ph-IV (Part-1) {Bikaner Comp/ex} - Part-E" in Northern Region under Section 62 read with Section 79(1)(d) of Electricity Act, 2003, Regulation 15(1)(2) 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'

Versus

Uttar Pradesh Power Corporation Limited (UPPCL)

— 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

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

Affirmed at Gurgaon on this 3rd Day of May 2025.



NOTARY
CENTRAL NOTARY
BIKANER





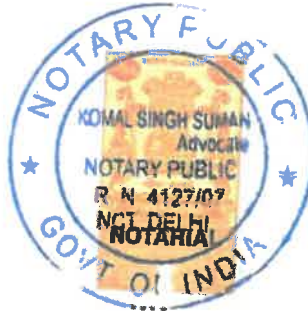
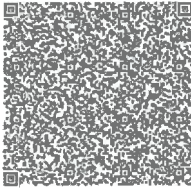
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INDIA NON JUDICIAL

Government of National Capital Territory of Delhi

e-Stamp

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)



General Power of Attorney

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-

[Signature]



Statutory Alert:

1. The authenticity of this Stamp certificate should be verified at 'www.shcilestamp.com' or using e-Stamp Mobile App of Stock Holding.
2. Any discrepancy in the details on this Certificate and as available on the website / Mobile App renders it invalid.
3. 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,




See



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 01st 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 Rajil Shivastava
(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: 28th January, 2024

In the matter of:

Application under Section 14 of the Electricity Act, 2003 read with the Central Electricity Regulatory Commission (Procedure, Terms and Conditions for Grant of Transmission License and other related matters) Regulations, 2009 for grant of a separate transmission license to POWERGRID Bikaner Transmission System Limited for the "Implementation of 1 no. of 220 kV line bay at 400/220 kV Bikaner-II PS for interconnection of solar project (NHPC Ltd.)", "Implementation of 2 nos. of 220 kV line bays at 400/220 kV Bikaner-II PS for interconnection of RE power park of ALF Solar Amarsar Pvt. Ltd.", "Transmission system for evacuation of power from the Rajasthan REZ Ph IV (Part-1) (Bikaner Complex) Part-E " and "Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220 kV, 1 X 500 MVA ICT (3rd)" through "Regulated Tariff Mechanism" (RTM) mode.

And

In the matter of

POWERGRID Bikaner Transmission System Limited,
B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi 110 016
Address for correspondence:
ED (TBCB), Power Grid Corporation of India Limited,
Saudamini, Plot no.2, Sector -29,
Gurgaon 122001, Haryana

...Petitioner

Vs

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

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



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

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

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

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

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

7. The Principal Secretary (Power),
Power Development Department,
Govt. of J&K Govt. of Jammu & Kashmir
SLDC Building, 1st Floor, Gladani Power House,
Narwal, Jammu

8. Chief Electrical Distribution Engineer,
North Central Railway, Subedar Ganj,
Allahabad, Uttar Pradesh

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

10. The Chief Executive Officer,
BSES Rajdhani Power Limited,
BSES Bhawan, 2nd Floor, B Block,
Nehru Place, New Delhi - 110 019

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



12. The Director (Commercial),
New Delhi Municipal Corporation NDMC,
Palika Kendra, Sansad Marg,
New Delhi – 110 001

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

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

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

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

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

...Respondents

The following were present:

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

ORDER

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

Regulatory Commission (Terms and Conditions for grant of Transmission Licence and other related matters) Regulations, 2009 (hereinafter referred to as 'the Transmission Licence Regulations') for the grant of a separate transmission licence for the Implementation of 1 no. of 220 kV line bay at 400/220 kV Bikaner-II PS for inter-connection of a solar project NHPC Limited), Implementation of 2 nos. of 220 kV line bays at 400/220 kV Bikaner-II PS for inter-connection of RE power park of ALF Solar Amarsar Pvt. Ltd., Transmission system for evacuation of power from the Rajasthan REZ Ph IV (Part-1) (Bikaner Complex) Part-E and Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220 kV, 1 X 500 MVA ICT (3rd) on Regulated Tariff Mechanism mode (hereinafter referred to as the 'transmission scheme/project'). The scope of the project for which a transmission licence has been sought is as under:

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

S no	Scope of the Transmission Scheme	Capacity/km	Implementation timeframe
1	1 no. of 220 kV line bay at 400/220 kV Bikaner-II PS for interconnection of RE project (NHPC Ltd.)	• 220 kV line bay – 1 no. (refer to note a)	15 months from the issue of OM by CTUIL, i.e. 27.2.2024
2	Implementation of 220 kV bus sectionalizer along with bus coupler and transfer bus coupler at 400/220kV Bikaner-II PS	220kV bus sectionalizer bay - 1 Set 220 kV bus coupler bay -1 No. 220 kV transfer bus coupler bay - 1 No. Bus works for future bays (4 nos. of line bays & 3 nos. of ICT bays)	
Total Estimated Cost:			Rs. 29.21 crore



Note:

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

(b) Implementation of 2 nos. of 220 kV line bays at 400/220 kV Bikaner-II PS for interconnection of RE power park of ALF Solar Amarsar Pvt. Ltd.:

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

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

S. No	Scope of the Transmission Scheme	Capacity/km	Implementation timeframe
1.	Augmentation with 5X500 MVA, 400/220 kV ICTs at Bikaner-II PS	400/220 kV, 500 MVA ICT – 5 nos. 400 kV ICT bays – 5 nos. 220 kV ICT bays - 5 nos.	4x500MVA, 400/220kV ICTs: 31.12.2024 1x500MVA, 400/220kV ICT: 31.1.2025
Total Estimated Cost:			INR 368 Crore**

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

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

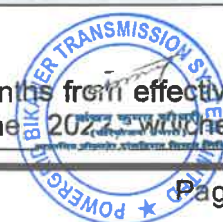
S. No.	Scope of the Transmission Scheme	Capacity/km	Implementation timeframe
1.	Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220 kV, 1X500 MVA ICT (3 rd) along with associated transformer	500 MVA, 400/220 kV ICT – 1 no. 400 kV ICT bay (including associated tie bay) – 1 no. 220 kV ICT bays - 1	18 months from the issue of OM by CTUIL, i.e. 7.12.2024

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

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

Sr.	Name of the Transmission Element	Scheduled COD in months from Effective Date
1.	Establishment of 400 kV switching station at Bikaner-II PS with 420kV (2x125 MVAR) bus reactor 400 kV line bays – 4 nos. 125 MVAR, 420 kV bus reactor - 2 nos.	18 months from effective date or June 2022, whichever is

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Sr.	Name of the Transmission Element	Scheduled COD in months from Effective Date
	400 kV bus reactor bay – 2 nos. 400 kV, 80MVAR line reactor on each circuit at Bikaner-II end of Bikaner-II – Khetri 400 kV 2xD/c Line – 4 nos. Switching equipment for 400 kV switchable line reactor – 4 nos. <u>Future provisions:</u> Space for 400/220 kV ICTs along with bays – 10 nos. 400 kV line bays – 6 nos. 220 kV line bays – 16 nos. 420 kV reactors along with bays – 2 nos. Suitable bus sectionaliser arrangement at 400 kV and 220 kV	later*
2.	Bikaner-II PS – Khetri 400 kV 2xD/c line (Twin HTLS* on M/c Tower)	
3.	1x80MVAR Fixed Line reactor on each circuit at Khetri end of end of Bikaner-II – Khetri 400 kV 2xD/c Line - 4 nos.	
4.	4 nos. of 400 kV line bays at Khetri for Bikaner –II PS – Khetri 400kV 2xD/c line	
5.	Khetri-Bhiwadi 400 kV D/c line (Twin HTLS)*	
6.	2 nos. of 400 kV line bays at Khetri for Khetri - Bhiwadi 400kV D/c line	
7.	2 nos. of 400 kV(GIS) line bays at Bhiwadi for Khetri-Bhiwadi 400 kV D/c line	
8.	STATCOM at Bikaner-II S/s± 300 MVAR, 2x125 MVAR MSC, 1x125 MVAR MSR	

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

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



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

S. No.	Scope of the Transmission Scheme	Capacity	Implementation timeframe
1.	2x500 MVA, 400/220 kV ICT at Bikaner-II PS	400/220 kV, 500 MVA ICT - 2 nos. 400 kV ICT bays - 2 nos. 220 kV ICT bays - 2 nos.	ICT-I: March, 2023 ICT-II: April, 2023
2.	4 nos. 220 kV line bays	220 kV line bays - 4 nos.	1 no. of bay: March, 2023 1 no. of bay: April, 2023 2 nos. of bays: December, 2023

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

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

(iii) Implementation of 2 no. of 220 kV line bays at 400/220 kV Bikaner-II PS for interconnection of solar projects (ACME Solar Holdings Pvt. Ltd., Prerak Greentech Pvt. Ltd.).

S. No.	Scope of the Transmission Scheme	Capacity/km	Implementation timeframe
1.	2 nos. of 220 kV line bays at 400/220 kV Bikaner-II PS for interconnection of RE projects (ACME Solar Holdings Pvt Ltd., Prerak Greentech Pvt. Ltd.)	220 kV line bay – 2 Nos. (refer to note a)	15 months from the issue of OM by CTUIL
2.	Implementation of 220 kV Bus sectionalizer along with bus coupler and transfer bus coupler at 400/220kV Bikaner-II PS	220kV Bus Sectionalizer Bay-1 Set 220 kV Bus Coupler Bay -1 No. 220 kV Transfer Bus	



		Coupler Bay-1 No. Bus extension works for future Bays (3 Nos. of Line Bays & 3 Nos. of ICT Bays) -1Set	
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Note:

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

4. Subsequently, the Petitioner filed an amended Petition for the grant of a separate licence for the additional scope of works assigned by CTUIL, vide OMs dated 28.11.2022, 17.1.2023, 16.2.2023, and 8.6.2023. Regarding the grant of a separate transmission licence for the implementation of 1 no. of 220 kV line bay at 400/220 kV Bikaner-II PS for inter-connection of a solar project NHPC Limited, implementation of 2 nos. of 220 kV line bays at 400/220 kV Bikaner-II PS for inter-connection of RE power park of ALF Solar Amarsar Pvt. Ltd., transmission system for the evacuation of power from the Rajasthan REZ Ph IV (Part-1) (Bikaner Complex) Part-E and Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220 kV, 1 X 500 MVA ICT (3rd) on the Regulated Tariff Mechanism (RTM) mode" as described in paragraph 1 of the order, the Commission, after considering the application of the Petitioner in light of the provisions of the Act and the Transmission Licence Regulations, vide its order dated 13.11.2023, *prima facie* proposed to grant a transmission licence to the Petitioner. The relevant extract of the order dated 13.11.2023 is extracted as under:

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

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

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

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

32. *It is an established principle of law that the power to relax has to be strictly construed and is to be exercised judiciously and with caution. Further, the power to relax is to be exercised only when undue hardship is caused by the application of the rules or regulations. In the present case, the Petitioner is a transmission licensee who is already implementing the project defined under its scope through the TBCB mechanism. The present Petition is consequent to the office order 28.10.2021 notified by the Ministry of Power, Government of India, wherein CTUIL has been authorized to determine the mode of implementation of ISTS projects less than or equal to Rs.100 crore.*

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

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



5. The case was called out for hearing on 28.11.2023. The learned counsel for the Petitioner submitted that no objection has been received in response to the public notice published by the Commission under sub-section (5) of Section 15 of the Act. Accordingly, it was requested that a transmission licence be granted to the Petitioner Company. The representative of the CTUIL further submitted that CTUIL has already recommended the grant of the transmission licence.

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



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

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

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

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

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

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

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

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

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

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

S. No.	Scope of the Transmission Scheme	Capacity/km	Implementation timeframe
1.	1 no. of 400 kV line bay at 400/220kV Bikaner-II S/s for interconnection of 1000 MW Solar Project of SJVN Ltd.	400 kV line bay- 1 No.	01.10.2023

(iii) Implementation of 2 no. of 220 kV line bays at 400/220 kV Bikaner-II PS for interconnection of solar projects (ACME Solar Holdings Pvt. Ltd., Prerak Greentech Pvt. Ltd.).

S. No.	Scope of the Transmission Scheme	Capacity/km	Implementation timeframe
1.	2 nos. of 220 kV line bays at 400/220 kV Bikaner-II PS for interconnection of RE projects (ACME Solar Holdings Pvt Ltd., Prerak Greentech Pvt. Ltd.)	220 kV line bay – 2 Nos. (refer to note a)	15 months from the issue of OM by CTUIL
2.	Implementation of 220 kV Bus sectionalizer along with bus coupler and transfer bus coupler at 400/220kV Bikaner-II PS	220kV Bus Sectionalizer Bay-1 Set 220 kV Bus Coupler Bay -1 No. 220 kV Transfer Bus Coupler Bay-1 No. Bus extension works for future Bays (3 Nos. of Line Bays & 3 Nos. of ICT Bays) -1Set	

Note:



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

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

S. no.	Scope of the Transmission Scheme	Capacity/km	Implementation timeframe
1	1 no. of 220 kV line bay at 400/220 kV Bikaner-II PS for interconnection of RE project (NHPC Ltd.)	220 kV line bay – 1 no. (refer to note a)	15 months from the issue of OM by CTUIL, i.e. 27.2.2024
2	Implementation of 220 kV bus sectionalizer along with bus coupler and transfer bus coupler at 400/220kV Bikaner-II PS	220kV bus sectionalizer bay - 1 Set 220 kV bus coupler bay -1 No. 220 kV transfer bus coupler bay - 1 No. Bus works for future bays (4 nos. of line bays & 3 nos. of ICT bays)	
Total Estimated Cost:			Rs.29.21 crore

Note:

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

(v) **Implementation of 2 nos. of 220 kV line bays at 400/220 kV Bikaner-II PS for interconnection of RE power park of ALF Solar Amarsar Pvt. Ltd.:**

Sl. No.	Scope of the Transmission Scheme	Capacity/km	Implementation timeframe
1.	2 no. of 220 kV line bays at 400/220 kV Bikaner-II PS for interconnection of RE power park of M/s ALF Solar Amarsar Pvt. Ltd.	• 220 kV line bay – 2 nos.	30.06.2024

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



S. No.	Scope of the Transmission Scheme	Capacity/km	Implementation timeframe
1.	Augmentation with 5X500 MVA, 400/220 kV ICTs at Bikaner-II PS	400/220 kV, 500 MVA ICT – 5 nos. 400 kV ICT bays – 5 nos. 220 kV ICT bays - 5 nos.	4x500MVA, 400/220kV ICTs: 31.12.2024 1x500MVA, 400/220kV ICT: 31.1.2025

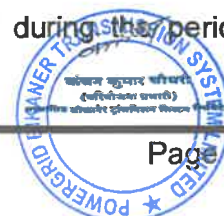
(vii) Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220 kV, 1X500 MVA ICT (3rd)

S. No.	Scope of the Transmission Scheme	Capacity/km	Implementation timeframe
1.	Augmentation of transformation capacity at 400/220 kV Bikaner-II PS by 400/220 kV, 1X500 MVA ICT (3 rd) along with associated transformer bays* *1 no. of 400kV (AIS) (including associated tie bay) and 1 no. of 220 kV (AIS) transformer bay	500 MVA, 400/220 kV ICT – 1 no. 400 kV ICT bay (including associated tie bay) – 1 no. 220 kV ICT bays - 1 no.	18 months from the issue of OM by CTUIL, i.e. 7.12.2024

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

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

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



- (c) The licensee may make an application, two years before the expiry of the initial licence period, for the grant of the transmission licence for another term in accordance with Regulation 13 (2) of the Transmission Licence Regulations, which shall be considered by the Commission in accordance with law;
- (d) The licensee shall not enter into any contract for or otherwise engage in the business of trading in electricity during the period of subsistence of the transmission licence;
- (e) The licensee shall have the liability to pay the license fee in accordance with the provisions of the Central Electricity Regulatory Commission (Payment of Fees) Regulations, 2012, as amended from time to time or any subsequent enactment thereof. Delay in payment or non-payment of licence fee or a part thereof for a period exceeding sixty days shall be construed as a breach of the terms and conditions of the licence;
- (f) The licensee shall comply with the directions of the National Load Despatch Centre under Section 26 of the Act, or the Regional Load Despatch Centre under sub-section (3) of Section 28 or sub-section (1) of Section 29 of the Act, as may be issued from time to time for maintaining the availability of the transmission system;
- (g) The licensee shall remain bound by the provisions of Central Electricity Regulatory Commission (Standard of Performance of inter-State transmission licensees) Regulations, 2012 or subsequent enactment thereof;



- (h) The licensee shall provide the non-discriminatory open access to its Transmission System for use by any other licensee, including a distribution licensee or an electricity trader, or generating company or any other person in accordance with the Act; the Central Electricity Regulatory Commission (Open Access in inter-State Transmission) Regulations, 2008; the Central Electricity Regulatory Commission (Connectivity and General Network Access to the inter-State Transmission System) Regulations, 2023; the Central Electricity Regulatory Commission (Indian Electricity Grid Code) Regulations, 2023, as amended from time to time or any subsequent re-enactments thereof;
- (i) The licensee shall not undertake any other business for optimum utilization of the Transmission System without prior intimation to the Commission and shall comply with the provisions of the Central Electricity Regulatory Commission (Sharing of Revenue Derived from Utilization of Transmission Assets for other business) Regulations, 2020;
- (j) The licensee shall remain bound by provisions of the Central Electricity Regulatory Commission (Sharing of inter-State Transmission Charges and Losses) Regulations, 2020 as amended from time to time;
- (k) The licensee shall remain bound by the provisions of the Act, the Rules and Regulations framed thereunder, in particular the Transmission Licence Regulations, the Grid Code, the Standards specified by the Central Electricity Authority, orders and directions of the Commission issued from time to time;



(l) The licensee shall ensure the execution of the Project as per the Technical Standards and Grid Standards of CEA; and

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

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

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

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

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

Sd/-
(P.K. Singh)
Member

sd/-
(Arun Goyal)
Member

sd/-
(Jishnu Barua)
Chairperson



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

CENTRAL TRANSMISSION UTILITY OF INDIA LTD.

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

Ref.: CTUIL/OM/06

15th November 2022

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

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

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

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

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

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

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

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

Yours faithfully,

Jasbir Singh
(Jasbir Singh) 15/11/22
Chief General Manager

Encl: as stated.

"सौदामिनी" प्रथम तल, प्लॉट सं. 2, सेक्टर-29, गुरुग्राम -122001 (हरियाणा), दूरभाष :0124-2822547, सीआईएन: U40100HR2020GOI091857
"Saudamini", 1st Floor, Plot No. 2, Sector-29, Gurugram-122001, (Haryana) Tel.: 0124-2822547, CIN: U40100HR2020GOI091857
Website: <https://www.ctuil.in>



I/24500/2022



भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

केंद्रीय विद्युत प्राधिकरण

Central Electricity Authority

विद्युत प्रणाली योजना एवं मूल्यांकन प्रभाग-II

Power System Planning & Appraisal Division-II

सेवा में / To

Chief Operating Officer, CTUIL

Saudamini, Plot No. 2,

Sector-29, Gurgaon – 122 001.

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

महोदय/ Sir,

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

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

सेवा भवन, आर. के. पुरम-I, नई दिल्ली-110066 टेलीफोन : 011-26732305 ईमेल : cea-pspa2@gov.in वेबसाइट : www.cea.nic.in

Sewa Bhawan, R.K Puram-I, New Delhi-110066 Telephone: 011-26732305, Email: cea-pspa2@gov.in Website: www.cea.nic.in



I/24500/2022

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

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

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

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

भवदीय / Yours faithfully,

संलग्न / Encl. - उपरोक्त / as above

(ईशान शरण/Ishan Sharan)

मुख्य अभियन्ता /Chief Engineer & Member Secretary (NCT)



Copy to:

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

I/24500/2022

Annexure-I**Detailed scope of works of schemes agreed in 9th meeting of NCT:**

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



I/24500/2022

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



I/24500/2022

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



I/24500/2022

Annexure-II

Modification in the scope of works of Transmission Scheme awarded through RTM by 8th NCT.

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

Raigarh (Kotra) Section-A

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

Raigarh(Kotra) Section-B

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

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



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

CENTRAL TRANSMISSION UTILITY OF INDIA LTD.

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

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

16th February 2023

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

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

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

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

Sl. No.	Transmission Scheme	Implementing Agency
		Transmission System Ltd. (PBTSL)
III. Communication schemes approved by NCT:		
1.	Supply and Installation of OPGW on existing 400 kV Jalandhar (PG) – Kurukshetra (PG) line which is to be LILOed at 400 kV Dhanansu (PSTCL) (229 km)	POWERGRID
2.	Supply and Installation of OPGW on existing 400 kV Koldam – Ludhiana (PG) line which is to be LILOed at 400 kV Ropar (PSTCL) (150 kms)	INDIGRID
3.	Supply and Installation of OPGW on existing 400 kV Agra – Ballabgarh line (181km) - Replacement	POWERGRID
4.	Supply and Installation of OPGW on existing 400 kV Kishenpur – Wagoora line (183 km) - Replacement	POWERGRID
5.	Redundant communication system for Bhinmal (PG) and Kankroli (PG) ISTS stations.	POWERGRID
6.	Supply and Installation of OPGW on existing 220kV Anta (NTPC) – Bhilwara line (187 km)	POWERGRID


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

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

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

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

Yours faithfully,


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

Encl: as stated.



I/26294/2023



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

सेवा में / To

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

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

महोदय/Sir,

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

I. APPROVED ISTS SCHEMES:**1. Western Region Expansion Scheme XXXIII (WRES-XXXIII): Part A**

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



I/26294/2023

Detailed scope of the scheme is given below:

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

Estimated Cost: Rs. 126.09 Crs.

Implementing Agency: POWERGRID.

Implementation timeframe: 18 months from date of allocation

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

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

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

Note:

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



I/26294/2023

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

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

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

Implementing agency: Torrent Power Grid Limited (TPGL)

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

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

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

Detailed scope of the scheme:

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

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

Estimated Cost: Rs. 58.52 Crores.



I/26294/2023

Implementing Agency: POWERGRID.

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

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

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

Detailed scope of the scheme:

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

Estimated Cost: Rs 19 Crs

Implementing Agency: POWERGRID.

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

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

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

Detailed scope of the scheme:

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

1.	Conversion of 1x330 MVAR, 765 kV Fixed line reactor at Orai end of Ishanagar – Orai 765 kV line [formed after LILO of one circuit of Jabalpur - Orai 765 kV D/c line at Ishanagar (New) S/s] to Bus reactor at Orai S/s.	Shifting of 330 MVAR, 765 kV Line reactor of Orai-Jabalpur line at Orai end and installing the same as Bus Reactor in existing bay (GIS) at Orai.
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Estimated cost: Rs. 0.5 Crore

Implementing Agency: POWERGRID

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

I. MODIFICATION IN THE ALREADY APPROVED SCHEMES:

- (1) Modification in the “Transmission Network Expansion in Gujarat to increase ATC from ISTS: Part C” has been approved in the 11th meeting of NCT. The modified scope is as given below:

Sl. No.	Original Scope of the Transmission Scheme	Modified scope of the transmission scheme
1	Augmentation of transformation capacity at 765/400 kV ICT Banaskantha S/S by 1x1500MVA 765/400 kV, 1500 MVA ICT: 1 Nos. 765 kV ICT bay – 1 No. 400 kV ICT bay– 1 No.	Augmentation of transformation capacity at 765/400 kV ICT Banaskantha S/S by 1x1500 MVA 765/400 kV, 1500 MVA ICT: 1 Nos. 765 kV ICT bay – 1 No. 400 kV ICT bay– 1 No.
2	Banaskantha -Sankhari 400 kV 2 nd D/c line (26 km) Line Length : 26 km 400 kV line bays- 4 Nos. (2 Nos. at Banaskantha and 2 Nos. at Sankhari)	Banaskantha – Sankhari section of Banaskantha – Prantij 400 kV D/c line (Twin AL59 Moose equivalent) Route Length : 26 km 400 kV line bays- 2 Nos. (at Banaskantha)

Implementation Time-frame: Matching with establishment of Prantij 400/220 kV S/s and Prantij - Sankhari section of Banaskantha – Prantij 400 kV D/c line (presently expected by March, 2025)

Implementing Agency: POWERGRID



I/26294/2023

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

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

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

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

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

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

II. COMMUNICATION SCHEMES APPROVED BY NCT:

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



I/26294/2023

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

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

The letter dated 14.02.2023 on the above subject stands withdrawn.

Yours faithfully

 16.02.2023

(ईशान शरण/Ishan Sharan)
मुख्य अभियंता /Chief Engineer &
Member Secretary (NCT)

Copy to:

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



POWERGRID BIKANER TRANSMISSION SYSTEM LIMITED

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

Certified True Copy of the Resolution passed at the 28th Meeting of Board of Directors of POWERGRID Bikaner Transmission System Limited held on Tuesday, 06th June, 2023 at 05:30 p.m. at "Saudamini", Plot No. 2, Sector-29, Gurgaon-122001 through Video Conferencing.

Item No. 28.2.1.:

Investment Approval for the RTM Projects allotted to M/s PBTSL: Transmission System for evacuation of power from Rajasthan REZ Ph-IV (Part-1) [Bikaner Complex]-Part-E

X

X

X

The Board passed the following resolution:

"RESOLVED THAT Investment Approval, be and is hereby accorded for "Transmission System for evacuation of power from Rajasthan REZ Ph-IV (Part-1) [Bikaner Complex]-Part-E" covering scope of work "Augmentation with 5x500 MVA, 400/220 kV ICTs at Bikaner-II PS" at an estimated cost of Rs. 202.39 crore.

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

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


(Mrinal Shrivastava)
Co. Secy. – POWERGRID
Authorized Signatory

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



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

Yatin Sharma (यतिन शर्मा) <yatinsharma@powergrid.in>

Tue 6/13/2023 3:43 PM

To: Pankaj Pandey (पंकज पांडे) <ppandey@powergrid.in>
Cc: Kummara Vinay (कुमारा विनय) <vinay.kummara@powergrid.in>; Ashish Singh (आशीष सिंह) <ashish.singh@powergrid.in>; Mahendra Prajapati (महेंद्र प्रजापति) <mprajapati@powergrid.in>; Anoop Singh (अनूप सिंह) <anoops@powergrid.in>; Jasbir Singh (जसबीर सिंह) <jasbir@powergrid.in>; Kashish Bhamhani (कशिष भम्हानी) <kashish@powergrid.in>; Sandeep Kumawat (संदीप कुमावत) <sandeepk@powergrid.in>; Ankita Singh (अंकिता सिंह) <ankita@powergrid.in>; NARENDRA SATHVIK RANGANATH (नरेंद्र सत्विक आर) <msathvik@powergrid.in>; Roushan Kumar (रौशन कुमार) <roushan.k@powergrid.in>; MADHUSUDAN MEENA (मधुसूदन मीना) <madhusudanmeena@powergrid.in>

3 attachments (2 MB)

Annex-I_CEA_Ltr_15Nov22_09thNCT_RTM_Schemes.pdf; CTU letter forwarding recommendations of 9th NCT meeting held on 28.09.2022_POWERGRID.pdf; CTU letter forwarding recommendations of 11th NCT meeting with Annexure.pdf;

Sir,

This is with reference to Augmentation by 400/220 kV, 5x500 MVA ICTs at Bikaner-II PS as part of "Transmission system for evacuation of power from Rajasthan REZ Ph IV (Part-1) (Bikaner Complex) Part-E" allocated to M/s PBTS Ltd vide attached OMs. As per NCT Letter dated 15.11.2022, above ICTs were to be taken up for evacuation requirement beyond 2000 MW at 220 kV level of Bikaner-II PS, with implementation timeframe matching with schedule of RE generation or 18 months from date of allocation, whichever is later. In this regard, it is to mention that 3785MW Stage-II Connectivity has been granted at 220kV level of Bikaner-II PS. Further, in line with Connectivity and GNA Regulations, 2022, Stage-II Grantees at Bikaner-II PS has opted for conversion of their Connectivity under Connectivity Regulations, 2009 into Connectivity under GNA Regulations, 2022, thus meeting the requirement specified in NCT letter dated 15.11.2022. Accordingly, above 400/220kV ICTs (4th to 8th) at Bikaner-II PS may be implemented as following:

4x500MVA, 400/220kV ICT – Dec'24 (31.12.2024) [(4th to 7th ICT)]
1x500MVA, 400/220kV ICT – By Jan'25 (31.01.2025) [8th ICT]

Regards,
Yatin



पावरग्रिड बीकानेर ट्रांसमिशन सिस्टम लिमिटेड

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

POWERGRID BIKANER TRANSMISSION SYSTEM LIMITED

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

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

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

CIN:U40300DL2020GOI363669

Ref: TBCB-RTM/PBTSL/DOCO Letter/06

Date: 03.02.2025

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 of transmission element namely 400/220 kV, 500 MVA T&R Make ICT-6 along with associated bays at Bikaner-II SS under the "Transmission System namely "Transmission System for Evacuation of Power from Rajasthan REZ PH-IV (Part-1) (Bikaner Complex)-Part-E"

Ref: (i) "CTU's OM CTUIL/OM/06 dated 15.11.2022"

Dear Sir(s),

Consequent to the successful charging, the 400/220 kV, 500 MVA T&R Make ICT-6 along with associated bays at 400/220 kV Bikaner-II SS under the Transmission System namely "Transmission System for Evacuation of Power from Rajasthan REZ PH-IV (Part-1) (Bikaner Complex) Part-E" has been put under commercial operation with effect from 00:00 Hrs. of 30.12.2024, 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 30.12.2024.

Thanking You,

Yours faithfully,

For and on behalf of POWERGRID BIKANER TRANSMISSION SYSTEM LIMITED

K R Choudhary

Project Incharge

POWERGRID BIKANER TRANSMISSION SYSTEM LIMITED

Email id: kanchan@powergrid.in

Mobile No.: 9560690612



पंजीकृत कार्यालय: बी 9, कुतुब इंस्टीट्यूशनल एरिया, कटवारिया सराय, नई दिल्ली – 110016 दूरभाष -011 6560121 (ई पी बी एक्स) फैक्स: 6560112
Registered Office: B-9, Qutub Institutional Area, Katwaria Sarai, New Delhi – 110016, Ph: 26560121(EPBAX), Fax: 011-26560112

उत्तरी क्षेत्र परीक्षण प्रणाली- I, क्षेत्रीय कार्यालय: एस.सी.ओ. 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



ग्रिड-इंडिया
GRID-INDIA

1445 कंट्रोलर आफ इंडिया लिमिटेड
(भारत सरकार का उद्यम)
GRID CONTROLLER OF INDIA LIMITED

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

उत्तर क्षेत्रीय भार प्रेषण केंद्र / Northern Regional Load Despatch Centre

कार्यालय: 18-ए, शाहीद जेठ सिंह सनसनवाल मार्ग, कटवारिया सराय, नई दिल्ली - 110016
Office : 18-A, Shaheed Jeet Singh Sansanwal Marg, Katwaria Sarai, New Delhi-110016
CIN : U40105DL2009GOI188682, Website : www.nrlc.in, E-mail : nrlc@grid-india.in, Tel.: 011- 28854015, 40224603

Certificate Number: GRID-INDIA/NRLDC/SO/589

Date: 24-01-2025

Certificate of successful Trial Run (with electrical load) as per Clause 25 of CERC (IEGC), 2023

Certificate of completion of Trial Operation of 400/220 kV, 500 MVA ICT-6 along with 400 kV Main Bay 432 & Tie Bay 431 and 220 kV Bay 222 at Bikaner_2(PBTSL)

Reference:

1. **POWERGRID BIKANER TRANSMISSION SYSTEM LIMITED (PBTSL)** Communication dated 12 Dec 2024 17:32, 18 Dec 2024 12:37, vide Format - I and 25 Dec 2024 23:35, 27 Dec 2024 11:03, vide Format - III regarding the submission of pre charging documents for -
i. 400kV Main Bay 432 of 400/220 kV, 500 MVA ICT-6 at Bikaner_2 (PBTSL)
ii. 400kV Tie Bay 431 of 400/220 kV, 500 MVA ICT-6 and Future Line at Bikaner_2 (PBTSL)
iii. 400/220/33kV, 500 MVA MVA, 3-Phase, T & R, ICT - 6 at Bikaner_2 (PBTSL)
iv. 220kV Main Bay 222 of 400/220 kV, 500 MVA ICT-6 at Bikaner_2 (PBTSL)
2. NRLDC Acknowledgement dated 19 Dec 2024 16:35 vide Format - II and Provisional Approval dated 27 Dec 2024 16:00 vide Format - IV.
3. Real time code issued by NRLDC on request of **POWERGRID BIKANER TRANSMISSION SYSTEM LIMITED (PBTSL)** Real Time Code No-NR2412-11950,11953,11949,12212.
4. **POWERGRID BIKANER TRANSMISSION SYSTEM LIMITED (PBTSL)** , Communication dated 20 Jan 2025 17:31, vide Format - V regarding the submission of post charging documents.
5. No Objections received from (Beneficiary(ies)).

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

Name of the Transmission Asset:	400/220 kV, 500 MVA ICT-6 along with 400 kV Main Bay 432 & Tie Bay 431 and 220 kV Bay 222 at Bikaner_2(PBTSL)
Owner of the Transmission Asset:	POWERGRID BIKANER TRANSMISSION SYSTEM LIMITED (PBTSL).
Date and Time of Energization for commencement of successful trial run operation	28-12-2024 - 19:10 Hrs
Date/Time of completion of successful trial run operation	29-12-2024 - 19:10 Hrs

Note:

1. There is one and half-breaker scheme at HV-400kV Side of ICT-6 at Bikaner_2(PBTSL) sub-stations, and the complete dia is in charged condition.

This certificate is being issued in accordance with Regulation 25 (1) and 25(2) of CERC (Indian Electricity Grid Code) Regulations, 2023 and amendments thereof to certify successful trial run of power system element with electrical load.


Nabarun Roy
Executive Director

Place : New Delhi

Copy to :

I. Head-POWERGRID BIKANER TRANSMISSION SYSTEM LIMITED (PBTSL).

II. Member Secretary, NRPC, New Delhi.

III. Executive Director, NLDC, New Delhi.

IV. Beneficiary(ies).



पंजीकृत कार्यालय : प्रथम तल, बी-9, कुतुब इंस्टीट्यूशनल एरिया, कटवारिया सराय, नई दिल्ली - 110016
Registered Office : First Floor, B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi -110016

पावरग्रिड बीकानेर ट्रान्समिशन 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-VI along with associated bays at Bikaner-II" under the Transmission system namely "TRANSMISSION SYSTEM FOR EVACUATION OF POWER FROM RAJASTHAN REZ PH-IV (PART-1) (BIKANER COMPLEX)-PART-E" 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 29.12.2024 (19:10 hrs)

(Dr Subir Sen)
Chairman

POWERGRID Bikaner Transmission System Limited



पंजीकृत कार्यालय: बी-9, कुतुब इंस्टीट्यूशनल एरिया, कटवारिया सराय, नई दिल्ली - 110016 दूरभाष - 011 26560121 (ई पी बी एक्स) फैक्स: 011-26560112

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

उत्तरी क्षेत्र परियोजना प्रणाली- I, क्षेत्रीय कार्यालय: एस.सी.ओ. बें.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



भारत सरकार/Govt. of India

विद्युत मंत्रालय/Ministry of Power

केन्द्रीय विद्युत प्राधिकरण/Central Electricity Authority

मुख्य विद्युत निरीक्षणालय प्रभाग/Chief Electrical Inspectorate Division

No. CEI/2/EI/RIO (N)/Insp./2024/975

Date: 23.12.2024

To,

Sh. Abhimanyu Shekhawat,
Power Grid Corporation of India Limited,
400/220 kV Bikaner-II Substation,
Bikaner, Rajasthan

Subject: Approval for energisation of electrical equipments at 400/220 kV Bikaner-II Substation, PGCIL, Bikaner, Rajasthan - under Regulation 45 of Central Electricity Authority (Measures Relating to Safety and Electric Supply) Regulations, 2023.

Ref: (1) Online application No. A/2024/14861 dated 06.11.2024
(2) CEA's Order for compliance dated 28.11.2024
(3) Your compliance report dated 23.12.2024

Whereas the inspection of electrical equipments as per the list of online application under reference at and associated with 400/220 kV Bikaner-II Substation, PGCIL, Bikaner, Rajasthan was carried out by the undersigned on 25.11.2024 under regulation 45 of the Central Electricity Authority (Measures relating to Safety and Electricity Supply) Regulations, 2023.

Approval for energisation of the said electrical installation/apparatus (list attached) is hereby accorded subject to following:

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

The periodic inspection of aforesaid installation/apparatus under regulation 32 of CEA (Measures relating to safety and Electric Supply) Regulations, 2023 shall be carried out at an interval not exceeding 5 years from the date of this inspection. This periodicity is subject to change by government notification.




(Ajit Kumar Ray)
Deputy Director

Mobile: 9507066858

Email: ajitray.cea@gov.in

List of Bays/Equipment to be Energized at 400/220kV Bikaner-II PS Under Sub-Station Package SS-104 for Extension of 400/220KV Bikaner-II S/s associated with 'Transmission System for Evacuation of Power From Rajasthan REZ PH-IV (Part-I) (Bikaner Complex)

Sl No	Bay	Equipment Name	Make	MODEL	Rating	SL Number		
						R-Phase	Y-Phase	B-Phase
1	431	Isolator with 1 E/S (ISO 89A)	S&S	DBR	420 kV, 3150A, 63kA/1 Sec		1772-112-47	
2		CT	GE	OSKF-420	420 kV, 3150A, 63kA/1 Sec	37994043726/2023	37994043719/2023	37994043712/2023
3		Circuit Breaker	Siemens	3AP3FI	420 kV, 3150A, 63kA/1 Sec		2023/37185	
4		Isolator with 1 E/S (ISO 89B)	S&S	DBR	420 kV, 3150A, 63kA/1 Sec		1772-112-53	
5	432	Isolator with 1 E/S (ISO 89A)	S&S	DBR	420 kV, 3150A, 63kA/1 Sec		1772-112-41	
6		CT	GE	OSKF-420	420 kV, 3150A, 63kA/1 Sec	37994043955/2023	37994043727/2023	37994043725/2023
7		Circuit Breaker	Siemens	3AP3FI	420 kV, 3150A, 63kA/1 Sec		2023/37182	
8		Isolator with 1 E/S (ISO 89B)	S&S	DBR	420 kV, 3150A, 63kA/1 Sec		1772-112-50	
9	ICT	Isolator with 1 E/S (ISO 89TR)	S&S	DBR	421 kV, 3150A, 63kA/1 Sec		1772-112-45	
10		LA	ge T&D	ZLA-4E	336 kV	4097818	4097838	4097820
11		ICT-6	T&R	3 Phase Auto Transformer	500MVA, 400/220/33kV, 50Hz		PM0200271	
12		LA	Oblum	PBC	216 kV	694	698	700
13	222	ISO 89A	S&S	DBR	245kV, 2500A, 50KA/1 Sec		1772-212-63	
14		ISO 89B	S&S	DBR	245kV, 2500A, 50KA/1 Sec		1772-214-78	
15		CB	Siemens	3AP1FI	245kV, 2500A, 50KA/1 Sec		2023/37172	
16		ISO 89TR	S&S	DBR	245kV, 2500A, 50KA/1 Sec		1772-213-70	
17		Isolator (89T)	S&S	DBR	245kV, 2500A, 50KA/1 Sec		1772-214-79	
18		CT	GE T&D	OSKF-245	245kV, 1600 A, 50 kA/1 Sec	37994043866/2023	37994043897/2023	37994043896/2023

 Abhinav



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 उपकेंद्र, 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/07

Date: 28.02.2025

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 of transmission element namely 400/220 kV, 500 MVA T&R Make ICT-7 along with associated Bays at 400/220 kV Bikaner-II SS under the "Transmission System namely "Transmission System for Evacuation of Power from Rajasthan REZ PH-IV (Part-1) (Bikaner Complex)-Part-E"

Ref: (I) "CTU's OM CTUIL/OM/06 dated 15.11.2022"

Dear Sir(s),

Consequent to the successful charging, the 400/220 kV, 500 MVA T&R Make ICT-7 along with associated Bays at 400/220 kV Bikaner-II SS under the Transmission System namely "Transmission System for Evacuation of Power from Rajasthan REZ PH-IV (Part-1) (Bikaner Complex) Part-E" has been put under commercial operation with effect from 00:00 Hrs. of 03.02.2025, 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 03.02.2025.

Thanking You,

Yours faithfully,

For and on behalf of POWERGRID BIKANER TRANSMISSION SYSTEM LIMITED



K K Choudhary
Project Incharge

POWERGRID BIKANER TRANSMISSION SYSTEM LIMITED

Email id: kanchan@powergrid.in

Mobile No.: 9560690612

कंचन कुमार चौधरी

(परियोजना प्रभारी)

पावरग्रिड बीकानेर ट्रांसमिशन सिस्टम लिमिटेड

पंजीकृत कार्यालय: बी 9, कुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराय, नई दिल्ली – 110016 दूरभाष - 011 6560121 (ई पी बी एक्स) फैक्स - 011-26560112
Registered Office: B-9, Qutub Institutional Area, Katwaria Sarai, New Delhi – 110016, Ph: 26560121 (EPBAX), Fax: 011-26560112

उत्तरी क्षेत्र परिषद प्रणाली- I, क्षेत्रीय कार्यालय: एस.सी.ओ. ब. 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

Certificate Number: GRID-INDIA/NRLDC/SO/599

Date: 25-02-2025

Certificate of successful Trial Run (with electrical load) as per Clause 25 of CERC (IEGC), 2023
Certificate of completion of Trial Operation of 400/220 kV, 500 MVA ICT-7 along with 400 kV Main Bay 435 & Tie Bay 434 and 220 kV Bay 221 at Bikaner_2(PBTSL)

Reference:

1. POWERGRID BIKANER TRANSMISSION SYSTEM LIMITED (PBTSL) Communication dated 08 Jan 2025 23:45, vide Format - I and 28 Jan 2025 18:16, 09 Feb 2025 09:28, vide Format - III regarding the submission of pre charging documents for -

- (i) 220kV Main Bay 221 of 400/220 kV, 500 MVA ICT-7 at Bikaner_2 (PBTSL)
- (ii) 400/220/33kV, 500 MVA MVA, 3-Phase, T & R, ICT - 7 at Bikaner_2 (PBTSL)
- (iii) 400kV Tie Bay 434 of 400/220 kV, 500 MVA ICT-7 and Future Line at Bikaner_2 (PBTSL)
- (iv) 400kV Main Bay 435 of 400/220 kV, 500 MVA ICT-7 at Bikaner_2 (PBTSL)

2. NRLDC Acknowledgement dated 10 Jan 2025 10:03 vide Format - II and Provisional Approval dated 10 Feb 2025 08:58 vide Format - IV.

3. Real time code issued by NRLDC on request of POWERGRID BIKANER TRANSMISSION SYSTEM LIMITED (PBTSL) Real Time Code No-NR2502-6, 7, 8, 9 & 320

4. POWERGRID BIKANER TRANSMISSION SYSTEM LIMITED (PBTSL) , Communication dated 12 Feb 2025 21:19, 20 Feb 2025 13:58, vide Format - V regarding the submission of post charging documents.

5. No Objections recived from (Beneficiary(ies)).

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

Name of the Transmission Asset:	400/220 kV, 500 MVA ICT-7 along with 400 kV Main Bay 435 & Tie Bay 434 and 220 kV Bay 221 at Bikaner_2(PBTSL)
Owner of the Transmission Asset:	POWERGRID BIKANER TRANSMISSION SYSTEM LIMITED (PBTSL)
Date and Time of Energization for commencement of successful trial run operation	01-02-2025 19:55
Date/Time of completion of successful trial run operation	02-02-2025 19:55

Note:

1. There is one and half-breaker scheme at HV-400kV Side of ICT-7 at Bikaner_2(PBTSL) sub-stations, and the complete dia is in charged condition.

This certificate is being issued in accordance with Regulation 25 (1) and 25(2) of CERC (Indian Electricity Grid Code) Regulations, 2023 and amendments thereof to certify successful trial run of power system element with electrical load.


 Nabarun Roy
 Executive Director

Place : New Delhi

Copy to :

I. Head-POWERGRID BIKANER TRANSMISSION SYSTEM LIMITED (PBTSL).

II. Member Secretary, NRPC, New Delhi.

III. Executive Director, NLDC, New Delhi.

IV. Beneficiary(ies).



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 Jalmalsar, 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-VII along with associated bays at Bikaner-II" under the Transmission system namely "TRANSMISSION SYSTEM FOR EVACUATION OF POWER FROM RAJASTHAN REZ PH-IV (PART-1) (BIKANER COMPLEX)-PART-E" Scheme in Northern Region conform to the Central Electricity Authority Technical Standards for Construction, Central Electricity Authority Technical Standards for Connectivity, CEA Technical Standards for Communication, Central Electricity Authority (Measures relating to Safety and Electricity Supply) Regulations, 2010 and Central Electricity Regulatory Commission (Indian Electricity Grid Code) Regulations, 2023 and are capable of operation to their full capacity as per requirements for declaration of commercial operation w.e.f 02.02.2025 (19:55 hrs)


(Dr. Subir Sen)
Chairman

POWERGRID Bikaner Transmission System Limited

पंजीकृत कार्यालय: बी 9, कुतुब इन्स्टीट्यूशनल 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 पावरग्रिड प्रणाली- I, क्षेत्रीय कार्यालय: एस.सी.ओ. बें. 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



भारत सरकार/Govt. of India
विद्युत मंत्रालय/Ministry of Power
केन्द्रीय विद्युत प्राधिकरण/Central Electricity Authority
क्षेत्रीय निरीक्षणालय संगठन (उत्तर)/Regional Inspectorial Organization (North)
07वां तल, सीईए, सेवा भवन, आर.के.पुरम सेक्टर-1, नई दिल्ली-110066
07th floor, CEA, Sewa Bhawan, R.K.Puram Sector-1, New Delhi-110066

NRIO/POWERGRID Bikaner/Raj/2025/083

Dated:28.01.2025

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,
400/220 kV Bikaner-II SS VILLAGE JAIMALSAR, TEHSIL KOLAYAT,
BIKANER (RAJ)-334001

Subject: Approval for Energization of electrical installations as mentioned in List of Equipment in application of M/s POWERGRID BIKANER TRANSMISSION SYSTEM LIMITED, under Regulation 45 of Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations, 2023

Ref: (1) Online Application A/2024/15157 dated 11.12.2024.
(2) NRIO/POWERGRID Bikaner/Raj/2024/722 Order dated 30.12.2024
(3) Compliance report uploaded on portal on 10.01.2025, 22.01.2025 and 28.01.2025

Whereas the inspection of **electrical installations as mentioned in List of Equipment in application of M/s POWERGRID BIKANER TRANSMISSION SYSTEM LIMITED** was carried out by the undersigned on 24.12.2024 under Regulation 45 of Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations, 2023.

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

1. M/s POWERGRID BIKANER TRANSMISSION SYSTEM LIMITED 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 Electric Supply) Regulations, 2023 shall be ensured by M/s POWERGRID BIKANER TRANSMISSION SYSTEM LIMITED for safety during operation and maintenance.

The first periodic inspection of above installation under Regulation 32 of CEA (Measures relating to Safety and Electric Supply) Regulations, 2023 shall be carried out **at an interval not exceeding 05 years** from the date of this inspection. The application shall be filed by the applicant **at least 6 months in advance** so that compliance and final approval is granted on time. This periodicity is subject to change by government notification.



(Deepanshu Rastogi)

Deputy Director & Electrical Inspector (GoI)

List of Bays/Equipment to be Energized at 400/220kV Bikaner-II PS Under Sub-Station Package SS-104 for Extension of 400/220KV Bikaner-II S/s associated with 'Transmission System for Evacuation of Power From Rajasthan REZ PH-IV (Part-I) (Bikaner Complex)

Sl No	Bay	Equipment Name	Make	MODEL	Rating	SL Number		
						R-Phase	Y-Phase	B-Phase
1	434	Isolator with 1 E/S (ISO 89A)	S&S	DBR	420 kV, 3150A, 63kA/1 Sec		1772-112-48	
2		CT	GE	OSKF-420	420 kV, 3150A, 63kA/1 Sec	37994043715/2023	37994043718/2023	37994043713/2023
3		Circuit Breaker	Siemens	3AP3FI	420 kV, 3150A, 63kA/1 Sec		2023/37187	
4		Isolator with 1 E/S (ISO 89B)	S&S	DBR	420 kV, 3150A, 63kA/1 Sec		1772-112-44	
5	435	Isolator with 1 E/S (ISO 89A)	S&S	DBR	420 kV, 3150A, 63kA/1 Sec		1772-112-43	
6		CT	GE	OSKF-420	420 kV, 3150A, 63kA/1 Sec	37994043729/2023	37994043730/2023	37994043950/2023
7		Circuit Breaker	Siemens	3AP3FI	420 kV, 3150A, 63kA/1 Sec		2023/37185	
8		Isolator with 1 E/S (ISO 89B)	S&S	DBR	420 kV, 3150A, 63kA/1 Sec		1772-112-49	
9	ICT	Isolator with 1 E/S (ISO 89TR)	S&S	DBR	421 kV, 3150A, 63kA/1 Sec		1772-112-42	
10		LA	ge T&D	ZLA-4E	336 kV	4097835	4097813	4097812
11		ICT-7	T&R	3 Phase Auto Transformer	500MVA, 400/220/33kV, 50Hz		PM0200272	
12		LA	Oblum	PBC	216 kV	694	698	700
13	221	ISO 89A	S&S	DBR	245kV, 2500A, 50KA/1 Sec		1772-212-64	
14		ISO 89B	S&S	DBR	245kV, 2500A, 50KA/1 Sec		1772-214-39	
15		CB	Siemens	3AP1FI	245kV, 2500A, 50KA/1 Sec		2023/37164	
16		ISO 89TR	S&S	DBR	245kV, 2500A, 50KA/1 Sec		1772-213-68	
17		Isolator (89T)	S&S	DBR	245kV, 2500A, 50KA/1 Sec		1772-214-74	
18		CT	GE T&D	OSKF-245	245kV, 1600 A, 50 kA/1 Sec	37994043895/2023	37994043905/2023	37994043900/2023

(Deepanshu Rastogi)
Deputy Director (Gp), RIO (North)





RAJASTHAN MONSOON REPORT-2024



Years of Service to the Nation
राष्ट्र सेवा के 150 वर्ष

METEOROLOGICAL CENTRE JAIPUR
INDIA METEOROLOGICAL DEPARTMENT

2. Rainfall Distribution

The seasonal rainfall over Rajasthan was 156% of its long period average (LPA) during SW monsoon season 2024. East Rajasthan received 147% and West Rajasthan received 171% of its LPA. Out of 33 districts, 16 districts received large excess rainfall, 10 districts received excess rainfall, 7 districts received normal rainfall and none of the districts received deficient or scanty rainfall during the season. District wise percentage departure of LPA during June-September 2024 is depicted in figure 2.

INDIA METEOROLOGICAL DEPARTMENT MC JAIPUR

Rainfall % Departures from the Long Period Averages for Districts in RAJASTHAN

PERIOD : 01.06.2024 - 30.09.2024



LEGEND: ■ L. EXCESS (+60% OR MORE) ■ EXCESS (+20% TO +59%) ■ NORMAL (+1% TO +19%)
■ DEFICIENT (-20% TO -59%) ■ L. DEFICIENT (-60% TO -99%) ■ NO RAIN (-100%) ■ NO DATA

Fig. 2: Districtwise June-September 2024 Rainfall % Departures from the Long Period Averages
(3)



Table 1: CUMULATIVE RAINFALL STATISTICS 01/06/2024 to 30/09/2024)

SR NO.	NAME	ACTUAL RAINFALL (MM)	NORMAL RAINFALL (MM)	DEPARTURE FROM NORMAL (%)	CATEGORY
1	RAJASTHAN AS WHOLE	678.4	435.6	56	EXCESS
2	EAST RAJASTHAN	920	626.6	47	EXCESS
3	WEST RAJASTHAN	486.1	283.6	71	LARGE EXCESS

EAST RAJASTHAN

1	AJMER	819.6	458.3	79	LARGE EXCESS
2	ALWAR	946.3	545.9	73	LARGE EXCESS
3	BANSWARA	1043.4	886	18	NORMAL
4	BARAN	1084.9	832	30	EXCESS
5	BHARATPUR	925.4	543.3	70	LARGE EXCESS
6	BHILWARA	854.8	604.5	41	EXCESS
7	BUNDI	1052.6	644.4	63	LARGE EXCESS
8	CHITTORGARH	817.8	727.2	12	NORMAL
9	DAUSA	1409.4	594.5	137	LARGE EXCESS
10	DHOLPUR	1211.8	584.1	107	LARGE EXCESS
11	DUNGARPUR	774	706.5	10	NORMAL
12	JAIPUR	986.6	524.3	88	LARGE EXCESS
13	JHALAWAR	853.9	884.3	-3	NORMAL
14	JHUNJHUNU	550.5	408.8	35	EXCESS
15	KARALI	1245.8	595.8	109	LARGE EXCESS
16	KOTA	901.5	732.2	23	EXCESS
17	PRATAPGARH	1100.7	914.2	20	EXCESS
18	RAJSAMAND	788.1	538.1	46	EXCESS
19	SAWAI MADHOPUR	1285.6	661.5	94	LARGE EXCESS
20	SIKAR	628.4	407.1	54	EXCESS
21	SIROHI	928.9	873	6	NORMAL
22	TONK	1115.6	566.8	97	LARGE EXCESS
23	UDAIPUR	698.3	617.7	13	NORMAL

WEST RAJASTHAN

24	BARMER	448.6	272.7	65	LARGE EXCESS
25	BIKANER	423.3	247	71	LARGE EXCESS
26	CHURU	536.3	334	61	LARGE EXCESS
27	HANUMANGARH	328.4	253.6	29	EXCESS
28	JAISALMER	438.2	176.9	148	LARGE EXCESS
29	JALORE	471.6	417.8	13	NORMAL
30	JODHPUR	507.6	292.6	73	LARGE EXCESS
31	NAGAU	656.5	369.5	78	LARGE EXCESS
32	PALI	779.9	491.6	59	EXCESS
33	SRI GANGANAGAR	314.1	204.7	53	EXCESS

(4)



Stationwise Total Seasonal Rainfall

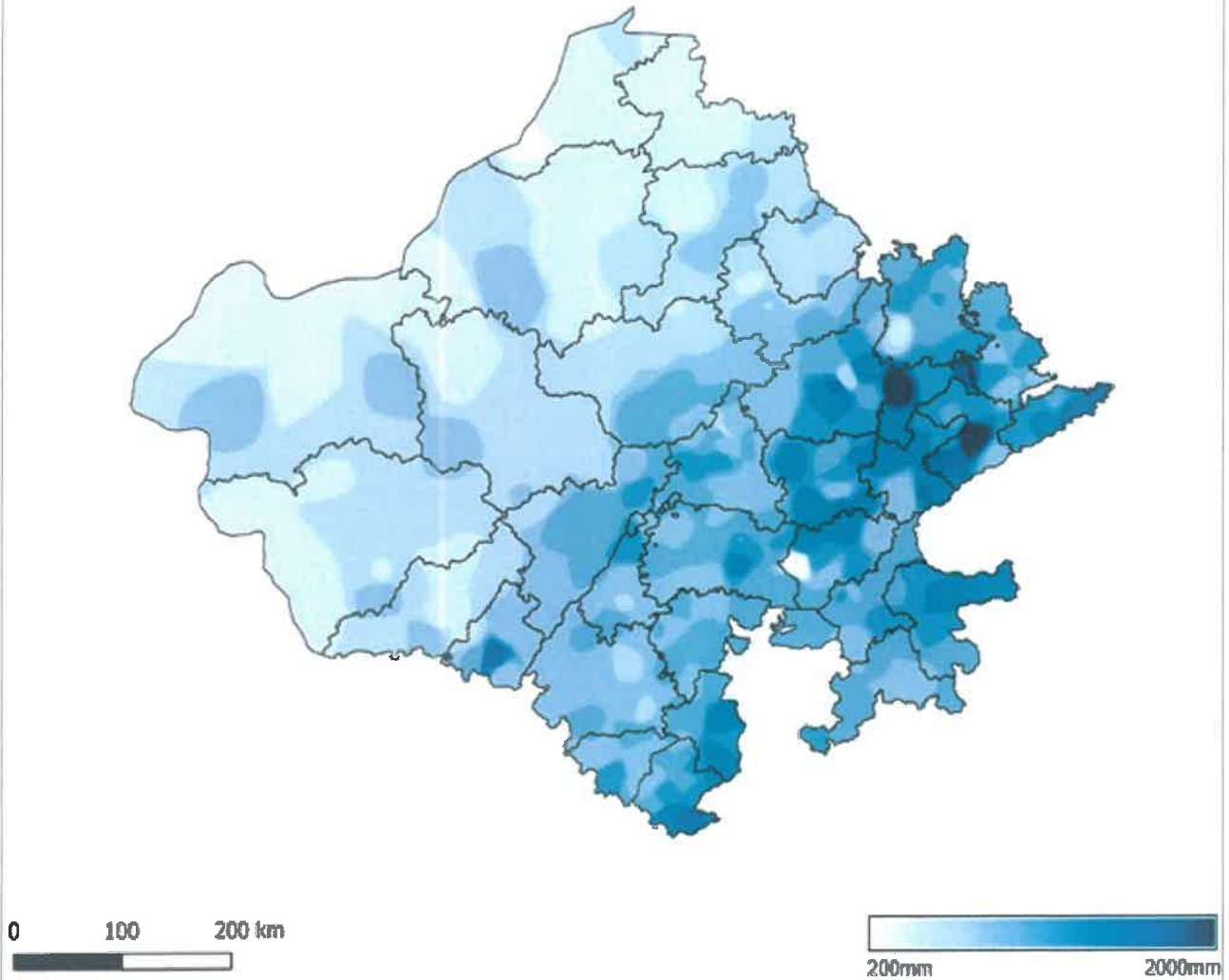


Fig 3.: Station wise Total Seasonal Rainfall

The rainfall recorded during monsoon season (June-September, 2024) over the Rajasthan state as a whole was 678.4 mm against its normal of 435.6 mm which is 156% of its long period average (LPA) based on data of 1971-2020. The top ten highest monsoon rainfall from 1901-2024 is shown in **Table 2**.

Table 2: Top Ten monsoon (1901-2024) for Rajasthan

Sr. No.	Year	Actual rainfall (mm)	Normal Rainfall(mm) (1971-2020)	% Departure
1	1917	844.2	435.6	94
2	1908	682.2	435.6	57
3	2024	678.4	435.6	56
4	1975	665.4	435.6	53
5	1973	641.8	435.6	47
6	1944	627.4	435.6	44
7	2022	596.1	435.6	37
8	2011	593.7	435.6	36
9	2019	583.8	435.6	34
10	1916	570.1	435.6	31

North, Central and northeastern parts of the state received large excess rainfall. Whereas, most of Southern Rajasthan received normal rainfall. In terms of percentage departure from normal, Jhalawar district received least rainfall (97% of LPA) and Jaisalmer district received highest rainfall (248% of LPA).

The monthly rainfall during monsoon season (June t September) for the State as a whole and its two meteorological sub divisions with respective LPA values and departure from normal is given in **Table 3-5**.

Table 3: Rainfall during southwest monsoon 2024 over Rajasthan

Month	Actual Rainfall (in mm)	Long Period Average (in mm)	Departure from Normal (in %)
June	50.3	55	-9
July	162.3	161.4	1
August	344.6	155.7	121
September	121.3	63.5	91

Table 4: Rainfall during southwest monsoon 2024 over East Rajasthan

Month	Actual Rainfall (in mm)	Long Period Average (in mm)	Departure from Normal (in %)
June	75.1	74.7	1
July	231.1	228.6	1
August	421.5	231.5	82
September	192.3	91.8	109

Table 5: Rainfall during southwest monsoon 2024 over West Rajasthan

Month	Actual Rainfall (in mm)	Long Period Average (in mm)	Departure from Normal (in %)
June	30.5	39.4	-22
July	107.5	107.8	0
August	283.3	95.5	197
September	64.8	40.9	58

Both East Rajasthan and West Rajasthan received their highest rainfall during month of August which was 182 % of LPA (large excess) and 297 % of LPA (large excess) respectively.



Fig. 8 depicts the monthly variation for Rajasthan and two subdivisions during 2024 southwest monsoon season and **Fig. 9** depicts the weekly and cumulative weekly rainfall anomaly expressed as percentage departure from the LPA.

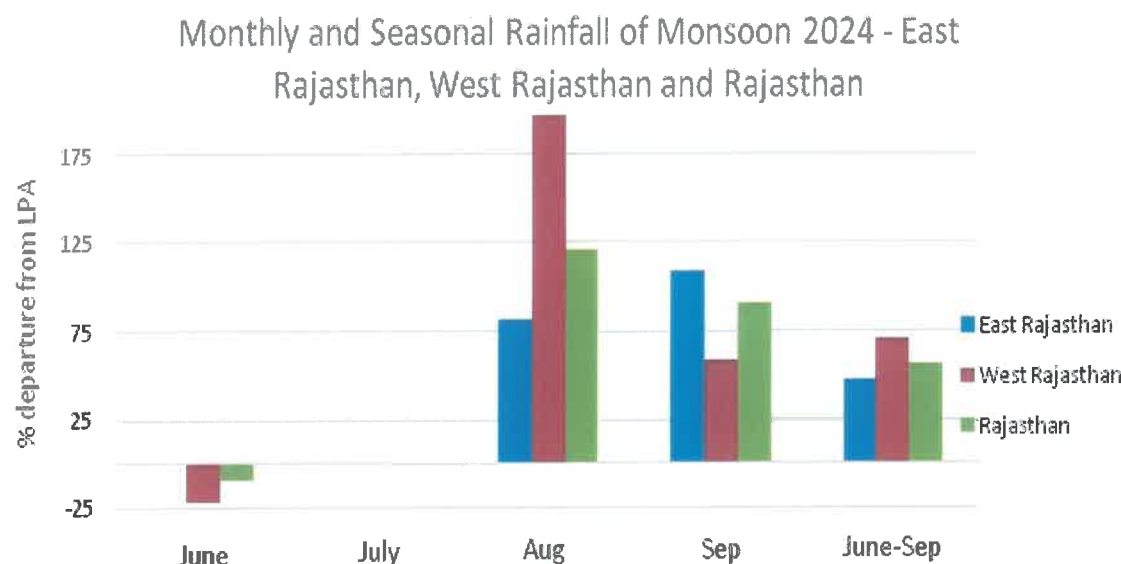


Fig. 8: Monthly and seasonal monsoon rainfall of 2024 over East Rajasthan, West Rajasthan and Rajasthan as whole in % departure.

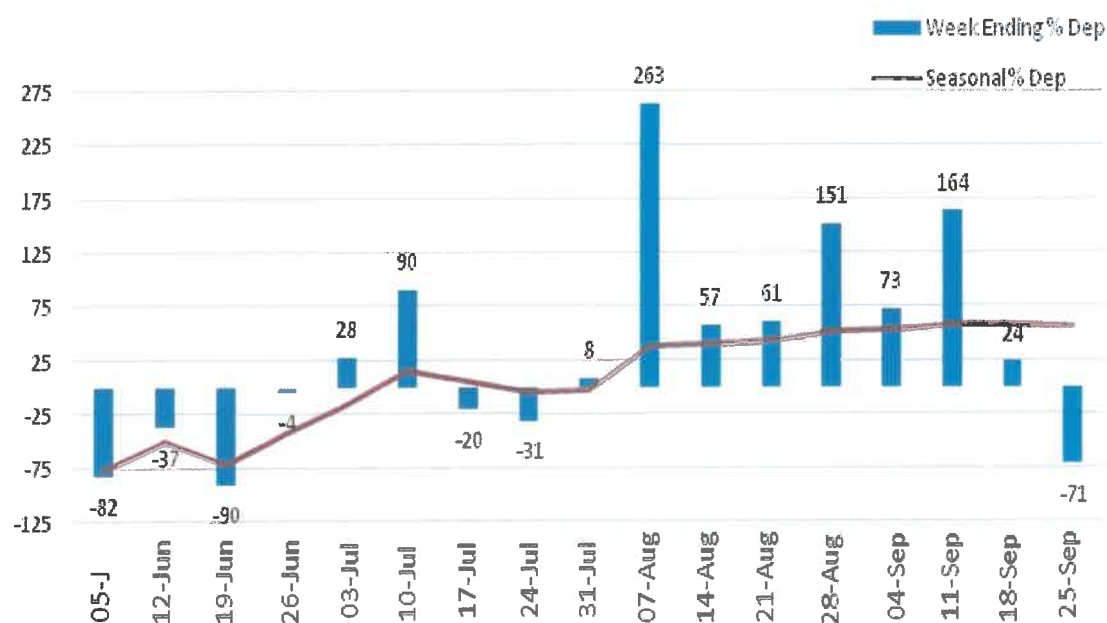


Fig. 9: Week by week progress and cumulative rainfall (% departure from normal) over Rajasthan as whole.

Out of the 10 positive rainfall anomaly weeks, 3 weeks were in July, 4 weeks were in August and 3 weeks were in September. The highest negative weekly rainfall anomaly was recorded during the week ending 19th June (-90% of LPA). The highest positive rainfall anomalies were recorded during the week ending on 07th August (263% of LPA), 11th September (164% of LPA), followed by the week ending on 28th August (151% of LPA). The increase in the weekly rainfall during the season was mainly associated with the low-pressure systems which moved along the monsoon trough.

Table 6: Weekly Rainfall (in mm)

	5-Jun	12-Jun	19-Jun	26-Jun	3-Jul	10-Jul	17-Jul	24-Jul	31-Jul	7-Aug	14-Aug	21-Aug	28-Aug	4-Sep	11-Sep	18-Sep	25-Sep
RAJASTHAN	1	4.7	1.2	16.5	33.2	49.6	31.7	28.9	45.9	142.9	60.4	60.8	73.2	46.6	57.5	15.2	2.8
EAST RAJASTHAN	1	5.2	2.6	26.9	48.5	75.5	41.3	30.9	74.6	142.6	103.3	52.2	114	57.7	97.8	31.6	5.1
AJMER	1.1	1.1	0.8	16.2	59.7	31.3	19.5	21.7	37.8	290.3	20.2	60.5	103.8	52.5	90.6	10.2	1.4
ALWAR	0	0.5	4.7	14.3	42.6	113.9	24.3	46	39.1	90.1	196.3	98.8	55.4	46.9	132.3	33.3	7.1
BANSWARA	0	10.4	0.8	15.9	46.4	53.1	47.3	3.1	127.8	60.1	51.1	10.3	308.4	101.2	144	17.1	9.4
BARAN	1.4	0.3	16.4	20.5	34.3	121	34.3	56.3	74.1	184.6	84.3	110.1	102.9	45	102.3	79.1	0.6
BHARATPUR	0.8	0.1	0.5	34.7	118.1	65.2	27.2	10.7	53.8	60.7	240.9	25.8	31.5	12.2	126.3	95.9	19.5
BHILWARA	0.8	4.1	1.5	24.9	39.4	44	29.4	52.8	109.8	147.8	25.7	57.6	138.2	72.7	98.4	7.2	0.2
BUNDI	0.2	1.3	1.5	34	35.8	108.3	60.8	43	84.8	193.7	100.5	100.5	93.8	39	136	18.5	0
CHITTORGARH	0.1	13.4	5.5	51	33	36.9	38.6	57.4	91	116.2	44.1	26.4	155.5	57.4	82.2	6.5	0.1
DAUSA	0	0	1.4	47.4	53.4	152.8	18.8	20.6	168.2	141.6	335.6	116.8	92.2	26.8	152	66.2	9.6
DHOLPUR	0	0	2.3	18.5	147.8	108.9	54.7	34	68.3	85.2	163.5	74.8	87.7	23.7	108.8	201.7	31.8
DUNGARPUR	0	12.1	0	19.6	63.7	47.8	64.7	2.4	40.5	67	17.3	8	197.4	84.5	89.4	5.6	13.9
JAIPUR	1.8	1.4	1.1	23.7	27.1	93.7	53.7	16.5	46.3	185	168.3	82.4	75.7	69.5	105.9	29.6	3.7
JHALAWAR	6.1	0	4.7	63.5	36	44.9	46.5	57.7	124.2	121.9	34.8	34.8	104.8	23.9	62.5	50.4	0.7
JHUNJHUNU	1.9	3.1	3.3	13.2	38.8	76.1	26.3	11.2	28.6	69.1	135.2	26.1	32.9	11	45.5	15.4	13.1
KARALI	0	0	0.3	26.8	42.8	135.8	27.8	18.8	128.2	139.7	322.7	62.2	94.7	13.3	141.8	73.8	11.7
KOTA	0	1.5	3.8	35.4	92.4	64.9	38.4	46.1	112.6	127.2	81.6	52.2	101.9	38.7	71	30.6	0
PRATAPGARH	0	17.3	0	40.6	46.4	52	25.6	7.6	129.6	129.2	75.8	1.6	268.4	102.6	146.4	27.2	6.8
RAJSAMAND	0.9	16	4.4	12.4	69.9	31	33.3	39.6	43.3	187	8.6	41	142.7	54.6	78.6	19.4	1.1
SAWAI MADHOPUR	0.4	0.3	0.6	38.6	64.9	122.7	11.4	33	127.7	211.6	248.4	70	114.3	41.3	112.1	81.1	1.7
SIKAR	5.3	1.1	2.9	16.5	37.8	73.9	43.5	11.1	24.7	109.8	89.2	57.8	22.8	63	54.9	8.4	5.5
SIROHI	0	0	0	6.5	59.7	34.7	85.5	25.2	66.3	147	47.9	9.3	167.2	100.2	142.5	11.7	4.6
TONK	0	3.2	1.1	30.5	31.5	175.4	81.4	40.5	91.1	242.5	133.4	57.1	84.3	41.5	78.6	16.8	2.3
UDAIPUR	0	20.6	0.2	25.7	36.7	31.6	47.2	23.8	49.2	79.9	6.7	7	163.5	109.4	65.5	3.4	4.5
WEST RAJASTHAN	0.9	4.4	0.1	8.2	21	28.9	24.1	27.4	23.1	143.2	26.3	67.6	40.8	37.8	25.4	2.1	0.9
BARMER	0	2.1	0	17.2	14.2	11.7	17.9	45.7	17.7	114.6	0.8	51.5	60	57.9	30.4	0.4	0.1
BIKANER	0.3	2.6	0	1.3	8	39.5	33.6	9.9	36	112.8	55.7	86.8	16.6	17	2.3	0.1	0
CHURU	3.3	0	0.6	12.7	56.8	55.3	45.2	27.4	42	116.3	53.5	22.9	26.8	37.8	28.6	1.1	6
HANUMANGARH	1.1	6.4	0	9.3	9.7	57.3	24	9.9	10.6	85	31.4	27.2	21	28.7	2.6	0	3.9
JAISALMER	0	10.9	0	4.6	11.6	10	0.4	37.3	12.1	172.3	16.5	94.1	13.9	34.1	9.6	0.1	0
JALORE	0	1.3	0	7.6	17.9	5.1	52.9	36.1	30.4	126.4	13.4	10.1	61.6	49.8	44.6	2.3	3.8
JODHPUR	0	4.2	0	1.8	32.8	23.6	6.1	28.8	6.7	163.7	27.7	82.5	48.8	36.4	36.3	8.3	0
NAGAU	5.7	0.3	0.2	8.2	29.2	61.2	62.9	16.1	42.5	170.1	34	96.2	46.6	34.7	39.9	6.3	0.2
PALI	0	3.9	0	11.4	39	27.5	14.8	27	32.3	263.5	8.6	70	128.1	58	92.8	25.1	0.6
SRI GANGANAGAR	0.8	7.2	0	23.5	14.6	37.8	29.7	12.4	8.9	53.6	22.8	18.6	41.8	36.3	0	0	0

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Encl-7

PMSS & CO.

Chartered Accountants

GSTIN: 06AAHFP9830G1Z2

PAN: AAHFP9830G

Head Office: 118 B, G.F., Sector-30-33,
Indraprastha Colony, Faridabad-121003Email: guptaak990@gmail.com

M.No. 9871325500

Certificate

Name of the Company	Power Grid Bikaner Transmission System Ltd. having its Registered Office at B-9, Qutub Institutional Area, Katwaria Sarai, New Delhi-110016
Name of the Region	Northern Region-I
Name of the Project	Transmission System for Evacuation of Power from Rajasthan REZ PH-IV (Part-1) (Bikaner Complex) Part-E
Name of the Element	400/220 kV, 500 MVA T&R Make ICT-6 along with associated bays at 400/220 kV Bikaner-II SS
Date of Commercial Operation	30.12.2024

					Rs in Laacs
S/N	Particulars	Capital Cost	IEDC	IDC	Total
1	Expenditure up to 29.12.2024 (DOCO 30.12.2024)	3095.70	182.65	58.78	3,337.13
2	Estimated Expenditure from 30.12.2024 to 31.03.2025	776.97			776.97
3	Estimated Expenditure from 01.04.2025 to 31.03.2026	222.00			222.00
4	Estimated Expenditure from 01.04.2026 to 31.03.2027	110.99			110.99
	Total	4,205.66	182.65	58.78	4,447.09

- a) We have verified the expenditure mentioned at Sl. No. 1 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 31.12.2024
- b) The Estimated Expenditure mentioned at Sl. No. 2 to 4 are based on Management estimates.

Place: Faridabad

Date: 24/04/2025

PMSS AND CO.

Chartered Accountants

FRN: 019667N

Ajay Kumar
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Ajay Kumar Gupta

Partner

M.No.095714

UDIN: 25095714BMISXY7856



PMSS & Co.

CHARTERED ACCOUNTANTS

118 B.G.F. INDRAPRASTHA COLONY, SECTOR 33, FARIDABAD-121 003

CERTIFICATE

Name of the Company

Name of the Region

Name of the Project

Name of the Element

Date of Commercial Operation

Power Grid Bikaner Transmission System Ltd. having its Registered Office at B-9, Qutub Institutional Area, Katwaria Sarai, New Delhi-110016
Northern Region-I
Transmission System for Evacuation of Power from Rajasthan REZ PH-IV (Part-I) (Bikaner Complex) Part-E
400/220 kV, 500 MVA T&R Make ICT-6 along with associated bays at 400/220 kV Bikaner-II SS
30.12.2024

S/N	Particulars	Freehold Land	Leasehold Land	Building and Civil Works	Tr. Line	Sub Station	OPGW	Communication System excl. OPGW	IT Equipment Incl. software, UNMS, URDMS, EMS, Cyber Security System, REMC, WAMS, SCADA System	Batteries	Total
1	Expenditure up to 29.12.2024 (DOCO 30.12.2024)	-	-	-	-	3,320.66	-	-	16.47	-	3337.13
2	Estimated Expenditure from 30.12.2024 to 31.03.2025	-	-	-	-	757.42	-	-	19.55	-	776.97
3	Estimated Expenditure from 01.04.2025 to 31.03.2026	-	-	-	-	216.41	-	-	5.59	-	222.00
4	Estimated Expenditure from 01.04.2026 to 31.03.2027	-	-	-	-	108.20	-	-	2.79	-	110.99
	Total	0.00	0.00	0.00	0.00	4402.69	0.00	0.00	44.40	0.00	4447.09

Rs in Lacs

S/N	Particulars	TL	Sub Station Incl Communication System & 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)	-	4,205.66	-	4205.66
2	Initial Spares included above	-	221.14	-	221.14

- a) We have verified the expenditure mentioned at Sr. No. 1 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 31.12.2024
- b) The Estimated Expenditure mentioned at Sr. No. 2 to 4 are based on Management estimates.

PMSS & Co.

Chartered Accountants

FRN-019667N

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Ajay Kumar Gupta

Date: 2025.04.24

Time: 19:48:30

Ajay Kumar Gupta

Partner

M.No. 095714

UDIN 25095714BMISXY7856

Place:- Faridabad

Date:- 24.04.2025





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

M.No. 9871325500

Certificate

Name of the Company		Power Grid Bikaner Transmission System Ltd. having its Registered Office at B-9, Qutub Institutional Area, Katwaria Sarai, New Delhi-110016			
Name of the Region		Northern Region-I			
Name of the Project		Transmission System for Evacuation of Power from Rajasthan REZ PH-IV (Part-1) (Bikaner Complex) Part-E			
Name of the Element		400/220 kV, 500 MVA ICT-7 along with associated bays at 400/220 kV Bikaner-II SS			
Date of Commercial Operation		03.02.2025			
		Rs in Lacs			
S/N	Particulars	Capital Cost	IEDC	IDC	Total
1	Expenditure up to 02.02.2025 (DOCO 03.02.2025)	3127.34	184.51	52.72	3,364.57
2	Estimated Expenditure from 03.02.2025 to 31.03.2025	754.82			754.82
3	Estimated Expenditure from 01.04.2025 to 31.03.2026	215.66			215.66
4	Estimated Expenditure from 01.04.2026 to 31.03.2027	107.83			107.83
	Total	4,205.65	184.51	52.72	4,442.88
a) We have verified the expenditure mentioned at Sl. No. 1 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 28.02.2025					
b) The Estimated Expenditure mentioned at Sl. No. 2 to 4 are based on Management estimates.					

Place: Faridabad

Date: 24/04/2025

PMSS AND CO.

Chartered Accountants

FRN: 019667N

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Ajay Kumar Gupta

Partner

M.No.095714

UDIN: 25095714BMISXX5105



PMSS & Co.

CHARTERED ACCOUNTANTS

118 B.G.F. INDRAPRASTHA COLONY, SECTOR 33, FARIDABAD-121 003

CERTIFICATE

Name of the Company

Name of the Region

Name of the Project

Name of the Element

Date of Commercial Operation

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

Northern Region-I

Transmission System for Evacuation of Power from Rajasthan REZ PH-IV (Part-I) (Bikaner Complex) Part-E

400/220 kV, 500 MVA ICT-7 along with associated bays at 400/220 kV Bikaner-II SS

03.02.2025

S/N	Particulars	Freehold Land	Leasehold Land	Building and Civil Works	Tr. Line	Sub Station	OPGW	Communication System excl. OPGW	I. Equipment incl. software, UNMS, URTDSM, EMS, Cyber Security System, REMC, WAMS, SCADA	Batteries	Total
1	Expenditure up to 02.02.2025 (DOCO 03.02.2025)	-	-	-	-	3,347.59	-	-	16.98	-	3364.57
2	Estimated Expenditure from 03.02.2025 to 31.03.2025	-	-	-	-	735.33	-	-	19.49	-	754.82
3	Estimated Expenditure from 01.04.2025 to 31.03.2026	-	-	-	-	210.09	-	-	5.57	-	215.66
4	Estimated Expenditure from 01.04.2026 to 31.03.2027	-	-	-	-	105.05	-	-	2.78	-	107.83
	Total	0.00	0.00	0.00	0.00	4398.06	0.00	0.00	44.82	0.00	4442.88

Rs in Lacs

S/N	Particulars	TL	Sub Station incl Communication System & 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)	-	4,205.66	-	4205.66
2	Initial Spares included above	-	221.14	-	221.14

- a) We have verified the expenditure mentioned at Sr. No. 1 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 28.02.2025
- b) The Estimated Expenditure mentioned at SL No. 2 to 4 are based on Management estimates.



Place:- Faridabad

Date:- 24.04.2025

PMSS & Co.

Chartered Accountants

FRN-019667N

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Gupta

Date: 2025.04.24

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Ajay Kumar Gupta

Partner

M.No. 095714

UDIN 250957148MISXX5105

POWERGRID CORPORATION OF INDIA LTD.														ICT-6				
400/220KV, 500 MVA T&R Make ICT-6 along with associated bays at 400/220KV Bikaner-II SS																		
Transmission System for Evacuation of Power from Rajasthan REZ PHJV (Part-I) (Bikaner Complex) Part-E																		
Project Name		ADD Cap Details/Liability Flow Statement																
Asset No.	Headwise /Partywise	Particulars ^a	Year of Actual Capitalisation	Outstanding Liability as on COD/31st March 2024*	Discharge						Reversal (24-29)	Additional Liability Recognized (Differed work for execution)					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)
	M/s TRANSFORMERS & RECTIFIERS & M/s. Shyam Indus Power	Sub Station	30.12.2024	475.59	332.92	95.12	47.55	0.00	0.00	475.59	0.00	424.50	121.29	60.65	0.00	0.00	0.00	
Asset-1	M/s Shyam Indus Power Solutions Pvt. Lt	I. T Equipment incl. software, etc	30.12.2024	2.28	1.59	0.46	0.23	0.00	0.00	2.28	0.00	17.96	5.13	2.56	0.00	0.00	0.00	
		Accrual IDC	30.12.2024	35.15	35.15	0.00	0.00	0.00	0.00	35.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
All Works completed within Cut-off Date																		



Statement showing IDC Discharged upto DOCO										
Project:	Transmission System for evacuation of power from Rajasthan Ph-IV (Part-I) [Bikaner Complex] Part-E									
Element:	400/220 kV, 500 MVA T&R Make ICT-6 along with associated bays at 400/220 kV Bikaner-II SS									
DOCO: Actual	30-Dec-24	Amount	Interest Rate	Drawl Date	Total IDC	Annual Interest Payment Date upto DOCO	Interest Discharged upto DOCO	Annual Interest Payment Date after DOCO	24-25	25-26
Loans		2.33	7.70%	08-Jan-24	0.18	03-Oct-24	0.13	03-Jan-25	0.04	
BOND-LXXIV		0.35	7.65%	12-Jan-24	0.03	03-Oct-24	0.02	03-Jan-25	0.01	
BOND-LXXV		1.11	7.65%	19-Jan-24	0.08	03-Oct-24	0.06	03-Jan-25	0.02	
BOND-LXXVI		0.31	7.65%	23-Jan-24	0.02	03-Oct-24	0.02	03-Jan-25	0.01	
BOND-LXXVII		4.59	7.65%	24-Jan-24	0.33	03-Oct-24	0.24	03-Jan-25	0.09	
BOND-LXXVIII		0.68	7.65%	23-Feb-24	0.04	03-Oct-24	0.03	03-Jan-25	0.01	
BOND-LXXIX		24.17	7.35%	05-Apr-24	1.31	03-Oct-24	0.87	03-Jan-25	0.44	
BOND-LXXX		43.86	7.55%	23-Apr-24	2.28	03-Oct-24	1.46	03-Jan-25	0.82	
BOND-LXXXI		95.24	7.55%	23-Apr-24	4.94	03-Oct-24	3.17	03-Jan-25	1.77	
BOND-LXXXII		55.81	7.55%	29-Apr-24	2.83	03-Oct-24	1.79	03-Jan-25	1.04	
BOND-LXXXIII		13.09	7.55%	03-May-24	0.65	03-Oct-24	0.41	03-Jan-25	0.24	
BOND-LXXXIV		31.78	7.55%	06-May-24	1.56	03-Oct-24	0.97	03-Jan-25	0.59	
BOND-LXXXV		37.51	7.55%	16-May-24	1.77	03-Oct-24	1.07	03-Jan-25	0.70	
BOND-LXXXVI		89.96	7.55%	20-May-24	3.24	03-Oct-24	1.94	03-Jan-25	1.30	
BOND-LXXXVII		0.09	7.55%	22-May-24	0.00	03-Oct-24	0.00	03-Jan-25	0.00	
BOND-LXXXVIII		10.26	7.55%	24-May-24	0.47	03-Oct-24	0.28	03-Jan-25	0.19	
BOND-LXXXIX		6.25	7.55%	30-May-24	0.28	03-Oct-24	0.16	03-Jan-25	0.12	
BOND-LXXXX		5.77	7.55%	04-Jun-24	0.25	03-Oct-24	0.14	03-Jan-25	0.11	
BOND-LXXXXI		41.40	7.55%	07-Jun-24	1.76	03-Oct-24	0.98	03-Jan-25	0.77	
BOND-LXXXXII		16.53	7.55%	11-Jun-24	0.69	03-Oct-24	0.36	03-Jan-25	0.31	
BOND-LXXXXIII		90.80	7.55%	11-Jun-24	3.79	03-Oct-24	2.10	03-Jan-25	1.69	
BOND-LXXXXIV		5.67	7.55%	14-Jun-24	0.23	03-Oct-24	0.13	03-Jan-25	0.11	
BOND-LXXXXV		1.18	7.55%	25-Jun-24	0.05	03-Oct-24	0.02	03-Jan-25	0.02	
BOND-LXXXXVI		94.43	7.55%	27-Jun-24	3.63	03-Oct-24	1.88	03-Jan-25	1.76	
BOND-LXXXXVII		1.36	7.55%	28-Jun-24	0.05	03-Oct-24	0.03	03-Jan-25	0.03	
BOND-LXXXXVIII		44.17	7.55%	04-Jul-24	1.94	03-Oct-24	0.81	03-Jan-25	0.82	
BOND-LXXXXIX		13.33	7.55%	05-Jul-24	0.49	03-Oct-24	0.24	03-Jan-25	0.25	
BOND-LXXXXX		13.05	7.55%	05-Jul-24	0.48	03-Oct-24	0.24	03-Jan-25	0.24	
BOND-LXXXXXI		17.73	7.55%	09-Jul-24	0.64	03-Oct-24	0.31	03-Jan-25	0.33	
BOND-LXXXXXII		19.26	7.55%	10-Jul-24	0.69	03-Oct-24	0.33	03-Jan-25	0.36	
BOND-LXXXXXIII		40.18	7.55%	11-Jul-24	1.43	03-Oct-24	0.68	03-Jan-25	0.75	
BOND-LXXXXXIV		26.16	7.55%	24-Jul-24	0.86	03-Oct-24	0.37	03-Jan-25	0.49	
BOND-LXXXXXV		28.42	7.38%	29-Jul-24	0.88	03-Oct-24	0.37	03-Jan-25	0.52	
BOND-LXXXXXVI		38.71	7.38%	30-Jul-24	1.20	03-Oct-24	0.49	03-Jan-25	0.70	
BOND-LXXXXXVII		41.12	7.38%	30-Jul-24	1.27	03-Oct-24	0.52	03-Jan-25	0.75	
BOND-LXXXXXVIII		0.78	7.38%	02-Aug-24	0.02	03-Oct-24	0.01	03-Jan-25	0.01	
BOND-LXXXXXIX		13.20	7.38%	05-Aug-24	0.39	03-Oct-24	0.15	03-Jan-25	0.24	
BOND-LXXXXXX		10.08	7.38%	22-Aug-24	0.26	03-Oct-24	0.08	03-Jan-25	0.18	
BOND-LXXXXXXI		25.81	7.38%	28-Aug-24	0.65	03-Oct-24	0.18	03-Jan-25	0.47	
BOND-LXXXXXXII		20.06	7.38%	28-Aug-24	0.50	03-Oct-24	0.13	03-Jan-25	0.37	
BOND-LXXXXXXIII		23.51	7.38%	30-Aug-24	0.58	03-Oct-24	0.15	03-Jan-25	0.43	
BOND-LXXXXXXIV		3.13	7.38%	05-Sep-24	0.07	03-Oct-24	0.02	03-Jan-25	0.06	
BOND-LXXXXXXV		10.35	7.38%	05-Sep-24	0.24	03-Oct-24	0.05	03-Jan-25	0.19	
BOND-LXXXXXXVI		16.84	7.38%	17-Sep-24	0.35	03-Oct-24	0.05	03-Jan-25	0.31	
BOND-LXXXXXXVII		5.45	7.38%	18-Sep-24	0.11	03-Oct-24	0.01	03-Jan-25	0.10	
BOND-LXXXXXXVIII		7.46	7.38%	24-Sep-24	0.15	03-Oct-24	0.01	03-Jan-25	0.14	
BOND-LXXXXXXIX		82.62	7.38%	25-Sep-24	1.60	03-Oct-24	0.10	03-Jan-25	1.50	
BOND-LXXXXXXX		8.57	7.38%	26-Sep-24	0.16	03-Oct-24	0.01	03-Jan-25	0.16	



BOND-LXXVIII	13.59	7.38%	27-Sep-24	0.26	03-Oct-24	0.01	03-Jan-25	0.25
BOND-LXXVIII	0.31	7.38%	30-Sep-24	0.01	03-Oct-24	0.00	03-Jan-25	0.01
BOND-LXXVIII	3.40	7.38%	01-Oct-24	0.06	01-Oct-24	0.00	03-Jan-25	0.06
BOND-LXXVIII	0.59	7.38%	07-Oct-24	0.01	07-Oct-24	0.00	03-Jan-25	0.01
BOND-LXXIX	5.60	7.08%	25-Oct-24	0.07	25-Oct-24	0.00	03-Jan-25	0.07
BOND-LXXIX	1.89	7.08%	25-Oct-24	0.02	25-Oct-24	0.00	03-Jan-25	0.02
BOND-LXXIX	0.94	7.08%	25-Oct-24	0.01	25-Oct-24	0.00	03-Jan-25	0.01
BOND-LXXIX	4.33	7.08%	25-Oct-24	0.06	25-Oct-24	0.00	03-Jan-25	0.06
BOND-LXXIX	3.37	7.08%	29-Oct-24	0.04	29-Oct-24	0.00	03-Jan-25	0.04
BOND-LXXIX (Repaid on 09.01.2025 and replaced with proposed loan subsequentlly)	1012.10	7.08%	29-Oct-24	12.17	29-Oct-24	0.00	03-Jan-25	12.17
BOND-LXXIX	23.46	7.08%	29-Oct-24	0.26	29-Oct-24	0.00	03-Jan-25	0.26
BOND-LXXIX	23.46	7.08%	29-Oct-24	0.26	29-Oct-24	0.00	03-Jan-25	0.26
BOND-LXXIX	3.49	7.08%	29-Oct-24	0.04	29-Oct-24	0.00	03-Jan-25	0.04
BOND-LXXIX	8.30	7.08%	05-Nov-24	0.09	05-Nov-24	0.00	03-Jan-25	0.09
BOND-LXXIX	1.99	7.08%	29-Nov-24	0.01	29-Nov-24	0.00	03-Jan-25	0.01
BOND-LXXIX	40.11	7.08%	03-Dec-24	0.21	03-Dec-24	0.00	03-Jan-25	0.21
BOND-LXXIX	0.00	7.08%	04-Dec-24	0.00	04-Dec-24	0.00	03-Jan-25	-
Processed Loan (2024-25)	24.60			0.00		0.00		
Total	2335.99			58.78		23.64		35.15
Total IDC as per Cost Certificate	58.78							
IDC Discharged upto DOCO	23.64							
Accrual IDC upto DOCO (To be Discharged during 2024-2025)	35.15							
Accrual IDC upto DOCO (To be Discharged during 2025-2026)	0.00							
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.								



Statement showing IDC Discharged upto DOCO										
Project:	Transmission System for evacuation of power from Rajasthan Ph-IV (Part-I) [Bikaner Complex] Part-E									
Element:	400/220 KV, 500 MVA ICT-7 along with 400KV Main Bay 435 & Tie Bay 434 and 220 KV Bay 221 at Bikaner-2 (PBTSIL)									
DOCO: Actual	03-Feb-25	Amount	Interest Rate	Drawl Date	Total IDC	Annual Interest Payment Date upto DOCO	Interest Discharged upto DOCO	Annual Interest Payment Date after DOCO	24-25	25-26
Loans										
BOND-LXXIV		1.60	7.70%	08-Jan-24	0.13	03-Jan-25	0.12	03-Apr-25		0.01
BOND-LXXV		0.24	7.65%	12-Jan-24	0.02	03-Jan-25	0.02	03-Apr-25		0.00
BOND-LXXVI		0.76	7.65%	19-Jan-24	0.06	03-Jan-25	0.06	03-Apr-25		0.01
BOND-LXXVII		0.21	7.65%	23-Jan-24	0.02	03-Jan-25	0.02	03-Apr-25		0.00
BOND-LXXVIII		3.14	7.65%	24-Jan-24	0.25	03-Jan-25	0.23	03-Apr-25		0.02
BOND-LXXIX		0.01	7.65%	30-Jan-24	0.00	03-Jan-25	0.00	03-Apr-25		0.00
BOND-LXXX		0.47	7.65%	23-Feb-24	0.03	03-Jan-25	0.03	03-Apr-25		0.00
BOND-LXXXI		2.20	7.65%	29-Feb-24	0.16	03-Jan-25	0.14	03-Apr-25		0.02
BOND-LXXXII		6.96	7.35%	05-Apr-24	0.43	03-Jan-25	0.38	03-Apr-25		0.05
BOND-LXXXIII		72.16	7.55%	23-Apr-24	4.27	03-Jan-25	3.78	03-Apr-25		0.49
BOND-LXXXIV		48.73	7.55%	23-Apr-24	2.88	03-Jan-25	2.55	03-Apr-25		0.09
BOND-LXXXV		16.06	7.55%	29-Apr-24	0.93	03-Jan-25	0.82	03-Apr-25		0.33
BOND-LXXXVI		3.77	7.55%	03-May-24	0.22	03-Jan-25	0.19	03-Apr-25		0.11
BOND-LXXXVII		9.14	7.55%	06-May-24	0.52	03-Jan-25	0.45	03-Apr-25		0.03
BOND-LXXXVIII		10.80	7.55%	16-May-24	0.59	03-Jan-25	0.51	03-Apr-25		0.06
BOND-LXXXIX		20.13	7.55%	20-May-24	1.08	03-Jan-25	0.94	03-Apr-25		0.07
BOND-LXXXX		0.03	7.55%	22-May-24	0.00	03-Jan-25	0.00	03-Apr-25		0.14
BOND-LXXXXI		2.95	7.55%	24-May-24	0.16	03-Jan-25	0.14	03-Apr-25		0.00
BOND-LXXXXII		1.80	7.55%	30-May-24	0.09	03-Jan-25	0.08	03-Apr-25		0.02
BOND-LXXXXIII		60.59	7.55%	04-Jun-24	3.06	03-Jan-25	2.64	03-Apr-25		0.01
BOND-LXXXXIV		1.66	7.55%	04-Jun-24	0.08	03-Jan-25	0.07	03-Apr-25		0.41
BOND-LXXXXV		11.91	7.55%	07-Jun-24	0.59	03-Jan-25	0.51	03-Apr-25		0.01
BOND-LXXXXVI		4.76	7.55%	11-Jun-24	0.23	03-Jan-25	0.20	03-Apr-25		0.08
BOND-LXXXXVII		26.14	7.55%	14-Jun-24	1.28	03-Jan-25	1.10	03-Apr-25		0.03
BOND-LXXXXVIII		1.63	7.55%	14-Jun-24	0.08	03-Jan-25	0.07	03-Apr-25		0.18
BOND-LXXXXIX		0.34	7.55%	25-Jun-24	0.02	03-Jan-25	0.01	03-Apr-25		0.01
BOND-LXXXXX		27.18	7.55%	27-Jun-24	1.24	03-Jan-25	1.06	03-Apr-25		0.00
BOND-LXXXXXI		0.39	7.55%	28-Jun-24	0.02	03-Jan-25	0.02	03-Apr-25		0.19
BOND-LXXXXXII		12.71	7.55%	04-Jul-24	0.56	03-Jan-25	0.48	03-Apr-25		0.00
BOND-LXXXXXIII		3.84	7.55%	05-Jul-24	0.17	03-Jan-25	0.14	03-Apr-25		0.09
BOND-LXXXXXIV		3.75	7.55%	05-Jul-24	0.17	03-Jan-25	0.14	03-Apr-25		0.03
BOND-LXXXXXV		5.10	7.55%	09-Jul-24	0.22	03-Jan-25	0.19	03-Apr-25		0.03
BOND-LXXXXXVI		5.54	7.55%	10-Jul-24	0.24	03-Jan-25	0.20	03-Apr-25		0.04
BOND-LXXXXXVII		11.57	7.55%	11-Jul-24	0.50	03-Jan-25	0.42	03-Apr-25		0.08
BOND-LXXXXXVIII		7.53	7.55%	24-Jul-24	0.30	03-Jan-25	0.25	03-Apr-25		0.05
BOND-LXXXXXIX		8.18	7.38%	29-Jul-24	0.31	03-Jan-25	0.26	03-Apr-25		0.05
BOND-LXXXXXX		11.14	7.38%	30-Jul-24	0.42	03-Jan-25	0.35	03-Apr-25		0.07
BOND-LXXXXXXI		11.83	7.38%	30-Jul-24	0.45	03-Jan-25	0.37	03-Apr-25		0.08
BOND-LXXXXXXII		0.22	7.38%	02-Aug-24	0.01	03-Jan-25	0.01	03-Apr-25		0.00
BOND-LXXXXXXIII		3.80	7.38%	06-Aug-24	0.14	03-Jan-25	0.11	03-Apr-25		0.00
BOND-LXXXXXXIV		2.89	7.38%	22-Aug-24	0.10	03-Jan-25	0.08	03-Apr-25		0.03
BOND-LXXXXXXV		7.43	7.38%	28-Aug-24	0.24	03-Jan-25	0.19	03-Apr-25		0.05
BOND-LXXXXXXVI		5.77	7.38%	29-Aug-24	0.18	03-Jan-25	0.15	03-Apr-25		0.05
BOND-LXXXXXXVII		6.77	7.38%	30-Aug-24	0.21	03-Jan-25	0.17	03-Apr-25		0.04
BOND-LXXXXXXVIII		0.90	7.38%	05-Sep-24	0.03	03-Jan-25	0.02	03-Apr-25		0.05
BOND-LXXXXXXIX		2.88	7.38%	05-Sep-24	0.09	03-Jan-25	0.07	03-Apr-25		0.01
BOND-LXXXXXXX		4.84	7.38%	17-Sep-24	0.14	03-Jan-25	0.10	03-Apr-25		0.02
BOND-LXXXXXXXI		1.57	7.38%	18-Sep-24	0.04	03-Jan-25	0.03	03-Apr-25		0.03
BOND-LXXXXXXXII		141.04	7.38%	23-Sep-24	3.79	03-Jan-25	2.85	03-Apr-25		0.01



BOND-LXXVIII	2.15	7.38%	24-Sep-24	0.06	03-Jan-25	0.04	03-Apr-25	0.01
BOND-LXXVIII	23.78	7.38%	25-Sep-24	0.63	03-Jan-25	0.47	03-Apr-25	0.16
BOND-LXXVIII	2.47	7.38%	26-Sep-24	0.06	03-Jan-25	0.05	03-Apr-25	0.02
BOND-LXXVIII	3.91	7.38%	27-Sep-24	0.10	03-Jan-25	0.08	03-Apr-25	0.03
BOND-LXXVIII	0.09	7.38%	30-Sep-24	0.00	03-Jan-25	0.00	03-Apr-25	0.00
BOND-LXXVIII	5.33	7.38%	01-Oct-24	0.13	03-Jan-25	0.10	03-Apr-25	0.04
BOND-LXXVIII	0.93	7.38%	07-Oct-24	0.02	03-Jan-25	0.02	03-Apr-25	0.01
BOND-LXXIX	8.77	7.08%	25-Oct-24	0.17	03-Jan-25	0.12	03-Apr-25	0.06
BOND-LXXIX	2.98	7.08%	25-Oct-24	0.06	03-Jan-25	0.04	03-Apr-25	0.02
BOND-LXXIX	1.46	7.08%	25-Oct-24	0.03	03-Jan-25	0.02	03-Apr-25	0.01
BOND-LXXIX	6.78	7.08%	25-Oct-24	0.13	03-Jan-25	0.09	03-Apr-25	0.04
BOND-LXXIX	5.28	7.08%	29-Oct-24	0.10	03-Jan-25	0.07	03-Apr-25	0.03
BOND-LXXIX (Repaid on 09.01.2025 and replaced with proposed loan subsequently)	517.69	7.08%	29-Oct-24					
BOND-LXXIX	36.73	7.08%	29-Oct-24	7.23	03-Jan-25	6.43	03-Apr-25	0.80
BOND-LXXIX	36.73	7.08%	29-Oct-24	0.69	03-Jan-25	0.46	03-Apr-25	0.24
BOND-LXXIX	5.46	7.08%	29-Oct-24	0.10	03-Jan-25	0.07	03-Apr-25	0.03
BOND-LXXIX (Repaid on 09.01.2025 and replaced with proposed loan subsequently)	1000.00	7.08%	29-Oct-24					
BOND-LXXIX	12.99	7.08%	05-Nov-24	13.97	03-Jan-25	12.41	03-Apr-25	1.55
BOND-LXXIX	3.11	7.08%	29-Nov-24	0.23	03-Jan-25	0.14	03-Apr-25	0.08
BOND-LXXIX	65.26	7.08%	03-Dec-24	0.04	03-Jan-25	0.02	03-Apr-25	0.02
Proposed Loan (2025-26)	5.54			0.78	03-Jan-25	0.37	03-Apr-25	0.42
Total	2335.20			0.00		0.00		
	52.72			62.72		44.81	0.00	7.92
Total IDC as per Cost Certificate	52.72							
IDC Discharged upto DOCO	44.81							
Accrual IDC upto DOCO (To be Discharged during 2024-2025)	0.00							
Accrual IDC upto DOCO (To be Discharged during 2025-2026)	7.92							
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.								



COMPUTATION OF NOTIONAL IDC

End-10

Element: 400/220 kV, 500 MVA T&R Make ICT-6 along with associated bays at 400/220 kV Bikaner-II SS

DOCO: 30-Dec-24

(Rs. In Lakhs)

Payroll Year	Qtr.	Opening Expense	Exp during the Qtr.	Cumulative exp upto the end of Qtr.	Average Expense	Opening Debt applied	Debt applied during the Qtr.	Repayment during the Qtr.	Cumulative Debt Applied upto the end of Qtr.	Avg. Debt applied	Normative Debt	Normative debt funded through Equity*	Int Rate (Qtr.)	Notional IDC
2023	04	0.00	385.01	385.01	192.51	0.00	9.37	0.00	9.37	4.69	134.76	130.07	1.92	2.49
2024	01	385.01	1162.67	1547.68	966.35	9.37	645.14	0.00	654.51	331.94	676.45	344.51	1.89	6.50
2024	02	1547.68	1327.79	2875.47	2211.58	654.51	523.85	0.00	1178.36	916.44	1548.11	631.67	1.87	11.84
2024	03	2875.47	426.51	3301.98	3088.73	1178.36	1133.03	0.00	2311.39	1744.88	2162.11	412.69	1.82	7.52
														28.35



COMPUTATION OF NOTIONAL IDC

Element: 400/220 kV, 500 MVA T&R Make ICT-7 along with associated bays at 400/220 kV Bikaner-II SS

DOCO: 03-Feb-25

(Rs. In Lakhs)

Payroll Year	Qtr.	Opening Expense	Exp during the Qtr.	Cumulative exp upto the end of Qtr.	Average Expense	Opening Debt applied	Debt applied during the Qtr.	Repayment during the Qtr.	Cumulative Debt Applied upto the end of Qtr.	Avg. Debt applied	Normative Debt	Normative debt funded through Equity*	Int Rate (Qtr.)	Notional IDC
2023	04	0.00	353.98	353.98	176.99	0.00	8.63	0.00	8.63	4.32	123.89	119.57	1.91	2.29
2024	01	353.98	1172.83	1526.81	940.40	8.63	339.75	0.00	348.38	178.51	658.28	479.77	1.89	9.05
2024	02	1526.81	1333.19	2860.00	2193.41	348.38	291.80	0.00	640.18	494.28	1535.39	1041.11	1.87	19.48
2024	03	2860.00	459.73	3319.73	3089.87	640.18	1709.48	0.00	2349.66	1494.92	2162.91	667.99	1.80	12.01
2024	04	3319.73	36.96	3356.69	3338.21	2349.66	0.00	1517.69	831.97	1590.82	2336.75	281.80	1.81	5.10
														47.93



Summary of Tariff

Form No. - 1

Encl-11

Name of the Transmission Licensee:		Power Grid Bikaner Transmission System Ltd	
Project	Transmission System for Evacuation of Power from Rajasthan REZ PH-IV (Part-1) (Bikaner Complex)-Part-E		
Element Description	400/220 kV, 500 MVA T&R Make ICT-6 along with associated bays at 400/220 kV Bikaner-II SS		
Region	Corporate Centre	DOCO Date	Dec 30, 2024

(Amount in Rs. Lakh)

Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
Year Days	365.00	365.00	365.00	366.00	365.00
Tariff Days	92.00	365.00	365.00	366.00	365.00
Depreciation-Form No. 10A	40.46	183.69	191.17	193.66	193.66
Interest on Loan-Form No. 9E	48.13	212.60	207.31	195.86	181.42
Return on Equity-Form No. 8	56.63	255.78	265.79	269.13	269.13
Int. on Working capital-Form No.11	4.13	17.93	18.53	18.86	19.18
Op. and maintenance-Form No.2	45.67	190.83	200.61	211.03	222.59
Total AFC	195.02	860.83	883.41	888.54	885.98

(Petitioner)



Summary of Asset Level Cost

Form No. - 1A

Name of the Transmission Licensee	Power Grid Bikaner Transmission System Ltd		
Project	Transmission System for Evacuation of Power from Rajasthan REZ PH-IV (Part-1) (Bikaner Complex)-Part-E		
Element Description	400/220 kV, 500 MVA T&R Make ICT-6 along with associated bays at 400/220 kV Bikaner-II SS		
Region	Corporate Centre	DOCO Date	Dec 30, 2024

(Amount in Rs. Lakh)

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

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
Building & Civil Works			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
Substations			3,824.46	424.50	121.29	60.65	0.00	0.00	4,430.90
Comm. Sys. excluding Fiber Optic			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
IT/Software/UNMS/URTDMS/			18.89	17.96	5.13	2.56	0.00	0.00	44.54
Batteries			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
Total Capital Cost as per Books			3,843.35	442.46	126.42	63.21	0.00	0.00	4,475.44
Less: Liability			513.02	0.00	0.00	0.00	0.00	0.00	0.00
Add:discharge of liability			0.00	369.66	95.58	47.78	0.00	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
Total Capital incurred			3,330.33	812.52	222.00	110.99	0.00	0.00	4,475.44
Equity	1,214.34		999.10	243.64	60.60	33.30	0.00	0.00	1,342.64
Debt	2,833.46		2,331.23	568.48	155.40	77.69	0.00	0.00	3,132.80

Name of the Transmission Licensee		Power Grid Bikaner Transmission System Ltd	
Project	Transmission System for Evacuation of Power from Rajasthan REZ PH-IV (Part-1) (Bikaner Complex)-Part-E		
Element Description	400/220 kV, 500 MVA T&R Make ICT-6 along with associated bays at 400/220 kV Bikaner-II SS		
Region	Corporate Centre	DOCO Date	Dec 30, 2024

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		
:ICT VI AT BIKANER II	Brownfield	400 KV	1.000										Yes/ No.
:400 KV BAY FOR ICT VI	Brownfield	400 KV		1.000									Yes/ No.
:220 KV BAY FOR ICT VI AT BIKANER II	Brownfield	220 KV			1.000								Yes/ No.

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					7.44	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					5.21	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		33.02	138.00	145.00	152.50	161.00



3. Communication System

Summary:



Particular	2024-25	2025-26	2026-27	2027-28	2028-29
A) Normative O&M					
Transmission Line	0.00	0.00	0.00	0.00	0.00
Substation	45.67	190.83	200.61	211.03	222.59
Communication System	0.00	0.00	0.00	0.00	0.00
Total Normative O&M	45.67	190.83	200.61	211.03	222.59
B) O&M Claimed under Regulation 35 (3)(C) (* The same is not being claimed and will be claimed through separate Petition)					
*Security Expenses	0.00	0.00	0.00	0.00	0.00
*Actual Capital Spare consumed	0.00	0.00	0.00	0.00	0.00
*Insurance Premium Paid	0.00	0.00	0.00	0.00	0.00
Total O&M	45.67	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	Transmission System for Evacuation of Power from Rajasthan REZ PH-IV (Part-1) (Bikaner Complex)-Part-E		
Element Description	400/220 kV, 500 MVA T&R Make ICT-6 along with associated bays at 400/220 kV Bikaner-II SS		
Region	Corporate Centre	DOCO Date	Dec 30, 2024

(Amount in Rs. Lakh)

Particulars	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
Base Rate of Return of Equity (in %)						
Tax Rate (in %)	25.168	25.168	25.168	25.168	25.168	25.168
Effective tax rate (in %)						
Grossed up Rate for ROE of 15.5% (in %)						
Grossed up Rate for ROE of 15.0% (in %)	20.045	20.045	20.045	20.045	20.045	20.045
Target availability - AC System (in %)	98.00	98.00	98.00	98.00	98.00	98.00
Target availability - HVDC System (in %)	96.00	96.00	96.00	96.00	96.00	96.00
Norms for sub-station Bays (Rs Lakh per bay)						
765 kV	51.68	41.34	43.51	45.79	48.20	50.73
400 kV	36.91	29.53	31.08	32.71	34.43	36.23
220 kV	25.84	20.67	21.75	22.90	24.10	25.36
132 kV and below	18.46	15.78	16.61	17.48	18.40	19.35
Norms for Transformers (Rs Lakh per MVA)						
765 kV	0.564	0.262	0.276	0.29	0.305	0.322
400 kV	0.411	0.262	0.276	0.29	0.305	0.322
220 kV	0.282	0.262	0.276	0.29	0.305	0.322
132 kV and below	0.282	0.262	0.276	0.29	0.305	0.322
Norms for Reactor (Rs Lakh per MVAR)						
765 kV	0.00	0.262	0.276	0.29	0.305	0.322
400 kV	0.00	0.262	0.276	0.29	0.305	0.322



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

(Petitioner)



Statement of Capital cost

Form No. -4A

Name of the Transmission Licensee	Power Grid Bikaner Transmission System Ltd		
Project	Transmission System for Evacuation of Power from Rajasthan REZ PH-IV (Part-1) (Bikaner Complex)-Part-E		
Element Description	400/220 kV, 500 MVA T&R Make ICT-6 along with associated bays at 400/220 kV Bikaner-II SS		
Region	Corporate Centre	DOCO Date	Dec 30, 2024

(Amount in Rs. Lakh)

A) Capital Cost

Particular	Accrual Basis	Un-discharged Liabilities	Cash Basis
As on relevant date :2024-25			
a) Opening Gross Block Amount as per books	3,843.35	513.02	3,330.33
b) Amount of (i) IDC (ii) FERV & (iv) Hedging cost included in A(a) above	87.13	35.15	51.98
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above	182.65	0.00	182.65
a) Addition in Gross Block Amount during the period	442.46	0.00	442.46
b) Amount of (i) IDC (ii) 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	4,285.81	143.36	4,142.45
b) Amount of (i) IDC (ii) FERV & (iv) Hedging cost included in C(a) above	87.13	0.00	87.13
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) above	182.65	0.00	182.65
As on relevant date :2025-26			
a) Opening Gross Block Amount as per books	4,285.81	143.36	4,142.45
b) Amount of (i) IDC (ii) FERV & (iv) Hedging cost included in A(a) above	87.13	0.00	87.13

c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above	182.65	0.00	182.65
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a) Addition in Gross Block Amount during the period	126.42	0.00	126.42
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	4,412.23	47.78	4,364.45
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in C(a) above	87.13	0.00	87.13
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) above	182.65	0.00	182.65

As on relevant date :2026-27

a) Opening Gross Block Amount as per books	4,412.23	47.78	4,364.45
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in A(a) above	87.13	0.00	87.13
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above	182.65	0.00	182.65

a) Addition in Gross Block Amount during the period	63.21	0.00	63.21
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	4,475.44	0.00	4,475.44
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in C(a) above	87.13	0.00	87.13
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) above	182.65	0.00	182.65

As on relevant date :2027-28

a) Opening Gross Block Amount as per books	4,475.44	0.00	4,475.44
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in A(a) above	87.13	0.00	87.13
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above	182.65	0.00	182.65



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	4,475.44	0.00	4,475.44
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in C(a) above	87.13	0.00	87.13
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) above	182.65	0.00	182.65

As on relevant date :2028-29

a) Opening Gross Block Amount as per books	4,475.44	0.00	4,475.44
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in A(a) above	87.13	0.00	87.13
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above	182.65	0.00	182.65

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	4,475.44	0.00	4,475.44
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in C(a) above	87.13	0.00	87.13
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) above	182.65	0.00	182.65

B) Flow of liability for the Asset

(Amount in Rs. Lakh)

Particular	2024-2025	2025-2026	2026-2027	2027-2028		
Opening balance of liability	513.02	143.36	47.78	0.00	0.00	0.00
Add: Liability from ACE	0.00	0.00	0.00	0.00	0.00	0.00

Discharge of liability by payment and claimed as ACE	369.66	95.58	47.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Reversal/cancelation (to be entered)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Closing Balance of Admitted liability	143.36	47.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

(Petitioner)



Abstract of Capital Cost Estimates and Schedule of Commissioning for New Project/Element			PART-III FORM-4C
Name of the Transmission Asset:			
400/220kV, 500 MVA T&R Make ICT-6 along with associated bays at 400/220kV Bikaner-II SS			
DOCO: 30.12.2024			
Board of Director/ Agency approving the Capital cost estimates:			
Date of approval of the Capital cost estimates:			
	Present Day Cost	Completed Cost	
Price level of approved estimates	As of End of 3rd Qtr. of the year 2014	As on Scheduled COD of the transmission system/transmission element/Communication System	
		As of End of 3rd Qtr. of the year 2020	
Foreign Exchange rate considered for the Capital cost estimates	1 USD= Rs 61.79 1 Uk Pound= Rs 78.47		
Capital Cost excluding IDC, IEDC & FC			
Foreign Component, if any (In Million US \$ or the relevant Currency)			
Domestic Component (Rs. Lakh)			
Capital cost excluding IDC, FC, FERV & Hedging Cost (Rs. Lakh)	3893.60	4388.31	
IDC, IEDC, FC, FERV & Hedging Cost			
Foreign Component, if any (In Million US \$ or the relevant Currency)			
Domestic Component (Rs Lakh)			
Total IDC, FC, FERV & Hedging Cost (Rs Lakh)	154.20	87.13	
Rate of taxes & duties considered			
Capital cost Including IDC, IEDC, FC, FERV &			
Foreign Component, if any (In Million US \$ or the relevant Currency)			
Domestic Component (Rs Lakh)			
Capital cost Including IDC, IEDC & FC (Rs Lakh)	4047.80	4475.44	
Schedule of Commissioning			
COD of transmission system /transmission element /Communication System	31.12.2024	30.12.2024	
Note: 1. Copy of approval letter by the Board duly certified by the Company secretary should be enclosed 2. Details of Capital Cost are to be furnished as per FORM-5 or 5A as applicable 3. Details of IDC & Financing Charges are to be furnished as per FORM-12(B).			



Name of the Transmission Asset:

400/220KV, 500 MVA T&R Make ICT-6 along with associated bays at 400/220KV Bikaner-II SS

DDCO: 30.12.2024

S. No. (1)	Particulars (2)	As per Original Estimates (3)			As per Revised Cost Estimates (if any) (4)			Actual Capital Expenditure (Gross Block) as on COD as per Books of Accounts (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 JA/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 (11)	Capital Work in Progress as per Books of Account as on COD (12)
		Quantity	Rate	Estimated Cost	Quantity	Rate	Estimated Cost	Quantity	Rate	Estimated Cost							
B.	SUBSTATIONS																
4	Preliminary works & land																
4.1	Design & Engineering																
4.20	Land																
4.30	Site preparation																
4.40	Total Preliminary works & land (4.1+4.2+4.3)																
5.00	Civil Works																
5.10	Control Room & Office Building including HVAC																
5.20	Township & Colony																
5.30	Roads and Drainage																
5.40	Foundation for structures																
5.50	Misc. civil works			4.00						0.00		0.00	4.00				
5.60	Total Civil Works (5.1+5.2+5.3+5.4+5.5)			4.00						0.00		0.00	4.00				
6.00	Substation Equipment																
6.10	Switchgear (CT,PT, Circuit Breaker, Isolator etc)			298.32						236.05		0.40	61.87		8.14		
6.20	Transformers			1970.34						2251.72		214.44	-495.82	On account of bid price received through open competitive bidding	372.23		



Details of all the assets covered in the project

Name of the Transmission Project: TRANSMISSION SYSTEM FOR EVACUATION OF POWER FROM RAJASTHAN REZ PH-IV (PART-I) (BIKANER COMPLEX)-PART-E

Name of the Transmission Asset:
सूचना. 15 नं 3031

PART-III

FORM-5B

400/220kV, 500 MVA T&R Make ICT-6 along with associated bays at 400/220kV Bikaner-II SS

DOC0: 30.12.2024

S. No.	Name of Asset	COD	Delay (in No. of days)	Apportioned approved cost (Rs. Lakh)	Revised cost estimates, if applicable (Rs. Lakh)	Completed Cost (Rs. Lakh)	Covered in the present Petition	
							Yes/No	If No, Petition No.
1	400/220kV, 500 MVA T&R Make ICT-6 along with associated bays at 400/220kV Bikaner-II SS	31.12.2024	NIL	4047.80	-	4475.44	yes	-
Total								

(Petitioner)



**Form-6
(Part-A)**

Actual cash Expenditure upto COD

Name of the Asset:

400/220 kV, 500 MVA T&R Make ICT-6 along with associated bays at 400/220 kV Bikaner-II SS

Name of the Project:

Transmission System for Evacuation of Power from Rajasthan REZ PH-IV (Part-1) (Bikaner Complex) Part-E

DOCO

30.12.2024

Particulars	Upto 31.03.2024	From 01.04.2024 to DOCO
Actual Payment to contractors/suppliers during the Year	268.04	2827.66
Cumulative Cash payments at the end of the year	268.04	3095.70
% of cumulative cash Payment on Total Payment up to Actual COD	9.00%	100.00%



Financial Package upto COD

Form No. - 6

Name of the Transmission Licensee	Power Grid Bikaner Transmission System Ltd		
Project	Transmission System for Evacuation of Power from Rajasthan REZ PH-IV (Part-1) (Bikaner Complex)-Part-E		
Element Description	400/220 kV, 500 MVA T&R Make ICT-6 along with associated bays at 400/220 kV Bikaner-II SS		
Region	Corporate Centre	DOC Date	Dec 30, 2024

(Amount in Rs. Lakh)

Particulars	Financial Package as Approved		Financial Package as on COD 01/04/2024		As Admitted on COD 01/04/2024	
	Currency	Amount	Currency	Amount	Currency	Amount
Loans						0.00
Loan-Domestic						0.00
Loan-Foreign						0.00
Total Loans	INR	2,833.46	INR	2,331.23		0.00
Equity						0.00
Foreign						0.00
Domestic	INR	1,214.34	INR	999.10		0.00
Total Equity	INR	1,214.34	INR	999.10		0.00
Debt Equity Ratio					70:30	
Total Cost	INR	4,047.80	INR	3,330.33		0.00

Particulars	Debt	Equity	Total	
Addcap for 2024 - 2025			812.12	
Addcap for 2025 - 2026			222.00	
Addcap for 2026 - 2027			110.99	
Addcap for 2027 - 2028			0.00	
		128		



Addcap for 2028 - 2029			0.00	
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Particulars	Actual	Normative	
Addcap for 2024 - 2025			
Equity		243.64	
Debt		568.48	
Total		812.12	
Addcap for 2025 - 2026			
Equity		66.60	
Debt		155.40	
Total		222.00	
Addcap for 2026 - 2027			
Equity		33.30	
Debt		77.69	
Total		110.99	
Addcap for 2027 - 2028			
Equity		0.00	
Debt		0.00	
Total		0.00	
Addcap for 2028 - 2029			
Equity		0.00	
Debt		0.00	
Total		0.00	
Total Capital cost with Addcap		4,475.44	



Statement of Additional Capitalisation after COD

Form No. - 7

Name of the Transmission Licensee	Power Grid Bikaner Transmission System Ltd		
Project	Transmission System for Evacuation of Power from Rajasthan REZ PH-IV (Part-1) (Bikaner Complex)-Part-E		
Element Description	400/220 kV, 500 MVA T&R Make ICT-6 along with associated bays at 400/220 kV Bikaner-II SS		
Region	Corporate Centre	DOCO Date	Dec 30, 2024

(Amount in Rs. Lakh)

Particulars	Addition into Gross Block as per books of Account during the year (2)	De-Cap into Gross Block as per books of Account during the year	Less: Deductions dr. the year towards				Add: Discharge of earlier admitted liability	ACE on cash basis for tariff purpose	Admitted Cost in final tariff (Rs Lakh)
			Grants Received (if any) (3)	Asset pertaining to other businesses (If any) (4)	Other Deduction (if any) (5)	Less: Undischarged liability included in (2-4-5)			
ACE for the year :2024-25 (Actual/Projected)									
Land (Freehold Land)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building & Civil Works	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Transmission Lines	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Substations	424.50	0.00	0.00	0.00	0.00	0.00	367.90	792.40	0.00
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Land (Leasehold)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IT/Software/UNMS/URTDSM/SCADA,etc	17.96	0.00	0.00	0.00	0.00	0.00	1.76	19.72	0.00
Batteries	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	442.46	0.00	0.00	0.00	0.00	0.00	369.66	812.12	0.00
ACE for the year :2025-26 (Actual/Projected)									



Land (Freehold Land)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building & Civil Works	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Transmission Lines	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Substations	121.29	0.00	0.00	0.00	0.00	0.00	95.12	216.41	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	5.13	0.00	0.00	0.00	0.00	0.00	0.46	5.59	0.00
Batteries	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	126.42	0.00	0.00	0.00	0.00	0.00	95.58	222.00	0.00
ACE for the year :2026-27 (Actual/Projected)									
Land (Freehold Land)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building & Civil Works	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Transmission Lines	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Substations	60.65	0.00	0.00	0.00	0.00	0.00	47.55	108.20	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	2.56	0.00	0.00	0.00	0.00	0.00	0.23	2.79	0.00
Batteries	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	63.21	0.00	0.00	0.00	0.00	0.00	47.78	110.99	0.00
ACE for the year :2027-28 (Actual/Projected)									
Land (Freehold Land)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building & Civil Works	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

(Petitioner)




Financing of Additional Capitalisation

Form No. - 7A

Name of the Transmission Licensee	Power Grid Bikaner Transmission System Ltd		
Project	Transmission System for Evacuation of Power from Rajasthan REZ PH-IV (Part-1) (Bikaner Complex)-Part-E		
Element Description	400/220 kV, 500 MVA T&R Make ICT-6 along with associated bays at 400/220 kV Bikaner-II SS		
Region	Corporate Centre	DOCO Date	Dec 30, 2024

(Amount in Rs. Lakh)

Financial Year (Starting of COD)	Actual/Projected					Admitted				
	2024-25	2025-26	2026-27	2027-28	2028-29	2024-25	2025-26	2026-27	2027-28	2028-29
Amount capitalized in Work/ Equipment										
Financing Details										
Total Loan	568.48	155.40	77.69	0.00	0.00					
Equity	243.64	66.60	33.30	0.00	0.00					
Total	812.12	222.00	110.99	0.00	0.00					



(Petitioner)

Calculation of ROE

Form No. - 8

Name of the Transmission Licensee	Power Grid Bikaner Transmission System Ltd		
Project	Transmission System for Evacuation of Power from Rajasthan REZ PH-IV (Part-1) (Bikaner Complex)-Part-E		
Element Description	400/220 kV, 500 MVA T&R Make ICT-6 along with associated bays at 400/220 kV Bikaner-II SS		
Region	Corporate Centre	DOCO Date	Dec 30, 2024

(Amount in Rs. Lakh)

Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
No. of Days in the year	365.00	365.00	365.00	366.00	365.00
No. of days for which tariff claimed	92.00	365.00	365.00	366.00	365.00
Opening Normative Equity	999.10	1,242.74	1,309.34	1,342.64	1,342.64
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)	999.10	1,242.74	1,309.34	1,342.64	1,342.64
Add: Increase in Equity due to addition during the year / period	132.74	37.93	18.96	0.00	0.00
Less: Decrease due to de-capitalisation during the year / period	0.00	0.00	0.00	0.00	0.00
Add: Increase due to discharge during the year / period	110.90	28.67	14.34	0.00	0.00
Closing Normative Equity	1,242.74	1,309.34	1,342.64	1,342.64	1,342.64
Average Normative Equity	1,120.92	1,276.04	1,325.99	1,342.64	1,342.64
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	224.69	255.78	265.79	269.13	269.13
Pro rata return on Equity	56.63	255.78	265.79	269.13	269.13



(Petitioner)

Calculation of WAR of interest on actual loan

Form No. - 9C

Name of the Transmission Licensee	Power Grid Bikaner Transmission System Ltd		
Project	Transmission System for Evacuation of Power from Rajasthan REZ PH-IV (Part-1) (Bikaner Complex)-Part-E		
Element Description	400/220 kV, 500 MVA T&R Make ICT-6 along with associated bays at 400/220 kV Bikaner-II SS		
Region	Corporate Centre	DOCO Date	Dec 30, 2024

(Amount in Rs. Lakh)

Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
Proposed Loan -ACCRUAL IDC					
Gross Loan- Opening	0.00	24.60	24.60	24.60	24.60
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.00	0.00
Net loan-Opening	0.00	24.60	24.60	24.60	24.60
Add: Drawl(s) during the year	24.60	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	24.60	24.60	24.60	24.60	24.60
Average Net Loan	12.30	24.60	24.60	24.60	24.60
Rate of Interest on Loan on Annual Basis	8.21	8.21	8.21	8.21	8.21
Interest on loan	1.0098	2.0197	2.0197	2.0197	2.0197

Loan 3 PBTSL (BOND-LXXIV) -DOCO					
Gross Loan- Opening	2.33	2.33	2.33	2.33	2.33
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.10	0.29
Net loan-Opening	2.33	2.33	2.33	2.23	2.04
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	0.10	0.10	0.19
Net Loan-Closing	2.33	2.33	2.23	2.04	1.85

Average Net Loan	2.33	2.33	2.28	2.14	1.95
Rate of Interest on Loan on Annual Basis	7.70	7.70	7.70	7.70	7.70
Interest on loan	0.1794	0.1794	0.1756	0.1648	0.1502

Loan 4 PBTSL (BOND LXXV) -DOCO

Gross Loan- Opening	7.04	7.04	7.04	7.04	7.04
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.29	0.88
Net loan-Opening	7.04	7.04	7.04	6.75	6.16
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	0.29	0.59	0.59
Net Loan-Closing	7.04	7.04	6.75	6.16	5.57
Average Net Loan	7.04	7.04	6.90	6.46	5.87
Rate of Interest on Loan on Annual Basis	7.65	7.65	7.65	7.65	7.65
Interest on loan	0.5386	0.5386	0.5279	0.4942	0.4491

PBTSL loan (BOND-LXXVI) -DOCO

Gross Loan- Opening	24.17	24.17	24.17	24.17	24.17
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	1.01	3.03
Net loan-Opening	24.17	24.17	24.17	23.16	21.14
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	1.01	2.02	2.02
Net Loan-Closing	24.17	24.17	23.16	21.14	19.12
Average Net Loan	24.17	24.17	23.67	22.15	20.13
Rate of Interest on Loan on Annual Basis	7.35	7.35	7.35	7.35	7.35
Interest on loan	1.7765	1.7765	1.7397	1.628	1.4796



PBTSL loan (BOND-LXXVII) -DOCO					
Gross Loan- Opening	794.85	794.85	794.85	794.85	794.85
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	33.22	99.67
Net loan-Opening	794.85	794.85	794.85	761.63	695.18
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	33.22	66.45	66.45
Net Loan-Closing	794.85	794.85	761.63	695.18	628.73
Average Net Loan	794.85	794.85	778.24	728.41	661.96
Rate of Interest on Loan on Annual Basis	7.55	7.55	7.55	7.55	7.55
Interest on loan	60.0112	60.0112	58.7571	54.995	49.978

PBTSL loan (BOND-LXXVIII) -DOCO					
Gross Loan- Opening	353.96	353.96	353.96	353.96	353.96
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	14.79	44.38
Net loan-Opening	353.96	353.96	353.96	339.17	309.58
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	14.79	29.59	29.59
Net Loan-Closing	353.96	353.96	339.17	309.58	279.99
Average Net Loan	353.96	353.96	346.57	324.38	294.79
Rate of Interest on Loan on Annual Basis	7.38	7.38	7.38	7.38	7.38
Interest on loan	26.1222	26.1222	25.5769	23.9392	21.7555

PBTSL Loan (Bond LXXIX) -DOCO					
Gross Loan- Opening	116.94	116.94	116.94	116.94	116.94
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	14.62	14.62
Net loan-Opening	116.94	116.94	116.94	112.07	102.32

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	4.87	9.75	9.75
Net Loan-Closing	116.94	116.94	112.07	102.32	92.57
Average Net Loan	116.94	116.94	114.51	107.20	97.45
Rate of Interest on Loan on Annual Basis	7.08	7.08	7.08	7.08	7.08
Interest on loan	8.2794	8.2794	8.1073	7.5898	6.8995

PBTSL Loan (Bond LXXIX) Replaced with Proposed Loan -DOCO

Gross Loan- Opening	1,012.10	1,012.10	1,012.10	1,012.10	1,012.10
Cumulative repayments of Loans upto previous year	0.00	1,012.10	1,012.10	1,012.10	1,012.10
Net loan-Opening	1,012.10	0.00	0.00	0.00	0.00
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	1,012.10	0.00	0.00	0.00	0.00
Net Loan-Closing	0.00	0.00	0.00	0.00	0.00
Average Net Loan	506.05	0.00	0.00	0.00	0.00
Rate of Interest on Loan on Annual Basis	7.08	7.08	7.08	7.08	7.08
Interest on loan	35.8283	0.00	0.00	0.00	0.00

Summary

Gross Loan- Opening	2,311.39	2,335.99	2,335.99	2,335.99	2,335.99
Cumulative repayments of Loans upto previous year	0.00	1,012.10	1,012.10	1,066.38	1,174.97
Net loan-Opening	2,311.39	1,323.89	1,323.89	1,269.61	1,161.02
Add: Drawl(s) during the year	24.60	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	1,012.10	0.00	54.28	108.59	108.59
Net Loan-Closing	1,323.89	1,323.89	1,269.61	1,161.02	1,052.43

Average Net Loan	1,817.64	1,323.89	1,296.77	1,215.34	1,106.75
Rate of Interest on Loan on Annual Basis	7.3582	7.4724	7.4727	7.4737	7.4752
Interest on loan	133.7454	98.927	96.9042	90.8307	82.7316

(Petitioner)



Calculation of interest on Normative loan

Form No. - 9E

Name of the Transmission Licensee	Power Grid Bikaner Transmission System Ltd		
Project	Transmission System for Evacuation of Power from Rajasthan REZ PH-IV (Part-1) (Bikaner Complex)-Part-E		
Element Description	400/220 kV, 500 MVA T&R Make ICT-6 along with associated bays at 400/220 kV Bikaner-II SS		
Region	Corporate Centre	DOCO Date	Dec 30, 2024

(Amount in Rs. Lakh)

Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
No. of Days in the Year	365.00	365.00	365.00	366.00	365.00
No. of days for which Tariff claimed	92.00	365.00	365.00	366.00	365.00
Gross normative loan-Opening	2,331.23	2,899.71	3,055.11	3,132.80	3,132.80
Cumulative repayments of Normative loan upto previous year	0.00	40.46	224.15	415.32	608.98
Net normative loan-Opening	2,331.23	2,859.25	2,830.96	2,717.48	2,523.82
Addition in normative loan towards the ACE	568.48	155.40	77.69	0.00	0.00
Adjustment of normative gross loan pertaining to the decapitalised asset	0.00	0.00	0.00	0.00	0.00
Normative repayments of normative loan during the year	40.46	183.69	191.17	193.66	193.66
Adjustment of cumulative repayment pertaining to the decapitalised asset	0.00	0.00	0.00	0.00	0.00
Net normative loan - closing	2,859.25	2,830.96	2,717.48	2,523.82	2,330.16
Average normative loan	2,595.24	2,845.11	2,774.22	2,620.65	2,426.99
Weighted Average Rate of interest on actual loan	7.3582	7.4724	7.4727	7.4737	7.4752
Interest on normative loan	190.96	212.60	207.31	195.86	181.42
Pro rata interest on normative loan	48.13	212.60	207.31	195.86	181.42



Calculation of Depreciation Rate on Original Project Cost

Form No. - 10

Name of the Transmission Licensee	Power Grid Bikaner Transmission System Ltd		
Project	Transmission System for Evacuation of Power from Rajasthan REZ PH-IV (Part-1) (Bikaner Complex)-Part-E		
Element Description	400/220 kV, 500 MVA T&R Make ICT-6 along with associated bays at 400/220 kV Bikaner-II SS		
Region	Corporate Centre	DOCO Date	Dec 30, 2024

(Amount in Rs. Lakh)

Name of Assets	Gross block at the beginning of the year	Add Cap during the year	Gross block at the end of the year	Average Gross Block	Depreciation Rate as per CERC's Depreciation Rate Schedule	Depreciation Amount for each year upto 31.03.2029
2024-25						
Land(Freehold)	0.00	0.00	0.00	0.00	0.00	0.00
Civil & Building	0.00	0.00	0.00	0.00	3.34	0.00
Transmission Line	0.00	0.00	0.00	0.00	4.22	0.00
Sub Station	3,313.89	792.40	4,106.29	3,710.09	4.22	39.46
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/URTDSP/SCADA,etc	16.44	19.72	36.16	26.30	15.00	1.00
Batteries	0.00	0.00	0.00	0.00	9.50	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	6.33	0.00
TOTAL	3,330.33	812.12	4,142.45	3,736.39	0.00	40.46
Weighted Average Rate of Depreciation(%)					1.082863	

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



Civil & Building	0.00	0.00	0.00	0.00	3.34	0.00
Transmission Line	0.00	0.00	0.00	0.00	4.22	0.00
Sub Station	4,106.29	216.41	4,322.70	4,214.50	4.22	177.85
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/URTDSM/SCADA,etc	36.16	5.59	41.75	38.96	15.00	5.84
Batteries	0.00	0.00	0.00	0.00	9.50	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	6.33	0.00
TOTAL	4,142.45	222.00	4,364.45	4,253.46	0.00	183.69
Weighted Average Rate of Depreciation(%)					4.318602	

2026-27

Land(Freehold)	0.00	0.00	0.00	0.00	0.00	0.00
Civil & Building	0.00	0.00	0.00	0.00	3.34	0.00
Transmission Line	0.00	0.00	0.00	0.00	4.22	0.00
Sub Station	4,322.70	108.20	4,430.90	4,376.80	4.22	184.70
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/URTDSM/SCADA,etc	41.75	2.79	44.54	43.15	15.00	6.47
Batteries	0.00	0.00	0.00	0.00	9.50	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	6.33	0.00
TOTAL	4,364.45	110.99	4,475.44	4,419.95	0.00	191.17
Weighted Average Rate of Depreciation(%)					4.325162	



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	4,430.90	0.00	4,430.90	4,430.90	4.22	186.98
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	44.54	0.00	44.54	44.54	15.00	6.68
Batteries	0.00	0.00	0.00	0.00	9.50	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	6.33	0.00
TOTAL	4,475.44	0.00	4,475.44	4,475.44	0.00	193.66
Weighted Average Rate of Depreciation(%)					4.327172	

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	4,430.90	0.00	4,430.90	4,430.90	4.22	186.98
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	44.54	0.00	44.54	44.54	15.00	6.68
Batteries	0.00	0.00	0.00	0.00	9.50	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	6.33	0.00
TOTAL	4,475.44	0.00	4,475.44	4,475.44	0.00	193.66

Weighted Average Rate of Depreciation(%)					4.327172	
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(Petitioner)



Statement of Depreciation

Form No. - 10A

Name of the Transmission Licensee	Power Grid Bikaner Transmission System Ltd		
Project	Transmission System for Evacuation of Power from Rajasthan REZ PH-IV (Part-1) (Bikaner Complex)-Part-E		
Element Description	400/220 kV, 500 MVA T&R Make ICT-6 along with associated bays at 400/220 kV Bikaner-II SS		
Region	Corporate Centre	DOCO Date	Dec 30, 2024

(Amount in Rs. Lakh)

Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
No of Days in the year	365.00	365.00	365.00	366.00	365.00
No of days for which tariff claimed	92.00	365.00	365.00	366.00	365.00
Life at the beginning of the year					
1.1 Weighted Average useful life of the Asset/Project	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
Capital Base					
1.4 Opening capital cost	3,330.33	4,142.45	4,364.45	4,475.44	4,475.44
1.5 Additional Capital Expenditure dr. the year	812.12	222.00	110.99	0.00	0.00
1.6 De-Capitalisation During the year	0.00	0.00	0.00	0.00	0.00
1.7 Closing capital cost	4,142.45	4,364.45	4,475.44	4,475.44	4,475.44
1.8 Average capital cost	3,736.39	4,253.46	4,419.95	4,475.44	4,475.44
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	26.30	38.96	43.15	44.54	44.54
1.11 Asset having 10% salvage value included in 1.8	3,710.09	4,214.50	4,376.80	4,430.90	4,430.90
1.12 Depreciable Value(1.10+90% of 1.11)	3,365.38	3,832.01	3,982.27	4,032.35	4,032.35
Depreciation for the period and Cum. Depreciation					
1.13 Weighted Average Rate of depreciation	1.082863	4.318602	4.325162	4.327172	4.327172



1.14 Depreciation(for the period)	40.46	183.69	191.17	193.66	193.66
1.15 Depreciation(Annualised)	40.46	183.69	191.17	193.66	193.66
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	40.46	224.15	415.32	608.98
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	40.46	224.15	415.32	608.98	802.64

(Petitioner)



Calculation of interest on working Capital

Form No. - 11

Name of the Transmission Licensee	Power Grid Bikaner Transmission System Ltd		
Project	Transmission System for Evacuation of Power from Rajasthan REZ PH-IV (Part-1) (Bikaner Complex)-Part-E		
Element Description	400/220 kV, 500 MVA T&R Make ICT-6 along with associated bays at 400/220 kV Bikaner-II SS		
Region	Corporate Centre	DOCO Date	Dec 30, 2024

(Amount in Rs. Lakh)

Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
No of Days in the year	365.00	365.00	365.00	366.00	365.00
No of days for which tariff claimed	92.00	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	95.39	106.13	108.91	109.25	109.23
Total Working capital	137.67	150.65	155.72	158.49	161.17
Bank Rate as on 01.04.2024 or as on 01st April of the COD year, whichever is later.	11.90	11.90	11.90	11.90	11.90
Interest on working capital	16.38	17.93	18.53	18.86	19.18
Pro rata interest on working capital	4.13	17.93	18.53	18.86	19.18

(Petitioner)

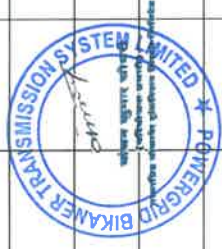


Drawdown schedule Calculation of IDC & Financing Charges

Form No. - 12B

Name of the Transmission Licensee	Power Grid Bikaner Transmission System Ltd		
Project	Transmission System for Evacuation of Power from Rajasthan REZ PH-IV (Part-1) (Bikaner Complex)-Part-E		
Element Description	400/220 kV, 500 MVA T&R Make ICT-6 along with associated bays at 400/220 kV Bikaner-II SS		
Region	Corporate Centre	DOCO Date	Dec 30, 2024

Particulars	Quarter 1			Quarter 2			Quarter n (COD)		
	Quantum in FC	Ex. Rate on Drawn Down Date	Amount in Indian Rupee	Quantum in FC	Ex. Rate on Drawn Down Date	Amount in Indian Rupee	Quantum in FC	Ex. Rate on Drawn Down Date	Amount in Indian Rupee
Loans									
Foreign Loans									
Total of Foreign Loans									
Indian Loans									
Loan 3 PBTS (BOND-LXXIV) -DOCO									
Draw Down Account									2.33
IDC									
Financing Charges									
Loan 4 PBTS (BOND LXXV) -DOCO									



Incidental Expenditure during Construction

**PART-III
FORM-12A**

Name of the Transmission Asset: 400/220 kV, 500 MVA T&R Make ICT-6 along with associated bays at 400/220 kV Bikaner-II SS
Date of Commercial Operation: 30.12.2024

(Amount in Rs. Lakh)

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

S. No.	Parameters	Upto 31.03.2024	2024-25	Total
A	Expenses:			
1	Employees' Remuneration & Benefits			0.00
2	Finance Costs			0.00
3	Water Charges			0.00
4	Communication Expenses			0.00
5	Power Charges			0.00
6	Depreciation			0.00
7	Consultancy Charges	116.97	65.68	182.65
8	Other Office and Administrative Expenses			0.00
9	Others (Please Specify Details)			0.00
10	WIP transfer from CC			0.00
11	Other pre-Operating Expenses			0.00
	TOTAL	116.97	65.68	182.65
B	Total Expenses			
12	Less: Income from sale of tenders			0.00
13	Less: Income from guest house			0.00
14	Less: Income recovered from Contractors			0.00
15	Less: Interest on Deposits			0.00
16	Less: Int.Income.Temp.Fund			0.00
	TOTAL	0.00	0.00	0.00
	GRAND TOTAL	116.97	65.68	182.65

Note: IEDC should be duly reconciled with the corresponding figures of Auditor's Certificate.



Details of Initial Spares															
Name of the petitioner		POWERGRID CORPORATION OF INDIA LIMITED													
Claimed / Admitted COD		30.12.2024													
Name of Transmission Asset: Combined Asset:-		Cut-off Date of the Asset: 31.03.2023													
400/220kV, 500 MVA T&R Make ICT-6 along with associated bays at 400/220kV Bikaner-II SS															
DOCO: 30.12.2024															
A) Determination of Excess initial spare and its adjustment from Capital cost															
Particulars	Plant and machinery cost as on cut-off Date ¹	Initial Spare Capitalised as per Books of Account up to Cut-off Date							Ceiling limit as mentioned in Regulation 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 ²	As on 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	3984.52	8.14	148.46	43.02	21.52	221.14	6.00%	239.07	-17.93						
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%								
Initial spare as per Books of Account		8.14	148.46	43.02	21.52	221.14		239.07	-17.93						
Un-Discharge liabilities included above		2.07	-2.07	0	0										
Total Capitalized initial spare		6.07	150.33	43.02	21.52										

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 IEBC.



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
Transmission Line	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Substation Green field										
Substation Brown Field	3843.35	0.00	0.00	182.65	87.13	8.14	3565.43	294.00	83.40	41.69
Series Compensation devices and HVDC Station										3984.52
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
Communication System	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Static Synchronous Compensator										

Note: 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 Tariff

Form No. - 1

Name of the Transmission Licensee:		Power Grid Bikaner Transmission System Ltd	
Project	Transmission System for Evacuation of Power from Rajasthan REZ PH-IV (Part-1) (Bikaner Complex)-Part-E		
Element Description	400/220 kV, 500 MVA T&R Make ICT-7 along with associated bays at 400/220 kV Bikaner-II SS		
Region	Corporate Centre	DOCO Date	Feb 3, 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	57.00	365.00	365.00	366.00	365.00
Depreciation-Form No. 10A	25.38	184.50	191.94	194.37	194.37
Interest on Loan-Form No. 9E	30.42	212.45	207.19	195.69	181.33
Return on Equity-Form No. 8	35.52	256.85	266.81	270.05	270.05
Int. on Working capital-Form No.11	2.58	17.95	18.56	18.88	19.20
Op. and maintenance-Form No.2	28.30	190.83	200.61	211.03	222.59
Total AFC	122.20	862.58	885.11	890.02	887.54

(Petitioner)



Summary of Asset Level Cost

Form No. - 1A

Name of the Transmission Licensee	Power Grid Bikaner Transmission System Ltd	
Project	Transmission System for Evacuation of Power from Rajasthan REZ PH-IV (Part-1) (Bikaner Complex)-Part-E	
Element Description	400/220 kV, 500 MVA T&R Make ICT-7 along with associated bays at 400/220 kV Bikaner-II SS	
Region	Corporate Centre	DOC Date Feb 3, 2025

(Amount in Rs. Lakh)

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

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
Building & Civil Works			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
Substations			3,789.11	459.50	131.43	65.72	0.00	0.00	4,445.76
Comm. Sys. excluding Fiber Optic			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
IT/Software/UNMS/URTDMS/			19.01	18.24	5.21	2.60	0.00	0.00	45.06
Batteries			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
Total Capital Cost as per Books			3,808.12	477.74	136.64	68.32	0.00	0.00	4,490.82
Less: Liability			403.54	0.00	0.00	0.00	0.00	0.00	0.00
Add: discharge of liability			0.00	277.09	86.94	39.51	0.00	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
Total Capital incurred			3,404.58	754.83	223.58	107.83	0.00	0.00	4,490.82
Equity	1,214.34		1,021.37	226.45	67.07	32.35	0.00	0.00	1,347.24
Debt	2,833.46		2,383.21	528.38	156.51	75.48	0.00	0.00	3,143.58



Name of the Transmission Licensee		Power Grid Bikaner Transmission System Ltd	
Project	Transmission System for Evacuation of Power from Rajasthan REZ PH-IV (Part-1) (Bikaner Complex)-Part-E		
Element Description	400/220 kV, 500 MVA T&R Make ICT-7 along with associated bays at 400/220 kV Bikaner-II SS		
Region	Corporate Centre	DOCO Date	Feb 3, 2025

1. Transmission Lines

(Amount in Rs. Lakh)

Summary:



2. Sub Station

Name of Sub-station	Type of Substation	Voltage Level KV	No. of Transformers/ Reactor/ SVC etc. (with capacity)	No. of Bays				MVA/MVAR Capacity				Date of Comm. operation	Covered in the present petition
				765 KV	400 KV	220 KV	132 KV	765 KV	400 KV	220 KV	132 KV		
:ICT VII AT BIKANER II	Brownfield	400 KV	1.000						500.00			Feb 3, 2025	Y
:400 KV BAY FOR ICT VII	Brownfield	400 KV			1.000							Feb 3, 2025	Y
:220 KV BAY FOR ICT VII AT BIKANER II	Brownfield	220 KV				1.000						Feb 3, 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										4.61	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										3.23	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	20.46	138.00	145.00	152.50	161.00



3. Communication System

Summary:



Summary of O&M Expenses claim

(Amount in Rs. Lakh)

Particular	2024-25	2025-26	2026-27	2027-28	2028-29
A) Normative O&M					
Transmission Line	0.00	0.00	0.00	0.00	0.00
Substation	28.30	190.83	200.61	211.03	222.59
Communication System	0.00	0.00	0.00	0.00	0.00
Total Normative O&M	28.30	190.83	200.61	211.03	222.59
B) O&M Claimed under Regulation 35 (3)(C) (* The same is not being claimed and will be claimed through separate Petition)					
*Security Expenses	0.00	0.00	0.00	0.00	0.00
*Actual Capital Spare consumed	0.00	0.00	0.00	0.00	0.00
*Insurance Premium Paid	0.00	0.00	0.00	0.00	0.00
Total O&M	28.30	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	Transmission System for Evacuation of Power from Rajasthan REZ PH-IV (Part-1) (Bikaner Complex)-Part-E		
Element Description	400/220 kV, 500 MVA T&R Make ICT-7 along with associated bays at 400/220 kV Bikaner-II SS		
Region	Corporate Centre	DOCO Date	Feb 3, 2025

(Amount in Rs. Lakh)

Particulars	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
Base Rate of Return of Equity (in %)						
Tax Rate (in %)	25.168	25.168	25.168	25.168	25.168	25.168
Effective tax rate (in %)						
Grossed up Rate for ROE of 15.5% (in %)						
Grossed up Rate for ROE of 15.0% (in %)	20.045	20.045	20.045	20.045	20.045	
Target availability - AC System (in %)	98.00	98.00	98.00	98.00	98.00	98.00
Target availability - HVDC System (in %)	96.00	96.00	96.00	96.00	96.00	96.00
Norms for sub-station Bays (Rs Lakh per bay)						
765 kV	51.68	41.34	43.51	45.79	48.20	50.73
400 kV	36.91	29.53	31.08	32.71	34.43	36.23
220 kV	25.84	20.67	21.75	22.90	24.10	25.36
132 kV and below	18.46	15.78	16.61	17.48	18.40	19.35
Norms for Transformers (Rs Lakh per MVA)						
765 kV	0.564	0.262	0.276	0.29	0.305	0.322
400 kV	0.411	0.262	0.276	0.29	0.305	0.322
220 kV	0.282	0.262	0.276	0.29	0.305	0.322
132 kV and below	0.282	0.262	0.276	0.29	0.305	0.322
Norms for Reactor (Rs Lakh per MVAR)						
765 kV	0.00	0.262	0.276	0.29	0.305	0.322
400 kV	0.00	0.262	0.276	0.29	0.305	0.322

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

(Petitioner)



Statement of Capital cost

Form No. -4A

Name of the Transmission Licensee	Power Grid Bikaner Transmission System Ltd		
Project	Transmission System for Evacuation of Power from Rajasthan REZ PH-IV (Part-1) (Bikaner Complex)-Part-E		
Element Description	400/220 kV, 500 MVA T&R Make ICT-7 along with associated bays at 400/220 kV Bikaner-II SS		
Region	Corporate Centre	DOCO Date	Feb 3, 2025

(Amount in Rs. Lakh)

A) Capital Cost

Particular	Accrual Basis	Un-discharged Liabilities	Cash Basis
As on relevant date :2024-25			
a) Opening Gross Block Amount as per books	3,808.12	403.54	3,404.58
b) Amount of (i) IDC (ii) FERV & (iv) Hedging cost included in A(a) above	95.55	7.92	87.63
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above	184.51	0.00	184.51
a) Addition in Gross Block Amount during the period	477.74	0.00	477.74
b) Amount of (i) IDC (ii) 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	4,285.86	126.45	4,159.41
b) Amount of (i) IDC (ii) FERV & (iv) Hedging cost included in C(a) above	95.55	7.92	87.63
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost)included in C(a) above	184.51	0.00	184.51
As on relevant date :2025-26			
a) Opening Gross Block Amount as per books	4,285.86	126.45	4,159.41
b) Amount of (i) IDC (ii) FERV & (iv) Hedging cost included in A(a) above	95.55	7.92	87.63

c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above	184.51	0.00	184.51
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a) Addition in Gross Block Amount during the period			
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in B(a) above	136.64	0.00	136.64
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	4,422.50	39.51	4,382.99
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in C(a) above	95.55	0.00	95.55
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) above	184.51	0.00	184.51

As on relevant date :2026-27

a) Opening Gross Block Amount as per books			
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in A(a) above	4,422.50	39.51	4,382.99
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above	95.55	0.00	95.55
	184.51	0.00	184.51

a) Addition in Gross Block Amount during the period	68.32	0.00	68.32
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	4,490.82	0.00	4,490.82
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in C(a) above	95.55	0.00	95.55
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) above	184.51	0.00	184.51

As on relevant date :2027-28

a) Opening Gross Block Amount as per books			
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in A(a) above	4,490.82	0.00	4,490.82
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above	95.55	0.00	95.55
	184.51	0.00	184.51



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	4,490.82	0.00	4,490.82
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in C(a) above	95.55	0.00	95.55
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) above	184.51	0.00	184.51

As on relevant date :2028-29

a) Opening Gross Block Amount as per books	4,490.82	0.00	4,490.82
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in A(a) above	95.55	0.00	95.55
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above	184.51	0.00	184.51

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	4,490.82	0.00	4,490.82
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in C(a) above	95.55	0.00	95.55
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) above	184.51	0.00	184.51

B) Flow of liability for the Asset

(Amount in Rs. Lakh)

Particular	2024-2025	2025-2026	2026-2027	2027-2028		
Opening balance of liability	403.54	126.45	39.51	0.00	0.00	0.00
Add: Liability from ACE	0.00	0.00	0.00	0.00	0.00	0.00



Discharge of liability by payment and claimed as ACE	277.09	86.94	39.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Reversal/cancelation (to be entered)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Closing Balance of Admitted liability	126.45	39.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

(Petitioner)



Abstract of Capital Cost Estimates and Schedule of Commissioning for New Project/Element		PART-III FORM-4C	
Name of the Transmission Asset:			
400/220kV, 500 MVA T&R Make ICT-7 along with associated bays at 400/220kV Bikaner-II SS			
DOCO: 03.02.2025			
Board of Director/ Agency approving the Capital cost estimates:			
Date of approval of the Capital cost estimates:			
	Present Day Cost	Completed Cost	
Price level of approved estimates	As of End of 3rd Qtr. of the year 2014	As on Scheduled COD of the transmission system/transmission element/Communication System	
		As of End of 3rd Qtr. of the year 2020	
Foreign Exchange rate considered for the Capital cost estimates	1 USD= Rs 61.79 1 Uk Pound= Rs 78.47		
Capital Cost excluding IDC, IEDC& FC			
Foreign Component, if any (In Million US \$ or the relevant Currency)			
Domestic Component (Rs. Lakh)			
Capital cost excluding IDC, FC, FERV & Hedging Cost (Rs. Lakh)	3893.60	4390.17	
IDC, IEDC, FC, FERV & Hedging Cost			
Foreign Component, if any (In Million US \$ or the relevant Currency)			
Domestic Component (Rs Lakh)			
Total IDC, FC, FERV & Hedging Cost (Rs Lakh)	154.20	100.65	
Rate of taxes & duties considered			
Capital cost including IDC, IEDC, FC, FERV &			
Foreign Component, if any (In Million US \$ or the relevant Currency)			
Domestic Component (Rs Lakh)			
Capital cost Including IDC, IEDC& FC (Rs Lakh)	4047.80	4490.82	
Schedule of Commissioning			
COD of transmission system /transmission element /Communication System	31.01.2025	03.02.2025	
Note:			
1. Copy of approval letter by the Board duly certified by the Company secretary should be enclosed			
2. Details of Capital Cost are to be furnished as per FORM-5 or 5A as applicable			
3. Details of IDC & Financing Charges are to be furnished as per FORM-12(B).			



Name of the Transmission Asset:
400/220KV, 500 MVA T&R Make ICT-7 along with associated bays at 400/220KV Bikaner-II SS
DOCO: 03.02.2025

S. No. (f)	Particulars (2)	As per Original Estimates (3)			As per Revised Cost Estimates (if any) (4)			Actual Capital Expenditure (Gross Block) as on COD as per Books of Accounts (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 IA/RCE cost as on COD (8=(5-6)+(7-(3 or 4))	Reasons for Variation (9)	Un-Discharge Liabilities included in Col. 5 (10)	Admitted cost (11)	Capital Work in Progress as per Books of Account as on COD (12)
		Quantity	Rate	Estimated Cost	Quantity	Rate	Estimated Cost	Quantity	Rate	Estimated Cost							
B. SUBSTATIONS																	
4	Preliminary works & land																
4.1	Design & Engineering Land ²																
4.20		LS															
4.30	Site preparation	LS															
4.40	Total Preliminary works & land (4.1+4.2+4.3)																
5.00	Civil Works																
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		4.00						0.00		0.00	4.00				
5.60	Total Civil Works (5.1+5.2+5.3+5.4+5.5)			4.00						0.00		0.00	4.00				
6.00	Substation Equipment																
6.10	Switchgear (CT, PT, Circuit Breaker, Isolator etc)	No.		298.32						237.11		0.34	60.87	On account of bid price received through open competitive bidding	3.92		
6.20	Transformers	No.		1970.34						2208.85		256.31	-494.82		304.87		
6.30	Compensating Equipment (Reactor, SVCs etc)	No.															
6.40	Control, Relay & Protection Panel	LS		55.91						82.41		0.08	-26.58	On account of bid price received through open competitive bidding	9.52		
6.50	PLCC	No.															
6.60	HVDC package																



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 amount for tariff as on COD/ 01.04.2019 (after deduction s)	Un-discharged liability included in 8	Capital Cost on Cash basis for tariff as on COD / as on 01-04-2019
Land (Freehold Land)	1.00	2.00	3.00	4.00	5.00	6=(1+3+4+5)	7.00	8=(6-7)	9.00	10=(8-9)
Land (Leasehold)	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
Transmission Line	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00
Sub-Station+IT	3522.96	8.14	184.51	100.65	0.00	3808.12		3808.12	403.54	3404.58
PLCC	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00
Total Capital Cost as per Books of Account	3522.96	8.14	184.51	100.65	0.00	3808.12	NIL	3808.12	403.54	3404.58
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

(Petitioner)



PART-III

AN REZ PH-IV

Name of the Transmission Asset:

ՀՀՈՒՄ. 15 ՈՋ 3031

400/220kV, 500 MVA T&R Make ICT-7 along with associated bays at 400/220kV Bikaner-II SS

DOC#: 03.02.2025

S. No.	Name of Asset	COD	Delay (in No. of days)	Apportioned approved cost (Rs. Lakh)	Revised cost estimates, if applicable (Rs. Lakh)	Completed Cost (Rs. Lakh)	Covered in the present Petition	
							Yes/No	If No, Petition No.
1	400/220kV, 500 MVA T&R Make ICT-7 along with associated bays at 400/220kV Bikaner-II SS	31.12.2024	NIL	4047.8	-	4490.82	yes	-
Total								

(Petitioner)



**Form-6
(Part-A)**

Actual cash Expenditure upto COD

Name of the Asset:

400/220 kV, 500 MVA T&R Make ICT-7 along with associated bays at 400/220 kV Bikaner-II SS

Name of the Project:

Transmission System for Evacuation of Power from Rajasthan REZ PH-IV (Part-1) (Bikaner Complex) Part-E

DOCO

03.02.2025

Particulars	Upto 31.03.2024	From 01.04.2024 to DOCO
Actual Payment to contractors/suppliers during the Year	246.44	2880.90
Cumulative Cash payments at the end of the year	246.44	3127.34
% of cumulative cash Payment on Total Payment up to Actual COD	8.00%	100.00%



Financial Package upto COD

Form No. - 6

Name of the Transmission Licensee	Power Grid Bikaner Transmission System Ltd		
Project	Transmission System for Evacuation of Power from Rajasthan REZ PH-IV (Part-1) (Bikaner Complex)-Part-E		
Element Description	400/220 kV, 500 MVA T&R Make ICT-7 along with associated bays at 400/220 kV Bikaner-II SS		
Region	Corporate Centre	DOCO Date	Feb 3, 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
Loan-Domestic						0.00
Loan-Foreign						0.00
Total Loans	INR	2,833.46	INR	2,383.21		0.00
Equity						0.00
Foreign						0.00
Domestic	INR	1,214.34	INR	1,021.37		0.00
Total Equity	INR	1,214.34	INR	1,021.37		0.00
Debt Equity Ratio					70:30	
Total Cost	INR	4,047.80	INR	3,404.58		0.00

Particulars	Debt	Equity	Total	
Addcap for 2024 - 2025			754.83	
Addcap for 2025 - 2026			223.58	
Addcap for 2026 - 2027			107.83	
Addcap for 2027 - 2028			0.00	
		174		



Addcap for 2028 - 2029			0.00	
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Particulars	Actual	Normative	
Addcap for 2024 - 2025			
Equity		226.45	
Debt		528.38	
Total		754.83	
Addcap for 2025 - 2026			
Equity		67.07	
Debt		156.51	
Total		223.58	
Addcap for 2026 - 2027			
Equity		32.35	
Debt		75.48	
Total		107.83	
Addcap for 2027 - 2028			
Equity		0.00	
Debt		0.00	
Total		0.00	
Addcap for 2028 - 2029			
Equity		0.00	
Debt		0.00	
Total		0.00	
Total Capital cost with Addcap		4,490.82	



Statement of Additional Capitalisation after COD

Form No. - 7

Name of the Transmission Licensee	Power Grid Bikaner Transmission System Ltd		
Project	Transmission System for Evacuation of Power from Rajasthan REZ PH-IV (Part-1) (Bikaner Complex)-Part-E		
Element Description	400/220 kV, 500 MVA T&R Make ICT-7 along with associated bays at 400/220 kV Bikaner-II SS		
Region	Corporate Centre	DOCO Date	Feb 3, 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)			
ACE for the year :2024-25 (Actual/Projected)									
Land (Freehold Land)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building & Civil Works	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Transmission Lines	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Substations	459.50	0.00	0.00	0.00	0.00	0.00	275.84	735.34	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	18.24	0.00	0.00	0.00	0.00	0.00	1.25	19.49	0.00
Batteries	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	477.74	0.00	0.00	0.00	0.00	0.00	277.09	754.83	0.00
ACE for the year :2025-26 (Actual/Projected)									



Land (Freehold Land)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building & Civil Works	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Transmission Lines	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Substations	131.43	0.00	0.00	0.00	0.00	0.00	86.54	217.97	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	5.21	0.00	0.00	0.00	0.00	0.00	0.40	5.61	0.00
Batteries	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	136.64	0.00	0.00	0.00	0.00	0.00	86.94	223.58	0.00
ACE for the year :2026-27 (Actual/Projected)									
Land (Freehold Land)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building & Civil Works	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Transmission Lines	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Substations	65.72	0.00	0.00	0.00	0.00	0.00	39.33	105.05	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	2.60	0.00	0.00	0.00	0.00	0.00	0.18	2.78	0.00
Batteries	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	68.32	0.00	0.00	0.00	0.00	0.00	39.51	107.83	0.00
ACE for the year :2027-28 (Actual/Projected)									
Land (Freehold Land)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building & Civil Works	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

(Petitioner)



Name of the Transmission Licensee		Power Grid Bikaner Transmission System Ltd	
Project	Transmission System for Evacuation of Power from Rajasthan REZ PH-IV (Part-1) (Bikaner Complex)-Part-E		
Element Description	400/220 kV, 500 MVA T&R Make ICT-7 along with associated bays at 400/220 kV Bikaner-II SS		
Region	Corporate Centre	DOCO Date	Feb 3, 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
Amount capitalized in Work/ Equipment										
Financing Details										
Total Loan	528.38	156.51	75.48	0.00	0.00					
Equity	226.45	67.07	32.35	0.00	0.00					
Total	754.83	223.58	107.83	0.00						



Calculation of ROE

Form No. - 8

Name of the Transmission Licensee	Power Grid Bikaner Transmission System Ltd		
Project	Transmission System for Evacuation of Power from Rajasthan REZ PH-IV (Part-1) (Bikaner Complex)-Part-E		
Element Description	400/220 kV, 500 MVA T&R Make ICT-7 along with associated bays at 400/220 kV Bikaner-II SS		
Region	Corporate Centre	DOCO Date	Feb 3, 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	57.00	365.00	365.00	366.00	365.00
Opening Normative Equity	1,021.37	1,247.82	1,314.89	1,347.24	1,347.24
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)	1,021.37	1,247.82	1,314.89	1,347.24	1,347.24
Add: Increase in Equity due to addition during the year / period	143.32	40.99	20.50	0.00	0.00
Less: Decrease due to de-capitalisation during the year / period	0.00	0.00	0.00	0.00	0.00
Add: Increase due to discharge during the year / period	83.13	26.08	11.85	0.00	0.00
Closing Normative Equity	1,247.82	1,314.89	1,347.24	1,347.24	1,347.24
Average Normative Equity	1,134.60	1,281.36	1,331.07	1,347.24	1,347.24
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	227.43	256.85	266.81	270.05	270.05
Pro rata return on Equity	35.52	256.85	266.81	270.05	270.05



(Petitioner)

Calculation of WAR of interest on actual loan

Form No. - 9C

Name of the Transmission Licensee	Power Grid Bikaner Transmission System Ltd		
Project	Transmission System for Evacuation of Power from Rajasthan REZ PH-IV (Part-1) (Bikaner Complex)-Part-E		
Element Description	400/220 kV, 500 MVA T&R Make ICT-7 along with associated bays at 400/220 kV Bikaner-II SS		
Region	Corporate Centre	DOCO Date	Feb 3, 2025

(Amount in Rs. Lakh)

Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
Proposed Loan -ACCRUAL IDC					
Gross Loan- Opening	0.00	0.00	5.54	5.54	5.54
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.00	0.00
Net loan-Opening	0.00	0.00	5.54	5.54	5.54
Add: Drawl(s) during the year	0.00	5.54	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	5.54	5.54	5.54	5.54
Average Net Loan	0.00	2.77	5.54	5.54	5.54
Rate of Interest on Loan on Annual Basis	8.21	8.21	8.21	8.21	8.21
Interest on loan	0.00	0.2274	0.4548	0.4548	0.4548

Loan 3 PBTSL (BOND-LXXIV) -DOCO					
Gross Loan- Opening	1.60	1.60	1.60	1.60	1.60
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.07	0.20
Net loan-Opening	1.60	1.60	1.60	1.53	1.40
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	0.07	0.13	0.13
Net Loan-Closing	1.60	1.60	1.53	1.40	1.27

Average Net Loan	1.60	1.60	1.57	1.47	1.34
Rate of Interest on Loan on Annual Basis	7.70	7.70	7.70	7.70	7.70
Interest on loan	0.1232	0.1232	0.1209	0.1132	0.1032

Loan 4 PBTSL (BOND LXXV) -DOCO

Gross Loan- Opening	7.03	7.03	7.03	7.03	7.03
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.29	0.88
Net loan-Opening	7.03	7.03	7.03	6.74	6.15
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	0.29	0.59	0.59
Net Loan-Closing	7.03	7.03	6.74	6.15	5.56
Average Net Loan	7.03	7.03	6.89	6.45	5.86
Rate of Interest on Loan on Annual Basis	7.65	7.65	7.65	7.65	7.65
Interest on loan	0.5378	0.5378	0.5271	0.4934	0.4483

PBTSL loan (BOND-LXXVI) -DOCO

Gross Loan- Opening	6.96	6.96	6.96	6.96	6.96
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.29	0.87
Net loan-Opening	6.96	6.96	6.96	6.67	6.09
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	0.00	0.00	0.29	0.58	0.58
Net Loan-Closing	6.96	6.96	6.67	6.09	5.51
Average Net Loan	6.96	6.96	6.82	6.38	5.80
Rate of Interest on Loan on Annual Basis	7.35	7.35	7.35	7.35	7.35
Interest on loan	0.5116	0.5116	0.5013	0.4680	0.4263



PBTSL loan (BOND-LXXVII) -DOCO					
Gross Loan- Opening	382.83	382.83	382.83	382.83	382.83
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	16.00	48.00
Net loan-Opening	382.83	382.83	382.83	366.83	334.83
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	16.00	32.00	32.00
Net Loan-Closing	382.83	382.83	366.83	334.83	302.83
Average Net Loan	382.83	382.83	374.83	350.83	318.83
Rate of Interest on Loan on Annual Basis	7.55	7.55	7.55	7.55	7.55
Interest on loan	28.9037	28.9037	28.2997	26.4877	24.0717

PBTSL loan (BOND-LXXVIII) -DOCO					
Gross Loan- Opening	248.02	248.02	248.02	248.02	248.02
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	10.37	31.10
Net loan-Opening	248.02	248.02	248.02	237.65	216.92
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	10.37	20.73	20.73
Net Loan-Closing	248.02	248.02	237.65	216.92	196.19
Average Net Loan	248.02	248.02	242.84	227.29	206.56
Rate of Interest on Loan on Annual Basis	7.38	7.38	7.38	7.38	7.38
Interest on loan	18.3039	18.3039	17.9216	16.774	15.2441

PBTSL Loan (Bond LXXIX) -DOCO					
Gross Loan- Opening	185.53	185.53	185.53	185.53	185.53
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	7.73	23.19
Net loan-Opening	185.53	185.53	185.53	177.80	162.34

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	7.73	15.46	15.46
Net Loan-Closing	185.53	185.53	177.80	162.34	146.88
Average Net Loan	185.53	185.53	181.67	170.07	154.61
Rate of Interest on Loan on Annual Basis	7.08	7.08	7.08	7.08	7.08
Interest on loan	13.1355	13.1355	12.8622	12.041	10.9464

PBTSL Loan (Bond LXXIX) Replaced with Proposed Loan -DOCO

Gross Loan- Opening	1,517.69	1,517.69	1,517.69	1,517.69	1,517.69
Cumulative repayments of Loans upto previous year	1,517.69	1,517.69	1,517.69	1,517.69	1,517.69
Net loan-Opening	0.00	0.00	0.00	0.00	0.00
Add: Drawl(s) during the year	0.00	0.00	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	0.00	0.00	0.00	0.00	0.00
Net Loan-Closing	0.00	0.00	0.00	0.00	0.00
Average Net Loan	0.00	0.00	0.00	0.00	0.00
Rate of Interest on Loan on Annual Basis	0.00	0.00	0.00	0.00	0.00
Interest on loan	0.00	0.00	0.00	0.00	0.00

Summary

Gross Loan- Opening	2,349.66	2,349.66	2,355.20	2,355.20	2,355.20
Cumulative repayments of Loans upto previous year	1,517.69	1,517.69	1,517.69	1,552.44	1,621.93
Net loan-Opening	831.97	831.97	837.51	802.76	733.27
Add: Drawl(s) during the year	0.00	5.54	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	0.00	0.00	34.75	69.49	69.49
Net Loan-Closing	831.97	837.51	802.76	733.27	663.78

Average Net Loan	831.97	834.74	820.16	768.03	698.54
Rate of Interest on Loan on Annual Basis	7.394	7.3967	7.3995	7.3998	7.4004
Interest on loan	61.5157	61.7431	60.6876	56.833	51.6948

(Petitioner)



Calculation of interest on Normative loan

Form No. - 9E

Name of the Transmission Licensee	Power Grid Bikaner Transmission System Ltd		
Project	Transmission System for Evacuation of Power from Rajasthan REZ PH-IV (Part-1) (Bikaner Complex)-Part-E		
Element Description	400/220 kV, 500 MVA T&R Make ICT-7 along with associated bays at 400/220 kV Bikaner-II SS		
Region	Corporate Centre	DOCO Date	Feb 3, 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	57.00	365.00	365.00	366.00	365.00
Gross normative loan-Opening	2,383.21	2,911.59	3,068.10	3,143.58	3,143.58
Cumulative repayments of Normative loan upto previous year	0.00	25.38	209.88	401.82	596.19
Net normative loan-Opening	2,383.21	2,886.21	2,858.22	2,741.76	2,547.39
Addition in normative loan towards the ACE	528.38	156.51	75.48	0.00	0.00
Adjustment of normative gross loan pertaining to the decapitalised asset	0.00	0.00	0.00	0.00	0.00
Normative repayments of normative loan during the year	25.38	184.50	191.94	194.37	194.37
Adjustment of cumulative repayment pertaining to the decapitalised asset	0.00	0.00	0.00	0.00	0.00
Net normative loan - closing	2,886.21	2,858.22	2,741.76	2,547.39	2,353.02
Average normative loan	2,634.71	2,872.22	2,799.99	2,644.58	2,450.21
Weighted Average Rate of interest on actual loan	7.394	7.3967	7.3995	7.3998	7.4004
Interest on normative loan	194.81	212.45	207.19	195.69	181.33
Pro rata interest on normative loan	30.42	212.45	207.19	195.69	181.33



Calculation of Depreciation Rate on Original Project Cost

Form No. - 10

Name of the Transmission Licensee	Power Grid Bikaner Transmission System Ltd		
Project	Transmission System for Evacuation of Power from Rajasthan REZ PH-IV (Part-1) (Bikaner Complex)-Part-E		
Element Description	400/220 kV, 500 MVA T&R Make ICT-7 along with associated bays at 400/220 kV Bikaner-II SS		
Region	Corporate Centre	DOCO Date	Feb 3, 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
2024-25						
Land(Freehold)	0.00	0.00	0.00	0.00	0.00	0.00
Civil & Building	0.00	0.00	0.00	0.00	3.34	0.00
Transmission Line	0.00	0.00	0.00	0.00	4.22	0.00
Sub Station	3,387.40	735.34	4,122.74	3,755.07	4.22	24.75
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/URTDSM/SCADA,etc	17.18	19.49	36.67	26.93	15.00	0.63
Batteries	0.00	0.00	0.00	0.00	9.50	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	6.33	0.00
TOTAL	3,404.58	754.83	4,159.41	3,782.00	0.00	25.38
Weighted Average Rate of Depreciation(%)					0.671074	

2025-26

Land(Freehold)	0.00	0.00	0.00	0.00	0.00	0.00
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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	4,122.74	217.97	4,340.71	4,231.73	4.22	178.58
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/URTDSM/SCADA,etc	36.67	5.61	42.28	39.48	15.00	5.92
Batteries	0.00	0.00	0.00	0.00	9.50	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	6.33	0.00
TOTAL	4,159.41	223.58	4,382.99	4,271.21	0.00	184.50
Weighted Average Rate of Depreciation(%)					4.319619	

2026-27

Land(Freehold)	0.00	0.00	0.00	0.00	0.00	0.00
Civil & Building	0.00	0.00	0.00	0.00	3.34	0.00
Transmission Line	0.00	0.00	0.00	0.00	4.22	0.00
Sub Station	4,340.71	105.05	4,445.76	4,393.24	4.22	185.39
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/URTDSM/SCADA,etc	42.28	2.78	45.06	43.67	15.00	6.55
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
TOTAL	4,382.99	107.83	4,490.82	4,436.91	0.00	191.94
Weighted Average Rate of Depreciation(%)					4.325984	



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	4,445.76	0.00	4,445.76	4,445.76	4.22	187.61
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/URTDISM/SCADA,etc	45.06	0.00	45.06	45.06	15.00	6.76
Batteries	0.00	0.00	0.00	0.00	9.50	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	6.33	0.00
TOTAL	4,490.82	0.00	4,490.82	4,490.82	0.00	194.37
Weighted Average Rate of Depreciation(%)					4.328163	

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	4,445.76	0.00	4,445.76	4,445.76	4.22	187.61
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/URTDISM/SCADA,etc	45.06	0.00	45.06	45.06	15.00	6.76
Batteries	0.00	0.00	0.00	0.00	9.50	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	6.33	0.00
TOTAL	4,490.82	0.00	4,490.82	4,490.82	0.00	194.37

Weighted Average Rate of Depreciation(%)					4.328163	
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(Petitioner)



Statement of Depreciation

Form No. - 10A

Name of the Transmission Licensee	Power Grid Bikaner Transmission System Ltd		
Project	Transmission System for Evacuation of Power from Rajasthan REZ PH-IV (Part-1) (Bikaner Complex)-Part-E		
Element Description	400/220 kV, 500 MVA T&R Make ICT-7 along with associated bays at 400/220 kV Bikaner-II SS		
Region	Corporate Centre	DOCO Date	Feb 3, 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	57.00	365.00	365.00	366.00	365.00
Life at the beginning of the year					
1.1 Weighted Average useful life of the Asset/Project	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
Capital Base					
1.4 Opening capital cost	3,404.58	4,159.41	4,382.99	4,490.82	4,490.82
1.5 Additional Capital Expenditure dr. the year	754.83	223.58	107.83	0.00	0.00
1.6 De-Capitalisation During the year	0.00	0.00	0.00	0.00	0.00
1.7 Closing capital cost	4,159.41	4,382.99	4,490.82	4,490.82	4,490.82
1.8 Average capital cost	3,782.00	4,271.21	4,436.91	4,490.82	4,490.82
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	26.93	39.48	43.67	45.06	45.06
1.11 Asset having 10% salvage value included in 1.8	3,755.07	4,231.73	4,393.24	4,445.76	4,445.76
1.12 Depreciable Value(1.10+90% of 1.11)	3,406.49	3,848.04	3,997.59	4,046.24	4,046.24
Depreciation for the period and Cum. Depreciation					
1.13 Weighted Average Rate of depreciation	0.671074	4.319619	4.325984	4.328163	4.328163

1.14 Depreciation(for the period)	25.38	184.50	191.94	194.37	194.37
1.15 Depreciation(Annualised)	25.38	184.50	191.94	194.37	194.37
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	25.38	209.88	401.82	596.19
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	25.38	209.88	401.82	596.19	790.56

(Petitioner)



Calculation of interest on working Capital

Form No. - 11

Name of the Transmission Licensee	Power Grid Bikaner Transmission System Ltd		
Project	Transmission System for Evacuation of Power from Rajasthan REZ PH-IV (Part-1) (Bikaner Complex)-Part-E		
Element Description	400/220 kV, 500 MVA T&R Make ICT-7 along with associated bays at 400/220 kV Bikaner-II SS		
Region	Corporate Centre	DOCO Date	Feb 3, 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	57.00	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	96.47	106.35	109.12	109.43	109.42
Total Working capital	138.75	150.87	155.93	158.67	161.36
Bank Rate as on 01.04.2024 or as on 01st April of the COD year, whichever is later.	11.90	11.90	11.90	11.90	11.90
Interest on working capital	16.51	17.95	18.56	18.88	19.20
Pro rata interest on working capital	2.58	17.95	18.56	18.88	19.20

(Petitioner)



Drawdown schedule Calculation of IDC & Financing Charges

Form No. - 12B

Name of the Transmission Licensee		Power Grid Bikaner Transmission System Ltd	
Project	Transmission System for Evacuation of Power from Rajasthan REZ PH-IV (Part-1) (Bikaner Complex)-Part-E		
Element Description	400/220 kV, 500 MVA T&R Make ICT-7 along with associated bays at 400/220 kV Bikaner-II SS		
Region	Corporate Centre	DOCO Date	Feb 3, 2025

(Amount in Rs. Lakh)

Particulars	Quarter 1			Quarter 2			Quarter n (COD)		
	Quantum in FC	Ex. Rate on Drawn Down Date	Amount in Indian Rupee	Quantum in FC	Ex. Rate on Drawn Down Date	Amount in Indian Rupee	Quantum in FC	Ex. Rate on Drawn Down Date	Amount in Indian Rupee
Loans									
Foreign Loans									
Total of Foreign Loans									
Indian Loans									
Loan 3 PBTS (BOND-LXXIV) -DOCO									
Draw Down Account									1.60
IDC									
Financing Charges									
Loan 4 PBTS (BOND LXXV) -DOCO									



Incidental Expenditure during Construction

PART-III
FORM- 12A

Name of the Transmission Asset: 400/220 kV, 500 MVA T&R Make ICT-7 along with associated bays at
400/220 kV Bikaner-II SS
Date of Commercial Operation: 03.02.2025

(Amount in Rs. Lakh)

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

S. No.	Parameters	Upto 31.03.2024	2024-25	Total
A	Expenses:			
1	Employees' Remuneration & Benefits			0.00
2	Finance Costs			0.00
3	Water Charges			0.00
4	Communication Expenses			0.00
5	Power Charges			0.00
6	Depreciation			0.00
7	Consultancy Charges	107.54	76.97	184.51
8	Other Office and Administrative Expenses			0.00
9	Others (Please Specify Details)			0.00
10	WIP transfer from CC			0.00
11	Other pre-Operating Expenses			0.00
	TOTAL	107.54	76.97	184.51
B	Total Expenses			
12	Less: Income from sale of tenders			0.00
13	Less: Income from guest house			0.00
14	Less: Income recovered from Contractors			0.00
15	Less: Interest on Deposits			0.00
16	Less: Int.Income.Temp.Fund			0.00
	TOTAL	0.00	0.00	0.00
	GRAND TOTAL	107.54	76.97	184.51

Note: IEDC should be duly reconciled with the corresponding figures of Auditor's Certificate.



Name of the petitioner	POWERGRID CORPORATION OF INDIA LIMITED	Details of Initial Spares
Claimed / Admitted COD	03.02.2025	Cut-off Date of the Asset: 31.03.2028

Name of Transmission Asset: Combined Asset:-
500 MVA, 400/220 KV, 3 Ph, CTT-7 along with associated bays at Bikaner Substation
DOCO-03.02.2025

A) Determination of Excess initial spare and its adjustment from Capital cost													
Particulars	Plant and machinery cost as on cut-off Date ¹	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 ³							
			2	3	4								5
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	3984.52	8.14	148.86	42.76	21.38	221.14	6.00%	239.07		-17.93			
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%						
Initial spare as per Books of Account		8.14	148.86	42.76	21.38	221.14		0		-17.93			
Un-Discharge liabilities included above		0.80	-0.8										
Total Capitalised initial spare		7.34	149.66	42.76	21.38	221.14							

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 IEDEC.



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		Year -1	Year-2	Year-3	
a	b	c	d	e	f	g	h=b-c-d-e-f-g	i	j	k
Transmission Line	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Substation Green field										
Substation Brown Field	3808.12	0.00	0.00	184.51	100.65	8.14	3514.82	328.88	93.88	46.94
Series Compensation devices and HVDC Station										3984.52
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
Communication System Static Synchronous Compensator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Note: 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 Limited		
2. Petition Category	Transmission		
3. Tariff Period	2024-29		
4. Name of the Project	Transmission system for evacuation of power from the Rajasthan REZ Ph-IV (Part-1) (Bikaner Complex) - Part-E		
5. Investment Approval date	06.06.2023		
6. SCOD of the Project	31.12.2024, 31.01.2025		
7. Actual COD of the project	30.12.2024,03.02.2025		
8. Whether entire scope is covered in the present petition.	No		
9. No. of Assets covered in instant petition	2		
10. No. of Assets having time over run	1		
11. Estimated Project Cost as per IA	Rs.202.39 Crs		
12. Is there any REC? if so, provide the date	NA		
13. Revised Estimated Project Cost (if any)	NA		
14. Completion cost for all the assets covered in the instant petition	Rs. 89.66 Crs		
15. No. of Assets covered in instant petition and having cost overrun	2		
16	Prayer in brief		
17	Key details and any Specific issue involved		
18	Respondents		
	Name of Respondents		
	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

(Petitioner)



PART-III														
Summary of Capital Cost & Annual Fixed Cost (AFC) Claimed for ALL the assets covered in the present petition.														
Name of the Petitioner		POWERGRID Bikaner Transmission System Limited												
Tariff Period		2024-29												
Name of the Transmission Project		Transmission system for evacuation of power from the Rajasthan REZ Ph-IV (Part-1) (Bikaner Complex) - Part-E												
COD of the Project (if entire scope of project is completed)		03.02.2025												
Rupees in lakh														
A) Summary of Capital Cost as on COD and Additional Capital Expenditure claimed for all the assets Covered in the instant petition.														
S. No.	Asset No.	COD	Cut-off Date	i) Apportioned Approved Cost As per IA	ii) Summary of Actual / Projected Capital Cost							Capital Cost as on Cut-off Date		
					As on COD	2024-25	2025-26	2026-27		Capital Cost as on 31.03.2026				
					5	6	7	8	9	10	11= (5+6+7+8+9+10)			
1	Asset-1	30-12-2024	31.03.2028	4047.8	3330.33	812.12	222	110.99		4475.44				
2	Asset-2	03-02-2025	31.03.2028	4047.8	3404.58	754.83	223.58	107.83		4490.82				
Total Capital Cost Claimed				8095.60	6734.91	1566.95	445.58	218.82	0.00	8966.26				
B) Summary of Annual Fixed Cost (AFC) claimed for all the assets covered in the instant petition.														
S. No.	Asset No.	Asset Name and its location												
1	Asset-1	400/220kV, 500 MVA T&R Make ICT-6 along with associated bays at 400/220kV Bikaner-II SS												
2	Asset-2	400/220kV, 500 MVA T&R Make ICT-7 along with associated bays at 400/220kV Bikaner-II SS												
Total AFC for all the Assets				317.22	1723.41	1768.52								
Note: 1) The purpose of this form is to summarise the Capital cost & AFC claimed for all the assets covered in the instant petition.														

(Petitioner)



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PART-III

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

Form No.	Title of Tariff Filing Forms (Transmission& Communication System)	Tick
FORM- 1	Summary of Tariff	✓
FORM- 1A	Summary of Asset level cost	✓
FORM-2	Details of Transmission Lines and Substations and Communication System covered in the project scope and O&M for instant asset	✓
FORM-3	Normative parameters considered for tariff computations	✓
FORM- 4	Abstract of existing transmission assets/elements under project, Determination of Effective COD and Weighted Average Life for single AFC for the project as whole.	✓
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	N.A.
FORM-5	Element wise Break-up of Project/ Asset/Element Cost for Transmission System or Communication System	N.A.
FORM-5A	Break-up of Construction/Supply/Service packages	N.A.
FORM-5B	Details of all the assets covered in the project	N.A.
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	N.A.
FORM- 12A	Incidental Expenditure during Construction	N.A.
FORM- 12B	Calculation of IDC & Financing Charges	N.A.
FORM- 13	Details of Initial spares	N.A.
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	✓
Other Information/ Documents		



S. No.	Information/Document	Tick
1	Certificate of incorporation, Certificate for Commencement of Business, Memorandum of Association, & Articles of Association (For New Project(s) setup by a company making tariff application for the first time to CERC)	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 Cverrun	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.
Note 1: Electronic copy of the petition (in words format) and detailed calculation as per these formats (in excel format) and any other information submitted has to be uploaded in the e-filing website and shall also be furnished in pen drive/flash drive.		

Petitioner

