

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

**PETITION FOR
APPROVAL OF TRANSMISSION TARIFF**

For

One no. 220 kV Line Bay (Bay no. 206) at Bhuj PS for providing Connectivity to M/s Ayana Renewable Energy Ltd. (100 MW) under "Implementation of one no. 220 kV line bay at Bhuj PS for providing connectivity to M/s NTPC Renewable Energy Ltd. (300 MW) in Western Region

Implemented by

Power Grid Corporation of India Ltd

For

TARIFF BLOCK: 2024-29

PETITION NO.....

Power Grid Corporation of India Ltd

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

BEFORE
THE CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI

PETITION NO.: .../TT/2025

IN THE MATTER OF: Petition for determination of transmission tariff for 2024-29 tariff block for *“One no. 220 kV Line Bay (Bay no. 206) at Bhuj PS for providing Connectivity to M/s Ayana Renewable Energy Ltd. (100 MW) under “Implementation of one no. 220 kV line bay at Bhuj PS for providing connectivity to M/s NTPC Renewable Energy Ltd. (300 MW)”* in Western Region under Section 62 read with Section 79(1)(d) of the Electricity Act, 2003, Regulation 15(1)(a) & Regulation 23 of Central Electricity Regulatory Commission (Conduct of Business) Regulations, 2023 and Central Electricity Regulatory Commission (Terms and Condition of Tariff) Regulations, 2024.

Power Grid Corporation of India Ltd

Registered office: B-9, Qutab Institutional Area,

Katwaria Sarai, New Delhi-110 016

Corporate Centre: 'SAUDAMINI', Plot No-2,

Sector-29, Gurgaon-122 001 (Haryana).

.....PETITIONER

Vs

Madhya Pradesh Power Management Company Ltd.

Shakti Bhawan, Rampur

Jabalpur - 482 008

Represented by Its MD

And others

.....RESPONDENT(S)

Petitioner

Dated: 27.06.2025

Place: Gurugram

(Naresh Kumar Angaru)

Deputy General Manager (Commercial)

BEFORE
THE CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI

PETITION NO.: .../TT/2025

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FILED BY

POWER GRID CORPORATION OF INDIA LTD.

Place: Gurugram

REPRESENTED BY

Dated:27.06.2025

(Naresh Kumar Angaru)

Deputy General Manager (Commercial)

**BEFORE
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Power Grid Corporation of India Ltd

.....PETITIONER

**Madhya Pradesh Power Management Company Ltd.
And others**

.....RESPONDENTS

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

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

**FILED BY
POWER GRID CORPORATION OF INDIA LTD.**

Place: Gurugram

REPRESENTED BY

Dated:27.06.2025

**(Naresh Kumar Angaru)
Deputy General Manager (Commercial)**

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Shakti Bhawan, Rampur

Jabalpur - 482 008

Represented by Its MD

And others

.....RESPONDENT(S)

MEMO OF PARTIES

1. MADHYA PRADESH POWER MANAGEMENT COMPANY LTD.

SHAKTI BHAWAN, RAMPUR, JABALPUR - 482 008

EMAIL-ANURAG.NAIK@MPPMCL.COM&COMML.DEPTT@MPPMCL.COM

CONTACT NO- 9425805876

REPRESENTED BY ITS MD

2. **MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD.**
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EMAIL- CEPPMSEDCL@GMAIL.COM
CONTACT NO- 9833387967
REPRESENTED BY ITS MD
3. **GUJARAT URJA VIKAS NIGAM LTD.**
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EMAIL- DECSP.GUVNL@GEBMAIL.COM
CONTACT NO- 7069009628
REPRESENTED BY ITS MD
4. **ELECTRICITY DEPARTMENT**
VIDYUT BHAWAN, GOVT. OF GOA, PANAJI, GOA - 403 001
EMAIL- CEE-ELEC.GOA@NIC.IN
CONTACT NO- 7350644000
REPRESENTED BY ITS CHIEF ENGINEER (ELECTRICAL)
5. **DNHDD POWER DISTRIBUTION CORPORATION LIMITED**
VIDYUT BHAWAN, 66KV ROAD, NEAR SECRETARIAT, AMLI, SILVASSA - 396 230
EMAIL- BHAVIKSHAH@TORRENTPOWER.COM
CONTACT NO- 9227758405
REPRESENTED BY ITS SECRETARY (FIN.)
6. **CHHATTISGARH STATE POWER DISTRIBUTION COMPANY LIMITED**
P.O. SUNDER NAGAR, DANGANIA, RAIPUR, CHHATTISGARH-492 013
EMAIL- CECOMCSEB@REDIFFMAIL.COM
CONTACT NO- 982618253
REPRESENTED BY ITS CHAIRMAN
7. **AYANA RNEWABLE POWER FOUR PRIVATE LIMITED**
S 2904, 29th floor, World Trade Center,
Brigade Gateway Campus, #26/1, Dr. Rajkumar Road,
Malleswaram Rajajinagar Bangalore 560055
narayanan@ayanapower.com
Represented By GM (Business Development)

8. NTPC Renewable Energy Ltd. (NTPC REL)

Engineering Office Complex, Plot-A-8A,
Sector-24, Noida, Uttar Pradesh - 201 301

Email: amanna@ntpc.co.in;
durgeshagarwal@ntpc.co.in;
rajivgupta@ntpc.co.in

FILED BY
POWER GRID CORPORATION OF INDIA LTD.

Place: Gurugram

REPRESENTED BY

DATED:27.06.2025

(Naresh Kumar Angaru)
Deputy General Manager (Commercial)

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Power Grid Corporation of India Ltd

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Madhya Pradesh Power Management Company Ltd.

.....RESPONDENT(S)

MEMO OF APPEARANCE

POWER GRID CORPORATION OF INDIA LTD.

-- PETITIONER

1. Shri Dilip Nagesh Rozekar, Executive Director (Commercial & RC), POWERGRID
2. V.C. Sekhar, Senior General Manager, POWERGRID
3. Shri Zafrul Hasan, General Manager, POWERGRID
4. Shri Naresh Kumar Angaru, Deputy General Manager, POWERGRID
5. Shri Vishal Sagar, Deputy General Manager, POWERGRID
6. Shri Arjun Malhotra, Manager (Law), POWERGRID

I, Naresh Kumar Angaru, the Petitioner above 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 27th day of June 2025.

PETITIONER
POWER GRID CORPORATION OF INDIA LTD.

Place: Gurugram

DATED:27.06.2025

(Naresh Kumar Angaru)
Deputy General Manager (Commercial)

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Shakti Bhawan, Rampur

Jabalpur - 482 008

Represented by Its MD

And others

.....RESPONDENT(S)

A. Executive Summary of the Petition:

(i) Brief Background of the Petitioner

1. The Petitioner herein, Power Grid Corporation of India Ltd. (Hereinafter referred to as **“POWERGRID/Petitioner”**) is a Government Company within the meaning of the Companies Act, 2013. POWERGRID is deemed transmission licensee in terms of Section 14 of the Electricity Act, 2003. POWERGRID by virtue of a transmission licensee is required to inter-alia build, maintain and operate an efficient, coordinated

and economical interstate transmission system (“ISTS”). POWERGRID operates and functions within the regulatory control of this Hon’ble Central Electricity Regulatory Commission (hereinafter referred to as “**Hon’ble Commission**”). Tariff for the transmission system established by POWERGRID 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):

POWERGRID has impleaded distribution licensees and Government departments of the respective states which are engaged in distribution of electricity in Western Region of India. The respondents are also ‘Designated Inter State Transmission Customer’ (hereinafter referred to as ‘DICS’) in terms of the 2020 Sharing Regulations from Western region.

(iii) Background of Transmission Assets:

2. POWERGRID is filing the present petition for determination of tariff for the following Asset which has been implemented under “**Implementation of one no. 220 kV line bay at Bhuj PS for providing connectivity to M/s NTPC Renewable Energy Ltd. (300 MW)**” in Western Region for the following:

Asset No	Asset Name	SCOD	DOCO
Asset-1	One no. 220 kV Line Bay (Bay no. 206) at Bhuj PS for providing Connectivity to M/s Ayana Renewable Energy Ltd. (100 MW)	27.02.2024	01.04.2025 (proposed)

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

Sl. No	Event	Date
1.	To facilitate evacuation of solar power from NTPC REL, construction of 220 kV Line bay at Bhuj PS is proposed. The Scheme was agreed in 10 th	30.08.2022 & 28.11.2022

Sl. No	Event	Date
	Consultation Meeting for Evolving Transmission Schemes in WR (CMETS-WR) held on 30.08.2022. CTUIL vide OM ref. no. C/CTU/AI/00/9 th CCTP dated 28.11.2022 has approved the implementation of the subject Transmission Scheme under RTM mode by POWERGRID (implementing agency)	
2.	CMETS in its 13 th meeting held on 08.12.2022 inter-alia approved <i>"Implementation of one no. 220 kV line bay at Bhuj PS for providing connectivity to M/s NTPC Renewable Energy Ltd. (300 MW)"</i> under Regulated Tariff Mechanism (RTM) mode and implementation was assigned to POWERGRID with SCOD as 28.02.2024.	22.12.2022 (Date of MoM)
3.	Investment Approval	18.04.2023
4.	NTPC REL surrendered their LTA (300 MW) and the same was informed in 20 th CMETS held on 04.08.2023	22.09.2023 (Date of MoM)
5.	CTUIL vide letter dated 03.10.2023 to CMD, POWERGRID, informed that considering the surrender of 300 MW connectivity granted to NTPC REL at Bhuj PS, implementation of 01 no. 220 kV bay (bay no. 206) at Bhuj PS may be deferred till further communication in this regards.	03.10.2023
6.	CTUIL vide letter dated 26.12.2023 to CMD, POWERGRID, informed that Connectivity for 100 MW to M/s Ayana Renewable Power Four Ltd. (ARP4PL) for its Hybrid Power Project in Gujarat was granted with start date of Connectivity as 31.03.2025 through ARP4PL – Bhuj PS 220 kV S/C line which shall be connected at Bhuj PS at Bay No. 206 and hence, implementation activities for 1 no. 220 kV Line Bay (bay No. 206) at Bhuj PS may be resumed by POWERGRID and to be implemented in matching time frame of the ARP4PL generation	26.12.2023

Sl. No	Event	Date
	project (i.e., 31.03.2025) which has been allocated bay at Bhuj PS.	
7.	43 rd , 44 th , 45 th , 46 th & 47 th JCC Meetings held on 28.03.2024, 27.06.2024, 27.09.2024, 26.12.2024 & 28.03.2025 with Generation & ISTS Transmission developers in WR	28.03.2024, 27.06.2024, 27.09.2024, 26.12.2024 & 28.03.2025
8.	CTU Certificate towards completion of Transmission System dated 23.05.2025 with date of Completion as 11.02.2025	23.05.2025

(v) **Summary of Claims:**

- POWERGRID is seeking determination of tariff for aforesaid transmission asset on estimated capital cost comprising of capital cost incurred upto Commercial Operation Date (“**COD**”) and projected additional capital expenditure in accordance with terms of Regulation 24 & 25 of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 (“**Tariff Regulations, 2024**”).
- The details of FR approved cost vis-à-vis claimed capital cost as on COD and additional capital expenditure during 2024-29 tariff block is as under:

(Rs. in lakhs)

Asset No.	Apportioned Approved Cost as per FR	Expenditure Up to proposed COD (01.04.2025)	Estimated expenditure during 2024-29 tariff block		Estimated completion Cost as on 31.03.2029
			2025-26	2026-27	
Asset-1	670.04	2.40	468.20	57.72	528.32

- Details of Cost Overrun:** There is no cost over-run for the subject Asset w.r.t. FR cost.
- Details of Time- Overrun:** There is no delay in implementation of the Asset as the commissioning of the Asset has been matched to the start of Connectivity granted

to Ayana Renewable Power Four Pvt Ltd. Same has been directed by CTUIL and has been discussed in various JCC Meetings.

7. Details of 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	0.00	60.18	102.11	105.92	105.20

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

B. Detailed Petition:

MOST RESPECTFULLY SHOWETH:

Issue wise submission(s):

1. The Petitioner herein, Power Grid Corporation of India Ltd/ POWERGRID is a Government Company within the meaning of the Companies Act, 1956. POWERGRID is a deemed transmission licensee under Section 14 of the Electricity Act 2003.
2. POWERGRID being transmission licensee is required to inter-alia build, maintain and operate an efficient, coordinated and economical interstate transmission system (ISTS).
3. That the Hon'ble Commission have notified CERC (Terms and Conditions of Tariff) Regulations, 2024, vide notification dated 15.03.2024 for a period of 5 years w.e.f. 01.04.2024. The tariff for the said transmission systems shall be determined by the Hon'ble Central Commission in accordance with the Tariff Regulations, 2024.
4. That the present petition covers approval of transmission tariff for following Asset:

Asset-1	<i>One no. 220 kV Line Bay (Bay no. 206) at Bhuj PS for providing Connectivity to M/s Ayana Renewable Energy Ltd. (100 MW)</i>	01.04.2025 (proposed)
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Approval of the Scheme

5. To facilitate evacuation of solar power from NTPC REL, construction of 220 kV Line bay at Bhuj PS is proposed. The Scheme was agreed in 10th Consultation Meeting for Evolving Transmission Schemes in WR (CMETS-WR) held on 30.08.2022.
6. CTUIL vide OM ref. no. C/CTU/AI/00/9th CCTP dated 28.11.2022 approved the implementation of ***“Implementation of one no. 220 kV line bay at Bhuj PS for providing connectivity to M/s NTPC Renewable Energy Ltd. (300 MW)”*** ('Transmission Scheme') under RTM mode by POWERGRID (implementing agency)
7. Subsequently, CMETS in its 13th meeting held on 08.12.2022 approved the ***“Implementation of one no. 220 kV line bay at Bhuj PS for providing connectivity to M/s NTPC Renewable Energy Ltd. (300 MW)”*** ('Transmission Scheme') under RTM mode by POWERGRID (implementing agency) with SCOD as 27.02.2024.
Copy of CTUIL OM dated 28.11.2022 and MoM of CMETS-WR dated 30.08.2022 & 08.12.2022 are attached as **Encl-1.**
8. That the investment approval of the project was accorded by CMD (POWERGRID) vide Memorandum dated 18.04.2023 at an estimated cost of ₹ 6.70 crore including Interest During Construction (IDC) of ₹ 0.16 crore based on December 2022 price level; a copy whereof is attached hereto as **Encl.-2.** Further, implementation schedule as per IA was 27.02.2024.
9. NTPC REL surrendered their LTA (300 MW) and the same was informed in 20th CMETS held on 04.08.2023. MoM attached as **Encl.-3.**

10. CTUIL vide letter dated 03.10.2023 to CMD, POWERGRID, informed that considering the surrender of 300 MW connectivity granted to NTPC REL at Bhuj PS, implementation of 01 no. 220 kV bay (bay no. 206) at Bhuj PS may be deferred till further communication in this regards. Copy of letter attached as **Encl-4.**
11. CTUIL vide letter dated 26.12.2023 to CMD, POWERGRID, informed that Connectivity for 100 MW to M/s Ayana Renewable Power Four Ltd. (ARP4PL) for its Hybrid Power Project in Gujarat was granted with start date of Connectivity as 31.03.2025 through ARP4PL – Bhuj PS 220 kV S/C line which shall be connected at Bhuj PS at Bay No. 206 and hence, implementation activities for 1 no. 220 kV Line Bay (bay No. 206) at Bhuj PS may be resumed by POWERGRID and to be implemented in matching time frame of the ARP4PL generation project (i.e., 31.03.2025) which has been allocated bay at Bhuj PS. Copy of letter attached as **Encl-5.**
12. The review of the Project along with generation status was taken periodically in various JCC Meetings. Minutes of Meetings of 43rd , 44th , 45th , 46th & 47th JCC Meetings held on 28.03.2024, 27.06.2024, 27.09.2024, 26.12.2024 & 28.03.2025 with Generation & ISTS Transmission developers in WR are attached collectively as **Encl-6.**
13. As per the investment approval dated 18.04.2023, subject project was scheduled to be commissioned by 27.02.2024, but keeping in view the surrender of 300 MW LTA by NTPC REL, grant of 100 MW LTA to Ayana Renewable Power Four Pvt. And re-allocation of bay no. 206 at Bhuj PS and in accordance with CTUIL letters dated 03.10.2023 & 26.12.2023, there is no delay in implementation of the Asset:

Asset	SCOD	DOCO	Delay (in days)
Asset-1	27.02.2024	01.04.2025 (proposed)	Nil (in line with CTUIL directives to POWERGRID vide letters dated 03.10.203 & 26.12.2023) & also as discussed and recorded in 43 rd , 44 th , 45 th , 46 th & 47 th JCC Meetings held on 28.03.2024, 27.06.2024, 27.09.2024, 26.12.2024 &

			28.03.2025 with Generation & ISTS Transmission developers in WR
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It is submitted that the entire scope of the instant project is completed and covered under the instant petition.

SCOPE OF WORK:

14. The scope of work covered under ***“Implementation of one no. 220 kV line bay at Bhuj PS for providing connectivity to M/s NTPC Renewable Energy Ltd. (300 MW)”*** is as follows:

**a) Extension of 400/220kV Bhuj (PG) substation
220kV**

- Line bay : 1 No.

The entire scope of the project is completed after commissioning of subject Asset.

The SLD and DPR extract of the scheme is attached hereto as **Encl. – 7.**

15. 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

With the commissioning of Asset-1, complete Transmission Scheme has been commissioned and the above condition has been met and the Petitioner is filing the instant petition in compliance with Regulation 9 of CERC Regulations, 2024.

16. **Approval of DOCO:**

It is submitted that as per the Regulation 5 of the CERC (Terms and Conditions of Tariff) Regulations, 2024, following provision is applicable for approval of DOCO by Hon'ble Commission in case of non-readiness of downstream transmission system of renewable generators.

CERC (Terms and Conditions of Tariff) Regulations, 2024, Chapter 2,

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

CERC (Indian Electricity Grid Code) Regulations, 2023, Chapter 5,

27.....

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

The instant Asset-1 was planned for evacuation of power from renewable generation. However, power flow in the petitioner scope of work could not be achieved due to non-readiness of downstream system at Bhuj PS (to be implemented by Ayana Renewable Power Four Pvt Ltd) and renewable generation is yet to come up.

Asset-1 has been idle charged on 11.02.2025 and proposed to be put under commercial operation w.e.f. 01.04.2025. Accordingly, approval of DOCO has been

sought under Regulation 5 of the CERC (Terms and Conditions of Tariff) Regulations, 2024 and Chapter-5 of CERC (Indian Electricity Grid Code) Regulations, 2023.

In support of readiness and Proposed DOCO of the Asset-1, the following details are submitted: -

Asset Description	Notice to RLDC	CEA Approval of energization date	Date of Completion of Asset	Proposed DOCO being claimed
One no. 220 kV Line Bay (Bay no. 206) at Bhuj PS for providing Connectivity to M/s Ayana Renewable Energy Ltd. (100 MW) - <u>Asset-1</u>	01.02.2025	09.02.2025	11.02.2025	01.04.2025

Asset-1 qualifies for approval of DOCO as per clause 5 of Tariff Regulations, 2024 and CERC (Indian Electricity Grid Code) Regulations, 2023.

In accordance with above it is prayed to the Hon'ble Commission to approve DOCO of Asset-1 as 01.04.2025 and allow full tariff as claimed under instant petition.

CEA Certificate, CMD Certificate, No load RLDC certificate & CTUIL Completion Certificate under clause 5 of Tariff Regulations, 2024 and CERC (Indian Electricity Grid Code) Regulations, 2023 for Asset-1 are enclosed hereto as **Encl-8.**

17. Implementation Schedule

- As per the 13th Consultation Meeting for Evolving Transmission Schemes in Western Region held on 08.12.2022, implementation schedule of 01 no. 220kV bay at Bhuj PS, SCOD shall be 28/02/2024. Accordingly, to match the generation schedule of the 300 MW project with transmission scheme SCOD, it was proposed that the start date of stage-II connectivity (300MW) shall be revised from 31/10/2023 to 28/02/2024 & LTA from 28/12/2023 to 28/02/2024. NTPC REL shall coordinate with POWERGRID to ensure matching development of RE generation with 220kV bay at Bhuj PS.
- NTPC REL surrendered their LTA (300 MW) and the same was informed in 20th CMETS held on 04.08.2023. MoM attached as **Encl.-3.**

- c. CTUIL vide letter dated 03.10.2023 to CMD, POWERGRID, informed that considering the surrender of 300 MW connectivity granted to NTPC REL at Bhuj PS, implementation of 01 no. 220 kV bay (bay no. 206) at Bhuj PS may be deferred till further communication in this regard. Copy of letter attached as **Encl-4.**
- d. CTUIL vide letter dated 26.12.2023 to CMD, POWERGRID, informed that Connectivity for 100 MW to M/s Ayana Renewable Power Four Ltd. (ARP4PL) for its Hybrid Power Project in Gujarat was granted with start date of Connectivity as 31.03.2025 through ARP4PL – Bhuj PS 220 kV S/C line which shall be connected at Bhuj PS at Bay No. 206 and hence, implementation activities for 1 no. 220 kV Line Bay (bay No. 206) at Bhuj PS may be resumed by POWERGRID and to be implemented in matching time frame of the ARP4PL generation project (i.e., 31.03.2025) which has been allocated bay at Bhuj PS. Copy of letter attached as **Encl-5.**
- e. As per 45th JCC meeting held on 27.06.2024, the Generation Schedule and Connectivity start date for M/s Ayana Renewable Power Four Pvt Ltd was scheduled as follows:

Generation Schedule:

37.5 MW – 31.10.2024

50 MW – 31.12.2024

43 MW – 28.02.2025

Connectivity Start date under GNA – 31.03.2025

- f. However, in subsequent meetings, generator has changed the commissioning schedule time and again which is detailed as follows:
- i. As per 46th JCC meeting held on 26.12.2024, the generation Schedule, Start of Connectivity & status of Dedicated Transmission Line (DTL) was as follows:

Generation Schedule:

37.5 MW- 31.03.2025

62.5 MW – 30.06.2025

DTL - ARP4PL – Bhuj PS 220 kV S/C line with associated line bay at generating station.
DTL awarded. Work under progress.

Connectivity Start date under GNA – 31.03.2025 (likely operationalization date)

- li. As per 47th JCC meeting held on 28.03.2025, the generation Schedule, Start of Connectivity & status of Dedicated Transmission Line (DTL) was as follows:

Generation Schedule:

37.5 MW (Solar) - 15.04.2025

92.8 MW (Wind) – 30.06.2025

DTL - ARP4PL – Bhuj PS 220 kV S/C line with associated line bay at generating station.
DTL awarded. Work under progress.

Connectivity Start date under GNA – 31.03.2025 (likely operationalization date)

Subject to the availability of the Bay being implemented under ISTS.

- g. The aligning of the implementation of 220 kV bay with the generation schedule & start of Connectivity date under GNA has been discussed in the various JCC meetings.

As evident from the above, the Petitioner has endeavored to align the implementation of instant transmission scheme with the associated renewable energy generation. Through our efficient and relentless efforts, and prudent practices in project planning and execution, Petitioner has completed its scope. That the Hon'ble Commission is requested to allow the IDC and IEDC for the completion of the subject asset, as the circumstances were beyond the Petitioner's control.

18. Estimated Completion Cost:

The present Petition for determination of tariff is filed in line with provision 9(1) of tariff Regulation 2024 applicable for 2024-29 period. The capital cost incurred 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 attached at **Encl-9**

(₹ in Lakhs)

Asset No.	Apportioned Approved Cost as per FR	Expenditure Up to proposed COD (01.04.2025)	Estimated expenditure during 2024-29 tariff block		Estimated completion Cost as on 31.03.2029
			2025-26	2026-27	
Asset-1	670.04	2.40	468.20	57.72	528.32

It may be seen from the above table that against the approved cost of ₹ 670.Lakh as per FR apportioned cost, the estimated completion cost is ₹528.32 Lakhs for Asset-1, which is within the FR Cost.

Cost variation:

The variation between estimated completion cost vis-à-vis approved cost for the Assets covered under instant petition are given as hereunder:

(₹ in Lakhs)

Asset No.	Apportioned FR Approved Cost (a)	Estimated completion Cost (b)	Cost Variation (c=a-b)
Asset-1	670.04	528.32	141.72

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

Some of the equipment which has significant cost variation is as tabulated below:

Asset-1: -

(₹ in Lakhs)

Sl. No	Description	Cost as per FR	Estimated Capital Cost	Variation (-decrease, +increase)
		a	b	c = b - a
	Substations			
1	220kV Control, Relay & Protection Panel	23.27	58.68	35.41
2	Bus Bars / conductors / insulators	23.22	7.41	-15.81
3	IT	100.22	35.79	-64.43
4	Spares	70.16	33.54	-36.62
5	Over heads (including IEDC)	79.05	0.26	-78.80
6	Interest During Construction (IDC)	16.07	0.01	-16.06

Further, salient reasons of Cost Variation w.r.t. FR for is given here as under:

Cost variation in the Substation equipment including initial spares

It is submitted that through open competitive bidding process, most competitive market prices for required product/services/as per detailed designing is obtained and contracts are awarded on the basis of lowest evaluated responsive 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. It is submitted that the cost estimate of the project is on the basis of December, 2022 price level.

Further, regarding variation in cost of individual items 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 an 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. Also, the quantities of lot items vary due to actual site conditions during execution.

Variation in IDC:

Variation in IDC is attributable to variation in the rate of interest considered in FR, Actual interest rates, and deployment of funds based on actuals. It may be mentioned that in FR, IDC was calculated considering the interest rate @9.70% of domestic loans subject to actuals. The actual IDC accrued up to DOCO has been considered in the Auditor Certificate.

Variation in IEDC:

In the Investment approval, IEDC and Contingency have been considered @ 10.75% and 3% respectively, whereas based on the actual expenditure under the subject head, IEDC has been considered in the Auditor Certificate.

Tariff for the instant asset has been claimed on the basis of Capital Cost as on actual DOCO and projected expenditure during 2024-29. Hence, it is humbly prayed that Tariff may be allowed on the completion cost for the asset covered under instant Petition.

19. DETAILS OF THE INITIAL SPARES:

The Initial spares for the Assets have been calculated as per Regulation 23(d) of the Tariff Regulations, 2024 which 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

Considering the aforesaid Regulation, the initial spares are calculated as under:

(₹ in Lakhs)

Assets	Particulars	Cost for Spare Calculation (A)	Initial Spares Claimed (B)	Ceiling Limit (%) (C)	Initial Spares Allowable (D)	Excess initial spares
						[B-D]
Asset-1	Substation (AIS Brown Field)	474.50	33.54	6.0	30.29	3.25

It is submitted that the Initial spares under Sub-station (AIS Brown Field) head for the Asset-1 is in excess w.r.t. the specified allowable limit under Regulation 23 of the Tariff Regulations, 2024.

20. DETAILS OF ADDITIONAL CAPITALIZATION

The details of additional capitalization (Add Cap) claimed during 2024-29 tariff block is given as hereunder:

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

“Additional Capitalization”

(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.

Cutoff date:

Sl. No.	Asset	DOCO date	Cutoff date
1	Asset-1	01.04.2025 (proposed)	31.03.2028

21. Add cap for 2024-29 block:

Asset	Add cap detail (Rs. Lakhs)				
	2024-25	2025-26	2026-27	2027-28	2028-29
Asset-1	-	468.20	57.72	-	-
	Applicable regulation (Tariff Regulations, 2024)				
	-	24(1)(a)	24(1)(a)	-	-

- 22.** The additional Capitalisation incurred/projected to be incurred in the contextual assets is on account of Balance/Retention Payments for work executed under cut off date and hence, the same may be allowed by the Hon'ble Commission under Regulation 24(1)(a) of Tariff Regulations, 2024. That the liability flow statement is enclosed as **Encl-10.**

23. TRANSMISSION TARIFF FOR 2024-29 BLOCK:

That as per regulation 8(1) (i) & (ii), 14 (5) and regulation 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.

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

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	Expenditure	Building and civil works	S/S	Communication system excluding OPGW	IT eqpt	Batteries	Total
1	Expenditure upto DOCO As per Auditor Certificate	2.40	0.00	0.00	0.00	0.00	2.40
2	Less: Accrual IDC undischarged upto DOCO	0.01	0.00	0.00	0.00	0.00	0.01
3	Expenditure upto DOCO Excluding Accrual IDC	2.39	0.00	0.00	0.00	0.00	2.39
4	Estimated Add Cap during 2025-26 as per auditor certificate	10.00	425.34	0.00	32.86	0.00	468.20
5	Add: Accrual IDC Discharge during FY 2025-26	0.01	0.00	0.00	0.00	0.00	0.01
6	Expenditure 2025-26 (Including Accrual IDC)	10.01	425.34	0.00	32.86	0.00	468.21
7	Estimated expenditure during 2026-27 (As per auditor certificate)	7.87	46.92	0.00	2.93	0.00	57.72
8	Total Estimated Completion Cost	20.27	472.26	0.00	35.79	0.00	528.32

- 24.** 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. It is submitted that mismatch between Form-9C and Statement of cash IDC is due to deduction of loan from DOCO in Form-9C due to Add-cap for Accrual IDC to maintain Debt: Equity ratio of 70:30.

Further, the entire amount of IEDC for the instant asset has been discharged as on DOCO. **Cash IDC details are mentioned at table given at S. No. 24 above.**

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

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	0.00	60.18	102.11	105.92	105.20

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

- 27.** Under CGST Act, 2017 implemented w.e.f. 01.07.2017, the Govt. of India has exempted the charges of transmission of electricity vide notification no. 12/2017 -

Central Tax (Rate) dated 28.06.2017 at serial no. 25 under the heading 9969 "Transmission or distribution of electricity by an electric transmission or distribution utility" by giving applicable GST rate as NIL. Hence, the Transmission Charges as indicated at Para 25 above is exclusive of GST. Further, if GST is levied at any rate and at any point of time in future on Charges of Transmission of Electricity, the same shall be borne and additionally paid by the respondent(s) to the petitioner and the same shall be charged & billed separately by the petitioner. Further additional taxes, if any, are to be paid by the petitioner on account of demand from Govt. / Statutory authorities, the same may be allowed to be recovered from the beneficiaries.

28. In the tariff calculation for 2024-29 period, Interest on Loan has been calculated on the basis of rate prevailing as on DOCO / 01.04.2024 for respective loans. The change in Interest rate due to 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.
29. The transmission charges at para-25 above is inclusive of O&M expenses derived for the subject asset based on the norms for O&M expenditure for Transmission System as specified under regulation 36 (3) (a & d) of the tariff regulations for block 2024-29 but excludes security expenses, Insurance and capital spares as provided in the Regulation.
30. 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 has been 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. Petition Number being 330/MP/2025.

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.

31. The application filing fee, expenses incurred on publication of Notices in Newspapers and License fee may be allowed to be recovered separately from the respondents in terms of Regulation 94(1) of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024. The fees and charges to be paid by the petitioner as ISTS licensee (deemed ISTS licensee) under CERC (Fees and Charges of RLDC and other matters) Regulations as amended from time to time shall also be recoverable from the DICs as provided under clause 94 (3) of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024.
32. The Transmission Charges and other related Charges indicated at Para 25 above, is exclusive of incentive, late payment surcharge, FERV, any statutory taxes, levies, duties, cess, filing fees, license fee, RLDC fees and charges or any other kind of imposition (s) and/ or other surcharges etc. whatsoever imposed / charged by any Government (Central/State) and / or any other local bodies/authorities/regulatory authorities in relation to transmission of electricity, environmental protection, and/or in respect of any of its installation associated with the Transmission System and the same shall be borne and additionally paid by the respondent(s) to the petitioner and the same shall be charged, billed separately by the petitioner on the respondents.

Sharing of Transmission Charges

33. Tariff for Transmission of Electricity (Annual Fixed Cost) for 2024-29 as per para 25 above shall be recovered on monthly basis in accordance with Regulation 78 of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 and shall be shared by the beneficiaries and long-term transmission customers in Central Electricity Regulatory Commission (Sharing of Inter State Transmission Charges and Losses) Regulations, 2020 or as amended from time to time.
34. 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 integral part of this petition.

PRAYER

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

- 1) Admit the capital cost as claimed in the Petition and approve the Additional Capitalization incurred / projected to be incurred.
- 2) 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.
- 3) Approve the transmission tariff for 2024-29 block for the asset covered under this petition, as per Para 25 above.
- 4) Allow the petitioner to recover the shortfall or refund the excess Annual Fixed Charges, on account of Return on Equity due to change in applicable Minimum Alternate/Corporate Income Tax rate as per the Income Tax Act, 1961 (as amended

from time to time) of the respective financial year directly without making any application before the Commission as provided in Tariff Regulation 2024 as per para 28 above for respective block.

- 5) 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.
- 6) 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.
- 7) 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 beneficiaries.
- 8) Allow the petitioner to claim the overall insurance expenses and consequential IOWC on that insurance expenses separately as mentioned at Para 30 above.
- 9) Allow the petitioner to file a separate petition before Hon'ble Commission for claiming the overall capital spares at the end of tariff block as per actual as mentioned at Para 30 above.
- 10) 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 and

- 11) Pass such other relief as Hon'ble Commission deems fit and appropriate under the circumstances of the case and in the interest of justice.

GURUGRAM

DATED:27.06.2025

**FILED BY
POWER GRID CORPORATION OF INDIA LTD.**

REPRESENTED BY

**(Naresh Kumar Angaru)
Deputy General Manager (Commercial)**

BEFORE
THE CENTRAL ELECTRICITY REGULATORY COMMISSION,
NEW DELHI

PETITION NO.: .../TT/2025

IN THE MATTER OF: Petition for determination of transmission tariff for 2024-29 tariff block for ***“One no. 220 kV Line Bay (Bay no. 206) at Bhuj PS for providing Connectivity to M/s Ayana Renewable Energy Ltd. (100 MW) under “Implementation of one no. 220 kV line bay at Bhuj PS for providing connectivity to M/s NTPC Renewable Energy Ltd. (300 MW)”*** in Western Region under Section 62 read with Section 79(1)(d) of the Electricity Act, 2003, Regulation 15(1)(a) & Regulation 23 of Central Electricity Regulatory Commission (Conduct of Business) Regulations, 2023 and Central Electricity Regulatory Commission (Terms and Condition of Tariff) Regulations, 2024.

Power Grid Corporation of India Ltd

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

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

---PETITIONER

Vs

Madhya Pradesh Power Management Company Ltd.

Shakti Bhawan, Rampur

Jabalpur - 482 008

Represented by Its MD

and Others

---RESPONDENTS

AFFIDAVIT VERIFYING THE PETITION

I, Naresh Kumar Angaru, S/O Late Sh Angaru Yanadi, working as Deputy General Manager (Commercial) in the Power Grid Corporation of India Ltd., having its registered Office at B-9, Institutional Area, Katwaria Sarai, New Delhi-110 016, do hereby solemnly affirm and state as under: -



1. That the deponent is the Deputy General Manager of Petitioner and is well conversant with the facts and the circumstances of the case and therefore competent to swear this affidavit.
2. 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. That the contents of Para 01 to 34 of the facts as mentioned in the Petition are true and correct based on my personal knowledge, belief and records maintained in the office and the contents of Para 01 to 34 of the Petition are believed to be true on the basis of the legal advice received.
4. That the annexures annexed to the Petition are correct and true copies of the respective originals.
5. That the Deponent has not filed any other Petition or Appeal before any other forum or court of law with respect to the subject matter of the dispute


(DEPONENT)

VERIFICATION

Solemnly affirmed at Gurugram on this 27th day of June 2025 that the contents of the above affidavit are true to my knowledge and belief and no part of it is false and nothing material has been concealed there from.




(DEPONENT)

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





पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड
(भारत सरकार का उद्यम)
POWER GRID CORPORATION OF INDIA LIMITED
(A Government of India Enterprise)

Ref: CC/Commercial/2024

Date: 28.08.2024

LETTER OF AUTHORIZATION

In reference to the POWER OF ATTORNEY dated 14.08.2024 and in supersession of letter of authorization dated 13.12.2022 I hereby authorize following executives to sign Petitions, Appeals, Vakalatnama, Affidavits, etc. and to represent POWERGRID before various forums/ courts / tribunals i.e Central Electricity Regulatory Commission, State Electricity Regulatory Commission, Appellate Tribunal for Electricity, High courts and Supreme Court etc. :

1. Sh. Mohd. Mohsin, Chief General Manager
2. Sh. V. C. Sekhar, Senior General Manager
3. Sh. Zafrul Hasan, General Manager

Further, following executives are authorised to represent cases before Central Electricity Regulatory Commission and Appellate Tribunal for Electricity

1. Sh. Angaru Naresh Kumar, Deputy General Manager
2. Smt. Suchitra Gautam, Deputy General Manager
3. Sh. Vishal Sagar, Deputy General Manager
4. Sh. G. Vijay, Deputy General Manager
5. Sh. Vivek Kumar Singh, Deputy General Manager
6. Sh. Amit Kumar Chachan, Deputy General Manager
7. Smt. Supriya Singh, Chief Manager (Law)
8. Sh. Arjun Malhotra, Manager (Law)
9. Smt. Tanushree Rao, Deputy Manager (Law)


28/08/2024
Dilip Nagesh Rozekar

Executive Director (Commercial & RC)

दिलीप रोजेकर / DILIP ROZEKAR

Executive Director (Commercial & Regulatory Cell)
पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड
Power Grid Corporation of India Ltd.
(भारत सरकार का उद्यम) / (A Govt. of India Enterprise)
Plot No.-2, Sector-29, Gurgaon- 122 001 (Haryana)



केन्द्रीय कार्यालय : "सौदामिनी" लॉट सं. 2, सेक्टर-29, गुरुग्राम-122001, (हरियाणा), दूरभाष : 0124-2571700-719
Corporate Office : "Saudamini" Plot No. 2, Sector-29, Gurugram-122001, (Haryana) Tel. : 0124-2571700-719

पंजीकृत कार्यालय : बी-9, कुतुब इंस्टीट्यूशनल एरिया, कटवारिया सड़क, नई दिल्ली-110016 011-26560112, 26564812, 26564812, 26564892, सीआईएन : L40101DL1989GOI038121
Registered Office : B-9, Qutab Institution Area, Katwaria Sare, New Delhi-110016. Tel.: 011-26560112, 26564812, 26564892, CIN : L40101DL1989GOI038121
Website : www.powergridindia.com

LETTER OF AUTHORISATION

Ref: CC/COMML/POA/LCA/2025-01

Date: 24.01.2025

In reference to the POWER OF ATTORNEY dated 14.08.2024 I hereby authorize Sh. Naresh Kumar Angaru, Deputy General Manager (Commercial) to sign Petitions, Appeals, Vakalatnama, Affidavits, etc. and to represent POWERGRID before various forums/ courts / tribunals i.e. Central Electricity Regulatory Commission, State Electricity Regulatory Commission, Appellate Tribunal for Electricity, High courts and Supreme Court etc.



Dilip Nagesh Rozekar

Executive Director (Commercial & RC)

दिलीप रोजेकर / DILIP ROZEKAR
Executive Director (Commercial & Regulatory Cell)
पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड
Power Grid Corporation of India Ltd.
(भारत सरकार का उद्यम) / (A Govt. of India Enterprise)
Plot No.-2, Sector-29, Gurgaon- 122 001 (Haryana)



केन्द्रीय कार्यालय : "सौदामिनी", प्लॉट नं. 2, सेक्टर-29, गुरुग्राम-122001, (हरियाणा), दूरभाष : 0124-2822012

Corporate Office : "Saudamini", Plot No. 2, Sector-29, Gurugram-122001, (Haryana), Tel.: 0124-2822012

पंजीकृत कार्यालय : बी-9, कुतुब इंस्टीट्यूशनल एरिया, कटवारिया सराय नई दिल्ली - 110 016 दूरभाष : 011-26560112, 26560115, 26560193, सीआईएन : L40101DL1989GOI038121
Registered Office : B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi-110 016. Tel.: 011-26560112, 26560115, 26560193, CIN : L40101DL1989GOI038121

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: CTU/W/00/10th CMETS-WR

Date: 20.09.2022

As per distribution list

Subject: Minutes of the 10th Consultation Meeting for Evolving Transmission Schemes in Western Region (CMETS-WR) held on 30.08.2022 – reg.

Dear Sir,

Please find enclosed the minutes of 10th Consultation Meeting for Evolving Transmission Schemes in Western Region (CMETS-WR) held on 30.08.2022 through video conferencing.

The minutes are also available at our website (www.ctuil.in >> *ISTS Planning and Coordination* >> *Consultation Meetings for ISTS*).

Thanking you,

Yours faithfully,



(Partha Sarathi Das)
Sr. General Manager

Encl.: As above

Distribution List:

1. Chief Engineer (PSP&A – I) Central Electricity Authority Sewa Bhawan, R.K.Puram, New Delhi-110 066.	2. Director (Transmission/GEC) Ministry of New and Renewable Energy, Block 14, CGO Complex, Lodhi Road, New Delhi-110003
3. Member Secretary Western Regional Power Committee MIDC area, Marol, Andheri East, Mumbai 400 093	4. Director (Power System) Solar Energy Corporation of India Ltd. D-3, 1 st Floor, A wing, Religare Building, District Centre, Saket, New Delhi-110017
5. Managing Director Gujarat Energy Transmission Corp. Ltd, Sardar Patel Vidyut Bhawan, Race Course, Vadodara -390 007	6. Director (Operation) Maharashtra State Electricity Transmission Co. Ltd., 4 th Floor, "Prakashganga", Plot No. C-19, E-Block, Bandra – Kurla Complex, Bandra(East), Mumbai- 400051
7. Managing Director Chhattisgarh State Power Transmission Co. Ltd., Dangania, Raipur- 492 013	8. Chairman & Managing Director Madhya Pradesh Power Transmission Co. Ltd., Block No. 3, Shakti Bhawan, Rampur, Jabalpur-482 008
9. Executive Engineer Administration of Union Territory of Dadra & Nagar Haveli and Daman & Diu Secretariat, Moti Daman - 395 220	10. The Chief Engineer Electricity Department The Government of Goa, Panaji
11. Executive Director Western Regional Load Despatch Centre F-3, M.I.D.C. Area, Marol, Andheri East, Mumbai-400 093	12. Director (SO) POSOCO 9 th Floor, IFCI Towers, 61, Nehru Place, New Delhi - 110019

Applicants

1. Vice President VEH JAYIN RENEWABLES PRIVATE LIMITED Plot No: 38, Phase-2, 1st Floor, N-Heights, Hitech City, Siddiq Nagar, Hyderabad- 500081, Telangana Mob. 9623470996 Email: cgvlk@vibrantenergyholdings.com hjinaga@vibrantenergyholdings.com	2. DGM NTPC RENEWABLE ENERGY LIMITED PLOT-A-8A; NTPC LIMITED; ENGINEERING OFFICE COMPLEX, SECTOR-24, Noida, UP Mob. 9650997835 Email: amanna@ntpc.co.in ssmishra@ntpc.co.in
3. DGM- Business Development Sprng Vayu Vidyut Private Limited Off A-001, Upper Ground, P-5, Pentagon Tower Magarpatta City, Hadapsar, Pune- Maharashtra-411013 sumitjoge@sprngenergy.com avinashmiraikar@sprngenergy.com	4. AVP Reliance Industries Ltd. Village Mora, PO Bhatha, Surat, Hazira Road, Gujarat Mob. 7977624751 Email: mukesh.rathod@ril.com ashok3.singh@ril.com
5. AVP (Head-Projects) BALCO Cosmos Building, BALCO Nagar, Korba, Chhattisgarh Devendra.patel@vedanta.co.in nitinkumar.gupta@vedanta.co.in md.zeyanddin@vedanta.co.in	6. Manager ABC SOLAR (INDIA) PRIVATE LIMITED Plot No. 47, 48, 49, Street No. 1, 2nd Avenue, Patrika Nagar, Madhapur, Seri Lingampalli (M), Rangareddi, Hyderabad, TG-500081 ksharma@brookfieldrenewable.in pkanauia@brookfieldrenewable.in
7. AVP ACME SOLAR HOLDINGS PRIVATE LIMITED Plot No.: 152 Sector 44, Gurugram-122002 Mob. 8744060601 Email: yogesh@acme.in apradhan@acme.in	8. Authorized Signatory Project Ten Renewable Power Pvt. Ltd. S2904, 29TH Floor, World Trade Centre, Brigade Gateway Campus Karnataka Email: narayanan@ayanapower.com ananth@ayanapower.com
9. General Manager Green Infra Wind Energy Ltd. Building No. 8, DLF Cyber City Gurugram- Haryana Email: ankur.rajan@sembcorp.com pawan.sharma@sembcorp.com	10. Manager Azure Power India Pvt Ltd. 5 th Floor, southern Park, D-II, Saket Place Delhi Email: wind.pd@azurepower.com shashank.gupta@azurepower.com

Other Invitee(s):

- 11. Director (Projects)**
Power Grid Corporation of India Ltd.
“Saudamini”, Plot No. 2, Sector 29, Gurgaon
– 122001
achoudhary@powergrid.in
deepak.consul@powergrid.in

Minutes of the 10th Consultation Meeting for Evolving Transmission Schemes in Western Region (CMETS-WR) held on 30.08.2022

The 10th Consultation Meeting for Evolving Transmission Schemes in Western Region (CMETS-WR) was held on 30.08.2022. List of participants is enclosed at **Annexure-VII**. Sr. GM (CTU) welcomed the participants. Thereafter, deliberations as per the agenda commenced and the gist of deliberations are as given below.

1.0 Confirmation of Minutes of the previous meeting

The minutes of the 9th Consultation Meeting for Evolving Transmission Schemes in Western Region (CMETS-WR) held on 28.07.2022 were issued vide letter dated 24.08.2022. As no comments were received, the same were confirmed as circulated.

A. Application related matters in Western Region

2.0 Proposal for grant of Connectivity to various RE applicants in Western Region

Stage-I Connectivity

2.1 It was informed that the details of Stage-I connectivity applications received in the month of Jul'22 along with proposal for grant of Stage-I connectivity is as given below:

Sl.	Stage-I Application No	Name of Applicant (Organization)	Applicant Type	Stage-I Conn Quantum (MW)	Connectivity required from	ISTS Substation at which connectivity is proposed	Proposed Dedicated Transmission System for Stage-I connectivity (under scope of applicant)
1.	0130700002	NTPC Renewable Energy Limited	Generator (Solar)	300	01.10.2023	765/400/220kV (Existing) Bhuj	PS • NTPC REL (Kharadiya) – Bhuj PS 220kV S/c line
2.	0130700003	NTPC Renewable Energy Limited	Generator (Wind)	150	30.04.2023	765/400/220kV (Existing) Bhuj	PS • Interconnection of NTPC REL wind project to Pooling station of Inox Green Energy Services Limited (IGESL) (300MW), (existing) • IGESL (Dayapar) - Bhuj PS 220kV D/c line (with minimum capacity of 776MW at nominal voltage)-

Sl.	Stage-I Application No	Name of Applicant (Organization)	Applicant Type	Stage-I Conn Quantum (MW)	Connectivity required from	ISTS Substation at which connectivity is proposed	Proposed Dedicated Transmission System for Stage-I connectivity (under scope of applicant)
							Already commissioned (NTPC REL shall share above line of M/s IGESL(300MW), which is also being shared with Wind One Renergy Pvt. Ltd. (50MW), Wind Two Renergy Pvt. Ltd. (50MW), Wind Three Renergy Pvt. Ltd. (50MW), Wind Five Renergy Pvt. Ltd. (50MW) and Continuum Power Trading (TN) Pvt. Ltd. (126MW))

The applicants agreed with the above proposal. After deliberations, it was agreed to grant Stage-I connectivity to above applicants as per details given in table above.

Stage-II Connectivity

- 2.2 It was informed that the details of Stage-II connectivity applications received in the month of Jul'22 along with proposal for grant of Stage-II connectivity is as given below:

Sl.	Stage-I Application No	Name of Applicant (Organization)	Stage-I Conn Quantum (MW)	Stage-II Application No	Stage-II Conn Quantum (MW)	Date: Stage-II connectivity required	ISTS Substation at which connectivity is proposed	Proposed Dedicated Transmission System for Stage-II connectivity (under scope of applicant)
1.	0130700002 (Applied)	NTPC Renewable Energy Limited	300 (Applied)	0230700002	300 (SECI LOA of 450MW Hybrid Project)	31.10.2023 (Revised date agreed by applicant to better match with ISTS bay at Bhuj PS) 01.10.2023 (Original)	765/400/220kV Bhuj PS (Existing)	NTPC REL (Kharadiya) – Bhuj PS 220kV S/c line (on D/c tower)* along with associated bay at Generation end. Implementation modality of bay at Bhuj PS (ISTS) end was deliberated and based on request of applicant, the same was agreed to be implemented under ISTS matching with start date of St-II connectivity i.e. 31.10.2023, subject to minimum implementation schedule of 12 months from date of allocation to implementing agency.
2.	0130700003 (Applied)	NTPC Renewable Energy Limited (NTPC REL)	150 (Applied)	0230700003	150 (SECI LOA of 450MW Hybrid Project)	30.04.2023	765/400/220kV Bhuj PS (Existing)	- Interconnection of NTPC REL wind project to Pooling station of Inox Green Energy Services Limited (IGESL) (300MW), (existing)^ - IGESL (Dayapar) - Bhuj PS 220kV D/c line along-with associated bays at both ends (with minimum capacity of 776MW at nominal voltage)- Already commissioned (NTPC REL shall share above line of M/s IGESL(300MW), which is also being shared with Wind One Renergy Pvt. Ltd. (50MW), Wind Two Renergy Pvt. Ltd. (50MW), Wind Three Renergy Pvt. Ltd. (50MW), Wind Five Renergy Pvt. Ltd. (50MW) and Continuum Power Trading (TN) Pvt. Ltd. (126MW))

Sl.	Stage-I Application No	Name of Applicant (Organization)	Stage-I Conn Quantum (MW)	Stage-II Application No	Stage-II Conn Quantum (MW)	Date: Stage-II connectivity required	ISTS Substation at which connectivity is proposed	Proposed Dedicated Transmission System for Stage-II connectivity (under scope of applicant)
3.	0131300003 (Granted)	VEH Jayin Renewables Private Limited (VJRPL)	300 (Granted)	0231300002	151.8 (L&FC) (Hybrid)	29.03.2024	400/220kV Rajgarh S/s (Existing)	- VJRPL – Rajgarh (PG) 220kV S/c line (on D/c tower)* along with associated line bay at generation end Additional transmission system under ISTS 220kV bus extension (GIS) of Rajgarh 400/220 kV (PG) S/s along with 220kV Bus Coupler bay for extended bus 220kV bus sectionalizer bay(GIS) between existing & extended 220 kV bus of Rajgarh S/s 220kV GIS line bay at Rajgarh 400/220 kV (PG) S/s (on extended bus) for RE interconnection
4.				0331300002	38.4 (L&FC) (Wind)	29.03.2024		

*Based on request of applicant during the meeting

^ M/s NTPC REL has applied for 150MW Stage-II Connectivity under Clause 14.3 for sharing the dedicated line (220kV D/c) and bays granted to M/s Inox Green Energy Services Limited (IGESL) (300MW), already shared with Wind One Renergy Pvt. Ltd. (50MW), Wind Two Renergy Pvt. Ltd. (50MW), Wind Three Renergy Pvt. Ltd. (50MW), Wind Five Renergy Pvt. Ltd. (50MW) and Continuum Power Trading (TN) Pvt. Ltd. (126MW) at Bhuj PS. M/s NTPC REL has also submitted Sharing Agreement signed among IGESL & NREL for sharing of common dedicated infrastructure. However, capacity of common infrastructure mentioned in the sharing agreement is 750MW whereas required cumulative capacity would be 776MW. During the meeting NTPC REL confirmed that capacity of common infrastructure shall be for 776MW and necessary amendment in Sharing agreement shall be executed by them with IGESL and copy of the same shall be submitted to CTU. Subsequently, NTPC vide e-mail dated 04.09.2022 shared the revised sharing agreement mentioning capacity of common infrastructure as 776MW.

2.3 NTPC REL agreed with the proposal given above for applications at Sl. 1 & 2 and informed that they are planning to implement the 220kV S/c line upto Bhuj PS for application at Sl. 1 on D/c towers. In this respect, NTPC REL was requested to intimate the above details in writing along with an undertaking (finalized by CEA & CTU), the format of which shall be shared after the meeting. The applicants agreed to provide the undertaking. The undertakings were subsequently received from the NTPC REL & VJRPL vide letters dated 04.09.2022 & 08.09.2022 respectively.

10. Surplus power from CPP in drawee entity shall not be allowed to be sold.
11. The cumulative injection or drawl from 400 kV Dharamjaygarh S/s to be limited to the capability of BALCO network with consideration of N-1 contingency in following network.

Transmission network details:

- i. 400 kV BALCO-Dharamjaygarh-D/c (twin moose conductor, 23.5 km)
- ii. 3x315 MVA, 400/220 kV ICTs at BALCO

CTU stated that as per the extant CERC Regulations, Para 8(1) states as follows:

“...Provided that where after filing of an application, there has been a material change in the location or in the quantum of power to be interchanged with the inter-state transmission system, by more than 100 MW or 40% of the installed capacity, whichever is less, in the case of applicant defined under sub-clauses (b)(i)(a), (b)(i)(aa), (b)(i)(b), (b)(i)(d), (b)(i)(e), (b)(i)(f), (b)(i)(g) and (b)(i)(h) and 100MW or 40% of the aggregate installed capacity, whichever is less, in the case of applicant defined under sub-clauses (b)(i)(c) and (b)(i)(cc), of Clause (1) of Regulation 2, such an applicant shall make a fresh application, which shall be considered in accordance with these regulations:....”

In the present case, connectivity has been granted to BALCO for cumulative quantum of 2010MW (1335MW as Generator & 675MW as Captive Generator). Further, no separate connectivity as bulk consumer for the existing smelter loads has been granted to M/s BALCO. Hence, M/s BALCO shall be required to submit fresh application for drawee entity(ies), as per revised proposal to be submitted by BALCO based on comments of POSOCO above. BALCO was requested to send the final proposal to CTU after satisfying POSOCO w.r.t. concerns raised above.

It was further deliberated that the application(s) may be dealt with considering the CERC order dated 29.01.2020 in Petition no. 299/MP/2018. In line with the order, connectivity shall be granted through existing 400 kV BALCO-Dharamjaygarh D/c line vide suitable metering, accounting and scheduling arrangements for BALCO (as a captive generator) and BALCO (as bulk consumer), upon receipt of Connectivity application.

5.0 LTA Applications from generation developers situated in Western Region

It was informed that the following LTA applications has been received in the month of Jul'22 with injection of power in WR:

Sl. No.	Application ID	Name of the Applicant	Submission Date	Region	Quantum of LTA	Start Date of LTA	End Date of LTA	Injection Point	Drawl Point
1.	0430700002	NTPC Renewable Energy Limited*	14.07.2022	WR	500 (Target)	03/04/2024	02/04/2049	Khavda-II PS, WR	NR:225MW, WR:100MW, SR:175MW
2.	0430700003	NTPC Renewable Energy Limited	20.07.2022	WR	450 (PPA/PSA without NoC)	28/12/2023	27/12/2048	Bhuj PS, WR	CSPDCL: 150MW HPPC: 300MW

*Physical copy of ABG is yet to be received from the applicant. It was decided to issue the intimation after receipt of physical copy of ABG.

Application at Sl. 1:

It was informed that till date, cumulative LTA granted in Khavda area is 2.565GW (KPS2: 1.565GW & KPS1: 1GW). NTPC Renewable Energy Limited (NTPC REL) has already been granted 1255MW Stage-II connectivity & 365MW LTA at KPS2. With the above application of 0.5GW at KPS2, the cumulative LTA in Khavda area shall reach **3.065GW**. After deliberations, it was agreed to grant LTA to NTPC REL with following transmission system, which has already been approved in the 3rd WRPC(TP) meeting held on 14.06.2021 for evacuation of upto 3GW power from Khavda area (i.e. cumulative of Khavda-I (KPS1), Khavda-II (KPS2) & Khavda-III PS(KPS-3)):

- ii. Establishment of 765/400 kV, 3x1500MVA, KPS2 (GIS)
- iii. LILO of one ckt of KPS1-Bhuj 765 kV D/c line at KPS2

The above system is currently under tendering process with SPV transfer anticipated by 17.10.2022 (as per information available on REC website) and SCOD anticipated by **16.10.2024** (i.e. 24 months from SPV transfer). Hence, although the start date of LTA requested by NTPC REL is 03.04.2024, the interim start date of LTA shall be mentioned as 16.10.2024 in the LTA intimation. The final start date of LTA shall be intimated to the applicant within 30 days of transfer of SPV. Further, the applicant shall be required to attend the JCC/coordination meetings w.r.t Western Region to get quarterly updates on the status of above system. Based on the actual status of implementation of the transmission system identified for LTA, the likely start date of LTA may get updated from time-to-time.

Application at Sl. 2:

It was informed that till date, cumulative LTA granted at Bhuj PS is 2916MW. With the present application, the LTA quantum at Bhuj PS shall reach 3366MW. It is understood that the break up of LTA amongst Stage-II connectivity applications is as under:

Stage-II Conn Appl. No.	Stage-II Conn Quantum (MW)	LTA Quantum (MW)	Drawal entity
0230700002	300	450	HPPC
0230700003	150	(PPA/PSA without NoC)	CSPDCL

After deliberations, it was agreed to grant LTA to NTPC REL with the following system, which is presently under implementation:

1. Establishment of 2x1500MVA, 765/400kV Lakadia PS
2. LILO of Bhachau – EPGL 400kV D/c (triple) line at Lakadia PS
3. Bhuj PS – Lakadia PS 765kV D/c line
4. Lakadia – Vadodara 765kV D/c line

It was further informed that CTU vide letter dated 24/08/2022 has requested Chhattisgarh & Haryana STUs to issue the NoCs, which are still awaited. Accordingly, CSPTCL was requested to provide NoC for above application for drawl of power in time-frame of Dec'23 onwards. Matter regarding Haryana STU NOC shall be taken up in ensuing CMETS-NR meeting. No representative of CSPTCL was present in the meeting. It was stated that if NOC of concerned STU is not available or the NoC is not effective as on Start Date of LTA, the billing for payment of transmission charges shall be undertaken on the LTA grantee as per CERC Regulations, till such time NOC is made available and becomes effective. NoC with conditions would be considered effective only upon fulfillment of such conditions.

6.0 LTA Applications from generation developers situated in other regions with drawl in Western Region

It was informed that the following LTA applications has been received in the month of Jul'22 for drawl of power in WR:

Sl. No.	Application ID	Name of the Applicant	Submission Date	Region	Quantum of LTA	Start Date of LTA	End Date of LTA	Injection Point	Drawl Point
1.	0451100004	Project Ten Renewable Power Private Limited	19.07.2022	SR	300 (PPA/PSA)	28/12/2023	27/12/2048	Tumkur PS (Pavagada), SR	Chhattisgarh State Power Distribution

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

CENTRAL TRANSMISSION UTILITY OF INDIA LTD.

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

Ref.: C/CTU/AI/00/9th CCTP

28th November 2022

OFFICE MEMORANDUM

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

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

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

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

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

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

This issues with the approval of Competent Authority.


 28/11/22
 (Jasbir Singh)
 Chief General Manager

Encl: as stated.

To:

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

Copy to:

1. Shri Ishan Sharan Chief Engineer & Member Secretary (NCT) Central Electricity Authority Sewa Bhawan, R. K. Puram, New Delhi-110 066.	2. Shri Goutam Ghosh Director (Trans) Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi 110 001
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Western Region**1. Implementation of 1 no. 220kV line bay at Bhuj PS for providing Connectivity to M/s NTPC Renewable Energy Ltd. (300MW)**

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

Note:

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

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

Sl.	Scope of the Transmission Scheme	Capacity /km	Implementation Timeframe.
1.	220kV bus extension (GIS) of Rajgarh 400/220 kV (PG) S/s along with 220kV Bus Coupler bay for extended bus.	• Bus Extension along with 220kV Bus coupler bay- 1 no. using GIS • Space provision in 220kV GIS Hall for accommodating 5 nos. 220kV future bays	21 months from the issue of OM by CTUIL.
2.	220kV bus sectionaliser bay (GIS) between existing & extended 220 kV bus of Rajgarh S/s.	• 220kV Bus Sectionaliser – 1 set (GIS)	
3.	220kV GIS line bay at Rajgarh 400/220 kV (PG) S/s (on extended bus) for RE interconnection.	• 220kV line bay: 1 no. (GIS) along with 220kV Bus Duct for Bus Extension (AIS to GIS building)	
Total Estimated Cost:			INR 29.33 Crore

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

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

Sl.	Scope of the Transmission Scheme	Capacity /km	Implementation Timeframe.
	kV substation by 1x1500 MVA ICT (3rd)	400 kV ICT bay (GIS) – 1 no. 765/400kV, 1500MVA ICT in existing bay with GIS bus duct along with associated GIS to AIS termination, Erection hardware are required.	
Total Estimated Cost:			INR 86.01 Crore

Note:

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

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

Sl.	Scope of the Transmission Scheme	Capacity /km	Implementation Timeframe.
1.	Installation of 1x500 MVA, 400/220 kV ICT (4 th) along with associated ICT bays at Satna(PG)	400/220 kV, 500 MVA ICT – 1 no. 400 kV ICT bay – 1 no. 220 kV ICT bay – 1 no. (includes 220kV Cable interconnection for 220kV side of ICT)	18 months from the issue of OM by CTUIL
2.	2 No. of 220kV line bays at Satna for LILO of Satna 220kV - Maihar 220kV line at Satna (PG) S/s	220kV line bay – 2 nos.	
Total Estimated Cost:			INR 77.52 Crore

Northern Region

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

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

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

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

Note:

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

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

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

Note:

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

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

Sl. No.	Scope of the Transmission Scheme	Capacity/km	Implementation timeframe
1.	Augmentation of Transformation Capacity by 1x500 MVA, 400/220kV ICT (3rd) at 400/220 kV Patran (GIS) S/s along with GIS duct (at 400kV and 220kV) in new diameter of ICT – Tie– Line.	• 500 MVA 400/220 kV ICT- 1no. • 400 kV ICT bay (GIS) – 1 no. • 400kV bay (GIS) for diameter completion for	21 months from the issue of OM by CTUIL.

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

Note:

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

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

Sl. No.	Scope of the Transmission Scheme	Capacity/km	Implementation timeframe
1.	1 no. of 220 kV line bay at 400/220 kV Bikaner-II PS for interconnection of RE project (NHPC Ltd.)	220 kV line bay – 1 no. (refer note a)	15 months from the issue of OM by CTUIL
2.	Implementation of 220kV Bus sectionalizer along with bus coupler and transfer bus coupler at 400/220kV Bikaner-II PS	220kV Bus Sectionalizer Bay– 1 Set 220kV Bus Coupler Bay–1 No. 220kV Transfer Bus Coupler Bay–1No. - Bus works for future Bays (4 Nos. of Line Bays & 3 Nos. of ICT Bays)	
Total Estimated Cost:			INR 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 developer's scope (no. 230-231) and ISTS scope (no. 226-227). Accordingly, 220 kV bus works may also be suitably taken up under the above scope.

Eastern Region

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

Sl. No.	Scope of the Transmission Scheme	Capacity/km	Implementation timeframe
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1.	Installation of existing spare 132/66kV, 1x50MVA ICT (already stationed at Gangtok) as 3 rd ICT at Gangtok (POWERGRID) S/s along with conversion of existing 132kV TBC bay as 132kV ICT bay for 3 rd ICT and construction of new 66kV ICT bay in Hybrid/Outdoor GIS with suitable modification in the gantry structure of 66kV side.	132/66kV, 50MVA spare ICT as 3rd ICT – 1 no. - Conversion of 132kV TBC bay to ICT bay – 1 no. - New 66kV ICT bay (in Hybrid/Outdoor GIS) – 1 no.	21 months from the issue of OM by CTUIL (<i>best efforts may be made for early commissioning to the extent possible</i>)
2.	Construction of new 132kV TBC bay in Hybrid/Outdoor GIS.	New 132kV TBC bay (in Hybrid/Outdoor GIS) – 1 no.	
Total Estimated Cost:			INR 11.64 Crore

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

Sl. No.	Scope of the Transmission Scheme	Capacity/km	Implementation timeframe
1.	Reconductoring of Rangpo – Gangtok 132kV D/c line with single HTLS conductor of 800A (at nominal voltage level).	Ckt-1: 28km Ckt-2: 26km	24 months from the issue of OM by CTUIL.
2.	Upgradation of CTs at Gangtok end in both circuits of Rangpo – Gangtok 132kV D/c line from 600A to rating commensurate with rating of HTLS conductor (800A)	-	
Total Estimated Cost:			INR 23.08 Crore

North Eastern Region

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

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

2.	One (1) new 132kV line bay at Melriat (GIS) (POWERGRID) S/s (of rating commensurate with rating of HTLS viz. 900A) for shifting of Melriat (GIS) (POWERGRID) – Zuangtui (Mizoram) 132kV HTLS line from existing bay and termination of the HTLS line in the new bay (0.5km including approx. 5 nos. towers)	• 132kV GIS line bay – 1 no. • New 132kV S/c HTLS line section – 0.5km (including approx. 5 nos. towers)	
3.	Replacement of existing CT of 600/1A at Zuangtui (Mizoram) end in Melriat (GIS) (POWERGRID) – Zuangtui (Mizoram) 132kV S/c line with rating commensurate with ampacity (900A) of HTLS conductor.	-	
4.	Reconductoring of Aizawl (POWERGRID) – Luangmual (Mizoram) 132kV ACSR Panther S/c line with Single HTLS conductor of 800A (at nominal voltage level)	0.8km	
5.	Replacement of existing CT of 600/1A at Luangmual (Mizoram) end in Aizawl (POWERGRID) – Luangmual (Mizoram) 132kV S/c line with rating commensurate with ampacity (800A) of HTLS conductor.	-	
6.	Installation of OPGW in Aizawl (POWERGRID) – Luangmual (Mizoram) 132kV S/c line	0.8km	
Total Estimated Cost:			INR 11.49 Crore

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

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

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

Southern Region

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

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

Note:

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

सेंट्रल ट्रांसमिशन यूटिलिटी ऑफ इंडिया लिमिटेड

(पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड के स्वामित्व में)

(भारत सरकार का उद्यम)

CENTRAL TRANSMISSION UTILITY OF INDIA LTD.

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

(A Government of India Enterprise)

Ref: CTU/W/00/13th CMETS-WR

Date: 22.12.2022

As per distribution list

Subject: Minutes of the 13th Consultation Meeting for Evolving Transmission Schemes in Western Region (CMETS-WR) held on 08.12.2022 – reg.

Dear Sir,

Please find enclosed the minutes of 13th Consultation Meeting for Evolving Transmission Schemes in Western Region (CMETS-WR) held on 08.12.2022 through video conferencing.

The minutes are also available at our website (www.ctuil.in >> *ISTS Planning and Coordination* >> *Consultation Meetings for ISTS*).

Thanking you,

Yours faithfully,



(Partha Sarathi Das)
Sr. General Manager

Encl.: As above

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Minutes of the 13th Consultation Meeting for Evolving Transmission Schemes in Western Region (CMETS-WR) held on 08.12.2022

The 13th Consultation Meeting for Evolving Transmission Schemes in Western Region (CMETS-WR) was held on 08.12.2022. Sr. GM (CTU) welcomed the participants and thereafter, agenda was taken up for deliberations. List of participants is attached at **Annexure-I**.

It was informed that Hon'ble CERC has notified the CERC (Connectivity and General Network Access to the Inter-State Transmission System) Regulations, 2022. The GNA Regulations have come into operation with effect from 15-10-2022 except for provisions of Regulations 23 to 24, 26 to 36, 37.9, 38, 40 and 43, whose date of commencement shall be notified separately. However, notification for submission of fresh applications for connectivity and GNA and their processing and grant of GNA Regulations had not been received by CTU. Accordingly, receipt of applications through NSWIS portal under extant Connectivity Regulations has been resumed w.e.f. 00 hours of 01.12.2022. Hence, the proposals for further processing of the applications has been prepared based on extant CERC Connectivity Regulations, 2009 and are subject to change based on requirements of GNA regulations (after transition). Gist of the deliberations are detailed below.

1.0 Confirmation of Minutes of the previous meeting

It was informed that the minutes of the 12th Consultation Meeting for Evolving Transmission Schemes in Western Region (CMETS-WR) held on 19.10.2022 were issued vide letter dated 25.10.2022. As no comments were received, the same were confirmed as circulated.

A. Application related matters in Western Region

2.0 Connectivity/LTA applications received from Sep'22 to Nov'22

Stage-I Connectivity

2.1 The details of Stage-I connectivity applications received in the months of Sep'22, Oct'22 & Nov'22 were explained as under:

With above LTAs, total LTA in Khavda area shall be 7532MW. It was agreed to grant LTA to application at Sl. 7 (for 1050MW at KPS3) with following system:

System for complete 1050MW (500 & 550MW) (expected by Jan'25 (based on anticipated SCOD)):

- Establishment of 765/400 kV, 2x1500MVA, KPS3 (GIS)
- KPS3 – KPS2 765kV D/c line
- KPS2 – Lakadia 765kV D/c line.
- Establishment of 3x1500 MVA, 765/400 kV Ahmedabad S/s
- Lakadia – Ahmedabad 765kV D/c line
- Ahmedabad – Navsari(New) 765kV D/c line
- LILO of Pirana (PG) – Pirana (T) 400kV D/c line at Ahmedabad S/s with twin HTLS along with reconductoring of Pirana (PG) – Pirana(T) line with twin HTLS conductor and Bay upgradation work at Pirana (PG) & Pirana (T)

Addl. System for 550MW (expected by Mar'25 (based on anticipated SCOD)):

- Establishment of 765 kV Halvad switching station
- KPS2- Halvad 765 kV D/c line
- LILO of Lakadia – Ahmedabad 765 kV D/c line at Halvad
- Halvad – Vataman 765 kV D/c line
- Establishment of 765 kV switching station near Vataman
- LILO of Lakadia – Vadodara 765 kV D/c line at Vataman 765 kV switching station
- Vataman switching station – Navsari(New) 765 kV D/c line

5.0 Extension of start date of Stage-II Connectivity / LTA of NTPC Renewable Energy Ltd (Bhuj PS) and Veh Jayin Renewables Pvt Ltd. (Rajgarh S/s)

a) NTPC Renewable Energy Ltd:

It was informed that Stage-II and LTA of 450MW has been granted to NTPC Renewable Energy Ltd at Bhuj PS with following details:

Name of applicant	Stage-II application number	Stage-II Quantum (MW)	Start date of Stage-II Connectivity	LTA application number	LTA Quantum (MW)	Start date of LTA
NTPC Renewable Energy Ltd	0230700002	300	31/10/2023	0430700003	450	28/12/2023
	0230700003	150	30/04/2023			
Total		450			450	

Stage-II Connectivity of NTPC-REL for 300MW has been granted through 220kV S/c line and the 01nos. 220kV bay at Bhuj PS (ISTS end) is under the scope of ISTS Licensee. The Stage-II of 150MW of NTPC-REL has been granted through sharing of 220kV bays already allocated to Inox Green Energy Services Limited (already charged). The transmission system for 300MW Stage-II connectivity is given below:

- NTPC REL (Kharadiya) – Bhuj PS 220kV S/c line (on D/c tower) along with associated bay at Generation end (under the scope of applicant)
- Bay at ISTS substation end shall be under the scope of ISTS.

Subsequently, the following scheme for implementation of 01nos. 220kV bay at Bhuj PS under RTM mode was approved by CTU vide Office Memorandum dated 28/11/2022:

Implementation of 01nos. 220kV bay at Bhuj PS for providing Connectivity to M/s NTPC Renewable Energy Ltd

Sr. No.	Scope of Transmission Scheme	Capacity/Km	Implementation Timeframe
1	01nos. 220kV bay at Bhuj PS associated with M/s NTPC Renewable Energy Ltd (300MW)	220kV line bay :1 no.	15 months from the date of OM by CTU (refer note a)

Note:

a: Best efforts shall be carried out to implement the transmission scheme within 12 months from the issue of OM by CTU/IL

Considering the above implementation schedule 01 no. 220kV bay at Bhuj PS, its SCOD shall be **28/02/2024**. Accordingly, in order to match the generation schedule of the 300MW project with transmission scheme SCOD, it was proposed that the start date of stage-II connectivity (300MW) shall be revised from **31/10/2023 to 28/02/2024 & LTA from 28/12/2023 to 28/02/2024**. NTPC REL shall coordinate with POWERGRID to ensure matching development of RE generation with 220kV bay at Bhuj PS.

NTPC REL stated that 450MW capacity is the Hybrid capacity for which LTA was approved. PPA was signed for providing Hybrid Power to DISCOM. 450MW Hybrid capacity consists of 300MW solar and 150MW Wind capacity for which separate Stage-II Connectivity is Granted. Therefore, separate LTA start date for 300MW solar and 150MW wind does not provide Hybrid Power to DISCOM. Only after both wind and solar plants are commissioning, hybrid power can be provided to the DISCOM under LTA. The above was confirmed vide e-mail dated 20.12.2022.

After deliberations, it was agreed to revise of start date of stage-II connectivity (for 300MW solar project) from 31/10/2023 to 28/02/2024 and of LTA (for both 300MW solar project and 150MW wind project) from 28/12/2023 to 28/02/2024.

b) Veh Jayin Renewables Pvt Ltd (VJPRL):

It was informed that Stage-II connectivity of total 190.2MW has been granted to Veh Jayin Renewables Pvt Ltd. at Rajgarh S/s (existing) with following details:

Name of applicant	Stage-II application number	Stage-II Quantum (MW)	Start date of Stage-II Connectivity
Veh Jayin Renewables Pvt Ltd.	0231300002	151.8	29/03/2024
	0331300002	38.4	
Total		190.2	

The stage-II connectivity has been granted to VJPRL through 220kV S/c line along with following transmission system for connectivity:

Dedicated Transmission System for Stage-II Connectivity:

- VJRPL – Rajgarh (PG) 220kV S/c line (on D/c tower) along with associated line bay at generation end

Additional transmission system under ISTS:

- 220kV bus extension (GIS) of Rajgarh 400/220 kV (PG) S/s along with 220kV Bus Coupler bay for extended bus
- 220kV bus sectionalizer bay(GIS) between existing & extended 220 kV bus of Rajgarh S/s
- 220kV GIS line bay at Rajgarh 400/220 kV (PG) S/s (on extended bus) for RE interconnection

C/CP/PA2324-01-0D-IA003

April 18, 2023

MEMORANDUM

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

Investment approval for "Implementation of 1 no. 220kV line bay at Bhuj PS for providing Connectivity to M/s NTPC Renewable Energy Ltd. (300MW)" has been accorded by CMD on April 06, 2023 as per the details given below:

1. SCOPE OF PROJECT

Broad Scope of works:

Extension of 400/220kV Bhuj (PG) substation

220 kV

- Line bay : 1 No.

2. PROJECT COST & FUNDING

The estimated cost of the project based on December, 2022 price level is **₹6.70 crore** including IDC of **₹0.16 crore**. The abstract cost estimate is attached as **Annexure - I**.

The project is proposed to be implemented through Debt (70%) and Equity (30%) with loan component from domestic borrowing/ bonds/ External Commercial Borrowings (ECBs) etc. and equity component through internal resources.

3. COMMISSIONING SCHEDULE

The project is scheduled to be commissioned within 15 months from the date of issue of CTUIL OM i.e by 27.02.2024.

(Best efforts to be made to implement the transmission scheme within 12 months from the date of issue of CTUIL OM i.e by 27.11.2023)

(A. Jagannath Rao)
CGM (CP)

Annexure – I

ABSTRACT COST ESTIMATE		
IMPLEMENTATION OF 1 NO. 220KV LINE BAY AT BHUJ PS FOR PROVIDING CONNECTIVITY TO M/S NTPC RENEWABLE ENERGY LTD. (300MW)		
(December 2022 price level)		
Sl. No.	DESCRIPTION	AMOUNT (Rs in Crore.)
A	Civil Works for Substations	
	i) Infrastructure for substations	0.20
B	Equipment Cost	
	a) Substation	5.55
C	Sub Total (A TO B)	5.75
D	Incidental Expenditure During construction (IEDC) @ 10.75% of C	0.62
E	Contingencies @ 3% of C	0.17
F	Sub Total (A TO E)	6.54
G	Interest During Construction (IDC)	0.16
	GRAND TOTAL	6.70

(10)

वितरण /Distribution:

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2. Managing Director, MPPTCL, Block no -2, Shakti Bhawan, Rampur, Jabalpur – 482008 (M.P)
3. Managing Director, GETCO, Sardar Patel Vidyut Bhawan, Race Course, Vadodara-390 007
4. Chief Electrical Engineer, Vidyut Bhavan, 3rd Floor, Panaji, Goa - 403001
5. Managing Director, CSPTCL, Dangania, Raipur (CG) – 492 013
6. Secretary (Power), UT of Dadra & Nagar Haveli, Secretariat, Amli, Silvassa – 396230
7. Secretary (Power), Administration of Daman & Diu (U.T.), Fort Area, Moti Daman-396 220
8. CMD, Grid Controller of India Limited, B-9 (1st Floor), Qutab Institutional Area, Katwaria Sarai, New Delhi -11001

प्रति विनम्र सूचनार्थ /Copy for kind information, please:

1. PS to Secretary (Power), MoP, Shram Shakti Bhawan, New Delhi - 110 001
2. Chairperson, CEA, Sewa Bhawan, R.K. Puram, New Delhi- 110 066
3. Member Secretary, WRPC, F-3, MIDC Area, Andheri East, Mumbai– 400 093
4. Joint Secretary, Ministry of Statistics & Programme Implementation, Sardar Patel Bhawan, New Delhi-110001
5. Joint Secretary (Transmission), MoP, Shram Shakti Bhawan, New Delhi- 110 001
6. Joint Secretary (Plan Finance Div.-II), Ministry of Finance, North Block, New Delhi- 110 001
7. Director, Ministry of Finance (Plan finance Div.), North Block, New Delhi- 110 001
8. Under Secretary, Finance & Budget Section, MoP, Shram Shakti Bhawan, New Delhi - 110 001

(A. Jagannath Rao)
CGM (CP)
18/04/23

Important Note:

As per approval, following critical activities may be monitored:

- (i) Timely Award of major package(s).
- (ii) Timely supply of major equipment.
- (iii) Risk Management Matrix indicating various milestones to be monitored for the subject project is attached at **Annexure-II**.

Distribution:

ED : CMG / Engg.- SS, TL, Civil, CE / CS & MM / GA&C, ERP & IT Cell/ HR/ Law, RB & Corp. Comm/ Commercial & RC/ AM, NTAMC & Safety Cell / Engg-HVDC, QA&I & FQA/ IB, BDD & JV/ ESMD & CSR/ Finance/ CTUIL/ WRTS-II

Chief GM : Admin-IR/ HRD

Company Secretary

For kind information of:

Director (Personnel)/ Director (Operations)/Director (Projects)/ Director (Finance)/ CVO

(A. Jagannath Rao)
CGM (CP)
18/04/23

IMPLEMENTATION OF 1 NO. 220KV LINE BAY AT BHUJ PS FOR PROVIDING CONNECTIVITY TO M/S NTPC RENEWABLE ENERGY LTD. (300MW)

Sl. No.	Risk Parameters	Broad Mitigation steps		Responsibility Centre**
		Mitigation-1	Mitigation-2	
1	Delay in obtaining Forest clearance due to cumbersome process		Not Applicable	
2	Delay in commencement of project	Award of major contracts to be placed within 1 month of Investment Approval & Contract Agreement to be signed within 1 month thereafter	Kick-off meeting within 1 month of Letter of Award	CS/CMG
3	Time overrun due to delay in resolution of RoW issues in construction of Transmission line		Not Applicable	
4	Delay in land acquisition of substations		Not Applicable	
5	Idling of transmission system due to non-readiness of generator / downstream / upstream transmission system		Not Applicable	
6	Restriction of additional cost by CERC in absence of RCE	RCE-I to be prepared within 1 month of award of all major packages (Tower & Substation)	RCE-II to be prepared when actual Capex is > 50% & thereafter regular review of project cost and completion schedule to ascertain requirement, if any, of further RCE requirement	Site Project Head / Cost. Engg.
7	Restriction of IDC/IEDC by CERC due to lack of / insufficiency in documentary evidence of time overrun	Regular records to be maintained regarding constraints in project progress and documented for support	Hindrance Register to be maintained in SAP and reviewed regularly by project Head	Site Project Head / Commercial
8	Failure of equipment due to non-resolution of quality issue resulting in delay in projects	All major equipment quality checks to be maintained at Level-4	Quality to be ensured at different stages of manufacture as per standard practice.	QA & I Group
9	Non-compliance to statutory requirement of legal / safety / social / environmental etc.	Preparation of check-list at RHQ level and monitoring of same		Site Project Head
10	Timely Implementation of the Project			
a.	Commencement			
1	Finalization of L2	Within 1 month of NOA		CMG
2	Site Mobilisation	As per L2		Site Project Head
3	Survey		Not Applicable	
4	Statutory Approvals/ NOC (i.e. PTCC, Civil Aviation, Defence Establishment etc.)		Not Applicable	
b.	Physical Progress			
1	Foundation/Civil works etc.	As per L2	Complete 3 months before completion schedule	Site Project Head
2	Erection of Equipment	As per L2	Complete 1 month before completion schedule	Site Project Head
3	Stringing		Not Applicable	
4	Supply of equipment	As per L2	Completion 2 months before completion of erection	CC: Head (Engg.- S/s)
c.	Commissioning	As per L2		Site Project Head

** Overall in-charge for Responsibility Centre is Head of the respective Region / Department/ Project Group



सेंट्रल ट्रान्समिशन यूटिलिटी ऑफ इंडिया लिमिटेड

(पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड के स्वामित्व में)

(भारत सरकार का उद्यम)

CENTRAL TRANSMISSION UTILITY OF INDIA LTD.

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

(A Government of India Enterprise)

Encl.-3

Ref: CTU/W/00/20th CMETS-WR

Date: 22.09.2023

As per distribution list

Subject: Minutes of the 20th Consultation Meeting for Evolving Transmission Schemes in Western Region (CMETS-WR) held on 04.08.2023-reg.

Sir,

Please find enclosed the minutes of 20th Consultation Meeting for Evolving Transmission Schemes in Western Region (CMETS-WR) held on 04.08.2023 through video conferencing.

The minutes are also available at our website (www.ctuil.in>>ISTS Planning and Coordination>>Consultation Meetings for ISTS).

Thanking you,

Yours faithfully,

(Partha Sarathi Das)
Sr. General Manager

Encl.: As stated above

Distribution List:

1. Chief Engineer (PSP&A – I) Central Electricity Authority Sewa Bhawan, R.K. Puram, New Delhi-110 066.	2. Director (Transmission/GEC) Ministry of New and Renewable Energy, Block 14, CGO Complex, Lodhi Road, New Delhi-110003
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7. Managing Director Chhattisgarh State Power Transmission Co. Ltd., Dangania, Raipur- 492 013	8. Chairman & Managing Director Madhya Pradesh Power Transmission Co. Ltd., Block No. 3, Shakti Bhawan, Rampur, Jabalpur-482 008
9. Executive Engineer Administration of Union Territory of Dadra & Nagar Haveli and Daman & Diu Secretariat, Moti Daman - 395 220	10. Chief Engineer Electricity Department The Government of Goa, Panaji
11. Executive Director Western Regional Load Despatch Centre Grid Controller of India Ltd. F-3, M.I.D.C. Area, Marol, Andheri East, Mumbai-400 093	12. Director (SO) Grid Controller of India Ltd. 9th Floor, IFCI Towers, 61, Nehru Place, New Delhi - 110019

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Minutes of Meeting for 20th Consultation Meeting for Evolving Transmission Schemes in Western Region held on 04.08.2023.

The 20th Consultation Meeting for Evolving Transmission Schemes in Western Region (CMETS-WR) was held on 04.08.2023. CGM(CTU) welcomed the participants and thereafter, the agenda was taken up for deliberations. The list of participants is attached at Flag-I.

A. Processing of transition request under GNA Regulations, 2022.

It was informed that CERC vide order dated 09.10.2022 notified that transition under Regulation 37 of the GNA Regulations shall be carried out based on status of various applicants/grantees as on 15.10.2022. In compliance with the same, CTU issued a letter to all entities seeking their response as per the CERC Regulations in October 2022. Meanwhile, various new applications were received/granted as per extant Connectivity Regulations 2009 and status of many applicants/grantees as on 15.10.2022 also underwent certain changes.

Subsequently, CERC vide notification dated 01.04.2023 issued First Amendment of GNA Regulations and notified that the effective date of Regulation 37.1 to 37.8 shall be 05.04.2023 in place of 15.10.2022. In line with the above, the option needs to be exercised by the concerned entities afresh on the basis of their status as on 05.04.2023 within one month from date of coming into effect of the GNA Regulations i.e., by 04.05.2023. Accordingly, vide notice dated 13.04.2023, CTU published details of Connectivity/LTA/MTOA quantum(s) of grantees/applicants falling under various provisions of Regulation 37 on its website. Requisite compliances to be met by each entity under different provisions of Regulation 37 were also published on CTU website. All concerned were requested to take expeditious action towards exercising option to convert/surrender their respective quantum(s), as applicable, for transition under the GNA Regulations through letter/applicable application FORMAT available on CTU website in offline mode on or before 04.05.2023.

It was informed that in the Western Region, total 186 Nos. of cases were identified which are covered under various provisions of Regulations 18 & 37 of GNA Regulations, 2022. Transition of applicants/ grantees shall be as per Regulation 37 of GNA Regulations, 2022. Treatment of various cases is as below as:

Transition Sequence:

Sl. No.	Quantum under transition	Description
Connectivity & LTA Applicants/Grantees		

Sl. No.	Name of Applicant	Name of Pooling Station at which connectivity granted/connected	Present LTA granted	Deemed GNA as per 18.1	Convert to deemed GNA as per 37.6(2)	Conn BG3 to be Submitted as per 37.6(2) (in Rs. Lakh)	Conn BG3 Status	Remarks
								BG3 of Rs. 2.0Cr (@ Rs 2 Lakh/MW), to be furnished under GNA Regulations, 2022 cannot be considered and GPCL needs to furnish the requisite Bank Guarantee for transition under GNA.

It was informed that Conn-BG3 shall be returned in five equal parts over the next five years starting from the year when such GNA becomes effective or in accordance with Regulation 16.2 of these regulations, whichever is later.

It noted that scheduling and despatch of electricity under GNA regulation is yet to be notified by CERC. Therefore, effective date of deemed GNA granted to these applicants shall be on the date when scheduling and despatch of electricity based on GNA starts as per CERC direction. Till that time Scheduling and Despatch of electricity shall continue to be based on the quantum of Long-Term Access (LTA), Medium-Term Open Access (MTOA) and Short-Term Open Access (STOA) as per CERC notification dated 01.04.2023

Accordingly, the above entities granted LTA on target region and who have furnished requisite BGs shall be treated as Connectivity grantee under GNA Regulations, 2022 having GNA corresponding to such Long term access.

Members/Applicant noted the same.

3. Transition cases under Regulation 37.3 (i.e., Connectivity & LTA granted, Connectivity/LTA quantum not effective)

It was informed that the following 32 nos. of entities were required to exercise the option for conversion/surrender of the LTA (which is yet to be effective) to GNA.

Out of these, 3 nos. of entities have surrendered their LTA [NTPC REL: 300MW at Bhuj PS; RIL: 200MW (appl. no. 1672317954715) & 200MW (appl. no. 1672317751857) at Jam Khambhaliya PS and MUL: 3050MW (0410000000- 1000MW & 0410000001-2050MW) at Gujarat].

Balance all the entities have exercised the option for conversion of LTA to GNA. Details of GNA of the entities based on the option exercised by entities is detailed below:

Sl. No.	Name of Entity	Applicant Type	Stage-II Appl. No.	Stage-II Connectivity Appl. Date	Stage-II Connectivity granted (MW)	Pooling Station	LTA appl. No.	LTA Appl. Date	LTA granted (MW)	Transmission Status (as per 37.3) (Opted/Surrender)	Date of submission of Transmission request	Transmission system for Connectivity under GNA	BG Requirements
1.	Rewa Ultra Mega Solar Limited (Agar Solar Park)	Solar	1200003154	12/03/21	550	Pachora SEZ PP	1200003174 (550+450 W)	31/03/21	550	Opted for 550MW	28/04/23	Same as per Intimation for Grant of Connectivity & LTA issued under Connectivity Regulations, 2009.	BGs submitted under Connectivity Regulations, 2009: Conn-BG1: Rs.0.5Cr. Conn-BG2: Rs. 6Cr. ABG: Nil CBG: Rs.27.5Cr. BG Treatment/ requirements under GNA Regulations, 2022: Rs. 27.5 Cr. (out of 50 Cr. submitted under LTA application no. 1200003174) CBG furnished shall be treated as Conn-BG1 for Rs. 50 lakhs and balance Conn-BG2 as per Regulation 37.3(3)(d) of GNA Regulations. Further, Conn-BG2 of Rs. 6Cr furnished under Connectivity Regulations, 2009 shall be treated as

15.	NTPC Renewable Energy Limited (NREL)	Solar	1200003953 (890MW)	28/05/22	890	KPS-2	0430700002 (500)	14/07/22	500	Opted for 500MW	03/05/23	Same as per Intimation for Grant of Connectivity & LTA issued under Connectivity Regulation s, 2009.	BGs submitted under Connectivity Regulations, 2009: Conn-BG1: Nil Conn-BG2: Nil ABG: Nil CBG: Rs.25Cr. BG requirements under GNA Regulations, 2022: Rs. 25 Cr. CBG furnished shall be treated as Conn-BG1 for Rs. 50 lakhs and balance Conn-BG2 under GNA Regulations, 2022 as per Regulation 37.3(d) of GNA Regulations. 390MW shall be considered for transition under Regulation 37.2.
16.	NTPC Renewable Energy Limited	Solar	230700002	26/07/22	300	Bhuj PS	430700003 (300+150 MW)	20/07/22	300	Surrender for 300MW	03/05/23	Same as per Intimation for Grant of Connectivity & LTA issued under Connectivity Regulation s, 2009.	BGs submitted under Connectivity Regulations, 2009: Conn-BG1: Rs.0.5Cr. Conn-BG2: Rs. 3Cr. ABG: Nil CBG: Nil BG requirements under GNA Regulations, 2022: CTU vide OM dated 28.11.2022 has awarded implementation of 1 no. 220kV line bay at Bhuj PS for providing connectivity to M/s NTPC REL.

													(300MW). Further, the entire transmission system required for LTA has also been commissioned.
													In view of the above, Conn-BG1 & Conn-BG2 submitted shall be treated in line with GNA Regulations, 2022.
17.	NTPC Renewable Energy Limited	Wind	230700003	28/07/22	150	Bhuj PS	430700003 (300+150 MW)	20/07/22	150	Opted for 150MW	03/05/23	Same as per Intimation for Grant of Connectivity & LTA issued under Connectivity Regulation s, 2009.	BGs submitted under Connectivity Regulations, 2009: Conn-BG1: Rs.0.5Cr. Conn-BG2: Nil ABG: Nil CBG: Nil
													BG Treatment/ requirements under GNA Regulations, 2022: Con-BG1 for Rs. 50 Lakh and Conn-BG3 for Rs. 3Cr is required to be furnished by applicant as per Regulation 37.3(3)(d) of GNA Regulations.
													In addition, grantee shall continue to maintain Conn-BG1 furnished under Connectivity Regulations, 2009.
18.	Reliance Industries Limited (RIL)	Bulk Consumer	0030700005 (300+200+200)	22/07/22	300	Jam Khambhaliya PS	1672318237070 (300MW) ;	29/12/2022;	300	Opted for 300MW	03/05/23	Same as per Intimation for Grant of Connectivity & LTA	BGs submitted under Connectivity Regulations, 2009: Conn-BG1: Nil. Conn-BG2: Nil ABG: Rs. 0.3Cr



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. CTU/RTM/POWERGRID-Bhuj

Date: 03.10.2023

The Chairman & Managing Director

Power Grid Corporation of India Ltd.

Saudamini, Plot No.2, Sector 29

Near IFFCO Chowk, Gurugram,

Haryana – 122001

Sub: Implementation of 1no. 220kV line bay (bay. No. 206) at Bhuj PS for providing Connectivity to M/s NTPC Renewable Energy Ltd (300MW).

Sir,

This is in continuation to CTU OM dated 28/11/2022 vide which CTU has approved the implementation of 1no. 220kV line bay at Bhuj PS for providing Connectivity to M/s NTPC Renewable Energy Ltd (300MW) under RTM mode by POWERGRID with an implementation timeframe of 15months from the date of allocation (i.e by 27/02/2024).

In this context, it may be noted that NTPC Renewable Energy Limited (NREL) which was earlier granted Stage-II Connectivity and LTA for 300MW quantum at Bhuj was required to exercise the option for conversion/surrender of the Connectivity/LTA to GNA in terms of CERC GNA Regulations, 2022. However, NREL has not opted for conversion of 300MW Connectivity/LTA to GNA and surrender of the same was confirmed in the 20th Consultation meeting for Evolving Transmission Schemes in WR held on 04/08/2023.

In view of above, considering the surrender of 300MW Connectivity granted to NREL at Bhuj PS, implementation of the above mentioned 01nos. 220kV bay (bay no. 206) at Bhuj-PS may be deferred till further communication in this regard.

As and when new applicants are allocated the bay, the same would be communicated to POWERGRID for resumption of the implementation activities in matching time frame of the generation project who has been allocated the bay at Bhuj PS.

Thanking You,

Yours faithfully,

(Partha Sarathi Das)
Sr. General Manager



सेंट्रल ट्रांसमिशन यूलिटी ऑफ इंडिया लिमिटेड

(पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड के स्वामित्व में)

(भारत सरकार का उद्यम)

CENTRAL TRANSMISSION UTILITY OF INDIA LTD.

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

(A Government of India Enterprise)

Ref No. CTU/RTM/POWERGRID-Bhuj/2

Date: 26.12.2023

The Chairman & Managing Director

Power Grid Corporation of India Ltd.

Saudamini, Plot No.2, Sector 29

Near IFFCO Chowk, Gurugram,

Haryana – 122001

Sub: Implementation of 1no. 220kV line bay (bay. No. 206) at Bhuj PS for providing Connectivity to M/s Ayana Renewable Power Four Pvt. Ltd. (100MW)

Sir,

This is continuation to CTU OM dated 28/11/2022 vide which CTU approved the implementation of 1no. 220kV line bay at Bhuj PS for providing Connectivity to M/s NTPC Renewable Energy Ltd (300MW) under RTM mode by POWERGRID with an implementation timeframe of 15months from the date of allocation (i.e by 27/02/2024). Further, CTU vide letter dated 03/10/2023 informed POWERGRID that considering the surrender of 300MW Connectivity granted to M/s NTPC REL at Bhuj PS, the implementation of above mentioned 1no. 220kV bay (bay no. 206) at Bhuj PS may be deferred till further communication in this regard.

In this respect, it may be noted that Connectivity for 100MW to M/s Ayana Renewable Power Four Pvt. Ltd. (ARP4PL) for its Hybrid Power Project in Gujarat under GNA Regulations, 2022 has been granted vide CTU letter dated 04/12/2023 with start date of Connectivity as 31/03/2025 through ARP4PL – Bhuj PS 220kV S/c line which shall be connected at Bhuj PS at Bay No. 206.

In view of the above, implementation activities for 1no. 220kV line bay (bay. No. 206) at Bhuj PS shall be resumed by POWERGRID and implemented in matching time frame of the ARP4PL generation project (i.e. 31/03/2025) who has been allocated the bay at Bhuj PS.

Thanking You,

Yours faithfully,

(Partha Sarathi Das)
Sr. General Manager



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.

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संदर्भ/Ref: CTU/CMG/43rd JCC-WR/MoM

दिनांक/Date: 13.05.2024

वितरण सूची के अनुसार/ As per Distribution List

विषय: पश्चिमी क्षेत्र में विद्युत उत्पादन एवं पारेषण परियोजनाओं के लिए 43^{वीं} संयुक्त समन्वय समिति की बैठक – बैठक के कार्यवृत्त / 43rd Joint Co-ordination Committee Meeting for Generation & Transmission projects of Western Region- Minutes of Meeting

महोदय/महोदया/ Sir/ Ma'am,

पश्चिमी क्षेत्र की संयुक्त समन्वय समिति की 43^{वीं} बैठक 28 मार्च, 2024 को वीडियो कॉन्फ्रेंस के माध्यम से उत्पादन और ISTS पारेषण परियोजनाओं की स्थिति की समीक्षा करने के लिए आयोजित की गई थी। इस संबंध में, उत्पादन प्रोजेक्ट्स और संबंधित ISTS पारेषण प्रणाली की प्रगति का संकेत देते हुए बैठक के कार्यवृत्त संलग्न है। उक्त कार्यवृत्त सी.टी.यू. की वेबसाइट (www.ctuil.in >> ISTS Planning and Coordination >> Joint Coordination Committee Meetings >> Western Region) पर भी उपलब्ध है।

The 43rd meeting of Joint Co-ordination Committee was held on 28 March 2024 through Video Conference to review the status of upcoming generation & transmission projects in the Western Region. In this regard, please find enclosed the Minutes of Meeting indicating the progress of generation projects and associated ISTS transmission system. The same is also available on CTU website (www.ctuil.in >> ISTS Planning and Coordination >> Joint Coordination Committee Meetings >> Western Region).

धन्यवाद/ Thanking you,

भवदीय / Yours faithfully,


(अभिजित झा) / (Abhijit Jha)

उप-महाप्रबंधक/ DGM

Minutes of Joint Coordination Committee meeting with Generation & ISTS Transmission Developers for upcoming Generation & Transmission projects in Western Region (WR) held on 28.03.2024 through video conferencing.

1. CTUIL welcomed all the participants for this JCC meeting with Generation & Transmission Developers for their upcoming projects. The list of participants of the meeting is enclosed at **Annexure-I**.
2. Last Minutes of 42nd JCC Meeting of Western Region was held on 27.12.2023 through video conference and the minutes of the meeting were circulated vide letter Ref: CTU/CMG/42nd WR-JCC/MoM dtd 08.02.2024. As no comments have been received the minutes are confirmed as circulated.
3. It was informed by CTU that status of different Transmission schemes, which are under bidding stage by BPCs (i.e. RECPDCL & PFCCCL), is mentioned in Bidding Calendar uploaded on CTUIL website under the tab: ISTS Planning and Coordination->> Bidding Calendar.
4. TSPs (Transmission Service Providers) were requested to adhere to their respective SCOD schedule for timely completion of the project & corrective actions to be taken by TSPs for any anticipated delays.
5. Status of commissioning schedule as updated by generation projects developers and transmission developers during the meeting are as follows:

A1. Status of RE Generation Projects:

Sl. No.	Name of Grantee	Conn. Under GNA-Quantum (MW)	Gen Schedule (As per meeting)	Comm. Dec'23	Schedule as per Mar'24 Review Meeting		Start date of Connectivity under GNA (as per intimation)/ Likely Operationalization dates	Deliberations/Remarks
					Under Applicant scope Generation Commissioning /Connectivity line schedule	Under ISTS Scope Connectivity / Connectivity system under GNA		
					Dedicated Transmission Line: • Interconnection of NTPC REL to IGESL. • NTPC REL shall share connectivity system provided with stage-II connectivity granted to IGESL vide intimation no. C/CTU/W/CON/0390 dtd. 31.03.2017-Commissioned	Connectivity system under GNA: • Establishment of 2x1500MVA, 765/400kV Lakadia PS. • LILO of Bachau-EPGL 400kV D/c (triple) line at Lakadia PS. • Bhuj PS-Lakadia PS 765kV D/c line. • Lakadia-Vadodara 765kV D/c line.	Operationalization date: 28.02.2024	
7.	NTPC Renewable Energy Limited Connectivity Appl-2200000218	155			Generation: 155MW: 28.06.2025 DTL: NTPC REL shall share the Dedicated Transmission System for Connectivity granted to Ayana Renewable Power Four Private Limited (ARP4PL) for Hybrid RE project of 100MW against Connectivity appl. no. 2200000239 as given below: ARP4PL – Bhuj PS 220kV S/c line along with	DTL: Bay No. 206 at Bhuj PS shall be implemented under ISTS. ATS: Nil CTS: Existing	Start date of Connectivity under GNA: 28.06.2025 Likely Operationalization date: 28.06.2025	

Sl. No.	Name of Grantee	Conn. Under GNA-Quantum (MW)	Gen Schedule (As per meeting)	Comm. Dec'23	Schedule as per Mar'24 Review Meeting		Start date of Connectivity under GNA (as per intimation)/ Operationalization dates	Deliberations/Remarks
					Under Applicant scope Generation /Connectivity line schedule	Under ISTS Scope Connectivity system under GNA		
8.	Ayana Renewable Power Private Limited (ARP4PL) Connectivity Appl-2200000239	100			Not Attended Generation: 100MW: DTL: ARP4PL – Bhuj PS 220kV S/c line along with associated line bay at generating station (under the scope of applicant)	DTL: Bay at ISTS substation shall be implemented as a part of ISTS (No. 206). ATS: Nil Augmentation (other than ATS): Existing Transmission System	Start date of Connectivity under GNA: 31.03.2025	
9.	Ayana Renewable Power Private Limited (ARP4PL) Connectivity Appl-2200000240	150			Not Attended Generation: 150MW: DTL: ARP4PL – Bhuj PS 220kV S/c line along with associated line bay at generating station (under the scope of applicant). Bay at ISTS substation shall be implemented by applicant (Bay No. 207).	DTL: Nil ATS: Nil Augmentation (other than ATS): Existing Transmission System	Start date of Connectivity under GNA: 31.12.2024	
		1761						
	Jam Khambaliya SS							



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

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संदर्भ/Ref: CTU/CMG/44th JCC-WR/MoM

दिनांक/Date: 02.08.2024

वितरण सूची के अनुसार/ As per Distribution List

विषय: पश्चिमी क्षेत्र में विद्युत उत्पादन एवं पारेषण परियोजनाओं के लिए 44^{वीं} संयुक्त समन्वय समिति की बैठक – बैठक के कार्यवृत्त / 44th Joint Co-ordination Committee Meeting for Generation & Transmission projects of Western Region- Minutes of Meeting

महोदय/महोदया/ Sir/ Ma'am,

पश्चिमी क्षेत्र की संयुक्त समन्वय समिति की 44^{वीं} बैठक 27 जून, 2024 को वीडियो कॉन्फ्रेंस के माध्यम से उत्पादन और ISTS पारेषण परियोजनाओं की स्थिति की समीक्षा करने के लिए आयोजित की गई थी। इस संबंध में, उत्पादन प्रोजेक्ट्स और संबंधित ISTS पारेषण प्रणाली की प्रगति का संकेत देते हुए बैठक के कार्यवृत्त संलग्न है। उक्त कार्यवृत्त सी.टी.यू. की वेबसाइट (www.ctuil.in >> ISTS Planning and Coordination >> Joint Coordination Committee Meetings >> Western Region) पर भी उपलब्ध है।

The 44th meeting of Joint Co-ordination Committee was held on 27 June 2024 through Video Conference to review the status of upcoming generation & transmission projects in the Western Region. In this regard, please find enclosed the Minutes of Meeting indicating the progress of generation projects and associated ISTS transmission system. The same is also available on CTU website (www.ctuil.in >> ISTS Planning and Coordination >> Joint Coordination Committee Meetings >> Western Region).

धन्यवाद/ Thanking you,

भवदीय / Yours faithfully,


02/08
(अभिजित झा) / (Abhijit Jha)
उप-महाप्रबंधक/ DGM

Minutes of Joint Coordination Committee meeting with Generation & ISTS Transmission Developers for upcoming Generation & Transmission projects in Western Region (WR) held on 27.06.2024 through video conferencing.

1. CTUIL welcomed all the participants for this JCC meeting with Generation & Transmission Developers for their upcoming projects. The list of participants of the meeting is enclosed at **Annexure-I**.
2. Last Minutes of 43rd JCC Meeting of Western Region was held on 28.03.2024 through video conference and the minutes of the meeting were circulated vide letter Ref: CTU/CMG/43rd JCC-WR/MoM dtd 13.05.2024. As one comment received from M/s Veh Jayin Renewables Pvt. Ltd., the 43rd minutes are confirmed as circulated after incorporating following changes:
 - i) On page no. 17/125, Start date of Connectivity is 15.11.2025 instead of 15.01.2025.
3. It was informed by CTU that status of different Transmission schemes, which are under bidding stage by BPCs (i.e. RECPDCL & PFCCL), is mentioned in Bidding Calendar uploaded on CTUIL website under the tab: ISTS Planning and Coordination->> Bidding Calendar.
4. TSPs (Transmission Service Providers) were requested to adhere to their respective SCOD schedule for timely completion of the project & corrective actions to be taken by TSPs for any anticipated delays.
5. Status of commissioning schedule as updated by generation projects developers and transmission developers during the meeting are as follows:

A1. Status of RE Generation Projects:

Sl. No.	Name of Grantee	Conn. Under GNA-Quantum (MW)	Gen Schedule (As per March'24 meeting)	Comm.	Schedule as per June'24 JCC Meeting		Start date of Connectivity under GNA (as per GNA) / Likely Operationalization dates	Deliberations/Remarks
5.	NTPC Renewable Energy Limited (NTPC REL) Connectivity Appl No.- 0230700003: 150MW- Under Regulation 37.3	150MW Bid Route	Status as updated during meeting: Generation: 50MW- 05.11.2023; (Commissioned) 100MW- 15.04.2024	Not Attended	Under Applicant scope /Generation /Connectivity line schedule	Under ISTS Scope / Connectivity system under GNA	Start date of Connectivity under GNA: 28.02.2024	CTUIL vide letter dated 29.02.2024 has made effective 150MW GNA granted to NTPC-REL at Bhuj-PS w.e.f. 28.02.2024. M/s NTPC-REL shall be liable to bear all commercial and operational liabilities including mismatch in commissioning of generation project as per applicable CERC Regulations & directions issued from time to time.
			Generation: 50MW- 05.11.2023; (Commissioned) 100MW- 15.04.2024		Not Attended Status as received on email: Generation: 50MW- 05.11.2023; (Commissioned) 100MW- 15.08.2024	Connectivity System: 150MW: NTPC REL shall share Bay 205 & 208 with IGESL		
6.	NTPC Renewable Energy Limited Connectivity Appl- 2200000218	155	Generation: 155MW: 28.06.2025	Not Attended	Dedicated Transmission Line • Interconnection of NTPC REL to IGESL. • NTPC REL shall share connectivity system provided with stage-II connectivity granted to IGESL vide intimation no. C/CTUW/CON/0390 dtd. 31.03.2017- Commissioned	Connectivity system under GNA: • Establishment of 2x1500MVA, 765/400kV Lakadia PS. • LILO of Bachau-EPGL 400kV D/c (triple) line at Lakadia PS. • Bhuj PS-Lakadia PS 765kV D/c line. • Lakadia-Vadodara 765kV D/c line.	Start date of Connectivity under GNA: 28.02.2024	
			Generation: 155MW: 28.06.2025		Not Attended Status as received on email: Generation: 155MW: 28.06.2025	DTL: Bay No. 206 at Bhuj PS shall be implemented under ISTS. - 31.03.2025 ATS: Nil		
6.	NTPC Renewable Energy Limited Connectivity Appl- 2200000218	155	Generation: 155MW: 28.06.2025	Not Attended	DTL: NTPC REL shall share the Dedicated Transmission System for	CTS: Existing	Likely Operationalization date: 28.06.2025	
			Generation: 155MW: 28.06.2025		DTL: NTPC REL shall share the Dedicated Transmission System for	CTS: Existing		

Sl. No.	Name of Grantee	Conn. Under GNA-Quantum (MW)	Gen Schedule (As per March'24 meeting)	Schedule as per June'24 JCC Meeting		Start date of Connectivity under GNA (as per intimation)/ Likely Operationalization dates	Deliberations/Remarks
				Under Applicant scope Generation /Connectivity line schedule	Under ISTS Scope Connectivity under GNA / system		
				Connectivity granted to Ayana Renewable Power Four Private Limited (ARP4PL) for Hybrid RE project of 100MW against Connectivity appl. no. 2200000239 as given below: . ARP4PL – Bhuj PS 220kV S/c line along with associated line bay at generating station (under the scope of applicant) .			
7.	Ayana Renewable Power Private Limited (ARP4PL) Connectivity Appl- 2200000239	100	Not Attended	Status as informed during meeting and subsequently vide email dtd. 27.06.24 Generation: 37.5MW: 31.10.2024 50MW: 31.12.2024 43MW: 28.02.2025 DTL: 31.10.2024 ARP4PL – Bhuj PS 220kV S/c line along with associated line bay at generating station (under the scope of applicant) DTL awarded. Work in progress.	DTL: . Bay at ISTS substation shall be implemented as a part of ISTS (No. 206). - 31.03.2025 ATS: Nil Augmentation (other than ATS): Existing Transmission System	Start date of Connectivity under GNA: 31.03.2025	



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.
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(A Government of India Enterprise)

संदर्भ/Ref: CTU/CMG/45th JCC-WR/MoM

दिनांक/Date: 14.11.2024

वितरण सूची के अनुसार/ As per Distribution List

विषय: पश्चिमी क्षेत्र में विद्युत उत्पादन एवं पारेषण परियोजनाओं के लिए 45^{वीं} संयुक्त समन्वय समिति की बैठक – बैठक के कार्यवृत्त / 45th Joint Co-ordination Committee Meeting for Generation & Transmission projects of Western Region- Minutes of Meeting

महोदय/महोदया/ Sir/ Ma'am,

पश्चिमी क्षेत्र की संयुक्त समन्वय समिति की 45^{वीं} बैठक 27 सितम्बर, 2024 को वीडियो कॉन्फ्रेंस के माध्यम से उत्पादन और ISTS पारेषण परियोजनाओं की स्थिति की समीक्षा करने के लिए आयोजित की गई थी। इस संबंध में, उत्पादन प्रोजेक्ट्स और संबंधित ISTS पारेषण प्रणाली की प्रगति का संकेत देते हुए बैठक के कार्यवृत्त संलग्न है। उक्त कार्यवृत्त सी.टी.यू. की वेबसाइट (www.ctuil.in >> ISTS Planning and Coordination >> Joint Coordination Committee Meetings >> Western Region) पर भी उपलब्ध है।

The 45th meeting of Joint Co-ordination Committee was held on 27 Sept'24 through Video Conference to review the status of upcoming generation & transmission projects in the Western Region. In this regard, please find enclosed the Minutes of Meeting indicating the progress of generation projects and associated ISTS transmission system. The same is also available on CTU website (www.ctuil.in >> ISTS Planning and Coordination >> Joint Coordination Committee Meetings >> Western Region).

धन्यवाद/ Thanking you,

भवदीय / Yours faithfully,

(अभिजित झा) / (Abhijit Jha)

उप-महाप्रबंधक/ DGM

5वीं-10वीं मंजिल, टावर 1, इरकॉन इंटरनेशनल टावर, प्लॉट नंबर 16, सेक्टर 32, गुरुग्राम, हरियाणा - 122001, सीआईएन: U40100HR2020GOI091857
5th-10th Floor, Tower 1, IRCON International Tower, Plot No. 16, Sector 32, Gurugram, Haryana - 122001, CIN: U40100HR2020GOI091857

पंजीकृत कार्यालय: "सादामिनी", पहली मंजिल, प्लॉट नंबर 2, सेक्टर-29, गुरुग्राम, हरियाणा - 122001

Registered office: "Saudamini", 1st Floor, Plot No.2, Sector-29, Gurugram, Haryana - 122001

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

SL

Minutes of Joint Coordination Committee meeting with Generation & ISTS Transmission Developers for upcoming Generation & Transmission projects in Western Region (WR) held on 27.09.2024 through video conferencing.

1. CTUIL welcomed all the participants for this JCC meeting with Generation & Transmission Developers for their upcoming projects. The list of participants of the meeting is enclosed at **Annexure-I**.
2. Last Minutes of 44th JCC Meeting of Western Region was held on 27.06.2024 through video conference and the minutes of the meeting were circulated vide letter Ref: CTU/CMG/44th JCC-WR/MoM dtd 02.08.2024. As no comments have been received the minutes are confirmed as circulated.
3. It was informed by CTU that status of different Transmission schemes, which are under bidding stage by BPCs (i.e. RECPDCL & PFCCL), is mentioned in Bidding Calendar uploaded on CTUIL website under the tab: ISTS Planning and Coordination->> Bidding Calendar.
4. TSPs (Transmission Service Providers) were requested to adhere to their respective SCOD schedule for timely completion of the project & corrective actions to be taken by TSPs for any anticipated delays.
5. Scheduled Date of Commissioning of generation project as per the Bids, as applicable to be filled mandatorily in the Connectivity Monitoring portal. If there is any extension by respective REIA, the same must be informed to CTUIL with supporting documents.
6. Entities covered under Regulation 4.1 and clause (iii) of Regulation 17.1 of CERC (Connectivity and GNA to the ISTS) Regulations, 2022 shall furnish one-time GNA charge for Rs. one lakh per MW for the quantum of GNA one month prior to the start date of GNA.
7. Status of commissioning schedule informed by generation projects developers and transmission developers during the meeting are as follows:

A1. Status of RE Generation Projects:

Status has been updated based on the online status uploaded by the applicants on the CTU project monitoring portal and as updated by Generation developers during the meeting. The detailed status as uploaded by applicants on the CTU project monitoring portal is attached as Annexure-II.

Sl. No.	Name of Grantee	Conn. Under GNA-Quantum (MW)	Gen Schedule (As per June'24 meeting)	Schedule as per Sept'24 JCC Meeting		Start date of Connectivity under GNA (as per intimation)/Likely Operationalization dates	Deliberations/Remarks
				Under Applicant scope Generation /Connectivity line schedule	Under ISTS Scope Connectivity system under GNA		
1.	ReNew Power Ltd. (formerly Renew Power Ventures Pvt. Ltd.), Bhuvad (400MW) (RPL-Bhuvad)	350	Generation Schedule: Ph1-126MW: 17.05.2019 Ph2-58.5MW: 30.09.2019 Ph3-27.6MW: 01.09.2020 Ph4-18MW: 06.02.2021 (Total: 230.1 MW commissioned)	Not Attended Generation Schedule: Ph1-126MW: 17.05.2019 Ph2-58.5MW: 30.09.2019 Ph3-27.6MW: 01.09.2020 Ph4-18MW: 06.02.2021 (Total: 230.1 MW commissioned)	Nil Connectivity System: Nil	Start date of Connectivity under GNA: 01.05.2019 or availability of transmission system whichever is later	ReNew has requested Govt. of Gujarat, GEDA and MNRE/MOP to allow ReNew to use unutilized connectivity/LTA (total granted 119.9 MW) at Gujarat. The applicant is liable for payment of applicable transmission charges for mismatch period for un-commissioned capacity of the generation project from the date of its operationalization i.e., 01.05.2019 (for 300MW) and 23.11.2019 (for 50MW) & shall be governed by CERC Sharing Regulations, 2020.
	Connectivity No.: 1200000326 (Deemed GNA as per 18.1)		Ph5-119.9MW: 06.02.2021 (Total: 230.1 MW commissioned) Ph5-119.9MW: 30.06.2025 (Status not digitally signed.)	Dedicated Transmission Line: RPVPL - Bhachau 220kV D/c line along with associated line bays at 400kV D/c (triple) line - both ends -03.05.2019 (Commissioned)	Connectivity system under GNA: Green Energy Corridor & Mundra UMPP - Bhuj PS 300MW- 01.05.2019; 50MW- 23.11.2019 Commissioned	Deemed effective w.e.f. 300MW- 01.05.2019; 50MW- 23.11.2019	Petition No. 227/IMP/2022 has been filed before the Central Commission. The Petition is under adjudication before the Hon'ble Commission.
	Bhuj SS						

Sl. No.	Name of Grantee	Conn. Under GNA-Quantum (MW)	Gen Schedule (As per June'24 meeting)	Schedule as per Sept'24 JCC Meeting		Start date of Connectivity under GNA (as per Intimation)/ Likely Operationalization dates	Deliberations/Remarks
				Under Applicant scope Generation /Commissioning line schedule	Under ISTS Scope Connectivity / Connectivity system under GNA		
5.	NTPC Renewable Energy Limited (NTPC REL) Connectivity Appl No.- 0230700003: 150MW- Under Regulation 37.3	150MW Bid Route	Not Attended Status as received on email: 05.11.2023; Generation: 50MW- (Commissioned) 100MW- 05.11.2023; (Commissioned) 100MW- 15.08.2024	Not Attended Generation: 50MW- 05.11.2023; (Commissioned) 100MW- (Commissioned)	Connectivity System: 150MW: NTPC REL shall share Bay 205 & 208 with IGESL	Start date of Connectivity under GNA: 28.02.2024	CTUIL vide letter dated 29.02.2024 has made effective 150MW GNA granted to NTPC-REL at Bhuj-PS w.e.f. 28.02.2024. M/s NTPC-REL shall be liable to bear all commercial and operational liabilities including mismatch in commissioning of generation project as per applicable CERC Regulations & directions issued from time to time.
6.	NTPC Renewable Energy Limited Connectivity Appl- 2200000218	155	Not Attended Status as received on email: 15.06.2025; Generation: 155MW- 28.06.2025	Not Attended Generation: 155MW- (Commissioned)	Connectivity system under GNA: • Establishment of 2x1500MVA, 765/400kV Lakadia PS. • LLO of Bachau-EPGL 400kV D/c (triple) line at Lakadia PS. • Bhuj PS-Lakadia PS 765kV D/c line. • Lakadia-Vadodara 765kV D/c line. DTL: Bay No. 206 at Bhuj PS shall be implemented under ISTS. - 31.03.2025 ATS: Nil	Start date of Connectivity under GNA: 28.06.2025	

Sl. No.	Name of Grantee	Conn. Under GNA-Quantum (MW)	Gen Schedule (As per June'24 meeting)	Schedule as per Sept'24 JCC Meeting		Start date of Connectivity under GNA (as intimation)/ Likely Operationalization dates	Deliberations/Remarks
				Under Applicant scope Generation /Connectivity line schedule	Under ISTS Scope Connectivity under GNA / system		
				DTL: NTPC REL shall share the Dedicated Transmission System for Connectivity granted to Ayana Renewable Power Four Private Limited (ARP4PL) for Hybrid RE project of 100MW against Connectivity appl. no. 2200000239 as given below: . ARP4PL – Bhuj PS 220kV S/c line along with associated line bay at generating station (under the scope of applicant) .	CTS: Existing	Likely Operationalization date: 28.06.2025	
7.	Ayana Renewable Power Private Limited (ARP4PL) Connectivity Appl-2200000239	100	Status as informed during meeting and subsequently vide email dtd. 27.06.24 Generation: 37.5MW: 31.10.2024 50MW: 31.12.2024 43MW: 28.02.2025	Not Attended Generation: 37.5MW: 31.10.2024 50MW: 31.12.2024 43MW: 28.02.2025	DTL: Bay at ISTS substation shall be implemented as a part of ISTS (No. 206). - 31.03.2025 ATS: Nil Augmentation (other than ATS): Existing Transmission System	Start date of Connectivity under GNA (as intimation)/ Likely Operationalization dates: 31.03.2025	

Sl. No.	Name of Grantee	Conn. Under GNA-Quantum (MW)	Gen Schedule (As per June'24 meeting)	Schedule as per Sept'24 JCC Meeting			Start date of Connectivity under GNA (as per intimation)/ Likely Operationalization dates	Deliberations/Remarks
				Under Applicant scope Generation /Commissioning line schedule	Under ISTS Scope Connectivity under GNA	Connectivity system		
				DTL awarded. Work in progress.				
8.	Ayana Renewable Power Private Limited (ARP4PL) Connectivity Appl-2200000240	150	Generation: 150MW: 31.12.2024	Not Attended Generation: 150MW: DTL: 15.12.2024 ARP4PL – Bhuj PS 220kV S/c line along with associated line bay at generating station (under the scope of applicant). Bay at ISTS substation shall be implemented by applicant (Bay No. 207).	DTL: Nil ATS: Nil Augmentation (other than ATS): Existing System Transmission		Start date of Connectivity under GNA: 31.12.2024 Likely Operationalization date: 31.12.2024	M/s ARP4PL representative informed that there are issues in sharing of multi-circuit tower of M/s Inox. CTUIL representative informed that the issue will be taken up separately with the concerned parties involved.
9.	NLC India Limited Connectivity Appl-2200000386	200MW (Solar)	Status as updated during meeting Generation: 200MW: 30.06.2025 (Status attached) not	Not Attended Generation: 200MW: DTL: 31.03.2025 NLCIL-Bhuj PS 220kV line along with associated bays at the generating end. Bay at Bhuj PS.	DTL: Nil ATS: Nil CTS: Establishment of 1x500MVA 400/220kV ICT (9th) at Bhuj I PS -01.07.2025		Start date of Connectivity under GNA: 01.07.2025 Likely Operationalization date: 01.07.2025	Status as informed by applicant: Land: Approximately 100% of the land is finalized and registration for approximate 250 Acres of Land is under progress. The balance land is expected to be registered by August 2024. Engineering activities for the project are progressing in fast pace and planning to place the order for major equipment in July 2024.



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)

संदर्भ/Ref: CTU/CMG/46th JCC-WR/MoM

दिनांक/Date: 06-03-2025

वितरण सूची के अनुसार/ As per Distribution List

विषय: पश्चिमी क्षेत्र में विद्युत उत्पादन एवं पारेषण परियोजनाओं के लिए 46^{वीं} संयुक्त समन्वय समिति की बैठक – बैठक के कार्यवृत्त / 46th Joint Co-ordination Committee Meeting for Generation & Transmission projects of Western Region- Minutes of Meeting

महोदय/महोदया/ Sir/ Ma'am,

पश्चिमी क्षेत्र की संयुक्त समन्वय समिति की 46^{वीं} बैठक 26 दिसंबर, 2024 को वीडियो कॉन्फ्रेंस के माध्यम से उत्पादन और ISTS पारेषण परियोजनाओं की स्थिति की समीक्षा करने के लिए आयोजित की गई थी। इस संबंध में, उत्पादन प्रोजेक्ट्स और संबंधित ISTS पारेषण प्रणाली की प्रगति का संकेत देते हुए बैठक के कार्यवृत्त संलग्न है। उक्त कार्यवृत्त सी.टी.यू. की वेबसाइट (www.ctuil.in >> ISTS Planning and Coordination >> Joint Coordination Committee Meetings >> Western Region) पर भी उपलब्ध है।

The 46th meeting of Joint Co-ordination Committee was held on 26 December 2024 through Video Conference to review the status of upcoming generation & transmission projects in the Western Region. In this regard, please find enclosed the Minutes of Meeting indicating the progress of generation projects and associated ISTS transmission system. The same is also available on CTU website (www.ctuil.in >> ISTS Planning and Coordination >> Joint Coordination Committee Meetings >> Western Region).

धन्यवाद/ Thanking you,

भवदीय / Yours faithfully,

(राजेश वर्मा) / (Rajesh Verma)

महाप्रबंधक/ GM

Minutes of 46th Joint Coordination Committee meeting with Generation & ISTS Transmission Developers for upcoming Generation & Transmission projects in Western Region (WR) held on 26.12.2024 through video conferencing.

1. CTUIL welcomed all the participants for this JCC meeting with Generation & Transmission Developers for their upcoming projects. The list of participants of the meeting is enclosed at **Annexure-I**.
2. Last Minutes of 45th JCC Meeting of Western Region was held on 27.09.2024 through video conference and the minutes of the meeting were circulated vide letter Ref: CTU/CMG/45th JCC-WR/MoM dtd 14.11.2024. As no comments have been received the minutes are confirmed as circulated.
3. It was informed by CTU that status of different Transmission schemes, which are under bidding stage by BPCs (i.e. RECPDCL & PFCCCL), is mentioned in Bidding Calendar uploaded on CTUIL website under the tab: ISTS Planning and Coordination->> Bidding Calendar.
4. TSPs (Transmission Service Providers) are requested to adhere to their respective SCOD schedule for timely completion of the project and corrective actions to be taken by TSPs for any anticipated delays.
5. CTUIL requested Generators to update their Generation progress on CTU Monitoring portal on monthly basis by end of every month and also before every JCC meeting. Further, Generators were also requested to coordinate with TSP regularly for updated schedule of transmission projects.
6. Scheduled Date of Commissioning of generation project as per the Bids, as applicable to be filled mandatorily in the Connectivity Monitoring portal. If there is any extension by respective REIA, the same must be informed to CTUIL with supporting documents.
7. Entities covered under Regulation 4.1 and clause (iii) of Regulation 17.1 of CERC (Connectivity and GNA to the ISTS) Regulations, 2022 shall furnish one-time GNA charge for Rs. one lakh per MW for the quantum of GNA one month prior to the start date of GNA.
8. Connectivity/GNA Grantees (RE Developers / RPPDs) are required to achieve COD as per Regulation 24.6 of CERC Connectivity & GNA Regulations, 2022 (as amended from time to time), failing which their Connectivity is liable for revocation in terms of above Regulation.
9. Status of commissioning schedule informed by generation projects developers and transmission developers during the meeting are as follows:

A1. Status of RE Generation Projects:

Status has been updated based on the online status uploaded by the applicants on the CTU project monitoring portal and as updated by Generation developers during the meeting. The detailed status as uploaded by applicants on the CTU project monitoring portal is attached as **Annexure-II**.

Sl. No.	Name of Grantee	Conn. Under GNA-Quantum (MW)	Gen Comm. Schedule (As per Sept'24 meeting)	Schedule as per Dec'24 JCC Meeting		Start date of Connectivity under GNA (as per intimation)/ Likely Operationalization dates	Deliberations/Remarks
				Under Applicant scope	Under ISTS Scope		
1.	ReNew Power Ltd. (formerly Renew Power Ventures Pvt. Ltd.), Bhuvad (400MW) (RPL-Bhuvad)	350	Not Attended	Generation Commissioning /Connectivity line schedule	Connectivity under GNA system	Start date of Connectivity under GNA: 01.05.2019 or availability of transmission system whichever is later	ReNew has requested Govt. of Gujarat, GEDA and MNRE/MOP to allow ReNew to use unutilized connectivity/LTA (total granted 119.9 MW) at Gujarat. The applicant is liable for payment of applicable transmission charges for mismatch period for un-commissioned capacity of the generation project from the date of its operationalization i.e., 01.05.2019 (for 300MW) and 23.11.2019 (for 50MW) & shall be governed by CERC Sharing Regulations, 2020.
	Connectivity No.: 1200000326 (Deemed GNA as per 18.1)		Generation Schedule: Ph1-126MW: 17.05.2019 Ph2-58.5MW: 30.09.2019 Ph3-27.6MW: 01.09.2020 Ph4-18MW: 06.02.2021 (Total: 230.1 MW commissioned) Ph5-119.9MW: 30.09.2025 (Status not digitally signed.)	Not Attended	Connectivity System: Nil		Petition No. 227/MPI/2022 has been filed before the Central Commission. The Petition is under adjudication before the Hon'ble Commission. Vide ROP dated 21.1.2025, Commission reserved the matter for order.
				Dedicated Transmission Line:	Connectivity under GNA: Green Energy Corridor & system	Deemed effective w.e.f. GNA	

Sl. No.	Name of Grantee	Conn. Under GNA-um (MW)	Gen Comm. Schedule (As per Sept'24 meeting)	Schedule as per Dec'24 JCC Meeting		Start date of Connectivity under GNA (as per intimation)/ Likely Operationalization dates	Deliberations/Remarks
				Under scope	Applicant Generation Commissioning /Connectivity line schedule Commissioned		
5.	NTPC Renewable Energy Limited (NTPC REL) Connectivity Appl No.- 0230700003: 150MW- Under Regulation 37.3	150MW (Bid Route)	Not Attended Status as per June'24 meeting (received on email): Generation: 50MW- 05.11.2023; (Commissioned) 100MW- 15.03.2025	Not Attended Status updated through mail. Generation: 50MW- 05.11.2023; (Commissioned) 100MW- 15.03.2025	Connectivity System: 150MW: NTPC REL shall share Bay 205 & 208 with IGESL	Start date of Connectivity under GNA: 28.02.2024	CTUIL vide letter dated 29.02.2024 has made effective 150MW GNA granted to NTPC-REL at Bhuj-PS w.e.f. 28.02.2024. M/s NTPC-REL shall be liable to bear all commercial and operational liabilities including mismatch in commissioning of generation project as per applicable CERC Regulations & directions issued from time to time.
6.	NTPC Renewable Energy Limited	155	Not Attended Status as per June'24	Not Attended Status updated through mail.	Connectivity system under GNA: - Establishment of 2x1500MVA, 765/400kV Lakadia PS. - LIO of Bachau-EPGL 400kV D/c (triple) line at Lakadia PS. - Bhuj PS-Lakadia PS 765kV D/c line. - Lakadia-Vadodara 765kV D/c line.	Operationalization date: 28.02.2024	
					DTL: Bay No. 206 at Bhuj PS shall be implemented under ISTS. - 31.03.2025	Start date of Connectivity under GNA: 28.06.2025	

Sl. No.	Name of Grantee	Conn. Under GNA-um (MW)	Gen Comm. Schedule (As per Sept'24 meeting)	Schedule as per Dec'24 JCC Meeting		Start date of Connectivity under GNA (as per intimation)/ Likely Operationalization dates	Deliberations/Remarks
				Under scope	Applicant Generation Commissioning /Connectivity line schedule		
	Connectivity Appl- 2200000218		meeting (received on email): Generation: 155MW: 28.06.2025		Generation: 155MW: 28.06.2025 DTL: NTPC REL shall share the Dedicated Transmission System for Connectivity granted to Ayana Renewable Power Four Private Limited (ARP4PL) for Hybrid RE project of 100MW against Connectivity appl. no. 2200000239 as given below: . ARP4PL – Bhuj PS 220kV S/c line along with associated line bay at generating station (under the scope of applicant) .		
7.	Ayana Renewable Power Private Limited (ARP4PL)	100	Not Attended Status as informed during meeting and subsequently	Status as informed in meeting Generation: 37.5MW: 31.03.2025 62.5MW: 30.06.2025	DTL: - Bay at ISTS substation shall be implemented as a part of ISTS (No. 206). - 31.03.2025	Start date of Connectivity under GNA: 31.03.2025 [Subject to the availability of the Common Transmission	NTPC REL shall share bay no. 206 allocated to M/s Ayana Renewable Power Four Pvt. Ltd. (ARP4PL) against application no. 2200000239 for 100MW

Sl. No.	Name of Grantee	Conn. Under GNA-Quantum (MW)	Gen Comm. Schedule (As per Sept'24 meeting)	Schedule as per Dec'24 JCC Meeting			Start date of Connectivity under GNA (as per intimation)/ Likely Operationalization dates	Deliberations/Remarks
				Under scope	Applicant	Under ISTS Scope		
	Connectivity Appl- 2200000239		vide email dtd. 27.06.24	Generation Commissioning /Connectivity line schedule		Connectivity under GNA / system		
			Generation: 37.5MW: 31.10.2024 50MW: 31.12.2024 43MW: 28.02.2025		ATS: Nil		System Augmentation for Connectivity under GNA].	
			DTL: 01.03.2025 ARP4PL – Bhuj PS 220kV S/c line along with associated line bay at generating station (under the scope of applicant) DTL awarded. Work in progress.		Augmentation (other than ATS): Existing System Transmission		Likely Operationalization date: 31.03.2025	
8.	NTPC Renewable Energy Limited (NTPC REL) Connectivity Appl- 2200000566 10 MW	10 MW (Wind NTPC)		Not Attended Status updated through mail. Generation: 10 MW:28.06.2025	DTL: Bay at ISTS substation shall be implemented as a part of ISTS (No. 206). - 31.03.2025	ATS: Nil	Start date of Connectivity under GNA: 16.04.2026 [Subject to the availability of the Common Transmission System Augmentation for Connectivity under GNA].	
				DTL: 01.03.2025	Augmentation (other than ATS):		Likely Operationalization date:	

Sl. No.	Name of Grantee	Conn. Under GNA-Quant (MW)	Gen Comm. Schedule (As per Sept'24 meeting)	Schedule as per Dec'24 JCC Meeting		Start date of Connectivity under GNA (as per intimation)/ Likely Operationalization dates	Deliberations/Remarks
				Under scope	Under ISTS Scope		
				Generation Commissioning /Connectivity line schedule	Connectivity under GNA system		
				NTPC REL shall share bay no. 206 allocated to M/s PS ARP4PL against appl no. 22000000239.	Installation of 1x500MVA, 400/220kV 9th ICT at Bhuj (Awarded to POWERGRID vide CTU letter dated 02.01.2024 with Implementation time-frame of 18 months) - 01.07.2025	10MW - 16.04.2026	
				ARP4PL - Bhuj PS 220kV S/c line along with associated line bay at generating station DTL awarded. Work in progress.			
9.	Ayana Renewable Power Private Limited (ARP4PL) Connectivity Appl- 22000000240	150	Not Attended Status as per June'24 meeting Generation: 150MW: 31.12.2024	Status as informed in meeting Generation: 150MW: 30.06.2025	DTL: Nil ATS: Nil	Start date of Connectivity under GNA: 31.12.2024	M/s ARP4PL representative informed that there are issues in sharing of multi-circuit tower of M/s Inox. CTUIL representative informed that the issue will be taken up separately with the concerned parties involved. CTU vide letter dated 17.12.2024 has made effective the Connectivity for 150MW w.e.f. 31.12.2024. M/s ARP4PL shall be liable to bear all commercial and operational liabilities as per applicable CERC Regulations & directions issued from time to time.



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)

संदर्भ/Ref: CTU/PMG/47th JCC-WR/MoM

दिनांक/Date: 31.05.2025

वितरण सूची के अनुसार/ As per Distribution List

विषय: पश्चिमी क्षेत्र में विद्युत उत्पादन एवं ISTS पारेषण परियोजनाओं के लिए 47^{वीं} संयुक्त समन्वय समिति की बैठक – बैठक के कार्यवृत्त/ 47th Joint Co-ordination Committee Meeting for Generation Projects in Western Region – Minutes of Meeting

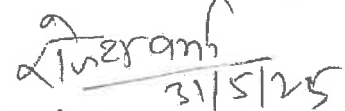
महोदय/महोदया/ Sir/ Madam,

संयुक्त समन्वय समिति की 47^{वीं} बैठक 28 मार्च, 2025 को वीडियो कॉन्फ्रेंस के माध्यम से उत्पादन और ISTS पारेषण परियोजनाओं की स्थिति की समीक्षा करने के लिए आयोजित की गई थी। इस संबंध में उत्पादन प्रोजेक्ट्स और संबंधित ISTS पारेषण प्रणाली की प्रगति का संकेत देते हुए बैठक के कार्यवृत्त संलग्न है। उक्त कार्यवृत्त सी.टी.यू. की वेबसाइट (www.ctuil.in >> ISTS Planning and Coordination >> Joint Coordination Committee Meetings >> Western Region) पर भी उपलब्ध है।

The 47th meeting of Joint Co-ordination Committee was held on 28th March 2025 through Video Conference to review the status of upcoming generation & transmission projects in the Western Region. In this regard, please find enclosed the Minutes of Meeting indicating the progress of generation projects and associated ISTS transmission system. The same is also available on CTU website (www.ctuil.in >> ISTS Planning and Coordination >> Joint Coordination Committee Meetings >> Western Region).

धन्यवाद/ Thanking you,

भवदीय / Yours faithfully,



(राजेश वर्मा) / (Rajesh Verma)

महाप्रबंधक/ General Manager

Minutes of 47th Joint Coordination Committee meeting with Generation & ISTS Transmission Developers for upcoming Generation & Transmission projects in Western Region (WR) held on 28.03.2025 through video conferencing.

1. CTUIL welcomed all the participants for this JCC meeting with Generation & Transmission Developers for their upcoming projects in WR.
2. It was informed that 46th JCC Meeting of Western Region was held on 26.12.2024 through video conference and the minutes of the meeting were circulated vide letter Ref: CTU/CMG/46th JCC-WR/MoM dtd 06.03.2025. As no comments have been received the minutes were confirmed as circulated.
3. Further, it was informed is to inform by CTU that status of different Transmission schemes, which are under bidding stage by BPCs (i.e., RECPDCL & PFCCL), is mentioned in Bidding Calendar uploaded on CTUIL website under the tab: ISTS Planning and Coordination->> Bidding Calendar.
4. CTUIL requested Generators to update their Generation progress on CTU Monitoring portal on monthly basis by 5th day of every month and also 7 days prior to every JCC meeting. Further, Generators were also requested to coordinate with TSP regularly for updated schedule of transmission projects.
5. It was informed that SCOD of generation project as per REIA/Distribution Licensee/ authorized agency on behalf of distribution licensee, as applicable, to be filled mandatorily in the CTU Monitoring portal henceforth. In case of any extension or delayed commissioning permitted by respective REIAs/Distribution Licensees/ authorized agency on behalf of distribution licensee, the same must be informed by concerned Grantee to CTUIL with supporting documents within 7 days. In case of non- receipt of supporting documents, revised SCOD date shall not be considered. Further, to achieve project completion within SCOD, RE generators were requested to provide the timelines for critical milestones of their respective project to CTU by 15th April"2025.
6. Generators and TSPs (Transmission Service Providers) were requested to adhere to their respective SCOD schedule for timely completion of the project & corrective actions to be taken by Generators and TSPs for any anticipated delays. They were also requested to send the COD certificates within 7 days to CTU after declaration of the same.
7. Entities covered under Regulation 4.1 and clause (iii) of Regulation 17.1 of CERC (Connectivity and GNA to the ISTS) Regulations, 2022 shall furnish one-time GNA charge for Rs. one lakh per MW for the quantum of GNA one month prior to the start date of GNA.
8. Connectivity/GNA Grantees (RE Developers / RPPDs) are required to achieve COD as per Regulation 24.6 of CERC Connectivity & GNA Regulations, 2022 (as amended from time to time), failing which their Connectivity is liable for revocation in terms of above Regulation.

9. Status of commissioning schedule informed by generation projects developers and transmission developers during the meeting are as follows:

A1. Status of RE Generation Projects:

Status has been updated based on the online status uploaded by the applicants on the CTU project monitoring portal and as updated by Generation developers during the meeting. The detailed status as uploaded by applicants on the CTU project monitoring portal is attached as **Annexure-II**.

II.

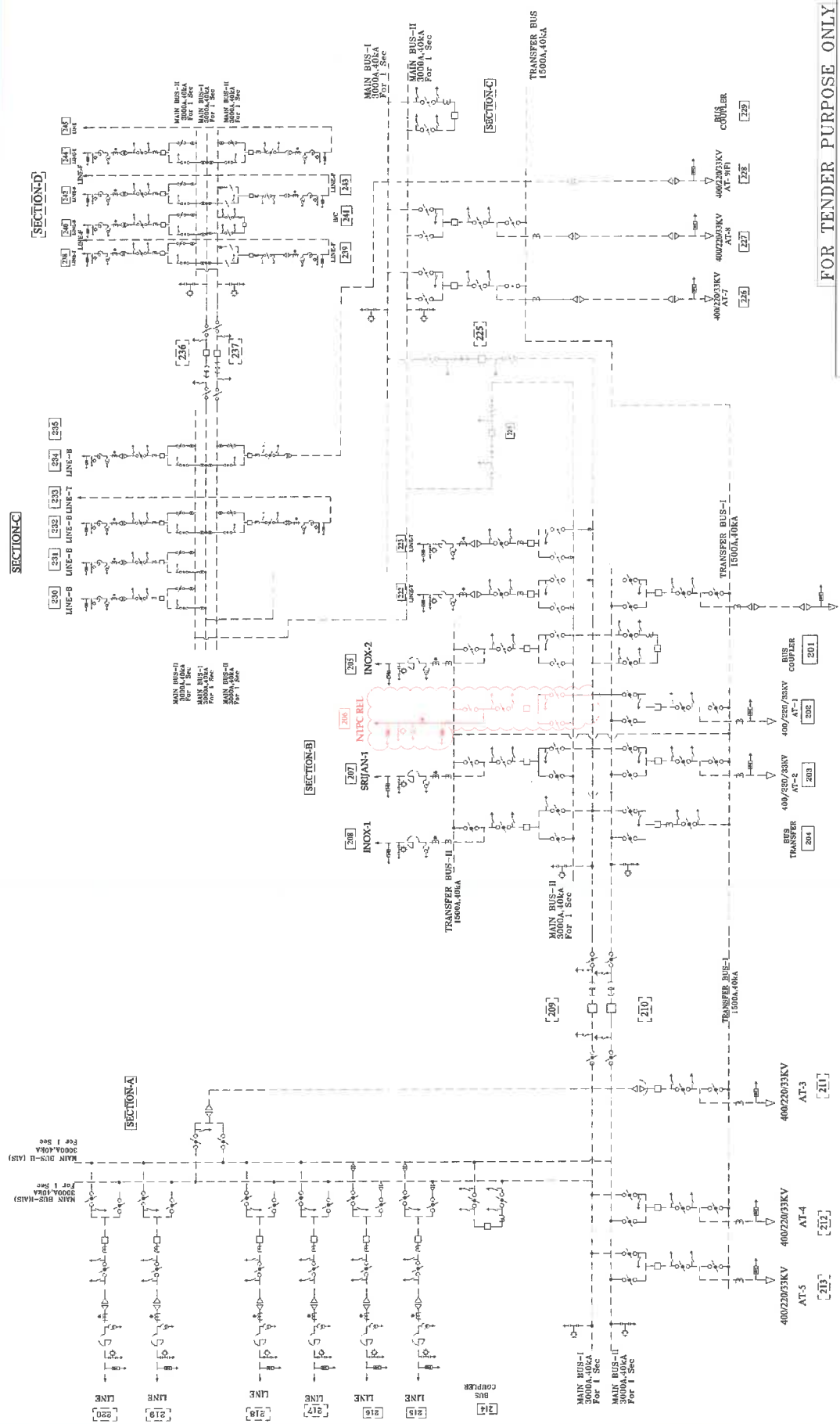
Sl. No.	Name of Grantee	Conn. Under GNA-Quantum (MW)	Gen Comm. Schedule (As per Dec'24 meeting)	Schedule as per Mar'25 JCC Meeting		Start date of Connectivity under GNA (as per intimation)/ Likely Operationalization dates	Deliberations/Remarks
				Under scope	Applicant / Connectivity system under GNA		
1.	ReNew Power Ltd. (formerly Renew Power Ventures Pvt. Ltd.), Bhuvad (400MW) (RPL-Bhuvad)	350	Not Attended Generation Schedule: Ph1-126MW: 17.05.2019 Ph2-58.5MW: 30.09.2019 Ph3-27.6MW: 01.09.2020 Ph4-18MW: 06.02.2021 (Total: 230.1 MW commissioned)	Generation Schedule: Ph1-126MW: 17.05.2019 Ph2-58.5MW: 30.09.2019 Ph3-27.6MW: 01.09.2020 Ph4-18MW: 06.02.2021 (Total: 230.1 MW commissioned)	Connectivity System: Nil	Start date of Connectivity under GNA: 01.05.2019 or availability of transmission system whichever is later.	The applicant is liable for payment of applicable transmission charges for mismatch period for un-commissioned capacity of the generation project from the date of its operationalization i.e., 01.05.2019 (for 300MW) and 23.11.2019 (for 50MW) & shall be governed by CERC Sharing Regulations, 2020.
	Connectivity Appl. No.: 1200000326		27.6MW: 01.09.2020 Ph4-18MW: 06.02.2021				Petition No. 227/MP/2022 has been filed before the Central Commission. The Petition is under adjudication before the Hon'ble Commission.

Sl. No.	Name of Grantee	Conn. Under GNA-Quantum (MW)	Gen Comm. Schedule (As per Dec'24 meeting)	Schedule as per Mar'25 JCC Meeting		Start date of Connectivity under GNA (as per information)/ Likely Operationalization dates	Deliberations/Remarks
				Under Applicant scope Generation Commissioning /Connectivity line schedule	Under ISTS Scope Connectivity / Connectivity system under GNA		
6.	NTPC Renewable Energy Limited Connectivity Appl-2200000218	155	Not Attended Status as per Dec'24 meeting. Generation : 155MW. 28.06.2025	connectivity granted to IGESL vide intimation no. C/CTU/W/CON/0390 dtd. 31.03.2017- Commissioned Status updated through mail. Generation: 155MW: 28.06.2025	(triple) line at Lakadia PS. • Bhuj PS-Lakadia PS 765kV D/c line. • Lakadia-Vadodara 765kV D/c line. DTL: Bay No. 206 at Bhuj PS shall be implemented under ISTS. - 31.03.2025 ATS: Nil CTS: Existing	Start date of Connectivity under GNA: 28.06.2025 Likely Operationalization date: 28.06.2025	

Sl. No.	Name of Grantee	Conn. Under GNA-Quantum (MW)	Gen Comm. Schedule (As per Dec'24 meeting)	Schedule as per Mar'25 JCC Meeting		Start date of Connectivity under GNA (as per intimation)/ Likely Operationalization dates	Deliberations/Remarks
				Under scope Generation Commissioning /Connectivity line schedule	Under ISTS Scope Connectivity system under GNA		
				Hybrid RE project of 100MW against Connectivity appl. no. 2200000239 as given below: ARP4PL – Bhuj PS 220kV S/c line along with associated line bay at generating station (under the scope of applicant) Foundations: 23/23 Tower erections: 23/23 Stringing (ckm): 3/5			

Sl. No.	Name of Grantee	Conn. Under GNA-Quantum (MW)	Gen Comm. Schedule (As per Dec'24 meeting)	Schedule as per Mar'25 JCC Meeting		Start date of Connectivity under GNA (as per intimation)/ Likely Operationalization dates	Deliberations/Remarks
				Under scope Generation Commissioning /Connectivity line schedule	Applicant Under ISTS Scope Connectivity / Connectivity system under GNA		
7.	Ayana Renewable Power Four Private Limited (ARP4PL) Connectivity Appl- 2200000239	100 (Hybrid)	Not Attended Status as informed during meeting and subsequent y vide email dtd. 27.06.24	Status as informed in meeting Generation: 37.5MW (Solar): 15.04.2025 92.8MW (Wind): 30.06.2025	DTL: Bay at ISTS substation shall be implemented as a part of ISTS (No. 206). - 31.03.2025 ATS: Nil	Start date of Connectivity under GNA: 31.03.2025 [Subject to the availability of the Bay being implemented under ISTS].	NTPC REL shall share bay no. 206 allocated to M/s Ayana Renewable Power Four Pvt. Ltd. (ARP4PL) against application no. 2200000239 for 100MW.
8.	NTPC Renewable Energy Limited	10 MW Wind NTPC	10 MW: 28.06.2025	DTL: 01.03.2025 Generation : ARP4PL – Bhuj PS 220kV S/c line along with associated line bay at generating station (under the scope of applicant) DTL awarded. Work in progress.	Augmentation (other than ATS): Existing Transmission System	Likely Operationalization date: 31.03.2025	
				Generation: 10MW: 31.05.2025	DTL: Bay at ISTS substation shall be implemented as a part of ISTS (No. 206).	Start date of Connectivity under GNA: 16.04.2026	

Sl. No.	Name of Grantee	Conn. Under GNA-Quantum (MW)	Gen Comm. Schedule (As per Dec'24 meeting)	Schedule as per Mar'25 JCC Meeting		Start date of Connectivity under GNA (as per intimation)/ Likely Operationalization dates	Deliberations/Remarks
				Under Applicant scope Generation Commissioning /Connectivity line schedule	Under ISTS Scope Connectivity / Connectivity system under GNA		
	(NTPC REL) Connectivity Applicant- 2200000566 10 MW				- 31.03.2025 ATS: Nil	[Subject to the availability of the Common Transmission System Augmentation for Connectivity under GNA]. Likely Operationalization date: 10MW- 16.04.2026	
				DTL: 31.05.2025 NTPC REL shall share bay no. 206 allocated to M/s ARP4PL against appl no. 22000000239. ARP4PL – Bhuj PS 220kV S/c line along with associated line bay at generating station. DTL awarded. Work in progress. No. of foundations 23/23	Augmentation (other than ATS): Installation of 1x500MVA, 400/220kV 9th ICT at Bhuj PS (Awarded to POWERGRID vide CTU letter dated 02.01.2024 with Implementation timeframe of 18 months) - 01.07.2025		



S.NO	ITEM DESCRIPTION	SYMBOL
1	CIRCUIT BREAKER (1600A, 3-PH)	
2	ISOLATOR WITH TWO EARTH SWITCH (1600A, 3-PH)	
3	ISOLATOR WITH ONE EARTH SWITCH (1600A, 3-PH)	
4	ISOLATOR WITHOUT EARTH SWITCH (1600A, 3-PH)	
5	245KV, 1600A CT (1 PH) WITH 120% Ith	
6	245KV, 1600A CT (1 PH) WITH 120% Ith (2 CORE METERING CT)	
7	245KV EMVT (2 CORE METERING EMVT)-1PH	
8	245KV CVT (1 PH), 4400 pF	
9	216KV SURGE ARRESTOR (1 PH)	

FOR TENDER PURPOSE ONLY

POWER GRID CORPORATION OF INDIA LIMITED
(A Government of India Enterprise)

PROJECT:
IMPLEMENTATION OF 1 NO 220KV LINE BAY AT BHUJ
PS FOR PROVIDING CONNECTIVITY TO M/S NTPC
RENEWABLE ENERGY LTD. (300MW)
SUBSTATION:
765/400/220KV BHUJ POOL SUBSTATION(EXTN.)

TITLE : SINGLE LINE DIAGRAM

DATE DEC 2022	DRAWN BY C/ENG-SS/WR/BHUJ/IPF's/SID/01	SCALE NTS
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DETAILED PROJECT REPORT FOR IMPLEMENTATION OF 1 NO. 220KV LINE BAY AT BHUJ PS FOR PROVIDING CONNECTIVITY TO M/S NTPC RENEWABLE ENERGY LTD. (300MW) (TR-202238)

1.0 CONTEXT / BACKGROUND

In order to facilitate evacuation of solar power from NTPC REL, construction of 220 kV line bay at Bhuj PS is proposed. The scheme was agreed on 10th Consultation Meetings for Evolving Transmission Schemes in Western Region (CMETS-WR) meeting held on 30.08.2022. Copy of the minutes of meeting in this regard is enclosed at **Annexure 8.0**. The scheme was subsequently awarded to POWERGRID for implementation under RTM mode by CTUIL vide their Office Memorandum (OM) dated 28.11.2022. Copy of CTUIL OM is enclosed at **Annexure 9.0**.

The schematic of the proposed Transmission system is shown at **Exhibit-1.0**.

2.0 SCOPE OF WORK

The objective of the project is to provide connectivity to M/s NTPC Renewable Energy Ltd. (300MW) at 765/400/220 kV (PG) Substation. The present detailed project report covers the following scope of work:

Extension of 400/220kV Bhuj (PG) substation

220kV

- Line bay : 1 No.

Single Line Diagram (SLD) of the project is enclosed at **Exhibit-2.0**.

3.0 PROJECT HIGHLIGHTS

a)	Project	Implementation of 1 no. 220kV line bay at Bhuj PS for providing Connectivity to M/s NTPC Renewable Energy Ltd. (300MW)
b)	Location of the Project	Western Region
c)	Project Cost	Rs. 6.70 crore at December 2022 Price Level (including IDC of Rs. 0.16 crore)
d)	Monthly Fixed Charges	Rs. 11.68 Lakhs on Base Cost Rs. 12.31 Lakhs on Projected Completed Cost
e)	Commissioning schedule	The project is scheduled to be commissioned within 15 months from the CTUIL OM dated 28.11.2022, i.e., by 27.02.2024 .

4.0 PROJECT APPROVAL BY CONSTITUENTS / SHARING OF TRANSMISSION CHARGES

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The subject scheme was discussed and agreed in the 10th CMETS-WR held on 30.08.2022. Subsequently, the scheme was awarded to POWERGRID for implementation under RTM mode vide CTUIL OM dated 28.11.2022. (Copy of relevant extracts of minutes of the above meeting and CTUIL OM are enclosed at **Annexure - 8.0** and **Annexure - 9.0** respectively).

4.1.1 Since, the subject scheme does not involve any overhead line, prior approval of Government of India under Section 68(1) of Electricity Act, 2003 is not required.

4.2 SHARING OF TRANSMISSION CHARGES

The transmission charges for this project shall be shared by the beneficiaries in line with the Sharing Regulations notified by CERC from time to time.

5.0 PROJECT STRATEGY

The subject transmission system has been assigned to POWERGRID on RTM basis by CTUIL vide their OM dated 28.11.2022 and therefore it is expected that the various elements of this transmission scheme have been undertaken and evolved in consultation with concerned authorities keeping in view the present and future load requirement of Western Region.

6.0 LEGAL FRAMEWORK

It is proposed to execute the above entire transmission scheme as per provisions contained in the Indian Electricity Act, 2003 and the rules made there-under and the Electricity (Supply) Act, 1910 and 1948, in so far as these are applicable.

7.0 EQUIPMENT SELECTION PHILOSOPHY

The system and equipment parameters are chosen keeping in view the present trend in technology. The bus bar materials and the clamps and connectors are chosen meeting the stringent international requirements so that there is least loss of energy in them. Other switchgears are also suitably selected and evaluated before award itself for most efficient operation from thermal and loss efficiency point of view. The energy thus saved is energy transmitted to the beneficiaries. This is a major step in energy conservation as the energy saved on account of losses is construed as energy generated.

8.0 TECHNOLOGY FEATURES

8.1 Salient features of 220 kV Substation Equipment and facilities

The design and specification of substation equipment are to be governed by the following factors:

8.1.1 Insulation Coordination

220 kV System would be designed to limit the switching overvoltage to 2.5 pu and power frequency overvoltage of 1.5 p.u. Consistent with these values and protective levels

provided by lightning arrestors, the following insulation levels are proposed to be adopted for 220 kV system:

	Property	220 kV
a	Impulse withstand voltage for - Transformer and reactors - for Other Equipment	950 kVP 1050 kVP
b	Switching surge withstand voltage	NA
c	Minimum creepage distance	6125 mm
d	Max. fault current	50 kA
e	Duration of fault	1 Sec

To control the steady state, transient and dynamic overvoltage to specified levels, compensation equipment shall be provided.

8.1.2 Switching Schemes

It is essential that the system should remain secured even under conditions of major equipment or bus-bar failure. Sub-stations being the main connection points have large influence on the security of the system as a whole. The selection of the bus switching scheme is governed by the various technical and other related factors. Double main & transfer for 220kV side due to their merits in terms of reliability, security, operational flexibility and ease of maintenance of equipment.

The following switching schemes have been considered in substation:

Substation	220kV side
400/220 kV Bhuj (PG) Substation	Double Main and Transfer

8.1.4 220 kV Substation equipment:

The switchgear shall be designed and specified to withstand operating conditions and duty requirements. Further, switchgear for all voltage levels shall be generally of conventional type air insulated switchgear due to economy, subject to availability of suitable land.

8.1.4.1 Circuit Breakers

Circuit breakers shall in general comply to IEC 62271-100 & IEC-62271-1 and shall be of SF6 Type. The rated break time shall not exceed 60ms for 220 kV circuit breakers. Circuit breakers shall be provided with single phase and three phase auto reclosing. The short line fault capacity shall be same as the rated capacity and this is proposed to be achieved without use of opening resistors.

8.1.4.3 Isolators

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The isolators shall comply to IEC 62271-102 & IEC-62271-1 in general. Isolators shall be motor operated. Earth switches are provided at various locations to facilitate maintenance. Main blades and earth blades shall be interlocked and interlock shall be fail safe type. All earth switches shall be motor operated type.

8.1.4.4 Current Transformers

Current Transformers shall comply with IEC 61869-1 & 61869-2 in general. All ratios shall be obtained by secondary taps. For 220 kV system, it shall have 5 secondaries out of which four shall be used for protection and 1 shall be used for metering. The burden and knee point voltage shall be in accordance with the requirements of the system including possible feeds for telemetry. Accuracy class for protection core shall be PX and for metering core shall be 0.2s as per IEC 61869.

8.1.4.5 Capacitor Voltage Transformers

Voltage transformers shall comply with IEC 61869-1 & IEC 61869-3 in general. These shall have three secondaries out of which two shall be used for protection and one for metering. Accuracy class for protection core shall be 3 P and for metering core shall be 0.2. The voltage transformers on lines shall be suitable for Carrier Coupling. The Capacitance of CVT shall be 4400pf.

8.1.4.6 Surge Arresters

Station class current limiting, heavy duty gapless type Surge arresters conforming to IEC 60099-4 in general shall be provided. The rated voltage of Surge arrester and other characteristics are chosen in accordance with system requirements. Surge arresters shall be provided near line entrances so as to achieve proper insulation coordination. These shall be fitted with pressure relief devices and diverting ports suitable for preventing shattering of insulator housing providing path for the flow of rated currents in the event of arrestors failure.

The switchgear shall be designed and specified to withstand operating conditions and duty requirements.

8.1.5 Substation Support facilities

Certain facilities required for operation & maintenance of substations as described below shall be provided in new substation and in existing substations, they have already been provided and would be extended, wherever required.

8.1.5.1 Firefighting System

Firefighting system in general conforms to fire insurance regulations of India. Extension of the existing firefighting system with both AC motor & diesel engine driven pumps is proposed. Automatic heat actuated emulsifying system is proposed for transformers. In addition, alarm system based on heat/smoke detectors are proposed to be installed at sensitive points in a substation. Further, adequate water hydrants and portable fire extinguishers shall be provided in the substations.

8.1.5.2 Lighting

Adequate normal & emergency AC & DC lighting shall be provided in the outdoor switchyard.

8.1.6 Protection & Control

The substations shall be provided with control, relaying & monitoring functions along with extension of existing substation automation system based on IEC 61850 protocol using fiber optic network.

The state of art protection system based on numerical technology has been provided to minimize the damage to equipment in the event of fault for Transformers, Reactors, Transmission lines and Bus bars. These protective relays are with self-diagnostic feature and conforming to latest IEC 61850 for communication purposes for communicating the detailed list of events recoded by these relays in the event of fault or any abnormal conditions. Normally all these relays are equipped with in built fault recorder which can record the analogue as well as digital information for analysis of fault.

Protective Relaying System

Protective relaying system is proposed to be provided for transmission lines, auto-transformers and bus bars to minimize the damage to the equipment in the event of faults and abnormal conditions, is dealt in this section.

Transmission Lines

220kV lines shall have MAIN-I protection and shall also have numerical distance protection scheme carrier as three zone distance type with carrier aided inter-tripping feature. All lines shall also have MAIN-II protection which shall have numerical distance protection scheme like Main-I but from different make that of MAIN-I.

They shall also be provided with two stage over voltage protection. Further, all lines shall be provided with single and three phase auto-reclosing facility to allow reclosing of circuit breakers in case of transient faults.

These lines shall also be provided with distance to fault locators to identify the location of fault on transmission lines.

Augmentation of Bus bar Protection

The high speed bus bar differential protection which is essential to minimize the damage and maintain system stability at the time of bus bar faults shall be provided for 245 kV buses. Existing Bus Bar Protection System is to be augmented under present Scope.

Local Breaker Back up Protection

This shall be provided for each of 245 kV breakers and will be connected to de-energize the affected stuck breaker from both sides.

Substation Automation System

The distributed architecture has been used for Substation Automation system where the controls are provided through bay control unit and bay control units are provided bay wise for voltage level 245 kV and above. All bay control units as well as protection units are normally connected through an optical fiber high speed network. The control and monitoring of substation elements such as circuit breaker, disconnector, resetting of relays etc. are being done from Human Machine Interface (HMI) from the control room. SAS is equipped with the facility of remote operation. By providing remote HMI and suitable communication link, the substation can be controlled from a remote location. The functions of control, annunciation, disturbance recording, event logging and measurement of electrical parameters shall be integrated in Substation Automation System. The Automation System shall be provided with the facility of communication and control for remote end operation.

For all the extension substations, state of art Substation Automation System (SAS) available in existing substation conforming to IEC-61850 has been extended/augmented for present scope of work.

8.1.8 Control Concept

All the EHV breakers in substation/switching stations shall be controlled and synchronized from the switchyard control room / remote control center. Each breaker would have two sets of trip circuits which would be connected to separately fused DC supplies for greater reliability. All the isolators shall have control from remote/local whereas the earth switches shall have local control only.

9.0 MANAGEMENT ARRANGEMENTS

9.1 Organizational set up

In POWERGRID the 'Organizational Concept' has been given due importance and the basic structure of organization has been made with a view to achieve the following objectives:

- i) To group related functions together to have clearly defined 'Roles' for the relevant 'functional heads'.
- ii) To have well defined 'Responsibility & Authority' centers in the structure.
- iii) To have well defined 'communication channels' and optimum 'span of control' in the organization.
- iv) To have optimum manpower.
- v) To have decentralization of activities as far as possible.

At the first level in the organization, Corporate Centre will be planning, monitoring and controlling the objectives and activities of the organization. At the second level, the Regional HQs will be playing the role of controlling the activities in the regions and will report to Corporate Centre. In POWERGRID, 10 regions have been identified as NR-I, NR-II, NR-III, SR-I, SR-II, WR-I, WR-II, ER-I, ER-II & NER and these regions will be headed by GM/ED. The subject project falls under the purview of WR-I.

At the third level in the structure, the Substation Groups will be controlling the activities of the respective Substation and associated lines under that Group and will report to the Regional HQs. The Groups will consist of basic working units such as substation Construction/maintenance, line construction/maintenance. The Groups will have both service and technical functions, to cater to the basic functional requirements.

9.1.1 Project Management

The project of transmission system will be planned, implemented, monitored and controlled through Integrated Project Management and Control System (IPMCS).

IPMCS uses PERT/CPM technique as the basic management tool. For effective project planning and review, three tier level of planning and review have been adopted.

Level-I:

Planning is done by the Corporate Monitoring Group, a central planning cell, which is in the form of an overall project schedule called the Master Network, for the project which forms the basis for all subsequent planning and monitoring of the activities. This covers broadly all the packages of project and indicates activities of engineering, contracts, manufacturing, erection and commissioning. The Master Network is prepared using computerized techniques which subsequently helps in comparing the actual progress of the project with the scheduled progress. This gives indication of the likely critical areas and helps in preventing the same, thereby resulting in smoother implementation. The Master Network also acts as a source for the planning to be done at Level - II & Level - III.

Level-II:

Planning is done package-wise and is worked out and finalised with the respective contractor/vendor during the pre-award stage. Level II networks are made within the milestones identified in the project Master Network (L-I).

Level-III:

Plans deal with elaborate schedules and weekly/monthly rolling plans which are prepared for activities of engineering, supply (as the case may be) & field activities. These form the basis of monitoring by the various functions.

The system envisages monthly review of the level II programs with contractors and at field on a weekly basis. A site monthly progress report is sent to the head office having four sections, i.e.

- i) Project completion trend
- ii) Salient achievements for the month
- iii) Program for next month
- iv) Areas needing attention of top management

9.1.2 Project Implementation Review

As on 28th February 2023, POWERGRID operates about 1,73,815 ckm. of transmission lines and 271 Substations with a transformation capacity of about 4,93,862 MVA (include TBCB elements and excluding PG InvIT). POWERGRID has a team of dedicated experts in the field of substation and Transmission Line Engg. equipped with state-of-the-art technology, software capabilities and computer aided facilities for Planning, Design, Operation and Maintenance of transmission system. It has a well-established system of continuous feedback from the field and upgrades the system accordingly.

Based on the feedback as well as in pursuit to economize the cost and implementation period, its experts are vigorously pursuing the standardization of Transmission Line designs, substation/switchyard layouts, schemes, technical parameters of equipment, etc.

POWERGRID has developed a project monitoring system matching with the organization structure, complexity / intricacies involved in the project implementation and Management information system. The system calls for increasing details of planning in all facets of functioning such as engineering, contracts, site and corresponding levels of monitoring and control; for generating a management summary report to the top management. This management summary report highlights the project completion trends, actions being taken/to be taken for the attention of the top management on exceptional basis of critical areas.

Further, the monitoring system envisages a regular total project review called project review meeting (PRM). This review meeting is headed by the Regional in-charge with representation from all functions viz. Contracts, Engineering, Field, Personnel, Finance, Corporate Monitoring Group, etc. The participants discuss project critical, project interface problems and project completion trends, etc.

From the discussions held during the PRM emanates a status report and also an exception report put up to the Chief Executive and Directors which highlights extremely critical areas needing immediate attention and assistance required. The PRM is held at Corporate Centre once in three months. These discussions help in identifying the critical areas and seeking decisions for speedy project implementation.

10.0 MEANS OF FINANCE AND PROJECT BUDGET

10.1 Project Cost Estimate

The estimated cost of the project based on **December 2022 price level** is as follows:

		(Rs. in crores)
		Total cost
1.	Transmission System	6.54
2.	Interest during Construction	0.16
TOTAL		6.70

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The abstract cost estimate for Substation portion are given at **Annexure - 1.0**. The break-up of the cost estimate for civil works and substations are given at **Annexures - 1.1** and **1.2** respectively.

10.2 Basis of Cost Estimate

The estimated cost of the project as on December 2022 price level works out to **Rs. 6.70 crores** including an IDC of **Rs. 0.16 crores**. Unit rates for 220kV Substation equipment have been taken from Schedule of Rates (which has been prepared based on the average of unit rates of latest LOAs/Bids and/or from Raw material prices) for December 2022 price level.

The cost estimate is inclusive of GST as applicable for various equipment (supply & services portion). F&I @ 4% has been considered in the Estimate for plain terrain.

10.3 Project Overheads

The following overheads have been charged on to the cost of the transmission system as a percentage of the equipment cost:

For Substations

i) Incidental Expenditure during Construction	10.75%
ii) Contingencies	3.00%

10.4 Funding arrangement

10.4.1 Phased Fund Requirement

The anticipated year wise fund requirement for the project including interest during construction is given below:

YEAR	TOTAL (Rs in Crores)
2023 – 2024	6.05
2024 – 2025	0.65
Total	6.70

10.4.2 Mode of Financing

The project is proposed to be funded through POWERGRID's Internal Resources (IR) and through domestic borrowings/bonds/External Commercial borrowings. The equity component(30%) is proposed to be met through the Internal Resources (IR) and the loan component(70%) through domestic borrowings/bonds/External Commercial borrowings.

10.5 Interest during Construction

Based on the assumption that the project will be financed from loan and equity in the ratio of **70:30** and the equity component being released simultaneously along with the loan component, the interest during construction works out to **Rs. 0.16 crores**. The interest rate for the loan amount has been considered @ **9.70%** for domestic loan. The details of calculation are furnished in **Annexure - 4.0**.



The interest during construction would however be based on the actual financial structure of the project and applicable terms of interest on loan(s), etc.

10.6 Monthly Fixed Charges

Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 have been referred for calculation of monthly fixed charges. Considering:

- i. Rate of interest on Domestic Loan @ 9.70% p.a.;
- ii. Return on equity @ 15.5%;
- iii. Depreciation @ 5.28% for substations
- iv. O&M charges for FY 2023-24 as @ 25.84 Lakhs for 220kV AIS bay.
- v. Debt:Equity ratio 70:30;
- vi. Interest on working capital @ 10.50%;

The tentative monthly fixed charges work out as **Rs. 11.68 Lakhs** on Base Cost and **Rs. 12.31 Lakhs** on projected completed cost (**Annexure - 3.0**).

10.7 Completion Cost

The completion cost of the project is expected to be **Rs. 7.15 crores** including IDC of **Rs. 0.17 crores**. The above cost has been worked out based on the average movement of WPI (80% weightage) and CPI (20% weightage) for the preceding 12 month period as per guidelines dated 06.08.1997. Details of calculation are enclosed at **Annexure - 5.0**. The abstract cost estimate for completed cost is enclosed at **Annexure - 1.0a**. The phased fund requirement and calculation for IDC for completed cost are enclosed at **Annexures - 2.0a** and **4.0a** respectively.

10.8 Internal rate of returns (IRR)

The Project IRR, Equity IRR and Economic IRR on projected completed cost have been calculated for the project and the same is tabulated below:

Project IRR	12.58%
Equity IRR	19.72%
Economic IRR	15.18%

The details of calculation are furnished in **Annexure - 7.0**.

11.0 TIME FRAME

The project is scheduled to be commissioned within 15 months from the CTUIL OM dated 28.11.2022, i.e., **by 27.02.2024**. Implementation schedule is given at **Exhibit-3.0**.

12.0 RISK ANALYSIS

Revenue Risk

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The capital cost of the transmission system comprises of i) an equity component and ii) a loan component. This is recovered through the annual transmission charges consisting of return required for the equity, an interest for the loan component together with the depreciation charges, the O & M charges and interest on working capital from the beneficiaries as per CERC Notifications. In addition to annual charges Income Tax, FERV and incentives, etc. as per notification would also be payable. Transmission charges payable have been worked out presently based CERC Tariff Regulations, 2019 and same shall be as per the applicable tariff regulations as issued by CERC from time to time during useful life of the assets.

Regulatory Risk

The transmission charges for this project shall be shared by the beneficiaries in line with the Sharing Regulations notified by CERC from time to time. CERC (Sharing of inter-State Transmission charges and losses) Regulations, 2020 came into force w.e.f. 01.11.2020. Under the Sharing Regulations 2020 signing of any Transmission Service Agreement (TSA) is not envisaged. However, relevant features of TSA, Revenue Sharing Agreement (RSA) and Billing, Collection and Disbursement (BCD) Procedure have been included in the Regulations itself. TSAs and RSAs as on date of commencement of these Regulations shall be saved till expiry of the Agreements to the extent they are not in conflict with provisions of the 2020 Sharing Regulations as and when it becomes effective.

Environmental Risk

Transmission system projects are environmentally friendly and do not involve any disposal of solid effluents and hazardous substance in land, air and water.

Legal / Contractual Risks

The procurement practices of POWERGRID are in line with best practices followed internationally. Further, requisite due diligence is carried out prior to award of contracts which inter-alia includes assessment of capacity and capability of bidders to perform the contract, thereby mitigating contractual risks. In the unlikely event of such risk, adequate provisions such as Dispute Resolution, Risk & Cost procurement, etc. are in built in the Bidding/Contract Document to deal with the same.

The legal framework governing the contracts in India is well established and finally in place. As such, there is minimal probability of any legal risk.

Project Management Risks

POWERGRID holds vast experience in the area of construction of 220 kV, 400 kV and 765 kV long Inter-state Transmission lines and associated substations. It has commissioned numerous 220 kV, 400 kV and 765 kV Transmission Lines and Substation projects successfully which are under operation.

POWERGRID has developed and implemented systems and procedures aligned with Integrated Management System. The Critical projects are monitored even more closely. As such, with a dedicated and experienced pool of manpower and application of IMS in

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implementation of its projects, POWERGRID makes every endeavor to achieve the target making probability of impact of Project Management Risks to minimal.

13.0 PAST RECORD OF SUCCESSFUL PROJECT IMPLEMENTATION

The above transmission system has been evolved, carrying out detailed studies by using latest available power system analysis software (PSS/E), and the proposed system is considered to be adequate to transfer power to the respective beneficiaries with reliability and security. Regarding achieving its objective in the stipulated time frame, it is to mention that POWERGRID has in-house expertise in all specialized areas of transmission with systems upto 800KV AC, ± 500 KV HVDC, Gas Insulated Sub-Stations, Static VAR Compensation, Series Capacitors, FACTS (Flexible AC Transmission System), Controlled Shunt reactors etc.

POWERGRID, since its formation has commissioned numerous large size and difficult transmission projects. Majority of such projects have been completed on or ahead of schedule.

As on 28th February 2023, POWERGRID operates about 1,73,815 ckm. of transmission lines and 271 Substations with a transformation capacity of about 4,93,862 MVA (including TBCB elements and excluding PG InvIT). POWERGRID has maintained the transmission system's availability at over **99%** consistently.

In recognition of POWERGRID's excellence in areas of its operations as above, POWERGRID has been consistently rated "Excellent" under Memorandum of Understanding with Ministry of Power since 1993-94. POWERGRID is also a recipient of Prime Minister's MoU Award consecutively for many years for being amongst top ten PSUs.

14.0 SUSTAINABILITY

14.1 System Design Philosophy

The power evacuation system is designed in the most optimum manner such that losses in the system are minimal. The system and equipment parameters are chosen according to the present trends in technology, the conductors available are such that the losses in them due to internal resistance as well as due to external effects such as corona and RIV are bare minimum. The busbar materials and the clamps and connectors are chosen after meeting the stringent international requirements so that there is least loss of energy in them. The transformers, reactors and other switchgear are also similarly selected and evaluated before award itself for most efficient operation from thermal loss and efficiency.

14.2 System Operation Philosophy

The power flow in a particular line varies due to demand variation, failure of equipment, line faults, etc. For the system to be stable and to use optimised resources, it is very important to record the power flow at each and every time. This necessitates the monitoring of operation of the system on a three shift basis.

14.3 System Maintenance Philosophy

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The maintenance management system in vogue in POWERGRID aims at keeping the system under stable conditions while ensuring minimum maintenance cost and safety of equipment and personnel. The maintenance management schedule detailed work specification covering all maintenance jobs permit to work system, long term maintenance planning meeting for about 30 minutes for finalizing maintenance schedule for next 24 hours and resolution of interface problems between departments. These meetings are supplemented by meeting of HODs for one hour on alternate days to accelerate the decision making process and to lay down the priorities and guidelines for maintenance work during next 72 hours.

14.3.1 Spare parts Management System

The primary objective of spare part management system will be to ensure timely availability of proper spare parts for efficient maintenance of the substations and lines without excessive build-up on non-moving and slow moving inventory. The spare parts management system for this project will cover the following areas:

- a) Proper codification of all spares and consumables
- b) Spare parts indenting and procurement policy
- c) Ordering of critical mandatory and recommended spares
- d) Judicious fixation of inventory levels and ordering levels for spare parts based on our experience in other projects.
- e) Development of more than one source wherever practicable.

14.3.2 Training of personnel

The expertise available with the country is adequate to cover maintenance of Transmission Line and sub-station EHV equipment, etc. Also, available technical expertise within POWERGRID is adequate to cover operation and maintenance requirements of equipment. Hence, training in these areas can be arranged by POWERGRID's training facility with the help of training officers, equipment suppliers and consultants, site commissioning personnel as well as POWERGRID's own specialists.

14.3.3 O&M Manuals

- a) Adequate O & M manuals will be distributed to all concerned as per the policy of the company.
- b) O & M manuals will be available to all concerned prior to commissioning of substations and transmission lines to avoid problems in preparation of commissioning documents as well as proper installation & commissioning of equipment.



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)

Encl.-8

Certificate no.: CTU/PMG/RTM/Certificate/2025-26/04

Date: 23-05-2025

CTU Certificate towards completion of Transmission System

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

To,
Executive Director, WR-II,
M/s Power Grid Corporation of India Limited
Plot no.-54, Adjacent to Riya-Revati
Resort Sama-Savli Road,
Vadodara-390008(Gujarat)

Project: "Implementation of one no. 220 kV line bay at Bhuj PS for providing connectivity to M/s NTPC Renewable Energy Ltd. (300MW)"

References:

- POWERGRID request letter with Ref. No. WR-II/VDR/Bhuj bay/CTU dated 01.04.2025.
- CTU OM ref: C/CTU/AI/00/9th CCTP dated 28.11.2022 & CTUIL Letter to POWERGRID ref: CTU/RTM/POWERGRID-Bhuj/2 dated 26.12.2023.
- CEA Approval for Energization with ref No. WRIO/GUJ/A-15298/2025 dated: 09.02.2025 for inspection of electrical installation of POWERGRID at Bhuj PS.
- GRID-INDIA certificate with reference no.- WRLDC/FTC/WR-2/Bhuj/2025/76 dated 19.02.2025 for first time charging of assets in "Transmission System for providing connectivity to M/s Ayana Renewable at Bhuj (PG) S/s"
- Undertaking signed by Executive Director (WR-II), POWERGRID dated 08.05.2025 for completion of above-mentioned transmission system

This is to certify that transmission element as detailed in **Table-A** has been completed by M/s "Power Grid Corporation of India Ltd." meeting all the requirements of the transmission line, sub-station, communication system & inter-related systems conforming to specifications of the Bidding Documents & Guidelines and CEA Standards & Regulations including:

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

5वीं-10वीं मंजिल, टावर 1, इरकॉन इंटरनेशनल टावर, प्लॉट नंबर 16, सेक्टर 32, गुरुग्राम, हरियाणा - 122001, सीआईएन: U40100HR2020GOI091857
5th-10th Floor, Tower 1, IRCON International Tower, Plot No. 16, Sector 32, Gurugram, Haryana - 122001, CIN: U40100HR2020GOI091857

पंजीकृत कार्यालय: "सौदामिनी", पहली मंजिल, प्लॉट नंबर 2, सेक्टर-29, गुरुग्राम, हरियाणा - 122001

Registered office: "Saudamini", 1st Floor, Plot No.2, Sector-29, Gurugram, Haryana - 122001

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

Page 1 of 2

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

Table-A

Sl. No.	Name of the Transmission Elements under the scheme (as per CTU OM)	Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element, if applicable	Date of completion (as declared by Transmission licensee)
1	1 no. 220kV line bay at Bhuj PS associated with M/s NTPC Renewable Energy Ltd.(300MW)*	N/A	11.02.2025

* CTU vide letter dated 26.12.2023 had informed POWERGRID that implementation activities for 1 no. 220kV line bay (Bay No. 206) at Bhuj PS shall be resumed and implemented in matching time frame of the M/s Ayana Renewable Power Four Pvt. Ltd. (100MW) generation project (i.e. 31.03.2025).

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

हस्ताक्षर/Signature:

नाम/Name: Ramchandra

पदनाम/Designation: Sr. GM

Date: 23-05-2025

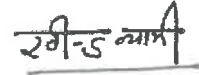
Copy To:

Member Secretary Western Regional Power Committee (WRPC) F-3, MIDC Area, Marol, Opposite SEEPZ, Central Road, Andheri (East), Mumbai-400093 Email Id: ms-wrpc@nic.in	Chief Electrical Inspectorate, Central Electricity Authority, Sewa Bhawan, Rama Krishna Puram, Sector-1, New Delhi- 110066. Phone Number: 011-26732500 Email Id: rishika@nic.in; Shivani.cea@gov.in; Cea-eidivision@gov.in
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Certificate as per
CERC (Indian Electricity Grid Code) Regulations 2023
(For Inter State Transmission System)

It is to certify that the following assets under the Transmission System namely "Implementation of one(1) no. 220 kV line bay at Bhuj PS for providing connectivity to M/s Ayana Renewable Power Four Pvt. Ltd(100MW)" conform to the CEA Technical Standards for Construction, CEA Technical Standards for Connectivity, CEA Technical Standards for Communication, Central Electricity Authority (Measures relating to Safety and Electricity Supply) Regulations,2010 and CERC (Indian Electricity Grid Code) Regulations 2023 and are capable of operation to their full capacity as per the requirements for declaration of commercial operation with effect from as per following details:

Sl. No.	Name of Asset	Date & Time
1	One no. 220 kV line bay (bay no.206) at Bhuj PS.	12.02.2025 16:19 hours



(R. K. Tyagi)
Chairman and Managing Director
Power Grid Corporation of India Limited



पावर ग्रिड कॉर्पोरेशन ऑफ़ इंडिया लिमिटेड
(भारत सरकार का उपक्रम)
POWER GRID CORPORATION OF INDIA LIMITED
(A Government of India Enterprise)

CIN: L40101DL1989GOI038121

पश्चिम क्षेत्र परीक्षण प्रणाली-II, क्षेत्रीय मुख्यालय / Western Region Transmission System - II, Regional Headquarters

Ref: WR-II/VDR/Bhuj bay/CTU

Date: 01.04.2025

To,
Sr. General Manager(CMG),CTUIL
Floor No. 5-10, Tower-1,
Plot No-16, IRCON International Tower,
Institutional Area, Sector-32,
Gurugram, Haryana-122001.

Kind attention: Sh. Ramachandra

Sub: Request for issuance of completion certificate under the scheme "Implementation of one no. 220 kV line bay at Bhuj PS for providing connectivity to M/s Ayana Renewable Power Four Pvt. Ltd(100MW)"

Dear sir,

This has reference to CTUIL letter ref.no. CTU/RTM/POWERGRID-Bhuj/2 dated 26.12.2023 regarding implementation of the following transmission elements by POWERGRID under the scheme "Implementation of one no. 220 kV line bay at Bhuj PS for providing connectivity to M/s Ayana Renewable Power Four Pvt. Ltd(100MW)" under RTM mode.

S. No.	Name of the Transmission Elements	Charging Date	Charging Time
1	One no. 220 kV line bay (bay no.206) at Bhuj PS.	11.02.2025	16:19 hours

The above mentioned transmission element is charged as mentioned above and WRLDC has issued the successful charging certificate(copy attached). However, 220 kV S/C transmission line (to be connected with the above mentioned Bay at Bhuj PS) being constructed by M/s Ayana Renewable Power Four Pvt. Ltd is not yet ready.

In view of above and in line with CTUIL's SOP for issuance of completion certificate for deemed COD of ISTS element, it is requested to issue the completion certificate for above mentioned transmission elements already charged for further needful at our end to approach CERC in line with IEGC Regulation 2023, clause no. 27(l)(C)(i) for approval of COD. The relevant documents are attached herewith.

Thanking you.

Yours sincerely,


(S.D.C.S. Rao)
Sr.GM(PESM)
POWERGRID, WR-II

- Encl:** 1) CTU letter dated 26.12.2023
2) CEA energization clearance
3) Single line diagram
4) WRLDC successful charging certificate
5) Signed Undertaking



पावर ग्रिड कॉर्पोरेशन ऑफ़ इंडिया लिमिटेड
(भारत सरकार का उपक्रम)
POWER GRID CORPORATION OF INDIA LIMITED
(A Government of India Enterprise)

CIN: L40101DL1989GOI038121

पश्चिम क्षेत्र परीक्षण प्रणाली-II, क्षेत्रीय मुख्यालय / Western Region Transmission System - II, Regional Headquarters

Copy to :

1. ED(WR-II), POWERGRID, Vadodara.
2. CGM(Commercial), POWERGRID, CC, Gurgaon.
3. Sr.GM(PMD), POWERGRID, CC, Gurgaon.
4. CGM(AM) WR-II, POWERGRID, Vadodara.
5. CGM(Projects), WR-II, POWERGRID, Vadodara.
6. CGM(Bhuj PS), POWERGRID
7. Sr.GM(Comm), WR-II, POWERGRID, Vadodara.

क्षेत्रीय मुख्यालय : प्लॉट नं.-54, रिया-रेवती रिजॉर्ट के पास, समा-सावली रोड, वडोदरा - 390 008(गुजरात) -
Regional Head Office : Plot no.-54, Adjacent to Riya-Revati Resort Sama-Savli Road, Vadodara - 390 008(Gujarat)
दूरभाष: /Phone: (O) 0265-248 7541, फैक्स: /Fax: 0265-2487544, e-mail: pmswr2@powergrid.co.in
पंजीकृत कार्यालय: बी-5, कतवा इंस्टीट्यूशनल एरिया, कटवारिया सराय, नई दिल्ली - 110 016
Registered Office: B-9, Katwa Institutional Area, Katwaria Sarai, New Delhi - 110 016



ग्रिड-इंडिया
GRID-INDIA

ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड
(भारत सरकार का उद्यम)

GRID CONTROLLER OF INDIA LIMITED

(A Government of India Enterprise)

[formerly Power System Operation Corporation Limited (POSOCO)]

पश्चिम क्षेत्रीय भार प्रेषण केन्द्र / Western Regional Load Despatch Centre

कार्यालय : एफ-3, एम. आई. डी. सी. क्षेत्र, मरोल, अंधेरी (पूर्व), मुंबई-400093

Office : F-3, M.I.D.C. Area, Marol, Andheri (East), Mumbai- 400093

CIN : U40105DL2009GOI188682, Website : www.wrlc.in, E-mail : wrldc@grid-india.in, Tel.: 022 28202690, Fax: 022 28235434, 28202630

संदर्भ संख्या - WRLDC/FTC/WR-2/Bhuj/2025/76

Date: 19-02-2025

सेवा मे,

Sh Sanjay Kumar Singh,

Chief General Manager (AM),

POWERGRID, WRTS-II

Plot No. 54, Sama-Savli Rd, opp. Ambe Vidhyalaya,

Chanakyapuri Society, Vadodara, Gujarat 391740

विषय – First time charging of assets in "Transmission System for providing connectivity to M/s Ayana Renewable at Bhuj (PG) S/s"-Reg.

संदर्भ / References –

1. PGCIL WRTS-II email dated 17.02.2025, request for confirmation of successful charging of assets in package "Transmission System for providing connectivity to M/s Ayana Renewable at Bhuj (PG) S/s "
2. WRLDC provisional charging approval, Format-IV: 942 vide FTC Unique ID: 983 dated 10.02.2025.
3. Copy of CEA/EI approvals:
 - i. EI approval vide No. WRIO/GUJ/A-15298/2025 dated 09.02.2025 for energizing of bay 206 at 765/400/220 kV Bhuj (PG) S/s.

महोदय / महोदया,

It is hereby certified that the following elements at **765/400/220 kV Bhuj S/s**, of **POWERGRID, WRTS-II**, have been successfully charged

S. No	Name of the Transmission Asset	Code	Charging Date	Time
1	Bay 206 of 220 kV Bhuj-Devisar (M/s Ayana Renewable) line at Bhuj	02/1585	11.02.2025	16:19 hrs

This is being issued as per the request from WRTS-II vide email dated 17.02.2025. Usage of this letter for any other purpose is prohibited.

Thanking you,

Yours sincerely,


(Tushar Ranjan Mohapatra)
GM (MO & RA)

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पंजीकृत कार्यालय : बी- 9, प्रथम तल, कुतुब इंस्टीट्यूशनल एरिया, कटवारिया सराय, नई दिल्ली-110016

Registered Office : B-9, 1st Floor, Qutab Institutional Area, Katwaria Sarai, New Delhi- 110016

Website : www.grid-india.in



Government of India
Central Electricity Authority
Regional Inspectorial Organisation
 Ground Floor, WRPC Building, F-3, MIDC Area
 Marol, Andheri (East), Mumbai 400 093

No. WRIO/GUJ/A-15298/2025

Dated: 09/02/2025

To,
 M/s. Power Grid Corporation Of India Ltd,
 Powergrid, 765/400/220 KV Bhuj PS,
 Vill.: Palanpur (Badi), Bhuj-Nirona Road, Bhuj, Kutch-370001.

Approval for Energization

Subject: - Inspection of electrical installations of M/s. Power Grid Corporation Of India Ltd, Powergrid, 765/400/220 KV Bhuj PS, Vill.: Palanpur (Badi), Bhuj-Nirona Road, Bhuj, Kutch under regulation 45 of CEA (Measures relating to Safety and Electric Supply) Regulations, 2023.

Reference: (1) Application No.A/2025/15298, Dated: 02/01/2025.
 (2) Inspection report of this office dated 31/01/2025.
 (3) Compliance received on Date 8/02/2025.

Whereas the inspection of electrical installations of M/s. Power Grid Corporation Of India Ltd, Powergrid, 765/400/220 KV Bhuj PS, Vill.: Palanpur (Badi), Bhuj-Nirona Road, Bhuj, Kutch was carried out on **27th January, 2025** by the undersigned under Regulation 45 of the Central Electricity Authority (Measures relating to Safety and Electricity Supply) Regulations, 2023

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

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

The periodic inspections may be carried out at an interval 5 years from the date of last 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 Govt order/notification.

(Raghvendra Pratap Singh)

Director

For Chief Electrical Inspector

(Govt. of India)

(Email ID: rp_cea@nic.in, Mob no: 9716118973)

Copy to: Chief Engineer (EI), Sewa Bhawan, CEA, New Delhi

**Signed by Raghvendra
Pratap Singh**

Date: 09-02-2025 09:44:56

LIST OF EQUIPMENTS OF BAY NO. 206							
Sr. No.	Name of Equipment	Make	Rating	Bay No/ Identification	R-ph	Y-ph	B-ph
1	ISOLATOR 89A	S&S	245KV,1600A	206-89A	1850B-212-01	1850B-212-01	
2	EARTH SWITCH 89AE	S&S	245KV	206-89AE		1850B-213-02	
3	ISOLATOR 89B	S&S	245KV,1600A	206-89B	1850B-314-03R	1850B-214-03Y	1850B-214-03B
4	CIRCUIT BREAKER 52	CG POWER	245KV,4000A	206-52	65064C	65064C	65064C
5	EARTH SWITCH 89LE1	S&S	245 KV	206-89LE1	1850B-212-01		
6	ISOLATOR 89L	S&S	245KV,1600A	206-89L	1850B-213-02		
7	EARTH SWITCH 89LE2	S&S	245KV	206-89LE2	1850B-213-02		
8	ISOLATOR 89C	S&S	245KV,1600A	206-89C	1850B-314-04R	1850B-214-04Y	1850B-214-04B
9	CT	CG POWER	245KV,1600A	206-CT	750330	750331	750332
10	LA 1	CG POWER	216KVrms	206-LA1	40116228	40116229	40116230
11	MCT	CG POWER	245KV,1600A	206-MCT	R	Y	B
12	EMVT	CG POWER	245KV,4400pF	206-EMVT	R	Y	B
13	CVT	CG POWER	245KV,4400pF	206-CVT	SH-753746	SH-753747	SH-753748
14	LA 2	CG POWER	216KVrms	206-LA2	40116231	40116232	40116233

Ref: WR-II/VDR/Bhuj/Bay/2025/02

Date: 01.02.2025

To,

As per Distribution List

Notice for Trial Run

This has reference to our earlier Notice No.WR-II/VDR/Bhuj/Bay/2024/01 dated 08.01.2025 regarding anticipated charging of the following asset under the scheme "Implementation of one(1) no. 220 kV line bay at Bhuj PS for providing connectivity to M/s Ayana Renewable Power Four Pvt. Ltd. (100MW) being implemented by POWERGRID under RTM mode.

- **One no. 220 kV line bay (bay no.206) at Bhuj PS.**

In this regard, it is informed that the charging of the above mentioned asset is re-scheduled and now expected to be charged by 10.02.2025.

This notice is being issued in line with proviso 21(2) of IEGC-2023 Regulations.



(B.K. Pradhan)
Chief General Manager
Bhuj PS, WR-II

Distribution list:

1. Member Secretary, WRPC, F-3, M.I.D.C Area, Andheri (East), Mumbai - 400093.
2. Managing Director, GUVNL, Sardar Patel Vidyut Bhavan, Race Course, Vadodara, Gujarat-390007.
3. Managing Director, GETCO, Sardar Patel Vidyut Bhavan, Race Course, Vadodara, Gujarat-390007.
4. Managing Director, MPPTCL, Shakti Bhavan, MPSEB colony, Rampur, Jabalpur, Madhya Pradesh-482008
5. Managing Director, MPPMCL, E-4, Arera colony, Bhopal, Madhya Pradesh - 462016.
6. Managing Director, MSEDCL, Prakashgad, Bandra (East), Mumbai - 400051.
7. Managing Director, CSPTCL, Sewa Bhavan, Dangania, Raipur, Chhattisgarh-492013.
8. Executive Director, WRLDC, POSOCO, F-3, M.I.D.C Area, Andheri (East), Mumbai - 400093.
9. CEO (CTUIL), Gurgaon.
10. Chief Engineer, GOA Electricity Department, Panjim, Goa - 403001.
11. Executive Engineer, Electricity Department, Daman and Diu, Moti Daman, Daman.
12. Executive Engineer, Electricity Department, Dadra & Nagar Haveli, Silvassa.
13. Vice President, Dadra & Nagar Haveli and Daman and Diu Power Distribution Corporation Ltd (DNHDDPDCL), 1st and 2nd Floor, Vidyut Bhavan, Next to Secretariat building, 66kV road, Dadra and Nagar Haveli and Diu and Daman, Silvassa - 396230.
14. M/s Ayana Renewable Power Four Pvt. Ltd., S2904, 29TH Floor, World Trade Center, Brigade Gateway Campus, #26/1, Dr. Rajkumar Road, Malleswaram, Rajajinagar, Bangalore 560055.

क्षेत्रीय मुख्यालय : प्लॉट नं.-54, रिया-रेवती रिज़ॉर्ट के पास, समा-सावली रोड, वडोदरा - 390 008(गुजरात) -
Regional Head Office : Plot no.-54, Adjacent to Riya-Revati Resort Sama-Savli Road, Vadodara - 390 008(Gujarat)

दूरभाष: /Phone: (O) 0265-2487541, फैक्स: /Fax: 0265-2487544, e-mail: pmswr2@powergrid.co.in

पंजीकृत कार्यालय: बी-5, कुतब इंस्टीटयुशनल एरिया, कटवारिया सराय, नई दिल्ली - 110 016

Registered Office: B-5, Qutab Institutional Area, Katwaria Sarai, New Delhi - 110 016



पावर ग्रिड कॉर्पोरेशन ऑफ़ इंडिया लिमिटेड
(भारत सरकार का उपक्रम)
POWER GRID CORPORATION OF INDIA LIMITED
(A Government of India Enterprise)

CIN: L40101DL1989GOI038121

पश्चिम क्षेत्र पारेषण प्रणाली-II, क्षेत्रीय मुख्यालय / Western Region Transmission System - II, Regional Headquarters

Copy to :

1. ED(WR-II), POWERGRID, Vadodara.
2. ED (PMD), POWERGRID, CC, Gurgaon
3. ED (F&A), POWERGRID, CC, Gurgaon
4. ED (Commercial & RC), POWERGRID, CC, Gurgaon
5. CGM-I/C Engg, POWERGRID, CC, Gurgaon
6. CGM-I/C AM, POWERGRID, CC, Gurgaon
7. CGM (AM) WR-II, POWERGRID, Vadodara.
8. CGM (Projects), WR-II, POWERGRID, Vadodara.
9. Sr.GM(Comml), WR-II, POWERGRID, Vadodara
10. Sr.GM(PESM), WR-II, POWERGRID, Vadodara
11. GM (Finance), WR-II, POWERGRID, Vadodara.

क्षेत्रीय मुख्यालय : प्लॉट नं.-54, रिया-रेवती रिज़ॉर्ट के पास, समा-सावली रोड, वडोदरा - 390 008(गुजरात) -
Regional Head Office : Plot no.-54, Adjacent to Riya-Revati Resort Sama-Savli Road, Vadodara - 390 008(Gujarat)
दूरभाष:/Phone: (O) 0265-2487541, फ़ैक्स:/Fax: 0265-2487544, e-mail: pmswr2@powergrid.co.in
पंजीकृत कार्यालय: बी-5, कुतब इंस्टीटयुशनल एरिया, कटवारिया सराय, नई दिल्ली - 110 016
Registered Office: B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi - 110 016

G.D. Apte & Co.
Chartered Accountants

CERTIFICATE

This is to certify that we have verified the relevant records and other documents of Power Grid Corporation Of India Limited having its Registered Office at B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi-110016 and on the basis of our verification, we certify that Capital Cost for "One no. 220 kV Line Bay (Bay no. 206) at Bhuj PS" under "Providing connectivity to M/s Ayana Renewable Power Four Pvt. Ltd. (100 MW)" in Western Region - II of Power Grid Corporation of India Limited, which is proposed to be under commercial operation w.e.f. 01.04.2025 is detailed as under:

(Rs. in Lakhs)

S/N	Particulars	Capital Cost	IEDC	IDC	Total
1	Expenditure up to 31.03.2025	2.13	0.26	0.01	2.40
2	Estimated Expenditure from 01.04.2025 to 31.03.2026	468.20	0.00	0.00	468.20
3	Estimated Expenditure from 01.04.2026 to 31.03.2027	57.72	0.00	0.00	57.72
	Total	528.05	0.26	0.01	528.32

We certify that we have verified the expenditure up to 31.03.2025 as referred above on the basis of the information drawn from the audited Statement of Accounts of Power Grid Corporation of India Ltd. WR-II as on 31.03.2025.

The estimated expenditure is based on Management estimate.

For G.D. Apte & Co.
Chartered Accountants
Firm Registration Number: 100 515W
UDIN: 25121007BMITBY6342



Anagha M. Nanivadekar
Partner
Membership Number: 121007
Pune, June 19, 2025



CERTIFICATE

This is to certify that we have verified the relevant records and other documents of Power Grid Corporation Of India Limited having its Registered Office at B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi-110016 and on the basis of our verification, we certify that Capital Cost for "One no. 220 kV Line Bay (Bay no. 206) at Bhuj PS" under "Providing connectivity to M/s Ayana Renewable Power Four Pvt. Ltd. (100 MW)" in Western Region - II of Power Grid Corporation of India Limited, which is proposed to be under commercial operation w.e.f. 01.04.2025 is detailed as under:

(Rs. in Lakhs)

S/N	Particulars	Land	Building and Civil Works	Tr. Line	Sub-Station	OPGW	Communication System excl. OPGW	I. T Equipment incl. software, UNMS, URTDSM, EMS, Cyber Security System, REMC, WAMS, SCADA System	Total
1	Expenditure upto 31.03.2025	0.00	2.40	0.00	0.00	0.00	0.00	0.00	2.40
2	Estimated Expenditure from 01.04.2025 to 31.03.2026	0.00	10.00	0.00	425.34	0.00	0.00	32.86	468.20
3	Estimated Expenditure from 01.04.2026 to 31.03.2027	0.00	7.87	0.00	46.92	0.00	0.00	2.93	57.72
	Total	0.00	20.27	0.00	472.26	0.00	0.00	35.79	528.32



G.D. Apte & Co.
Chartered Accountants

S/N	Particulars	TL	Sub-station	IT Equipments
1	Total Cost (Plant and Machinery cost excluding IDC, IEDC, Land cost and cost of Civil works for the purpose of Initial Spares)	0.00	472.26	35.79
2	Initial Spares included above	0.00	33.54	0.00

We certify that we have verified the expenditure up to 31.03.2025 as referred above on the basis of the information drawn from the audited Statement of Accounts of Power Grid Corporation of India Ltd. WR-II as on 31.03.2025.

The estimated expenditure is based on Management estimate.

For G.D. Apte & Co.
Chartered Accountants
Firm Registration Number: 100 515W
UDIN: 25121007BMITBY6342



Anagha M. Nanivadekar
Partner
Membership Number: 121007
Pune, June 19, 2025



Liability Flow Statement

Liability Flow Statement														
Name of Petitioner		Power Grid Corporation of India Ltd												
Project Name		Implementation of one no. 220 kV line bay at Bhuj PS for providing connectivity to M/s NTPC Renewable Energy Ltd. (300 MW)												
Asset		One no. 220 kV Line Bay (Bay no. 206) at Bhuj PS for providing Connectivity to M/s Ayana Renewable Energy Ltd. (100 MW)												
DOCO		01.04.2025 (Proposed)												
LIABILITY DATA														
Asset No.	Headwise /Partywise	Particulars [#]	Year of Actual Capitalisation	Outstanding Liability as on DOCO	Discharge					Works deferred for execution				
					2025-26	2026-27	2027-28	2028-29	Total (24-29)	2025-26	2026-27	2027-28	2028-29	Total (24-29)
	S/S Extn	M/s R.S Infra projects limited	2025-26	472.26	425.34	46.92				472.26				
	IT Equipement	M/s R.S Infra projects limited	2025-26	35.79	32.86	2.93				35.79				
	Batteries	-	2025-26							-				
	Civil Works	M/s R.S Infra projects limited	2025-26							-	10.00	7.87		17.87
	PLCC	-	2025-26							-				
										-				
	Total			508.05	458.20	49.84	-	-		508.05	10.00	7.87	-	-

Petitioner

Summary of Tariff

Form No. - 1

Name of the Transmission Licensee:		Power Grid Corporation of India Limited	
Project	Implementation of one no. 220 kV line bay at Bhuj PS for providing connectivity to M/s NTPC Renewable Energy		
Element Description	One no. 220 kV Line Bay (Bay no. 206) at Bhuj PS		
Region	Western Region	DOCO Date	Apr 1, 2025

(Amount in Rs. Lakh)

Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
Year Days	0.00	365.00	365.00	366.00	365.00
Tariff Days	0.00	365.00	365.00	366.00	365.00
Depreciation-Form No. 10A	0.00	11.68	24.64	25.98	25.98
Interest on Loan-Form No. 9E	0.00	12.33	25.14	24.75	22.74
Return on Equity-Form No. 8	0.00	12.89	27.23	28.81	28.81
Int. on Working capital-Form No.11	0.00	1.53	2.20	2.28	2.31
Op. and maintenance-Form No.2	0.00	21.75	22.90	24.10	25.36
Total AFC	0.00	60.18	102.11	105.92	105.20

(Petitioner)

Summary of Asset Level Cost

Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	Implementation of one no. 220 kV line bay at Bhuj PS for providing connectivity to M/s NTPC Renewable Energy Ltd. (300 MW)		
Element Description	One no. 220 kV Line Bay (Bay no. 206) at Bhuj PS		
Region	Western Region	DOCO Date	Apr 1, 2025

A) Summary of Capital Cost, Means of Finance of the Asset (Amount in Rs. Lakh)

Particular	i) AppORTioned Approved Cost		ii) Summary of Actual / Projected Capital Expenditure incurred						
	As Per IA	As per RCE	As on COD / 01.04.2024	2024-25	2025-26	2026-27	2027-28	2028-29	As on 31.03.2029
Land (Freehold Land)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building & Civil Works	0.00	0.00	2.40	0.00	10.00	7.87	0.00	0.00	20.27
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	472.26	0.00	0.00	0.00	0.00	0.00	472.26
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Land (Leasehold)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IT/Software/UNMS/URTDMS/	0.00	0.00	35.79	0.00	0.00	0.00	0.00	0.00	35.79
Batteries	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Capital Cost as per Books	0.00	0.00	510.45	0.00	10.00	7.87	0.00	0.00	528.32
Less: Liability	0.00	0.00	508.06	0.00	0.00	0.00	0.00	0.00	0.00
Add: discharge of liability	0.00	0.00	0.00	0.00	458.21	49.85	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	0.00	0.00
Total Capital incurred	0.00	0.00	2.39	0.00	468.21	57.72	0.00	0.00	528.32
Equity	201.00	0.00	0.71	0.00	140.46	17.32	0.00	0.00	158.49
Debt	469.028	0.00	1.68	0.00	327.75	40.40	0.00	0.00	369.83

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Name of the Transmission Licensee		Power Grid Corporation of India Limited	
Project	Implementation of one no. 220 kV line bay at Bhuj PS for providing connectivity to M/s NTPC Renewable Energy Ltd. (300 MW)		
Element Description	One no. 220 kV Line Bay (Bay no. 206) at Bhuj PS		
Region	Western Region	DOCO Date	Apr 1, 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		Yes	If No, Petition No
Bhuji:AYANA BAY	Conventional	220 KV				1.000						Apr 1, 2025	Y	

Summary:

O&M Expenses For Substations Covered in the instant petition		2024-25	2025-26	2026-27	2027-28	2028-29
220KV SUB-STATION						
Normative Rate of O&M as per Regulation		0.00	21.75	22.90	24.10	25.36
No. of Units		0.00	1.00	1.00	1.00	1.00
O&M Claimed		0.00	21.75	22.90	24.10	25.36

Summary of O&M Expenses claim

(Amount in Rs. Lakh)

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

(Petitioner)

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Normative parameters considered for tariff computations

Form No. - 3

Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	Implementation of one no. 220 kV line bay at Bhuj PS for providing connectivity to M/s NTPC Renewable Energy		
Element Description	One no. 220 kV Line Bay (Bay no. 206) at Bhuj PS		
Region	Western Region	DOCO Date	Apr 1, 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 %)	17.472	17.472	17.472	17.472	17.472	17.472
Effective tax rate (in %)						
Grossed up Rate for ROE of 15.5% (in %)	18.782	18.782	18.782	18.782	18.782	18.782
Grossed up Rate for ROE of 15.0% (in %)	18.176	18.176	18.176	18.176	18.176	18.176
Target availability - AC System (in %)	98.00	98.00	98.00	98.00	98.00	98.00
Target availability - HVDC System (in %)	96.00	96.00	96.00	96.00	96.00	96.00
Norms for sub-station Bays (Rs Lakh per bay)						
765 kV	51.68	41.34	43.51	45.79	48.20	50.73
400 kV	36.91	29.53	31.08	32.71	34.43	36.23
220 kV	25.84	20.67	21.75	22.90	24.10	25.36
132 kV and below	18.46	15.78	16.61	17.48	18.40	19.35
Norms for Transformers (Rs Lakh per MVA)						
765 kV	0.564	0.262	0.276	0.29	0.305	0.322
400 kV	0.411	0.262	0.276	0.29	0.305	0.322
220 kV	0.282	0.262	0.276	0.29	0.305	0.322
132 kV and below	0.282	0.262	0.276	0.29	0.305	0.322
Norms for Reactor (Rs Lakh per MVAR)						
765 kV	0.00	0.262	0.276	0.29	0.305	0.322
400 kV	0.00	0.262	0.276	0.29	0.305	0.322

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

(Petitioner)

Statement of Capital cost

Form No. - 4A

Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	Implementation of one no. 220 kV line bay at Bhuj PS for providing connectivity to M/s NTPC Renewable Energy Ltd. (300 MW)		
Element Description	One no. 220 kV Line Bay (Bay no. 206) at Bhuj PS		
Region	Western Region	DOCO Date	Apr 1, 2025

A) Capital Cost

(Amount in Rs. Lakh)

Particular	Accrual Basis	Un-discharged Liabilities	Cash Basis
As on relevant date :2025-26			
a) Opening Gross Block Amount as per books	510.45	508.06	2.39
b) Amount of (i) IDC (ii) FERV & (iv) Hedging cost included in A(a) above	0.01	0.01	0.00
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above	0.26	0.00	0.26
As on relevant date :2026-27			
a) Addition in Gross Block Amount during the period	10.00	0.00	10.00
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
As on relevant date :2026-27			
a) Closing Gross Block Amount as per books	520.45	49.85	470.60
b) Amount of (i) IDC (ii) FERV & (iv) Hedging cost included in C(a) above	0.01	0.00	0.01
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) above	0.26	0.00	0.26
As on relevant date :2026-27			
a) Opening Gross Block Amount as per books	520.45	49.85	470.60
b) Amount of (i) IDC (ii) FERV & (iv) Hedging cost included in A(a) above	0.01	0.00	0.01

c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above	0.26	0.00	0.26
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a) Addition in Gross Block Amount during the period	7.87	0.00	7.87
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	528.32	0.00	528.32
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in C(a) above	0.01	0.00	0.01
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) above	0.26	0.00	0.26

As on relevant date :2027-28

a) Opening Gross Block Amount as per books	528.32	0.00	528.32
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in A(a) above	0.01	0.00	0.01
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above	0.26	0.00	0.26

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	528.32	0.00	528.32
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in C(a) above	0.01	0.00	0.01
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) above	0.26	0.00	0.26

As on relevant date :2028-29

a) Opening Gross Block Amount as per books	528.32	0.00	528.32
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in A(a) above	0.01	0.00	0.01
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above	0.26	0.00	0.26

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	528.32	0.00	528.32
b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in C(a) above	0.01	0.00	0.01
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) above	0.26	0.00	0.26

B) Flow of liability for the Asset

(Amount in Rs. Lakh)

Particular	2025-2026	2026-2027						
Opening balance of liability	508.06	49.85	0.00	0.00	0.00	0.00	0.00	0.00
Add: Liability from ACE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Discharge of liability by payment and claimed as ACE	458.21	49.85	0.00	0.00	0.00	0.00	0.00	0.00
Reversal/cancellation (to be entered)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Closing Balance of Admitted liability	49.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00

(Petitioner)

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Element wise Break-up of Project Cost for Transmission System

One m. 220kV line bay (bay no. 206) at Bhuj PS

Name of the Asset

Rs in Lakhs

Sl. No. (1)	Particulars (2)	As per original Estimate (3)			Actual Capital Expenditure (Gross Block) as on COD as per Books of Account (4)			Projected/actual cost of Deferred work to be capitalised after COD but before cut-off date (6)	Variation between actual Cost and IA/RCE cost as on COD (7=(4-5)+(3)-(6))	Reasons for Variation (8)	Undisbursed Liabilities included in Col (4) (9)	Admitted Cost (10)	Capital Work in progress as per Books of Account as on COD (11)
		Quantity	Rate	Estimated Cost	Quantity	Rate	Actual Cost						
1	2		3			4		6	7	8	9	10	11
A. TRANSMISSION LINE													
Total - Transmission Lines													
B. SUBSTATIONS													
4.1	Preliminary works & Land			0.00			0.00	0.00	0.00		0.00	0.00	0.00
4.2	Design & Engineering												
4.3	Site Preparation (Survey & Soil Investigation and infrastructure)												
Total Preliminary works & Land													
5.0	Civil Works						0.00	0.00	0.00		0.00	0.00	0.00
5.1	Control Room, Office Building including HVAC & GIS Hall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		
5.2	Township & Colonies						0.00	0.00	0.00		0.00		
5.3	Roads & Drainage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		
5.4	Foundation for structures						0.00	0.00	0.00		0.00		
5.5	Excavation for soil & rock (Cum)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		
5.6	PCC & RCC (Cum)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		
5.7	Reinforcement & Misc. Structural Steel (MT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		
5.8	Misc. civil works	1.00	20.00	20.00	1.00	2.13	2.13	17.87	0.00		0.00	0.00	0.00
Total Civil Works													
6.0	Substation Equipments						20.00	2.13	0.00		0.00	0.00	0.00
6.1	Switchgear (CT PT Circuit Breaker Isolator etc.) (Nos.)												
A. 220KV													
a.1	220KV 2000A Isolator 3-ph (Nos.)												
b.1	SUBGE ARRESTER 1-Ph (60KV) (Nos.)												
c.1	765 KV 1Ph 4400PF CVT (Nos.)												
d.1	765KV 1600A Circuit Breaker 3-ph (Nos.)												
e.1	765KV 1600A Current Transformer 1-Ph (Nos.)												
f.1	765 KV BUS POST INSULATOR												
B. 400KV													
a.1	420KV 1600A Circuit Breaker 3-ph (Nos.)												
b.1	420KV 1600A Isolator 3-ph (Nos.)												
c.1	420KV 1600A Current Transformer 1-Ph (Nos.)												
d.1	336KV Lightning Arrester 1-Ph (Nos.)												
e.1	420KV 4400PF 1PH CVT												
f.1	420KV 1PH BUS POST INSULATORS												
C. 220KV													
a.1	245KV, 1600A Circuit Breaker, 3ph (Nos.)	1.00	32.79	32.79	1.00	24.43	24.43	0.00	-7.96	Variation in final execution is because of difference of per unit rate cost between PR and final awarded tender.	24.8		
b.1	245KV, 1600A Isolator, 3-ph (Nos.)	1.00	39.68	39.68	1.00	28.18	28.18	0.00	-11.50	Variation in final execution is because of difference of per unit rate cost between PR and final awarded tender.	28.2		
c.1	245KV, 1600A Current Transformer, 1-Ph (Nos.)	1.00	40.93	40.93	1.00	28.76	28.76	0.00	-12.17	Variation in final execution is because of difference of per unit rate cost between PR and final awarded tender.	28.8		
d.1	216KV Lightning Arrester, 1-Ph (Nos.)	6.00	1.54	9.25	6.00	1.21	7.29	0.00	-1.96	Variation in final execution is because of difference of per unit rate cost between PR and final awarded tender.	7.3		
e.1	245KV, 4400PF 1PH CVT	3.00	8.42	25.25	3.00	7.48	22.44	0.00	-2.81	Variation in final execution is because of difference of per unit rate cost between PR and final awarded tender.	22.4		
f.1	245 kV, 1 phase Bus Post Isolator	14.00	0.34	4.81	14.00	0.25	3.55	0.00	-1.26	Variation in final execution is because of difference of per unit rate cost between PR and final awarded tender.	3.6		
6.2	a) 765/400/230 KV 500MVA 1-Ph Transformer (Nos.) b) 400/230/33 KV 500MVA 3-Ph Transformer (Nos.) c) 33KV & 66KV XLPE Cable and Cable termination kits												
6.3	Compensating Equipment (Nos.)												
6.4	400KV GIS bay equipments (Nos.)												
6.4 a	220KV GIS bay equipments (Nos.)												

B) Summary of Capital Cost as on COD										
Particular	Plant & Machinery Cost including initial spare but excluding IDC & IEDC	Initial spare capitalised	IEDC Capitalised	IDC Capitalised	Loan FERV	Gross Block as per books of account as on COD	Deduction from Gross Block	Gross block meant for tariff as on COD / 01.04.2024 (after deductions)	Undischarged liability included in 8	Capital Cost on Cash basis for tariff as on COD / as on 01.04.2024
	1	2	3	4	5	6 = (1+3+4+5)	7	8 = (6-7)	9	10 = (8-9)
Land (Freehold Land)										
Land (Leasehold)										
Building & Civil Works	2.13	0	0.26	0.01	0	2.40		2.40	0	2.40
Transmission Line										
Sub-Station	472.26	33.54	0.00	0.00		472.26		472.26	472.26	0.00
PLCC										
IT Equipment and Software	35.79	0.00	0.00	0.00		35.79		35.79	35.79	0.00
Total Capital Cost as per Books of Account	510.18	33.54	0.26	0.01	0	510.44	0	510.44	508.05	2.40
Less: Un-discharged liabilities						0.00				
Total Capital Cost Claimed for tariff	510.18	33.54	0.26	0.01	0.00	510.44	0.00	510.44	508.05	2.40
% of IDC / IEDC on the base of (Plant & Machinery cost including initial spare as per Books of Account)										
Means of Finance										
Equity										
Debt										

FORM - SA

Break-up of Construction / Supply / Service Packages

Form SA

One no. 220 kV Line Bay (Bay no. 206) at Bhuj PS for providing Connectivity to M/s Ayana Renewable Energy Ltd. (100 MW) under "Implementation of one no. 220 kV line bay at Bhuj PS for providing connectivity to M/s NTPC Renewable Energy Ltd. (300 MW)

Name of the Asset

Sl. No.	Name / No. of Construction / supply / service package	Scope of works (in line with head of cost break-ups as applicable)	Whether awarded through ICB / DCB / Departmentally / Deposit work, etc.	No. of bids received	Date of Award	Date of start of work	Actual Date of completion of work	Value of Award in (Amount Rs in Lakh)	Firm or With escalation in price	Actual Expenditure till the completion or up to COD whichever is earlier (Amount Rs in Lakh)	Taxes & Duties and IEDC	IDC, FC, FERV & Hedging cost	Sub-total
1	M/s R.S Infra projects limited	Supply, F & I & Erection	Domestic		7/18/2023	1/25/2024	2/11/2025	Supply - INR 26427309.04		0.000	0.00	0.00	0.00
	NOA - CGNTW- AIS/DOM/A06/23/00409/NOA-I/23-104277701 & 02 dtd.18.07.2023							F & I - INR 936487.36					
2	Civil, Land & Others							Erection - INR 15797993.88		2.13	0.26	0.01	2.40
	TOTAL									2.13	0.26	0.01	2.40

(Petitioner)

DETAILS OF ELEMENTWISE COST OF THE PROJECT

Name of the Asset: "One no. 220 kV Line Bay (Bay no. 206) at Bhuj PS for providing Connectivity to M/s Ayana Renewable Energy Ltd. (100 MW) under "Implementation of one no. 220 kV line bay at Bhuj PS for providing connectivity to M/s NTPC Renewable Energy Ltd. (300 MW)"

DOCO 01/04/2025 (proposed)

Sl. No.	Name of asset	COD	Delay in No. of Days	Apportioned approved Cost (Lakh)	Revised cost estimates, if applicable (Lakh)	Completed Cost (Lakh)	Covered in the present	
							Yes / No	If No, Petition No.
1	One no. 220kV line bay (bay no. 206) at Bhuj PS	01/04/2025 (proposed)	0.00	670.04	0.00	528.31	Yes	
	GRAND TOTAL			670.04		528.31		

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(Petitioner)

Financial Package upto COD

Form No. - 6

Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	Implementation of one no. 220 kV line bay at Bhuj PS for providing connectivity to M/s NTPC Renewable Energy		
Element Description	One no. 220 kV Line Bay (Bay no. 206) at Bhuj PS		
Region	Western Region	DOC Date	Apr 1, 2025

(Amount in Rs. Lakh)

Particulars	Financial Package as Approved		Financial Package as on COD 01/04/2024		As Admitted on COD 01/04/2024	
	Currency	Amount	Currency	Amount	Currency	Amount
Loans		0.00		0.00		0.00
Loan-Domestic		0.00		0.00		0.00
Loan-Foreign		0.00		0.00		0.00
Total Loans	INR	469.028	INR	1.68		0.00
Equity		0.00		0.00		0.00
Foreign		0.00		0.00		0.00
Domestic	INR	201.00	INR	0.71		0.00
Total Equity	INR	201.00	INR	0.71		0.00
Debt Equity Ratio					70:30	
Total Cost	INR	670.028	INR	2.39		0.00

Particulars	Debt	Equity	Total
Addcap for 2025 - 2026			468.21
Addcap for 2026 - 2027			57.72
Addcap for 2027 - 2028			0.00
Addcap for 2028 - 2029			0.00

Particulars	Actual	Normative	
Addcap for 2025 - 2026			
Equity		140.46	
Debt		327.75	
Total		468.21	
Addcap for 2026 - 2027			
Equity		17.32	
Debt		40.40	
Total		57.72	
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		528.32	

(Petitioner)

Statement of Additional Capitalisation after COD

Form No. - 7

Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	Implementation of one no. 220 kV line bay at Bhuj PS for providing connectivity to M/s NTPC Renewable Energy		
Element Description	One no. 220 kV Line Bay (Bay no. 206) at Bhuj PS		
Region	Western Region	DOCO Date	Apr 1, 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: Un-discharged 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	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 :2025-26 (Actual/Projected)									

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Land (Freehold Land)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building & Civil Works	10.00	0.00	0.00	0.00	0.00	0.00	0.01	10.01	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	425.34	425.34	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/URTDSM/SCADA,etc	0.00	0.00	0.00	0.00	0.00	0.00	32.86	32.86	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	10.00	0.00	0.00	0.00	0.00	0.00	458.21	468.21	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	7.87	0.00	0.00	0.00	0.00	0.00	0.00	7.87	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	46.92	46.92	0.00
Comm. Sys. excluding Fiber Optic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Land (Leasehold)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
IT/Software/UNMS/URTDSM/SCADA,etc	0.00	0.00	0.00	0.00	0.00	0.00	2.93	2.93	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	7.87	0.00	0.00	0.00	0.00	0.00	49.85	57.72	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 Corporation of India Limited		
Project	Implementation of one no. 220 kV line bay at Bhuj PS for providing connectivity to M/s NTPC Renewable Energy Ltd. (300 MW)		
Element Description	One no. 220 kV Line Bay (Bay no. 206) at Bhuj PS		
Region	Western Region	DOCO Date	Apr 1, 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	0.00	327.75	40.40	0.00	0.00					
Equity	0.00	140.46	17.32	0.00	0.00					
Total	0.00	468.21	57.72	0.00	0.00					

(Petitioner)

Calculation of ROE

Form No. - 8

Name of the Transmission Licensee	Power Grid Corporation of India Limited			
Project	Implementation of one no. 220 kV line bay at Bhuj PS for providing connectivity to M/s NTPC Renewable Energy			
Element Description	One no. 220 kV Line Bay (Bay no. 206) at Bhuj PS			
Region	Western Region	DOC Date	Apr 1, 2025	

(Amount in Rs. Lakh)

Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
No. of Days in the year	0.00	365.00	365.00	366.00	365.00
No. of days for which tariff claimed	0.00	365.00	365.00	366.00	365.00
Opening Normative Equity	0.00	0.71	141.17	158.49	158.49
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)	0.00	0.71	141.17	158.49	158.49
Add: Increase in Equity due to addition during the year / period	0.00	3.00	2.36	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	0.00	137.46	14.96	0.00	0.00
Closing Normative Equity	0.00	141.17	158.49	158.49	158.49
Average Normative Equity	0.00	70.94	149.83	158.49	158.49
Rate of return on Equity (%)	0.00	18.176	18.176	18.176	18.176
Reduced rate of 1% decided by commission under Regulation 30(2) (if any)	0.00	0.00	0.00	0.00	0.00
Effective rate of ROE	0.00	15.00	15.00	15.00	15.00
MAT/Corporate Rate	0.00	17.472	17.472	17.472	17.472
Grossed up rate of ROE	0.00	18.176	18.176	18.176	18.176
Return on Equity	0.00	12.89	27.23	28.81	28.81
Pro rata return on Equity	0.00	12.89	27.23	28.81	28.81

(Petitioner)

Calculation of WAR of interest on actual loan

Form No. - 9C

Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	Implementation of one no. 220 kV line bay at Bhuj PS for providing connectivity to M/s NTPC Renewable Energy		
Element Description	One no. 220 kV Line Bay (Bay no. 206) at Bhuj PS		
Region	Western Region	DOCO Date	Apr 1, 2025

(Amount in Rs. Lakh)

Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
HDFC-03 -ADD CAP ACCRUAL IDC					
Gross Loan- Opening	0.00	0.00	0.01	0.01	0.01
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.00	0.00
Net loan-Opening	0.00	0.00	0.01	0.01	0.01
Add: Drawl(s) during the year	0.00	0.007	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	0.01	0.01	0.01	0.01
Average Net Loan	0.00	0.01	0.01	0.01	0.01
Rate of Interest on Loan on Annual Basis	0.00	7.72	7.72	7.72	7.72
Interest on loan	0.00	0.0008	0.0008	0.0008	0.0008

HDFC-03 -DOCO LOAN					
Gross Loan- Opening	0.00	1.68	1.68	1.68	1.68
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.00	0.00
Net loan-Opening	0.00	1.68	1.68	1.68	1.68
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	0.24
Net Loan-Closing	0.00	1.68	1.68	1.68	1.44

Average Net Loan	0.00	1.68	1.68	1.68	1.56
Rate of Interest on Loan on Annual Basis	0.00	7.72	7.72	7.72	7.72
Interest on loan	0.00	0.1297	0.1297	0.1297	0.1204

Summary

Gross Loan- Opening	0.00	1.68	1.69	1.69	1.69
Cumulative repayments of Loans upto previous year	0.00	0.00	0.00	0.00	0.00
Net loan-Opening	0.00	1.68	1.69	1.69	1.69
Add: Drawl(s) during the year	0.00	0.007	0.00	0.00	0.00
Less: Repayment(s) of loan during the year	0.00	0.00	0.00	0.00	0.24
Net Loan-Closing	0.00	1.69	1.69	1.69	1.45
Average Net Loan	0.00	1.69	1.69	1.69	1.57
Rate of Interest on Loan on Annual Basis	0.00	7.7219	7.7219	7.7219	7.7197
Interest on loan	0.00	0.1305	0.1305	0.1305	0.1212

(Petitioner)

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Calculation of interest on Normative loan

Form No. - 9E

Name of the Transmission Licensee	Power Grid Corporation of India Limited			
Project	Implementation of one no. 220 kV line bay at Bhuj PS for providing connectivity to M/s NTPC Renewable Energy			
Element Description	One no. 220 kV Line Bay (Bay no. 206) at Bhuj PS			
Region	Western Region	DOC Date	Apr 1, 2025	

(Amount in Rs. Lakh)

Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
No. of Days in the Year	0.00	365.00	365.00	366.00	365.00
No. of days for which Tariff claimed	0.00	365.00	365.00	366.00	365.00
Gross normative loan-Opening	0.00	1.68	329.43	369.83	369.83
Cumulative repayments of Normative loan upto previous year	0.00	0.00	11.68	36.32	62.30
Net normative loan-Opening	0.00	1.68	317.75	333.51	307.53
Addition in normative loan towards the ACE	0.00	327.75	40.40	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	0.00	11.68	24.64	25.98	25.98
Adjustment of cumulative repayment pertaining to the decapitalised asset	0.00	0.00	0.00	0.00	0.00
Net normative loan - closing	0.00	317.75	333.51	307.53	281.55
Average normative loan	0.00	159.72	325.63	320.52	294.54
Weighted Average Rate of interest on actual loan	0.00	7.7219	7.7219	7.7219	7.7197
Interest on normative loan	0.00	12.33	25.14	24.75	22.74
Pro rata interest on normative loan	0.00	12.33	25.14	24.75	22.74

(Petitioner)

Calculation of Depreciation Rate on Original Project Cost

Form No. - 10

Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	Implementation of one no. 220 kV line bay at Bhuj PS for providing connectivity to M/s NTPC Renewable Energy		
Element Description	One no. 220 kV Line Bay (Bay no. 206) at Bhuj PS		
Region	Western Region	DOC Date	Apr 1, 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
2025-26						
Land(Freehold)	0.00	0.00	0.00	0.00	0.00	0.00
Civil & Building	2.39	10.01	12.40	7.40	3.34	0.25
Transmission Line	0.00	0.00	0.00	0.00	4.22	0.00
Sub Station	0.00	425.34	425.34	212.67	4.22	8.97
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	0.00	32.86	32.86	16.43	15.00	2.46
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	2.39	468.21	470.60	236.50	0.00	11.68
Weighted Average Rate of Depreciation(%)					4.938689	

2026-27						
Land(Freehold)	0.00	0.00	0.00	0.00	0.00	0.00

Civil & Building	12.40	7.87	20.27	16.34	3.34	0.55
Transmission Line	0.00	0.00	0.00	0.00	4.22	0.00
Sub Station	425.34	46.92	472.26	448.80	4.22	18.94
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	32.86	2.93	35.79	34.33	15.00	5.15
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	470.60	57.72	528.32	499.47	0.00	24.64
Weighted Average Rate of Depreciation(%)					4.933229	

2027-28

Land(Freehold)	0.00	0.00	0.00	0.00	0.00	0.00
Civil & Building	20.27	0.00	20.27	20.27	3.34	0.68
Transmission Line	0.00	0.00	0.00	0.00	4.22	0.00
Sub Station	472.26	0.00	472.26	472.26	4.22	19.93
Batteries	0.00	0.00	0.00	0.00	9.50	0.00
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	35.79	0.00	35.79	35.79	15.00	5.37
Fiber Optic/OPGW	0.00	0.00	0.00	0.00	6.33	0.00
TOTAL	528.32	0.00	528.32	528.32	0.00	25.98
Weighted Average Rate of Depreciation(%)					4.917474	

2028-29

Land(Freehold)	0.00	0.00	0.00	0.00	0.00	0.00
Civil & Building	20.27	0.00	20.27	20.27	3.34	0.68
Transmission Line	0.00	0.00	0.00	0.00	4.22	0.00
Sub Station	472.26	0.00	472.26	472.26	4.22	19.93
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	35.79	0.00	35.79	35.79	15.00	5.37
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	528.32	0.00	528.32	528.32	0.00	25.98
Weighted Average Rate of Depreciation(%)					4.917474	

(Petitioner)

Statement of Depreciation

Form No. - 10A

Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	Implementation of one no. 220 kV line bay at Bhuj PS for providing connectivity to M/s NTPC Renewable Energy		
Element Description	One no. 220 kV Line Bay (Bay no. 206) at Bhuj PS		
Region	Western Region	DOCO Date	Apr 1, 2025

(Amount in Rs. Lakh)

Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
No of Days in the year	0.00	365.00	365.00	366.00	365.00
No of days for which tariff claimed	0.00	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	0.00	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)	0.00	25.00	24.00	23.00	22.00
Capital Base					
1.4 Opening capital cost	0.00	2.39	470.60	528.32	528.32
1.5 Additional Capital Expenditure dr. the year	0.00	468.21	57.72	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	0.00	470.60	528.32	528.32	528.32
1.8 Average capital cost	0.00	236.50	499.47	528.32	528.32
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	0.00	16.43	34.33	35.79	35.79
1.11 Asset having 10% salvage value included in 1.8	0.00	220.07	465.14	492.53	492.53
1.12 Depreciable Value(1.10+90% of 1.11)	0.00	214.49	452.96	479.06	479.06
Depreciation for the period and Cum. Depreciation					
1.13 Weighted Average Rate of depreciation	0.00	4.938689	4.933229	4.917474	4.917474

1.14 Depreciation(for the period)	0.00	11.68	24.64	25.98	25.98
1.15 Depreciation(Annualised)	0.00	11.68	24.64	25.98	25.98
Unrecovered Depreciation for DECAP	0.00	0.00	0.00	0.00	0.00
1.16 Cumulative depreciation at the beginning of the period	0.00	0.00	11.68	36.32	62.30
1.17 Less:Adj of Cum. Dep pertaining to decapitalised Asset	0.00	0.00	0.00	0.00	0.00
1.18 Cumulative depreciation at the end of the period	0.00	11.68	36.32	62.30	88.28

(Petitioner)

Calculation of interest on working Capital

Form No. - 11

Name of the Transmission Licensee	Power Grid Corporation of India Limited			
Project	Implementation of one no. 220 kV line bay at Bhuj PS for providing connectivity to M/s NTPC Renewable Energy			
Element Description	One no. 220 kV Line Bay (Bay no. 206) at Bhuj PS			
Region	Western Region	DOC Date	Apr 1, 2025	

(Amount in Rs. Lakh)

Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
No of Days in the year	0.00	365.00	365.00	366.00	365.00
No of days for which tariff claimed	0.00	365.00	365.00	366.00	365.00
O&M Expenses-one month	0.00	1.81	1.91	2.01	2.11
Maintenance spares 15% of O&M Expenses	0.00	3.26	3.44	3.62	3.80
Receivables equivalent to 45 days of AFC	0.00	7.42	12.59	13.02	12.97
Total Working capital	0.00	12.49	17.94	18.65	18.88
Bank Rate as on 01.04.2024 or as on 01st April of the COD year, whichever is later.	0.00	12.25	12.25	12.25	12.25
Interest on working capital	0.00	1.53	2.20	2.28	2.31
Pro rata interest on working capital	0.00	1.53	2.20	2.28	2.31

(Petitioner)

FORM 12 A (IEDC)

(Rs in Lakhs)

	Asset Details	2024-25 (till DOCO)	Total
DOCO			
1	Employees Remuneration & Benefits	-	
2	Finance Costs		
3	Water Charges		
4	Communication Expenses		
5	Power charges		
6	Other Office & Admin Exps		
7	Others	0.26	0.26
8	Other Pre operating Expenses		
	TOTAL	0.26	0.26
1	Income from sale of tenders		
2	Income from guest house		
3	Income recovered from contractors		
4	Interest on deposits		
	TOTAL	0.26	0.26
	IEDC TAKEN TO CERTIFICATES	0.26	0.26

Drawdown schedule Calculation of IDC & Financing Charges

Form No. - 12B

Name of the Transmission Licensee	Power Grid Corporation of India Limited		
Project	Implementation of one no. 220 kV line bay at Bhuj PS for providing connectivity to M/s NTPC Renewable Energy Ltd. (300 MW)		
Element Description	One no. 220 kV Line Bay (Bay no. 206) at Bhuj PS		
Region	Western Region	DOCO Date	Apr 1, 2025

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									
HDFC-03 -DOCO LOAN									1.68
Draw Down Account									
IDC									
Financing Charges									

(Amount in Rs. Lakh)

174

175

[illegible]

(Petitioner)

Details of Initial Spares													
Name of Petitioner		Powergrid Corporation of India Limited							Cut-Off Date of the Asset		3/31/2028		
Claimed / Admitted COD		4/1/2025		A) Determination of Excess Initials spare and its adjustment from Capital cost									
Particulars	Plant and machinery cost as on cut-off Date1	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 during 2019-20	As ACE during 2020-21	As ACE during 2021-22				Total as on Cut off Date3	COD	ACE for 2019-20	ACE for 2020-21	ACE for 2021-22
1	2	3	4	5	6	7	8	9	10=7-9 (Note 2)	11	12	13	14
Transmission Line						-	1.00%		0.00				
Substation Green Field						-	4.00%						
Substation Brown Field	474.50	33.54				33.54	6.00%	30.29	3.25				
Series Comensation devices and HVDC Stations						-	4.00%						
GIS/S- Green field						-	5.00%		0.00				
GIS/S- Brown field						-	7.00%						
Communication System	-	-	-	-	-	-	3.50%	0	-				
Static Synchronous Compensator							6.00%						
Initial spare as per Books of Account		33.54				33.54							
Un-Discharge liabilities included above						-							
Total Capitalized Initial Spare													

(Note: 1) Plant and machinery cost as on cut-off Date for the purpose of initial spare (As computed in Col. L of the below table)

2) The column 10 has to be shown as nil in case the claimed initial spare is with in the ceiling limit.

3) Total cost should be excluding IDC and IEDC.

Note: 1) Plant and machinery cost as on cut-off Date for the purpose of initial spare (As computed in Col. L of the below table)

2) The column 10 has to be shown as nil in case the claimed initial spare is with in the ceiling limit.

3) Total cost should be excluding IDC and IEDC.

(Petitioner)

B) Determination of Plant & Machinery Cost for ceiling of Initial Spares											
Particulars	Gross Block of Asset as on COD	Less:Amount included in Col.B towards					Plant & Machinery cost as on COD for initial Spare purpose	Plant & Machinery Capitalised as ACE up to cut off date			Plant & Machinery cost as on cut off date for the purpose of initial spare
		Land Cost	Cost of Civil Works	IEDC	IDC	Initial Spare		2025-26	2026-27	2027-28	
a	b	c	d	e	f	g	h=b-c-d-e-f-g	i	j	k	l=h+i+j+k
Transmission Line										-	-
Substation Green Field											-
Substation Brown Field	510.44	-	2.13	0.26	0.01	33.54	474.50				474.50
Series Comensation devices and HVDC Stations							-				-
GIS/S- Green field											-
GIS/S- Brown field							-				-
Communication System	-	-	-	-	-	-	-	-	-	-	-
Static Synchronous Compensator							-				-
Note:The cost details for the year in which cut off date falls has to be provide only upto cut off date.											

Note: The cost details for the year in which cut off date falls has to be provide only upto cut off date.

(Petitioner)

DOCO	Asset Details	up to DOCO	Total
1	Interest on Loans and Advances		
a)	Interest From Contractor		
b)	Interest From Employee Loans and Advances		
2	Income from Sale of Scrap		
3	Misc Receipts		
a)	Other Recoveries From Contractors/Suppliers		
b)	Recovery of Rent from Emp Res Buildings		
c)	Electy Charges Recovered Frm Emp Res Bldgs		
d)	Liquidated Damages Recovered		
e)	Other Miscellaneous Receipts	0	
f)	Interest from Indian Banks		
	Total	0	0
	Less: Income transferred to expenditure during construction (Net) - Adjusted in Cost of Asset	0	
	Net Income	0	0

Summary of issue involved in the petition		PART-III FORM- 15	
1. Name of the Petitioner	Power Grid Corporation of India Limited		
2. Petition Category	Transmission		
3. Tariff Period	2024-29		
4. Name of the Project	"One no. 220 kV Line Bay (Bay no. 206) at Bhuj PS for providing Connectivity to M/s Ayana Renewable Energy Ltd. (100 MW) under "Implementation of one no. 220 kV line bay at Bhuj PS for providing connectivity to M/s NTPC Renewable Energy Ltd. (300 MW)"		
5. Investment Approval date	18.04.2023		
6. SCOD of the Project	27.02.2024		
7. Actual COD of the project	01.04.2025 (proposed)		
8. Whether entire scope is covered in the present petition.	Yes		
9. No. of Assets covered in instant petition	1		
10. No. of Assets having time over run	Nil		
11. Estimated Project Cost as per IA	Rs. 670.04 Lakhs		
12. Is there any REC? if so, provide the date	No		
13. Revised Estimated Project Cost (if any)	N.A.		
14. Completion cost for all the assets covered in the instant petition.	Rs. 528.32 Lakhs		
15. No. of Assets covered in instant petition and having cost overrun.	Nil		
16	Prayer in brief		
17	Key details and any Specific issue involved		
18	Respondents		
	Name of Respondents		
1	MADHYA PRADESH POWER MANAGEMENT COMPANY LTD	6	ELECTRICITY DEPARTMENT, GOA
2	MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD.	7	ELECTRICITY DEPARTMENT, DAMAN & DIU
3	GUJARAT URJA VIKAS NIGAM LTD.	8	DNH POWER DISTRIBUTION CORPORATION LIMITED
4	AYANA RNEWABLE POWER FOUR PRIVATE LIMITED	9	CHHATTISGARH STATE POWER DISTRIBUTION CO. LTD
5	NTPC Renewable Energy Ltd. (NTPC REL)		
(Petitioner)			

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

PART-III
Check List

Form No.	Title of Tariff Filing Forms (Transmission & Communication System)	Tick
FORM- 1	Summary of Tariff	✓
FORM- 1A	Summary of Asset level cost	✓
FORM-2	Details of Transmission Lines and Substations and Communication System covered in the project scope and O&M for instant asset	✓
FORM-3	Normative parameters considered for tariff computations	✓
FORM- 4	Abstract of existing transmission assets/elements under project, Determination of Effective COD and Weighted Average Life for single AFC for the project as whole.	N.A.
FORM- 4A	Statement of Capital cost	✓
FORM- 4B	Statement of Capital Works in Progress	N.A.
FORM- 4C	Abstract of Capital Cost Estimates and Schedule of Commissioning for the New Project/ Element	✓
FORM-5	Element wise Break-up of Project/ Asset/Element Cost for Transmission System or Communication System	✓
FORM-5A	Break-up of Construction/Supply/Service packages	✓
FORM-5B	Details of all the assets covered in the project	✓
FORM- 6	Actual Cash Expenditure and Financial Package up to COD	✓
FORM- 7	Statement of Additional Capitalisation after COD	✓
FORM- 7A	Financing of Additional Capitalisation	✓
FORM- 7B	Statement of Additional Capitalisation during five year before the end of the useful life of the project.	N.A.
FORM- 8	Calculation of Return on Equity	✓
FORM-8A	Details of Foreign Equity	N.A.
FORM-9	Details of Allocation of corporate loans to various transmission elements	N.A.
FORM-9A	Details of Project Specific Loans	N.A.
FORM-9B	Details of Foreign loans	N.A.
FORM-9C	Calculation of Weighted Average Rate of Interest on Actual Loans	✓
FORM-9D	Loans in Foreign Currency	N.A.
FORM-9E	Calculation of Interest on Normative Loan	✓
FORM- 10	Calculation of Depreciation Rate on original project cost	✓
FORM- 10A	Statement of Depreciation	✓
FORM- 10B	Statement of De-capitalisation	N.A.
FORM- 11	Calculation of Interest on Working Capital	✓
FORM- 12	Details of time over run	N.A.
FORM- 12A	Incidental Expenditure during Construction	✓
FORM- 12B	Calculation of IDC & Financing Charges	✓
FORM- 13	Details of Initial spares	N.A.
FORM- 14	Non-Tariff Income	✓
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 CBRC)	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.	NA
3	Copies of relevant loan Agreements	N.A.
4	Copies of the approval of Competent Authority for the Capital Cost and Financial package.	Yes
5	Copies of the Equity participation agreements and necessary approval for the foreign equity.	N.A.
6	Copies of the BPTA/TSA/PPA with the beneficiaries, if any	N.A.
7	Detailed note giving reasons of cost and time over run, if applicable. List of supporting documents to be submitted: a. Detailed Project Report b. CPM Analysis c. PERT Chart and Bar Chart d. Justification for cost and time Overrun	Yes
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.		