

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

PETITION NO. _____ OF 2025

IN THE MATTER OF:

Khavda-Bhuj Transmission Limited

...PETITIONER

VERSUS

Central Transmission Utility of India Ltd. and Ors.

...RESPONDENTS

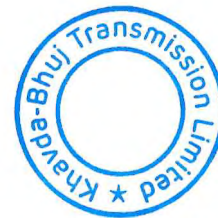
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Prashant Kumar
Petitioner

Place: Ahmedabad

Date: 15.10.2025

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

PETITION NO. _____ OF 2025

IN THE MATTER OF:

Approval under Section 62 read with section 79(1) of Electricity Act, 2003 and Regulation 15(1)(a) and Regulation 23 of the CERC (Conduct of Business) Regulations, 2023 for determination of capital cost and transmission tariff pertaining to FY 2024-25 to FY 2028-29 under CERC (Terms and Conditions of Tariff) Regulations, 2024 for Transmission System for Evacuation of Power from potential renewable energy zone in the Khavda area of Gujarat under Phase-IV (7 GW): Part E1 constructed, maintained and operated by Khavda-Bhuj Transmission Limited vide Licence No. 125/Transmission /2024/CERC

AND

IN THE MATTER OF:

Khavda-Bhuj Transmission Limited

.....PETITIONER

VERSUS

Central Transmission Utility of India Ltd. and Ors.

.....RESPONDENTS

MEMO OF PARTIES

Khavda-Bhuj Transmission Limited

C 105, Anand Niketan,

New Delhi, 110021

.....PETITIONER



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Versus

1. Central Transmission Utility of India Ltd.,
Saudamini, Plot no.2, Sector -29,
Gurgaon 122001
2. Madhya Pradesh Power Management Company Limited (MPPMCL)
Block No. – 11, Ground Floor, Shakti Bhavan,
Vidhyut Nagar, Rampur,
Jabalpur – 482 008, Madhya Pradesh
3. Chhattisgarh State Power Distribution Company Limited (CSPDCL)
P.O. Sunder Nagar, Dangania,
Raipur – 492013, Chhattisgarh
4. Maharashtra State Electricity Distribution Company Limited (MSEDCL),
Prakashgad, 4th Floor, Bandra (East),
Mumbai – 400051
5. Gujarat Urja Vikas Nigam Limited (GUVNL)
Vidhyut Bhavan, Race Course,
Vadodara – 390007
6. DNH Power Distribution Corporation Limited,
66 kV, Amli Ind. Estate, Silvassa - 396230
Dadar Nagar Haveli



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7. Electricity department Goa,
Electricity department, Government of Goa,
Vidyut Bhavan, Near Mandvi Hotel,
Panaji, Goa – 403001
8. Dadra Nagar Haveli and Daman and Diu
Power Distribution Corporation Limited,
1st and 2nd Floor, Vidyut Bhavan, Silvassa,
Dadra & Nagar Haveli – 396230

.....RESPONDENTS



Prashant Kumar
Petitioner

Place: Ahmedabad

Date: 15.10.2025

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

PETITION NO. _____ OF 2025

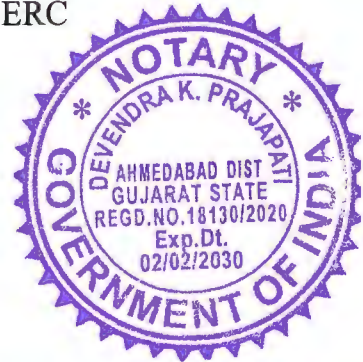
IN THE MATTER OF:

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AND

IN THE MATTER OF:

Khavda-Bhuj Transmission Limited



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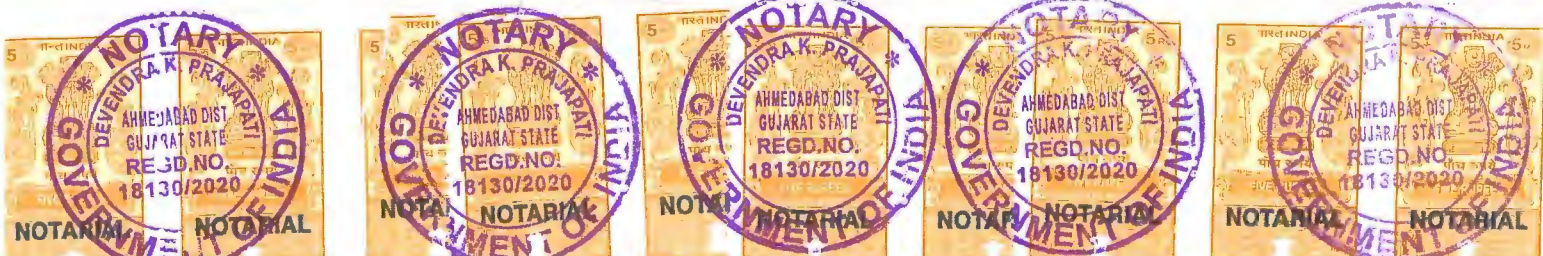
.....RESPONDENTS



AFFIDAVIT

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I, **Prashant Kumar**, son of **Sh Jagdish Prasad**, aged about 48 years, R/o **B-101, Sanskar Apartments, Satellite, Ahmedabad** do hereby solemnly affirm and state on oath as under:



1. That I am the Authorised Representative, of the Petitioner, Khavda-Bhuj Transmission Limited, and I am fully conversant with the facts and circumstances of the case and I have been duly authorized and am, therefore, competent to affirm this affidavit.
2. That I have read the accompanying submissions being submitted on behalf of Khavda-Bhuj Transmission Limited and have understood the contents thereof and that the contents therein are true and correct to the best of my knowledge and belief



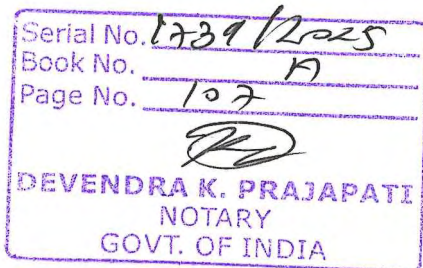
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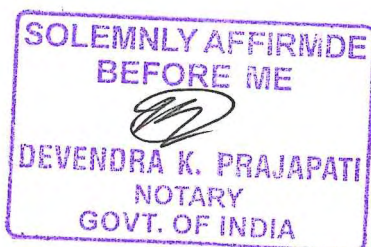
VERIFICATION

I, **Prashant Kumar**, the above named deponent do hereby verify that the contents of this affidavit are true and correct to the best of my knowledge and belief, no part of it is false and nothing material has been concealed therefrom.

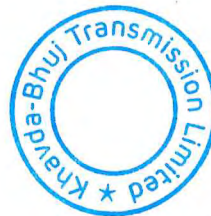
Verified by me on this 15th October, 2025, at Ahmedabad



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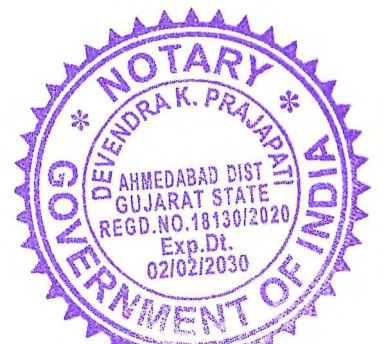


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**BEFORE THE HON'BLE CENTRAL ELECTRICITY REGULATORY
COMMISSION, NEW DELHI**

PETITION NO. _____ OF 2025

IN THE MATTER OF:

Approval under Section 62 read with section 79(1) of Electricity Act, 2003 and Regulation 15(1)(a) and Regulation 23 of the CERC (Conduct of Business) Regulations, 2023 for determination of capital cost and transmission tariff pertaining to FY 2024-25 to FY 2028-29 under CERC (Terms and Conditions of Tariff) Regulations, 2024 for Transmission System for Evacuation of Power from potential renewable energy zone in the Khavda area of Gujarat under Phase-IV (7 GW): Part E1 constructed, maintained and operated by Khavda-Bhuj Transmission Limited vide Licence No. 125/Transmission /2024/CERC

AND

IN THE MATTER OF:

Khavda-Bhuj Transmission Limited

.....**PETITIONER**

VERSUS

Central Transmission Utility of India Ltd. and Ors.

.....**RESPONDENTS**

**PETITION FOR DETERMINATION OF CAPITAL COST AND TARIFF
FOR THE PERIOD FROM 27-JULY-2025 TO 31-MARCH-2029**

MOST RESPECTFULLY SHEWETH:

1. Khavda-Bhuj Transmission Limited (hereinafter referred to as 'KBTL' /



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- 'Petitioner') is a company incorporated under the provisions of the Companies Act, 1956 and is engaged in the business of transmission of power.
2. The Respondent No. 1, the Central Transmission Utility, is responsible for planning, implementation, operation and maintenance of Inter-State Transmission System and discharging the functions as provided under Section 38 of the Act. The Respondent No. 2 to 8 are transmission service users of western region.
 3. The Petitioner is filing the present petition seeking approval under Section 62 read with section 79(1) of Electricity Act, 2003 and Regulation 23 of the CERC (Conduct of Business) Regulations, 2023 for determination of capital cost and transmission tariff for the period from 27-July-2025 to 31-March-2029 under CERC (Terms and Conditions of Tariff) Regulations, 2024.
 4. KBTL has been awarded transmission license under TBCB mechanism for the below given scope of work:

	Name of the Transmission Element
1.	Establishment of 3X1500 MVA 765/400 kV Khavda (GIS) with 1X330 MVAR 765 kV bus reactor and 1X125 MVAR 420 kV bus reactor • 765/400 kV, 1500 MVA ICT - 3 Nos. • 765 kV ICT bays - 3 Nos. • 400 kV ICT bays - 3 Nos. • 330 MVAR 765 kV bus reactor -1 No. • 125 MVAR 420 kV bus reactor -1 No. • 765 kV reactor bay - 1 Nos. • 765 kV line bay - 2 Nos. • 400 kV reactor bay - 1 No. • 400 kV line bay - 3 Nos. • 500 MVA, 765/400 kV Spare ICT - 1 No. • 110 MVAR, 765 kV, 1-ph reactor (spare unit) - 1 No.



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	Name of the Transmission Element
	Future Scope: Space for • 765/400 kV, ICT along with bays - 5 Nos. • 400/220 kV, ICT along with bays- 4 Nos. • 765 kV Line bays along with switchable line reactor- 6 Nos. • 400 kV Line bays – 9 Nos. • 220 kV Line bays - 8 Nos. • 765 kV reactor along with bays - 2 Nos. • 400 kV reactor along with bays – 1 No. • 765 kV bus sectionalizer- 1 No. • 400 kV bus sectionalizer- 1 No.
2.	Khavda PS (GIS) – Bhuj PS 765 kV D/c line
3.	2 nos. of line bays each at Bhuj PS for termination of Khavda PS (GIS) – Bhuj PS 765 kV D/c line • 765 kV AIS line bays – 2 Nos.

5. The Hon'ble Commission had granted a Transmission Licence No. 73/ Transmission /2022/CERC dated 16.06.2022 for the transmission system implemented by Khavda-Bhuj Transmission Limited .
6. The Petitioner submits that during the 14th Meeting of the National Committee on Transmission (NCT) held on 09.06.2023, NCT recommended the installation Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7 GW): Part E1 through regulated tariff mechanism (RTM).
7. Central Transmission Utility vide Office Memorandum No. CTUIL/OM/09/052023 dated 10.07.2023 notified implementation of Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7 GW): Part E1 under Regulated Tariff Mechanism (RTM) to Khavda-Bhuj Transmission Limited.



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The copy of CTU Office Memorandum dated 10.07.2023 is enclosed as **Annexure-1** respectively.

The Scope of the Project is as follows:

SI No	Scope of the Transmission Scheme	Item Description	Implementation timeframe
1	Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7 GW): Part E1	Augmentation of transformation capacity at KPS1 (GIS) by 1x1500 MVA, 765/400 kV ICT (8th) on bus section-I	24 months from the date of allocation

Note:

- i. The TSP shall implement one complete diameter consisting of 2 main bays & 1 Tie bay at both 765 kV & 400 kV levels of KPS1 (GIS) for completion of diameter (GIS) in one and- half breaker scheme.
 - ii. Further, TSP of KPS1 shall provide space to carry out the above augmentation work.
8. Accordingly, the Petitioner approached this Hon'ble Commission vide Petition No. 310/TL/2023 for separate transmission licence for Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7 GW): Part E1. This Hon'ble Commission, vide order dated 06.06.2024 in Petition No. 310/TL/2023, granted the fresh transmission license to the Petitioner with License No. 125/Transmission/2024/CERC. The copy of this Hon'ble Commission's grant of transmission license order in Petition No. 310/TL/2023 is attached as **Annexure-2**.
9. The Schedule CoD of the Project was 10.07.2025, which is mentioned in the Office Memorandum (OM) issued by CTUIL on 10.07.2023. The Petitioner has completed the scope of work of Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7 GW): Part E1 and successful trial operation of last element was carried out from 25.07.2025 to 26.07.2025. Grid Controller of



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India Limited has issued certificate dated 18.09.2025, wherein successful trial operation of Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7 GW): Part E1 of M/s Khavda-Bhuj Transmission Limited is completed on 26.07.2025. A copy of certificate of successful trial operation issued by Grid Controller of India Limited 18.09.2025 is marked and attached as **Annexure-3**. Accordingly, the Petitioner has declared Commercial Operational Date of Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7 GW): Part E1 w.e.f. 00:00 Hrs 27.07.2025. A copy of the aforesaid letter of the Petitioner dated 03.10.2025 declaring COD of Transmission System is annexed herewith and marked as **Annexure-4**.

10. Based on the above facts, the Petitioner is filing the present Petition for determination of capital cost and tariff for the tariff block from FY 2024-25 to FY 2028-29 along with requisite information and details in the formats specified by the Hon'ble Commission as per CERC (Terms and Conditions of Tariff) Regulations, 2024.

Reasons for Time Over-run of 17 days

11. It is respectfully submitted that there is only delay of 17 days from the scheduled COD of 10.07.2025. Reasons for delay in COD is as under:

- Delay on account of Act of War
- Delay on account of non-allowance of outage for commissioning related activities

12. **Delay on account of Act of War:**

- It is respectfully submitted that incident of terrorist attack on tourists on 22.04.2025 in Pahalgam district of Jammu & Kashmir region lead to conflict between India and Pakistan. Subsequently, targeted military



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operations on 07.05.2025 on terrorist establishment in Pakistan Occupied Kashmir and other region in Pakistan has resulted into undeclared war between India and Pakistan.

- Accordingly, progress on the site for implementation of the project was impacted since 07.05.2025. Further, work has been halted completely due to a Blackout in Khavda area since 09.05.2025. On 09.05.2025, Gujarat Power Corporation Limited (GPCL), which is the nodal agency, has notified us that as per the instructions from the Kutch Collector's office, the 30 GW Khavda RE park should remain completely blacked out with immediate effect till further instructions by Kutch Collector's office. GPCL has also directed that manpower must remain confined within a 10 km distance from the India-Pakistan International Border (Indo-Pak IB) for safety reasons as per the instructions from the Kutch Collector's office.
- Later on, 10.05.2025, GPCL has directed that all movement in the border area is strictly prohibited & no movement is allowed and evacuation notice was given by GPCL. GPCL vide its email dated 11.05.2025 has also directed to restrict the usage of Drone in the implementation of the project from 10.05.2025 to 15.05.2025. Copy of communications received from GPCL on 09.05.2025 to 11.05.2025 are attached as **Annexure-5A**.
- The following activities of the project implementation have got impacted due to undeclared act of war which shall result in delay in completion of the project:
 - Entry to Khavda RE park for vehicles is prohibited.
 - Vehicles carrying basic amenities like food and water supplies are also restricted to enter from BSF check post near India Bridge.



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- Material supplies are totally halted at supplier works & in transit vehicles are being parked at safe locations.
- Administration is not allowing vehicles with material to enter the region, and it has also an additional cost impact due to the temporary arrangement of a warehouse for storing such materials during this period.
- Mobilization and demobilization of Manpower/Gangs being relocated to safe locations away from war prone areas.
- Gujarat Power Corporation Limited (GPCL) vide its E-mail dated 14.05.2025 informed all the Khavda RE Park Developers and TSPs to start their routine work, which is attached as **Annexure-5B**.
- Due to war situation and various government directions, manpower/ resources were demobilized from the site. Even though the nodal agency issued permission to resume the work with effect from 14.05.2025, mobilization of manpower/ resources at site have taken additional time due to remote location of the project and proximity of work site near to Pakistan. KBTL was able to re-initiate its work from 30.05.2025. This event **caused delay of 23 days** for the period from 07.05.2025 to 29.05.2025.

13. Delay on account of non-allowance of outage for commissioning related activities:

- It is respectfully submitted that KBTL was seeking outage for completion of commissioning related activities from WRLDC since 23rd June 2025. However, due to system constraint, outage was given in two parts. For Bus 2, outage was given for the period of 11.07.2025 to 14.07.2025 and for Bus 1, outage was given for the period of 22.07.2025 to 25.07.2025. This has caused delay in commissioning from 28th June 2025 to 22nd July



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2025 resulting into delay of 25 days. Chronology of events is provided in table below:

S. N.	Date	Event
1	23.06.2025	Initial outage request applied to WRPC for 765 KV Main Bus 1 & 2 for Inter-coupling of 765 kV Main of RTM 1 for 28 th June, 2025. Annexure-6A
2	24.06.2025	Reminder given and discussion done with WRPC for approval of element
3	26.06.2025	RC sheet circulated for 28th June indicated confirmation of the outage.
4	27.06.2025	RC sheet re-issued for 28 June noted deferral of the outage by NLDC. Reason: Continuous shutdown of 765 kV Vadodara BUS 2. Outage to be taken post its revival.
5	28.06.2025	Coordination with WRLDC representative. Suggested revised outage window starting from 04 July 2025.
6	01.07.2025	Outage was re-applied and readiness confirmed.
7	03.07.2025	RC sheet for 04 July included RLDC. Outages typically discussed in POST OCC. Past bus tripping observed during Khavda PS-I stability tests.
8	04.07.2025	New outage request sent to WRPC for schedule starting from 08 July 2025 onwards. Annexure-6B
9	07.07.2025	WRPC comment - Sterlite proposed outage from 02.07.2025, 765 kV Vadodara BUS 2 from 07th July 2025 to 10th July 2025. Therefore, these shutdowns are to be planned after Vadodara BUS 2 shutdowns.
10	11.07.2025	Outage for Bus 2 was approved for the period of 11.07.2025 to 14.07.2025. Annexure-6C
11	22.07.2025	Outage for Bus 1 was approved for the period of 22.07.2025 to 25.07.2025. Annexure-6D

14. In view of the above, Hon'ble Commission is requested to condone the delay of 17 days in commissioning of project and allow extension of SCOD to 27.07.2025.
15. Based on the above facts, the Petitioner is filing the present Petition for determination of capital cost and tariff for the tariff block from FY 2024-25



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to FY 2028-29 along with requisite information and details in the formats specified by the Hon'ble Commission as per CERC (Terms and Conditions of Tariff) Regulations, 2024.

Capital Cost of Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7 GW):

Part E1

16. The National Committee on Transmission (NCT) during 14th meeting held on 09.06.2023, recommended installation of Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7 GW): Part E1 through regulated tariff mechanism (RTM).
17. The investment approval of competent authority as defined in CERC (Terms and Conditions of Tariff) Regulation, 2024 is attached as **Annexure-7**. Accordingly, KBTL has carried out necessary activities for installation of Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7 GW): Part E1. Accordingly, the Petitioner has incurred cost of Rs. 25,485.33 Lakh for completion of the Project. The component wise cost bifurcation of the Project Cost is as under:

Rs. Lakh				
Sr. No.	Particular	Payment as on COD	Un-Discharge Liabilities	Total Capitalization
1	Civil work – Foundation for Structure	-	-	-
2	Substation Equipment -	17,218.94	6,214.91	23,433.85



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Rs. Lakh				
Sr. No.	Particular	Payment as on COD	Un-Discharge Liabilities	Total Capitalization
	Compensating Equipment			
3	Overheads - IEDC	154.16	-	154.16
4	IDC, FERV & Hedging Cost	1,897.32	-	1,897.32
5	Total Cost	19,270.42	6,214.91	25,485.33

18. Auditor Certificate indicating Capital Cost is attached as **Annexure-8**.

Tariff determination for the tariff period 2024-29 (from 27.07.2025 to 31.03.2029)

19. The Tariff for control period from FY 2024-25 to FY 2028-29 has been filed as per Annexure-III to the CERC (Terms & Conditions of Tariff) Regulations, 2024.

Additional Capital Expenditure

20. The Petitioner has already incurred capital cost of Rs. 25,485.33 Lakh as part of project and out of which Rs. 6,214.91 Lakh is undischarged liability on the date of commissioning. Undischarged liability of Rs. 6,214.91 Lakh is proposed to be paid in FY 2025-26. Accordingly, the Petitioner has claimed Rs. 6,214.91 Lakh as Additional Capitalisation for FY 2025-26.

Depreciation

21. The Petitioner has calculated the depreciation charges for FY 2025-26 to FY 2028-29 as prescribed in the Regulations 33 of CERC (Terms & Conditions



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of Tariff) Regulations, 2024.

Interest on Loan

22. Interest on loan is calculated for FY 2025-26 to FY 2028-29 as prescribed in Regulations 32 of CERC (Terms & Conditions of Tariff) Regulations, 2024. The Petitioner has considered the weighted average interest rate of actual loan portfolio for the purpose of interest rates during FY 2025-26 to FY 2028-29. The repayment is considered equal to the depreciation for the year.

O&M Expenses

23. The Normative O&M Expenses for the control period from FY 2025-26 to FY 2028-29 is specified in Regulation 36 (3) of CERC (Terms & Conditions of Tariff) Regulations, 2024. The Operation and Maintenance expenses has been calculated by multiplying no. of bays with the applicable norms and MVA capacity with the applicable norms of MVA capacity for the operation and maintenance expenses. Accordingly, the Petitioner has calculated the normative O&M expense for bays and MVA capacity.
24. As the Petitioner has capitalised bays and hence there is no transmission line. Accordingly, the Petitioner has claimed Nil normative O&M expenses for transmission line for FY 2025-26 to FY 2028-29.
25. Regulation 36 (3) (d) of Tariff Regulation, 2024 provides that Security Expenses and Capital spares shall be allowed as O&M expenses for Transmission system. Presently, the Petitioner is not seeking any expenses towards security expenses and capital spares but will claim as actual at the time of Truing-up.
26. Regulation 36 (3) (c) of CERC (Terms & Conditions of Tariff) Regulations, 2024 provides that expenses towards Communication system (2.0% of the original project cost) shall be allowed as O&M expenses for Transmission system. Presently, the Petitioner is not seeking any expenses towards



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communication system but will claim as actual at the time of Truing-up.

27. First proviso to Regulation 36 (3) (d) of CERC (Terms & Conditions of Tariff) Regulations, 2024 provides that insurance expenses at 0.09% of GFA will be allowed as insurance premium in case of Self-insurance. Accordingly, the Petitioner has claimed insurance expenses @ 0.09% of GFA for FY 2025-26 to FY 2028-29.

Return on Equity

28. The Petitioner submits that it has considered prevailing MAT rate of 25.168% (Basic MAT of 22% grossed up by 10% of surcharge and 4% of education cess) for FY 2025-26 to FY 2028-29 which results into RoE of 20.04% for the entire control period of FY 2025-26 to FY 2028-29 as per Regulation 30 & 31 of CERC (Terms & Conditions of Tariff) Regulation, 2024.

Interest on Working Capital

29. The Working capital is calculated for FY 2025-26 to FY 2028-29 as per Regulation 34 (1) (d) of CERC (Terms & Conditions of Tariff) Regulations, 2024. As per the Regulation, the Working Capital requirement includes following components:

- Receivables equivalent to 45 days of annual fixed cost
- Maintenance spares @ 15% of O&M expenses including security expenses; and
- O&M expenses, including security expenses of one month

30. The Reference rate of interest as on 01.04.2025 (one year marginal cost of funds based lending rate (MCLR) of SBI plus 325 basis points) as defined



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in Regulation 3 (66) of CERC (Terms & Conditions of Tariff) Regulations, 2024 is considered as 12.25 % as the rate of interest for working capital as per Regulation 34(d)(3) of CERC (Terms & Conditions of Tariff) Regulations, 2024 for FY 2025-26 to FY 2028-29.

Annual Transmission Charges

31. The transmission tariff for FY 2024-25 to FY 2028-29 has been worked out as given in table below:

(Rs. In Lakhs)

Particulars	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29
Depreciation	-	641.64	1,075.48	1,075.48	1,075.48
Interest on Loan	-	1,146.78	1,832.64	1,714.34	1,596.03
Return on Equity	-	914.33	1,532.55	1,532.55	1,532.55
Interest on Working Capital	-	59.81	100.88	100.51	100.73
O&M Expenses	-	478.48	739.23	776.53	817.55
Total	-	3,241.04	5,280.78	5,199.40	5,122.34

32. The Tariff Filing Formats along with other relevant information are annexed herewith and marked as **Annexure 9**.



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GST

33. The Government 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 “Transmission or distribution of electricity by an electric transmission or distribution utility” by giving applicable GST rate as NIL and accordingly the Transmission Charges indicated above, are exclusive of GST and same shall be charged, billed separately by the Petitioner if at any time the transmission charges are withdrawn from the list of NIL GST and will be borne and additionally paid by the respondents to the Petitioner. Further, any additional taxes to be paid by the Petitioner on account of demand from any Government/Statutory authorities, the same may be allowed to be recovered from the beneficiaries.

Other Expenses

34. The application filing fee, expenses incurred on publication of notices in Newspapers may be allowed to be recovered separately from the respondents in terms of Regulation 94 (1) of the CERC (Terms & Conditions of Tariff) Regulations, 2024. The fees and charges to be paid by the Petitioner as ISTS licensee (including deemed ISTS licensee) under CERC (Fees and Charges of RLDC and other matters) Regulations as amended from time to time and License Fees paid by the Petitioner as Inter State Transmission Licensee (including deemed ISTS licensee) in terms of CERC (Payment of Fees) Regulations, 2012 shall be recoverable from the DICs as provided under clause 94 (2) (3) & (4) of the CERC (Terms & Conditions of Tariff) Regulations, 2024.
35. The Transmission Charges and other related Charges indicated above, are exclusive of incentive, late payment surcharge, FERV, any statutory taxes, levies, duties, cess, filing fees, Licence fee, RLDC fees and charges or any



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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

36. Tariff for Transmission of Electricity (Annual Fixed Cost) shall be recovered on monthly basis in accordance with Regulation 78 of CERC (Terms & 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 dated 04.05.2020 and amendment to these Regulations issued from time to time.
37. Further, since the Transformers/Reactors and bays are installed in TBCB assets of the Petitioner the Availability shall be considered along with the TBCB asset of the Petitioner.
38. The Petitioner requests the Hon'ble Commission to grant recovery of interim tariff (till approval of final tariff) in accordance with Regulation 10 (3) of CERC (Terms and Conditions of Tariff) Regulations, 2024. The Petitioner also requests the Hon'ble Commission for recovery of final tariff determined in accordance with Regulation 10 (5) of CERC (Terms and Conditions of Tariff) Regulations, 2024.
39. In the circumstances mentioned above it will be just and proper that the transmission tariff and charges for the assets covered under this Petition be



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allowed to be charged from the Respondents on the basis set out above.

40. Further, the Petitioner requests the Hon'ble Commission to invoke Regulation 102 "Power to Relax" under CERC (Terms and Conditions of Tariff) Regulations, 2024 if the circumstances arise for any matter mentioned herewith in the petition.
41. The present petition is made bonafide and in the interest of justice. The Hon'ble Commission has jurisdiction to entertain the present matter and pass orders in terms of jurisdiction vested under section 61, 62, read with section 79 and section 94 of the Electricity Act, 2003.

PRAYER

In view of the aforementioned facts and circumstances of the present case it is, therefore, most respectfully prayed that this Hon'ble Commission may graciously be pleased to:

- a) Approve the Capital Cost and Transmission Tariff for the tariff block FY 2024-25 to FY 2028-29 for the Asset covered under this Petition, claimed in this petition.
- b) Approve the Additional capitalisation projected to be incurred during the tariff block of FY 2024-25 to FY 2028-29 as claimed in the Petition.
- c) Allow interim tariff in accordance with Regulation 10 (3) of CERC (Terms and Conditions of Tariff) Regulations, 2024 for recovery of Transmission Tariff under CERC (Sharing of Inter-State Transmission Charges and Losses) Regulations, 2020.
- d) Allow Final tariff in accordance with Regulation 10 (5) of CERC (Terms and Conditions of Tariff) Regulations, 2024 for recovery of Transmission Tariff under CERC (Sharing of Inter-State Transmission Charges and Losses) Regulations, 2020.

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- e) Approve the reimbursement of expenditure by the beneficiaries towards Petition filing fee, and expenditure on publishing of notices in newspapers in terms of CERC (Terms and Conditions of Tariff) Regulations, 2024 and other expenditure (if any) in relation to the filing of Petition.
- f) Allow the Petitioner to consider availability of the installed Transformers/Reactors and bays along with the TBCB assets of the Petitioner.
- g) Allow the Petitioner to bill and recover the Licence fee and RLDC fees and charges, separately from the respondents in terms of CERC (Terms and Conditions of Tariff) Regulations, 2024.
- h) 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.
- i) Allow the petitioner to claim security expenses and consequential IOWC on that security expenses as mentioned at para 25 above.
- j) Condone any inadvertent errors omissions/ errors / shortcomings and permit the Petitioner to add/change/modify/alter these filings and make further submissions as may be required at a future date and
- k) Pass such other and further order or orders as this Hon'ble Commission may deem fit and proper under the facts and circumstances of the present case and in the interest of justice.

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For, Khavda-Bhuj Transmission Limited

Place: Ahmedabad

Date: 15.10.2025



Prashant Kumar

(Authorised Signatory)

Annexure-1

संदर्भ संस्थानिधन एडमिनिस्ट्रेशन ऑफ इंडिया लिमिटेड
(पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड के स्वामित्व में,
(भारत सरकार का उद्यम)
CENTRAL TRANSMISSION UTILITY OF INDIA LTD.

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

(A Government of India Enterprise)

Ref. No.: CTUIL/OM/09/052023

10th July 2023

1. The Chairman & Managing Director Power Grid Corporation of India Ltd., Saudamini, Plot No. 2, Sector-29, Gurgaon- 122 001.	2. CGM (TBCB) POWERGRID Bhuj Transmission Ltd. (a subsidiary of Power Grid Corporation of India Ltd.) Power Grid Corporation of India Ltd., Saudamini, Plot No. 2 Sector-29, Gurgaon- 122 001.
3. CGM (TBCB) KPS3 Transmission Ltd. (a subsidiary of Power Grid Corporation of India Ltd.) Power Grid Corporation of India Ltd., Saudamini, Plot No. 2, Sector-29 Gurgaon- 122 001.	4. Shri Bhavesh Kundalia Authorized Signatory Khavda-Bhuj Transmission Ltd., (a subsidiary of Adani Transmission Ltd.) Adani Corporate House, Shantigram, S.G. Highway, Ahmedabad 382 421
1. Shri Lokendra Singh Ranawat Head (Regulatory) Bhopal Dhule Transmission Co. Ltd. (a subsidiary of India Grid Trust) Unit No. 101, First Floor, Windsor, Village Kolekalyan, Off CST Road, Vidyanagari Marg, Kalina, Santacruz (East), Mumbai - 400 098	

Sub: Implementation of ISTS Transmission/Communication Schemes approved by NCT in its 14th meeting held on 09-06-2023 under Regulated Tariff Mechanism (RTM).

NCT vide letter dated 07-07-2023 has awarded the following ISTS Transmission/Communication Scheme for its implementation under RTM mode by implementing agencies as indicated in the table below:

Sl. No.	Transmission/Communication Schemes	Implementing Agency
1.	ISTS costing less than Rs. 100Cr.:	
1.	Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-V (8GW): Part A1.	POWERGRID
2.	Transmission System for Evacuation of Power from Rajasthan REZ Ph-IV (Part-2: 5.5GW) (Jaisalmer/Barmer Complex): Part H2.	BDTCL i.e., the owing the Indore-Bhopal 765kV line.

"सौदामिनी" ग्राम तल, प्लॉट नं. 2, सेक्टर-29, गुरुग्राम - 122001 (हरियाणा), दूरभाष - 0124-2822547, सीआईएन: U40100HR2020GOI091357

"Saudamini", 1st Floor, Plot No. 2, Sector-29 Gurugram-122001, (Haryana) Tel. 0124-2822547, CRN: U40100HR2020GOI091357

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



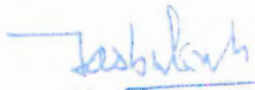
Sl. No.	Transmission/Communication Schemes	Implementing Agency
II.	RTS costing between Rs. 100 Crs. To Rs. 400 Crs.	
1.	Augmentation of transformation capacity by 1x1300MVA (2x) 765/400kV ICT at Maheshwarani (PS) substation in Telangana	POWERGRID
2.	Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (700kV) Part E1.	Khavda Bhuj Transmission Ltd. (Subsidiary of Adani Transmission Ltd.)
3.	Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (700kV) Part E3.	KPSB Transmission Ltd. (Subsidiary of POWERGRID)
4.	Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (700kV) Part E4.	POWERGRID
III.	Communication schemes approved by NCT:	
1.	Requirement of additional FOTE of STM-16 capacity at Bhuj PS to cater to connectivity of RE Gencos.	POWERGRID
2.	Requirement of additional FOTE of STM-16 capacity at Bhuj-II substation to cater to connectivity of RE Gencos.	M/s PSTL
3.	Upgradation of STM-4 communication link of Dangam Ranchhodpura, Santhalpur Rao, Bhachau and CGPL Mundra to STM-16 capacity.	POWERGRID

Copy of NCT letter dated 07-07-2023 in this regard is enclosed at **Annexure-I**. The detailed scope of work along with implementation time frame for the above Transmission/Communication Schemes shall be as per the enclosed letter of NCT.

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

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

Yours faithfully,


(Jasbir Singh) 10/7/23
Chief General Manager

Encl.: as stated.



I/28785/2023



भारत सरकार

Government of India
विद्युत मंत्रालयMinistry of Power
केंद्रीय विद्युत प्राधिकरणCentral Electricity Authority
विद्युत प्रणाली योजना एवं मूल्यांकन प्रभाग- II
Power System Planning & Appraisal Division-II

सेवा में/To

As per list of Addresses

विषय : ट्रांसमिशन पर राष्ट्रीय समिति (एनसीटी) की चौदहवीं बैठक का कार्यवृत्त - के सम्बन्ध में ।

Subject: Minutes of the 14th Meeting of National Committee on Transmission (NCT) - regarding.

महोदया (Madam) / महोदय (Sir),

The 14th meeting of the "National Committee on Transmission" (NCT) was held on 09th June, 2023. Minutes of the meeting are enclosed herewith.

भवदीय/Yours faithfully,

(ईशान शरण / Ishan Sharan)

मुख्य अभियंता एवं सदस्य सचिव, एनसीटी
/Chief Engineer & Member Secretary (NCT)प्रतिलिपि / Copy to:

Joint Secretary (Trans), Ministry of Power, New Delhi



I/28785/2023

List of Addressees:

1.	Chairperson, Central Electricity Authority Sewa Bhawan, R.K. Puram, New Delhi – 110 066.	2.	Member (Power System), Central Electricity Authority Sewa Bhawan, R.K. Puram, New Delhi – 110 066.
3.	Member (Economic & Commercial), Central Electricity Authority Sewa Bhawan, R.K. Puram, New Delhi – 110 066.	4.	Director (Trans), Ministry of Power Shram Shakti Bhawan, New Delhi-110001.
5.	Sh. Ajay Yadav, Joint Secretary Room no 403, Atal Akshay Urja Bhawan, Opposite CGO Complex gate no 2, Lodhi Road, New Delhi – 110003	6.	Chief Operating Officer, CTUIL, Saudamini, Plot No. 2, Sector-29, Gurgaon – 122 001.
7.	Sh. Rajnath Ram, Adviser (Energy), NITI Aayog, Parliament Street, New Delhi – 110 001.	8.	CMD, Grid Controller of India, B-9, Qutub, Institutional Area, Katwaria Sarai, New Delhi – 110010
9.	Dr. Radheshyam Saha, Ex. Chief Engineer, Central Electricity Authority	10	Ms. Seema Gupta, Ex. Director (Operations), POWERGRID

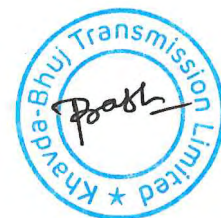
Special Invitee

Chief Engineer (PCD), CEA



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I/28785/2023

Minutes of the 14th meeting of National Committee on Transmission

List of Participants is enclosed at Annex-I.

1 Confirmation of the minutes of the 13th meeting of National Committee on Transmission.

1.1 The minutes of the 13th meeting of NCT held on 12.05.2023 were issued vide CEA letter no CEA-PS-12-13/3/2019-PSPA-II dated 19.05.2023. Comments/observations were not received on the minutes.

1.2 Accordingly, members confirmed the minutes.

2 Status of the transmission schemes noted/approved/recommended to MoP in the 13th meeting of NCT:

2.1 The status of the transmission schemes noted/approved/recommended in the 13th meeting of NCT is tabulated below:

Sl. No.	Name of the Transmission Scheme	Noted/Recommended / Approved	Survey Agency	MoP approval	Remarks
1.	Establishment of State-of the Art Unified Network Management System (U-NMS) for ISTS and State Utility Communication System for Southern Region	Approved	Not Applicable	Not Applicable (Cost of the scheme being less than Rs. 500 Crore)	Under RTM route
2.	Eastern Region Expansion Scheme- XXXVII (ERES-XXXVII)	Approved	Not Applicable	Not Applicable (Cost of the scheme being less than Rs. 500 Crore)	Under RTM route



3 New Transmission Schemes:**3.1 Augmentation of transformation capacity by 1x1500 MVA, 765/400 kV ICT (3rd) at Maheshwaram (PG) substation in Telangana**

3.1.1 As per SRLDC, augmentation of transformation capacity at Maheshwaram by 1x1500 MVA, 765/400 kV ICT is required as existing ICTs (2x1500 MVA) at Maheshwaram (GIS) are over loaded and 'N-1' criterion is not getting satisfied. Additionally, as per the studies carried out as part of the Rolling Plan exercise for the year 2026-27, under N-1 contingency of one ICT, loading on the other is around 114% of the rating and therefore augmentation by 1x1500 MVA, 765/400 kV ICT (3rd) at Maheshwaram is required.

Accordingly, augmentation of transformation capacity at Maheshwaram (PG) by 1x1500 MVA (3rd) for improving reliability and meeting the peak demand of Telangana was discussed and agreed in the 14th CMETS-SR meeting held on 26.12.2022.

3.1.2 After detailed deliberations, augmentation of transformation capacity by 1x1500 MVA (3rd), 765/400 kV ICT at Maheshwaram (PG) substation in Telangana was agreed to be implemented under RTM route by POWERGRID.

3.1.3 Summary of the scheme is given below:

Sl. No.	Name of the scheme and implementation timeframe	Estimated Cost (₹ Crores)	Remarks
1.	Augmentation of transformation capacity by 1x1500 MVA, 765/400 kV ICT (3 rd) at Maheshwaram (PG) substation in Telangana Implementation timeframe: 21 months from the date of allocation	123.12	Approved to be implemented under RTM route by POWERGRID.

3.1.4 Detailed scope of the scheme is given below:

Sl. No.	Scope of the Transmission Scheme	Capacity / Route length
1.	Augmentation by 1x1500 MVA, 765/400 kV ICT at Maheshwaram(PG) S/s	• 765/400 kV, 1500 MVA ICT – 1 No. • 765 kV ICT bays – 1 No. (GIS) • 400 kV ICT bays – 1 No. (GIS) • 400 kV GIS duct along with associated support structure – 710 m (total length for three phases) • 765 kV GIS duct along with associated support structure – 800 m (total length for three phases)



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3.2 Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7 GW)

3.2.1 Transmission system for evacuation of 15 GW power from Khavda RE Park has already been evolved in 3 phases (Phase-I: 3 GW, Phase-II: 5 GW & Phase-III: 7 GW). Phase I and Phase II transmission schemes are under construction and Phase III transmission scheme is under bidding.

3.2.2 Stage-II connectivity applications for 18.605 GW (KPS-I: 9 GW, KPS-II: 3.755 GW & KPS-III: 5.85 GW) have already been received till January, 2023. Considering the rapid pace of connectivity applications being received in Khavda area and request from GPCL vide e-mail dated 23.12.2022 to consider 30 GW RE potential in Khavda for planning the power evacuation system, transmission system for balance 15 GW Khavda REZ has now been planned in two phases (Phase-IV: 7 GW AC & Phase-V: 8 GW HVDC). The present scheme has been planned to enable the evacuation of additional 7 GW RE power from Khavda RE park under Phase IV.

3.2.3 Member Secretary, NCT, stated that the modified scheme as per deliberations in 12th NCT meeting held on 28.03.2023 and meetings held on 20.04.2023 & 09.05.2023 amongst CEA, CTUIL & GRID-INDIA, had been sent by CTUIL to WRPC vide letter dated 12.05.2023 for views/observations within 10 days. However, no views were received from WRPC in this regard.

3.2.4 After detailed deliberations, the transmission scheme was agreed to be implemented subject to views of WRPC. Subsequently, in the 47th WRPC meeting held on 15.06.2023, the subject scheme was deliberated. However, minutes of WRPC meeting are yet to be issued. Details of the packages formulated for implementation of the scheme is given below:

Sl. No.	Name of the scheme	Implementation mode
1.	Part A	TBCB
2.	Part B	TBCB
3.	Part C	TBCB
4.	Part D	TBCB
5.	Part E1	RTM
6.	Part E2	TBCB
7.	Part E3	RTM
8.	Part E4	RTM



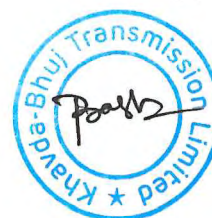
Package wise details of the scheme are given below:

3.2.5 Phase-IV: Part A - Summary

Sl. No.	Name of the transmission scheme and implementation timeframe	Estimated Cost (₹ Crores)	Remarks
1.	Transmission System for Evacuation of Power from potential renewable energy zone in Khavda RE park of Gujarat under Phase-IV (7 GW): Part A Tentative Implementation timeframe: 24 months from SPV transfer and matching with Parts B, C & D of Khavda Ph-IV (7 GW)	4091	Recommended to be implemented through TBCB route.

3.2.6 Detailed scope of Part A Scheme is given below:

S l . N o.	Scope of the Transmission Scheme	Capacity/ Route length
	Creation of 765 kV bus section-II at KPS3 (GIS) along with 765 kV Bus Sectionaliser & 1x330 MVAR, 765 kV Bus Reactors on Bus Section-II Bus section – II shall be created at 765 kV & 400 kV level both with 3x1500 MVA, 765/400 kV ICTs at Bus Section-II	Bus Section-II at KPS3 765 kV Bus Sectionaliser – 1 set 1500 MVA, 765/400 kV ICT – 3 Nos. 330 MVAR, 765 kV Bus Reactor – 1 No. 765 kV reactor bay – 1 No. 765 kV ICT bays – 3 Nos.
	Creation of 400 kV bus Section-II at KPS3 (GIS) along with 400 kV Bus Sectionaliser & 1x125 MVAR, 420 kV Bus Reactors on Bus Section-II and 3 Nos. 400 kV bays at Bus Section-II for RE interconnection	Bus Section-II at KPS3 400 kV Bus Sectionaliser – 1 set 125 MVAR, 420 kV Bus Reactors – 1 No.



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S l o o	Scope of the Transmission Scheme	Capacity/ Route length
		400 kV reactor bay – 1 No. 400 kV ICT bays – 3 Nos. (for ICTs at Sl. 1 above) 400 kV line bays – 3 Nos. (for RE interconnection)
	KPS3 (GIS) – Lakadia (AIS) 765 kV D/C line	Route length: 185 km
	2 Nos. of 765 kV line bays each at KPS3 (GIS) & Lakadia (AIS) for KPS3 (GIS) – Lakadia (AIS) 765 kV D/C line	• 765 kV line bays (GIS) – 2 Nos. (at KPS3 end Bus section-II) • 765 kV line bays (AIS) – 2 Nos. (at Lakadia end)
	±300 MVAR STATCOM with 1x125 MVAR MSC, 2x125 MVAR MSR at KPS3 400 kV Bus section-II	• ±300 MVAR STATCOM (with 1x125 MVAR MSC, 2x125 MVAR MSR) • 400 kV bay – 1 No.
	KPS1 (GIS)– Bhuj PS 765 kV 2 nd D/C line	• Route length: 110 km
	2 Nos. of 765 kV line bays each at KPS1 (GIS) & Bhuj PS for KPS1 (GIS) – Bhuj PS 765 kV D/C line	• 765 kV line bays (GIS) – 2 Nos. (at KPS1 end Bus section-II) • 765 kV line bays (AIS) – 2 Nos. (at Bhuj end)
	330 MVAR switchable line reactors at KPS3 end of KPS3 (GIS) – Lakadia 765 kV D/C line (with NGR bypass arrangement)	• 330 MVAR, 765 kV switchable line reactor- 2 Nos. • Switching equipment for 765 kV line reactor- 2 Nos. • 1x110 MVAR spare switchable reactor unit at KPS3 (GIS) end

Note:

- Bay(s) required for completion of diameter (GIS) in one-and-half breaker scheme, shall also be executed by the TSP.
- TSP of KPS3 shall provide space for work envisaged at Sl. 1, 2, 4, 5 & 8.
- The TSP of the present scheme shall arrange for additional land for installation of STATCOM (with MSC/MSR) as specified at Sl. No. 5 at KPS3 and TSP of KPS3 shall provide space for 1 No. 400 kV bay for termination of STATCOM.
- TSP of KPS1 and Bhuj PS shall provide space for work envisaged at Sl. No. 7.
- The TSP of the present scheme shall arrange for additional land adjoining Lakadia S/s for creation of 2 Nos. 765 kV diameter consisting of 1 main bay & 1 Tie bay (for each diameter)



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in one-and-half breaker AIS scheme, towards implementation of 2 Nos. 765 kV line bays at Lakadia S/s (at Sl. No. 4) associated with KPS3 – Lakadia 765 kV D/c line and the same shall be extendable in future for integration of 2nd main bay (future line with switchable line reactor) for diameter completion.

- vi. The line lengths mentioned above are approximate as the exact length shall be obtained after the detailed survey.
- vii. The implementation timeline mentioned above is tentative. Final Timeline would be indicated in the RfP Document.

3.2.7 Phase-IV: Part B - Summary

Sl. No.	Name of the scheme and implementation timeframe	Estimated Cost (₹ Crores)	Remarks
1.	Transmission System for Evacuation of power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7 GW): Part B Tentative Implementation timeframe: 24 months from SPV transfer and matching with Parts A, C & D of Khavda Ph-IV (7 GW)	4,766	Recommended to be implemented through TBCB route.

3.2.8 Detailed scope of Part B Scheme is given below:

Sl. No.	Scope of the Transmission Scheme	Capacity/ Route length
1	Establishment of 2x1500 MVA, 765/400 kV & 2x500 MVA, 400/220 kV GIS S/s at a suitable location South of Olpad (between Olpad and Ichhapore) with 2x330 MVAR, 765 kV & 1x125 MVAR, 420 kV bus reactors Future Provisions: Space for ➤ 765/400 kV ICT along with bays- 4 Nos. ➤ 765 kV line bays along with switchable line reactors – 8 Nos. ➤ 765 kV Bus Reactor along with bay:	765/400 kV, 1x1500 MVA ICT-2 Nos. (7x500 MVA single phase units including one spare unit) 400/220 kV, 500 MVA ICT – 2 Nos. 765 kV ICT bays- 2 Nos. 400 kV ICT bays- 4 Nos. 220 kV ICT bays- 2 Nos. 220 kV BC bay – 1 No. 330 MVAR, 765 kV bus



	2 Nos. ➤ 765 kV Sectionaliser bay: 1 - set ➤ 400 kV line bays along with switchable line reactor – 8 Nos. ➤ 400/220 kV ICT along with bays - 8 Nos. ➤ 420 kV Bus Reactor along with bay: 3 Nos. ➤ 400 kV Sectionalization bay: 1- set ➤ 220 kV line bays: 18 Nos. ➤ 220 kV Sectionalization bay: 1 set ➤ 220 kV BC: 1 Nos. ➤ Establishment of 2500 MW, $\pm$ 500 kV South Olpad (HVDC) [VSC] terminal station (2x1250 MW)	reactor-2 Nos. 125 MVAR, 420 kV bus reactor-1 No. 765 kV reactor bay- 2 Nos. 765 kV line bay- 4 Nos. 400 kV reactor bay- 1 No. 400 kV line bay- 4 Nos. 110 MVAR, 765 kV, 1-ph reactor (spare unit for line/bus reactor)-1 No.
2	Vadodara (GIS) –South Olpad (GIS) 765 kV D/C line	Route length: 140 km
3	240 MVAR switchable line reactors on each ckt at Vadodara(GIS) end of Vadodara(GIS) –South Olpad (GIS) 765 kV D/C line (with NGR bypass arrangement)	• 240 MVAR, 765 kV switchable line reactor- 2 Nos. • Switching equipment for 765 kV line reactor- 2 Nos. • 1x80 MVAR spare bus reactor available at Vadodara (GIS) to be used as spare
4	2 Nos. of 765 kV line bays at Vadodara (GIS) for Vadodara(GIS) – South Olpad (GIS) 765 kV D/C line	• 765 kV line bays (GIS) – 2 Nos. (at Vadodara end)
5	LILO of Gandhar – Hazira 400 kV D/c line at South Olpad (GIS) using twin HTLS conductor with minimum capacity of 1700 MVA per ckt at nominal voltage	LILO route length ~ 10 km.
6	Ahmedabad – South Olpad (GIS) 765 kV D/c line	Route length: 250 km
7	240 MVAR switchable line reactors on each ckt at Ahmedabad & South Olpad (GIS) end of Ahmedabad – South Olpad (GIS) 765 kV D/c line (with NGR bypass arrangement)	• 240 MVAR, 765 kV switchable line reactor- 4 Nos. [2 for Ahmedabad end and 2 for South Olpad (GIS) end] • Switching equipment for 765 kV line reactor- 4 Nos. [2 for Ahmedabad end and 2 for South Olpad (GIS) end] • 1x80 MVAR, 765 kV 1-ph spare line reactor – 1 No. (for South Olpad end)

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		1x80 MVAR, 765 kV 1-ph spare line reactor being implemented for Lakadia – Ahmedabad line (under Khavda Ph-II Part B scheme) at Ahmedabad S/s to be used as spare
8	2 Nos. of 765 kV line bays at Ahmedabad S/s for Ahmedabad – South Olpad (GIS) 765 kV D/c line	765 kV line bays (AIS) – 2 Nos. (at Ahmedabad end)

Note:

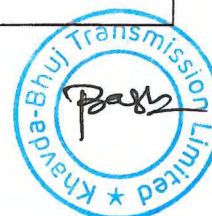
- TSP of Vadodara S/s shall provide space for work envisaged at Sl. No. 3 & 4 given above
- TSP of Ahmedabad S/s shall provide space for work envisaged at Sl. No. 7 & 8 given above
- The line lengths mentioned above are approximate as the exact length shall be obtained after the detailed survey.
- The implementation timeline mentioned above is tentative. Final Timeline would be indicated in the RfP Document.

3.2.9 Phase-IV: Part C - Summary

Sl. No.	Name of the scheme and implementation timeframe	Estimated Cost (₹ Crores)	Remarks
1.	Transmission System for Evacuation of power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7 GW): Part C Tentative Implementation timeframe: 24 months from SPV transfer and matching with Parts A, B & D of Khavda Ph-IV (7 GW)	5,340	Recommended to be implemented through TBCB route.

3.2.10 Detailed scope of Part C Scheme is given below:

Sl. No.	Scope of the Transmission Scheme	Capacity / Route length
1	Establishment of 4x1500 MVA, 765/400 kV & 2x500 MVA, 400/220 kV Boisar-II (GIS) S/s with 2x330 MVAR, 765 kV bus reactors and 2x125 MVAR, 420 kV bus	765/400 kV, 1500 MVA ICT- 4 Nos. (13x500 MVA single phase units)



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S I N O	Scope of the Transmission Scheme	Capacity / Route length
	reactors. (2x1500 MVA, 765/400 kV ICTs shall be on each 400 kV section and 2x500 MVA, 400/220 kV ICTs shall be on 400 kV Bus Section-II. 2x125 MVAR Bus reactors shall be such that one bus reactor is placed on each 400 kV bus section. 400 kV Bus Sectionalizer to be kept under normally OPEN condition) Future Provisions: Space for ➤ 765/400 kV ICT along with bays- 2 No. ➤ 765 kV line bays along with switchable line reactors – 8 Nos. ➤ 765 kV Bus Reactor along with bay: 2 No. ➤ 765 kV Sectionalizer bay: 1 - set ➤ 400 kV line bays along with switchable line reactor – 8 Nos. ➤ 400/220 kV ICT along with bays - 6 Nos. ➤ 420 kV Bus Reactor along with bay: 2 No. ➤ 220 kV line bays: 12 Nos. ➤ 220 kV Sectionalization bay: 1 set ➤ 220 kV BC: 1 No.	including one spare unit) 400/220 kV, 500 MVA ICT – 2 Nos. 765 kV ICT bays- 4 Nos. 400 kV ICT bays- 6 Nos. (2 Nos. on Bus Section-I and 4 Nos. on Bus Section-II) 400 kV Bus Sectionalizer-1 set 220 kV ICT bays- 2 Nos. 220 kV BC bay – 1 No. 330 MVAR, 765 kV bus reactor-2 Nos. 125 MVAR, 420 kV bus reactor-2 Nos. 765 kV reactor bays- 2 Nos. 765 kV line bays- 6 Nos. 400 kV reactor bays- 2 Nos. (one on each bus section) 400 kV line bay- 6 Nos. (4 Nos. on bus Section-I and 2 Nos. on bus Section-II)



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S I N O	Scope of the Transmission Scheme	Capacity / Route length
		110 MVAR, 765 kV, 1-ph reactor (spare unit for line/bus reactor)-1 No.
	South Olpad (GIS) – Boisar-II (GIS) 765 kV D/c line	Route length: 225 km
	2 Nos. of 765 kV line bays at South Olpad (GIS) for termination of South Olpad (GIS) – Boisar-II (GIS) 765 kV D/c line	765 kV line bays (GIS) – 2 Nos. (for South Olpad end)
	240 MVAR switchable line reactors on each ckt at South Olpad (GIS) & Boisar-II (GIS) end of South Olpad (GIS) – Boisar-II (GIS) 765 kV D/c line (with NGR bypass arrangement)	• 240 MVAR, 765 kV switchable line reactor- 4 [2 for Boisar-II (GIS) and 2 for South Olpad (GIS)] • Switching equipment for 765 kV line reactor- 4 (2 for Boisar-II (GIS) and 2 for South Olpad (GIS)) • 1x80 MVAR, 765 kV 1-ph spare line reactor – 1 No. (for Boisar-II end) • 1x80 MVAR, 765 kV 1-ph spare line reactor proposed for Ahmedabad – South Olpad (GIS) 765 kV line (under Khavda Ph-IV Part B scheme) at South Olpad (GIS) S/s to be used as spare
	LILO of Navsari (New) – Padghe (PG) 765 kV D/c line at Boisar-II	LILO route length: 25 km.
	Boisar-II (Sec-II) – Velgaon (MH) 400 kV D/c (Quad ACSR/AAAC/AL59 moose equivalent) line	Route length: 10 km.
	2 Nos. of 400 kV line bays at Velgaon (MH) for termination of Boisar-II – Velgaon (MH) 400 kV D/c (Quad ACSR/AAAC/AL59 moose equivalent) line	400 kV line bays (GIS) – 2 Nos. [for Velgaon (MH) end]
	LILO of Babhaleswar – Padghe (M) 400 kV D/c line at Boisar-II (Sec-I) using twin HTLS conductor with a minimum capacity of 1700 MVA per ckt at	LILO route length: 65 km.



Sl. No.	Scope of the Transmission Scheme	Capacity / Route length
	nominal voltage	
	80 MVAR switchable line reactors at Bosar-II end of Boisar-II – Babhaleswar 400 kV D/c line (with NGR bypass arrangement) formed after above LILO	80 MVAR, 420 kV switchable line reactor including switching equipment- 2 Nos.
	±200 MVAR STATCOM with 2x125 MVAR MSC, 1x125 MVAR MSR at 400 kV bus section-I of Boisar-II and ±200 MVAR STATCOM with 2x125 MVAR MSC, 1x125 MVAR MSR at 400 kV bus section-II of Boisar-II	• ±200 MVAR STATCOM (with MSC/MSR) on 400 kV Section-I • 400 kV bay – 1 No. on Section-I • ±200 MVAR STATCOM (with MSC/MSR) on 400 kV section-II • 400 kV bay – 1 No. on Section-II
	± 300 MVAR STATCOM with 3x125 MVAR MSC, 1x125 MVAR MSR at 400 kV level of Navsari (New)(PG) S/s with 1 No. of 400 kV bay (GIS)	• ±300 MVAR STATCOM (with MSC/MSR) • 400 kV bay – 1 No.

Note:

- Bay(s) required for completion of diameter (GIS) in one-and-half breaker scheme shall also be executed by the TSP.
- MSETCL shall carry out reconductoring of the balance portion of Padghe (M) – Boisar-II 400 kV D/c line (i.e. from LILO point upto Padghe(M)) and shall also carry out corresponding upgradation of 400 kV bays at Padghe (M) as may be required in matching time-frame of the LILO line. MSETCL has confirmed the maximum capacity of the line which can be achieved after reconductoring considering clearances in existing towers of Babhaleswar – Padghe (M) 400 kV D/c line as 1700 MVA per ckt.
- MSETCL shall implement the LILO of both circuits of Boisar-II – Velgaon 220 kV D/c line at Boisar-II (ISTS) S/s along with 4 Nos. 220 kV GIS bays at Boisar-II in matching time-frame of Boisar-II (ISTS) S/s.
- TSP of South Olpad (GIS) S/s shall provide space for work envisaged at Sl. No. 3 & 4.
- MSETCL shall provide space for the work envisaged at Sl. No. 7 at Velgaon S/s.
- TSP of the subject scheme shall implement Inter-tripping scheme on South Olpad (GIS) – Boisar-II (GIS) 765 kV D/c line (for tripping of the switchable line reactor at either end along with the main line breaker).
- The line lengths mentioned above are approximate as the exact length shall be obtained after the detailed survey.
- The implementation timeline mentioned above is tentative. Final Timeline would be indicated in the RfP Document.



3.2.11 Phase-IV: Part D - Summary

Sl. No.	Name of the scheme and implementation timeframe	Estimated Cost (₹ Crores)	Remarks
1.	Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7 GW): Part D Tentative Implementation timeframe: 24 months from SPV transfer and matching with Parts A, B & C of Khavda Ph-IV (7 GW)	3,455	Recommended to be implemented under TBCB route.

3.2.12 Detailed scope of Part D Scheme is given below:

S l o o	Scope of the Transmission Scheme	Capacity/ Route length
1	Establishment of 2x1500 MVA, 765/400 kV & 3x500 MVA, 400/220 kV Pune-III (GIS) S/s with 2x330 MVAR, 765 kV bus reactor and 2x125 MVAR, 420 kV bus reactor. Future Provisions: Space for ➤ 765/400 kV ICT along with bays- 4 No. ➤ 765 kV line bays along with switchable line reactors – 8 Nos. ➤ 765 kV Bus Reactor along with bay: 2 No. ➤ 765 kV Sectionalizer bay: 1 -set ➤ 400 kV line bays along with switchable line reactor – 12 Nos. ➤ 400/220 kV ICT along with bays -5 Nos. ➤ 400 kV Bus Reactor along with bay: 2 No. ➤ 400 kV Sectionalization bay: 1 set ➤ 220 kV line bays: 12 Nos. ➤ 220 kV Sectionalization bay: 1 set ➤ 220 kV BC: 1 No.	765/400 kV, 1500 MVA ICT-2 Nos. (7x500 MVA including one spare unit) 400/220 kV, 500 MVA ICT – 3 Nos. 765 kV ICT bays- 2 Nos. 400 kV ICT bays- 5 Nos. 220 kV ICT bays- 3 Nos. 220 kV BC bay – 1 No. 330 MVAR, 765 kV bus reactor-2 Nos. 125 MVAR, 420 kV bus reactor-2 Nos. 765 kV reactor bay- 2 Nos.



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S N o	Scope of the Transmission Scheme	Capacity/ Route length
	➤ STATCOM (± 300 MVAR) along with MSC (3x125 MVAR) & MSR (1x125 MVAR): alongwith 1 No. 400 kV bay: 1 No. ➤ 80 MVAR, 765 kV, 1-ph reactor (spare unit for line reactor)-1 No.	765 kV line bay- 6 Nos. 400 kV reactor bay- 2 Nos. 400 kV line bay- 2 Nos. 110 MVAR, 765 kV, 1-ph reactor (spare unit for line/ bus reactor)-1 No.
	Boisar-II – Pune-III 765 kV D/c line	Route length: 200 km
	330 MVAR switchable line reactors at Pune-III end of Boisar-II – Pune-III 765 kV D/c line (with NGR bypass arrangement).	• 330 MVAR, 765 kV switchable line reactor- 2 Nos. • Switching equipment for 765 kV line reactor- 2 Nos. • 1x110 MVAR spare bus reactor available at Pune-III (GIS) to be used as spare
	42 Nos. of 765 kV line bays at Boisar-II for termination of Boisar-II – Pune-III 765 kV D/c line	• 765 kV line bays (GIS) – 2 Nos. (for Boisar-II end)
	LILO of Narendra (New) – Pune (GIS) 765 kV D/c line at Pune-III	LILO route length: 10 km.
	330 MVAR switchable line reactors at Pune-III end of Narendra (New) – Pune-III(GIS) 765 kV D/c line (with NGR bypass arrangement).	• 330 MVAR, 765 kV switchable line reactor- 2. • Switching equipment for 765 kV line reactor- 2 • 1x110 MVAR spare bus reactor (1-ph) available at Pune-III (GIS) to be used as spare
	LILO of Hinjewadi-Koyna 400 kV S/c line at Pune-III (GIS) S/s	LILO route length: 40 km.
	80 MVAR, 420 kV switchable Line Reactors on each ckt at Pune-III (GIS) end of Pune-III (GIS) – Koyna 400 kV line formed after above LILO (with	• 80 MVAR, 420 kV switchable line reactor along with switching equipment- 2 Nos.



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Sl. No.	Scope of the Transmission Scheme	Capacity/ Route length
	NGR bypass arrangement).	

Note:

- i. Bay(s) required for completion of diameter (GIS) in one-and-half breaker scheme, shall also be executed by the TSP.
- ii. Logic for Inter-tripping scheme for tripping of the 330 MVAR switchable line reactor along with main line breaker at Pune (GIS) end of Pune (GIS) – Narendra (New) 765 kV D/c line shall be implemented by the owner of the line after LILO of Narendra (New) – Pune (GIS) 765 kV D/c line at Pune-III
- iii. MSETCL shall implement the following 220 kV lines along with 5 Nos. 220 kV GIS bays at Pune-III (GIS) S/s in matching time-frame of Pune-III S/s:
 - a. LILO of both circuits of Jejuri-Phursungi 220 kV D/c line at Pune-III S/s with HTLS conductor (twin zebra equivalent) along with reconductoring of balance line section viz. LILO point to Phursungi and LILO points to Jejuri with HTLS conductor (twin zebra equivalent)
 - b. Nanded City - Pune PG III 220 kV S/c line with HTLS conductor (twin zebra equivalent)
- iv. TSP of Boisar-II S/s shall provide space for work envisaged at Sl. No. 4.
- v. The line lengths mentioned above are approximate as the exact length shall be obtained after the detailed survey.
- vi. The implementation timeline mentioned above is tentative. Final Timeline would be indicated in the RfP Document.

3.2.13 Phase-IV: Part E1 - Summary

Sl. No.	Name of the scheme and implementation timeframe	Estimated Cost (₹ Crores)	Remarks
1.	Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7 GW): Part E1 Implementation timeframe: 24 months from the date of allocation	216	Approved to be implemented under RTM by Adani Transmission Limited (the TSP implementing KPS 1)



3.2.14 Detailed scope of Part E1 Scheme is given below:

Sl. No.	Scope of the Transmission Scheme	Capacity/ Route length
1	Augmentation of transformation capacity at KPS1 (GIS) by 1x1500 MVA, 765/400 kV ICT (8 th) on bus section-I	1500 MVA, 765/400 kV ICT – 1 No. 765 kV bays – 2 Nos. on bus Section-I (including 1 No. bay for Dia completion) 400 kV bays – 2 Nos. on bus section-I (including 1 No. bay for Dia completion)

Note:

- The TSP shall implement one complete diameter consisting of 2 main bays & 1 Tie bay at both 765 kV & 400 kV levels of KPS1 (GIS) for completion of diameter (GIS) in one-and-half breaker scheme.
- Further, TSP of KPS1 shall provide space to carry out the above augmentation work.

3.2.15 Phase-IV: Part E2 - Summary

Sl. No.	Name of the scheme and implementation timeframe	Estimated Cost (₹ Crores)	Remarks
1.	Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7 GW): Part E2 Tentative Implementation timeframe: 21 months from SPV transfer	697	Recommended to be implemented under TBCB route.



3.2.16 Detailed scope of Part E2 Scheme is given below:

Sl. No.	Scope of the Transmission Scheme	Capacity/ Route length
	Augmentation of transformation capacity at KPS2 (GIS) by 2x1500 MVA, 765/400 kV ICT on Bus section-I (5 th & 6 th) & 2x1500 MVA, 765/400 kV ICT on Bus section-II (7 th & 8 th) & 2 Nos. 400 kV bays at Bus Section-I for RE interconnection and 3 Nos. 400 kV bays at Bus Section-II for RE interconnection	1500 MVA, 765/400 kV ICT – 4 Nos. 765 kV bays – 4 Nos. [2 Nos. complete Dia for 2 ICTs (one on each bus section) and balance 2 ICTs to be terminated in spare bays (one on each section)] 400 kV bays– 10 Nos. [4 Nos. ICT bays (2 on each section) & 5 Nos. line bays (2 on bus section-I & 3 on bus section-II) along with 1 No. bay on Bus Section-II for Dia completion]

Note:

- The TSP shall implement two complete diameters (1 on Bus Section-I & 1 on bus section-II) at 765 kV level of KPS2 (GIS) consisting of 2 Main Bays & 1 Tie Bay required for completion of diameter (GIS) in one-and-half breaker scheme.
- The TSP shall implement five complete diameters (2 on Bus Section-I & 3 on Bus Section-II) at 400 kV level of KPS2 (GIS) consisting of 2 Main Bays & 1 Tie bay required for completion of diameter (GIS) in one-and-half breaker scheme.
- Further, TSP of KPS2 shall provide space to carry out the above augmentation work.
- 2 Nos. 400 kV bays at Bus Section-I for RE interconnection and 1 No. 400 kV bays at Bus Section-II for RE interconnection are already under implementation at KPS2.
- The implementation timeline mentioned above is tentative. Final Timeline would be indicated in the RfP Document.

3.2.17 Phase-IV: Part E3 - Summary

Sl. No.	Name of the scheme and implementation timeframe	Estimated Cost (₹ Crores)	Remarks
1.	Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7 GW): Part E3	216	Approved to be implemented under RTM by the TSP implementing KPS 3.



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	Implementation timeframe: 24 months from date of allocation		
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3.2.18 Detailed scope of Part E3 Scheme is given below:

No.	Scope of the Transmission Scheme	Capacity/ Route length
	Augmentation of transformation capacity at KPS3 (GIS) by 1x1500 MVA, 765/400 kV ICT (7 th) on Bus section-I	1500 MVA, 765/400 kV ICT – 1 No. 765 kV bays – 2 Nos. on Bus Section-I (including 1 No. bay for Dia completion) 400 kV bays – 2 Nos. on Bus section-I (including 1 No. bay for Dia completion)

Note:

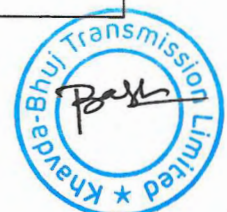
1. The TSP shall implement one complete diameter consisting of 2 Main Bays & 1 Tie Bay at both 765 kV & 400 kV levels of KPS3 (GIS) required for completion of diameter (GIS) in one-and-half breaker scheme.
2. Further, TSP of KPS3 shall provide space to carry out above augmentation work.

3.2.19 Phase-IV: Part E4 - Summary

Sl. No.	Name of the scheme and implementation timeframe	Estimated Cost (₹ Crores)	Remarks
1.	Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7 GW): Part E4 Implementation timeframe: 24 months from date of allocation	235	Approved to be implemented under RTM route by POWERGRID

3.2.20 Detailed scope of Part E4 Scheme is given below:

Sl. No.	Scope of the Transmission Scheme	Capacity/ Route length
1.	Augmentation of transformation capacity at Padghe (PG) (GIS) by 1x1500 MVA,	1500 MVA, 765/400 kV ICT – 1



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Sl. No.	Scope of the Transmission Scheme	Capacity/ Route length
	765/400 kV ICT (4 th)	No. 765 kV bays – 2 Nos. (including 1 No. bay for Dia completion) 400 kV bays – 2 Nos. (including 1 No. bay for Dia completion) 765 kV GIB Duct (single phase) – 510 m (approx.) for three phases 400 kV GIB Duct (single phase) – 500 m (approx.) for three phases

Note:

- i. POWERGRID shall implement one complete diameter consisting of 2 main bays & 1 Tie bay at both at 765 kV & 400 kV levels Padghe (PG)(GIS) required for completion of diameter (GIS) in one-and-half breaker scheme.

3.3 Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-V (8 GW)

3.3.1 The Phase V (HVDC) transmission scheme has been planned for evacuation of additional 8 GW RE power from Khavda RE park.

3.3.2 Member Secretary, NCT, stated that the modified scheme as per deliberations in 12th NCT meeting held on 28.03.2023 and meetings held on 20.04.2023 & 09.05.2023 amongst CEA, CTUIL & GRID-INDIA had been by CTUIL to WRPC vide letter dated 12.05.2023 for views/observations within 10 days. However, no views were received from WRPC in this regard.

3.3.3 After detailed deliberations, the following was agreed w.r.t. the transmission schemes, subject to views/observations of WRPC. Subsequently, in the 47th WRPC meeting held on 15.06.2023, the subject scheme was deliberated. Minutes of WRPC meeting is to be issued.

Sl. No.	Name of the scheme	Mode of implementation
1.	Part A	TBCB



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2.	Part A1	RTM
3.	Part B	To be reviewed.
4.	Part C	TBCB

3.3.4 Phase-V: Part A- Summary

Sl. No.	Name of the scheme and implementation timeframe	Estimated Cost (₹ Crores)	Remarks
1.	Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-V (8 GW): Part A Tentative Implementation timeframe: 48 months for Bipole-1 (2x1500 MW) and 54 months for Bipole-2 (2x1500 MW)	24,819	Recommended to be implemented through TBCB route.

3.3.5 Detailed scope of Part A Scheme is given below:

Sl. No.	Scope	Capacity/ Route length
1.	Establishment of 6000 MW, $\pm$ 800 kV KPS2 (HVDC) [LCC] terminal station (4x1500 MW) along with associated interconnections with 400 kV HVAC Switchyard*.	6000 MW, $\pm$ 800 kV KPS2 (HVDC) [LCC] Terminal station
2.	Establishment of 6000 MW, $\pm$ 800 kV Nagpur (HVDC) [LCC] terminal station (4x1500 MW) along with associated interconnections with 400 kV HVAC Switchyard*	6000 MW, $\pm$ 800 kV Nagpur (HVDC) [LCC] terminal station
3.	$\pm$ 800 kV HVDC Bipole line (Hexa lapwing) between KPS2 (HVDC) and Nagpur (HVDC) (1200 km) (with Dedicated Metallic Return) (capable to evacuate 6000 MW with overload as specified)	Route length: 1200 km.
4.	Establishment of 6x1500 MVA, 765/400 kV ICTs at Nagpur-S/s along with 2x330 MVAR (765 kV) & 2x125 MVAR, 420 kV bus reactors along with associated interconnections with HVDC Switchyard*. The 400 kV bus shall be established in 2 sections through 1 set of 400 kV bus sectionaliser so that 3x1500 MVA ICTs are placed in each section. The bus sectionaliser shall be normally closed and may be opened based on Grid	○ 765/400 kV, 1500 MVA ICT-6 (3 on each 400 kV section) (19 single phase units including one spare unit) ○ 765 kV ICT bays- 6 Nos. ○ 400 kV ICT bays- 6 Nos. (3 on each section) ○ 330 MVAR 765 kV bus reactor-2 Nos. ○ 125 MVAR 420 kV bus



Sl. No.	Scope	Capacity/ Route length
	requirement. Future Provisions at Nagpur: Space for: ○ 765/400 kV, 1500 MVA ICT- 4 (1 on 400 kV bus section-II & 3 on future 400 kV bus section-III) ○ 765 kV line bays along with switchable line reactors – 10 Nos. ○ 765 kV Bus Reactor along with bay: 2 No. ○ 765 kV Sectionalizer bay: 1 -set ○ 400 kV line bays along with switchable line reactor – 12 Nos. ○ 400 kV Bus sectionaliser- 1 Set ○ 400/220 kV ICT along with bays -9 Nos. (3 Nos. on 400 kV bus sections II & 6 Nos. on future bus section-III) ○ 400 kV Bus Reactor along with bay: 4 No. (1 each on 400 kV bus sections I & II and 2 on future 400 kV bus section-III) ○ 220 kV line bays: 16 Nos. ○ 220 kV Sectionalization bay: 2 set ○ 220 kV BC & TBC: 3 Nos. ○ 80 MVAR, 765 kV, 1-ph reactor (spare unit for line reactor)-1	reactor-2 Nos. (one on each section) ○ 765 kV reactor bay- 2 Nos. ○ 765 kV line bay- 4 Nos. ○ 400 kV reactor bay- 2 Nos. (one on each section) ○ 400 kV Bus sectionaliser - 1 Set ○ 110 MVAR, 765 kV, 1-ph reactor (spare unit for line/bus reactor) - 1 No.
5.	LILO of Wardha – Raipur 765 kV one D/c line (out of 2xD/c lines) at Nagpur	LILO route length: 30 km.
6.	Installation of 240 MVAR switchable line reactor at Nagpur end on each ckt of Nagpur – Raipur 765 kV D/c line	• 240 MVAR, 765 kV switchable line reactors- 2 Nos. (at Nagpur end) • Switching equipment for 765 kV line reactor- 2 Nos. (at Nagpur end) • 80 MVAR, 765 kV, 1-ph reactor (spare unit for line reactor)-1 No.

* The 400 kV interconnections (along with all associated equipment/ bus extension, etc.) between HVDC & HVAC switchyards shall be implemented by the TSP

Note:

- i. The 2x1500 MW poles shall emanate from 400 kV bus section 1 of KPS2 and terminate at bus section 1 of Nagpur. Similarly, the other 2x1500 MW poles shall emanate from 400 kV bus section 2 of KPS2 and terminate at bus section 2 of Nagpur.



- ii. HVDC System will be designed considering 100% power reversal capability. The rated power transmission capacity as well as the rated transmission voltage shall be defined and guaranteed at the rectifier end of the AC yard.
- iii. TSP of KPS2 shall provide space for the establishment of the HVDC system as per above scope.
- iv. The line lengths mentioned above are approximate as the exact length shall be obtained after the detailed survey.
- v. The implementation timeline mentioned above is tentative. Final Timeline would be indicated in the RfP Document.

3.3.6 Phase-V: Part A1- Summary

Sl. No.	Name of the scheme and implementation timeframe	Estimated Cost (₹ Crores)	Remarks
1.	Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-V (8 GW): Part A1 Implementation timeframe: Matching with implementation of Khavda Phase-V Part A scheme viz. Bipole-1 (2x1500 MW) $\pm$ 800 kV Nagpur (HVDC) [LCC] which is 48 months from SPV transfer.	21	Approved to be implemented under RTM by POWERGRID i.e. owner of Wardha S/s.

3.3.7 Detailed scope of Part A1 is given below:

Sl. No.	Scope	Capacity/ Route length
1.	Conversion of 330 MVAR Fixed LR at Wardha (on each ckt of Wardha – Raipur 765 kV D/c line being LILOed at Nagpur) into Bus Reactors at Wardha S/s	765 kV reactor bays- 2 Nos. & Conversion of 330 MVAR Fixed LR at Wardha (on each ckt of Wardha – Raipur 765 kV D/c line being LILOed at Nagpur) into Bus Reactors through creation of 2 new diameters and shifting of Reactors

Note:

- i. POWERGRID shall implement two new diameters consisting of 1 main bay & 1 Tie bay at 765 kV level of Wardha S/s required in one-and-half breaker AIS scheme for termination of 2 Nos. of 330 MVAR Bus reactors & the same shall be extended in future for integration of 2nd main bay (future line with switchable line reactor) for diameter completion.



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3.3.8 **Phase-V: Part B:** Augmentation of transformation capacity at KPS2 (GIS) by 1x1500 MVA, 765/400 kV ICT on Bus Section I (9th) and at KPS 3 (GIS) by 1x1500 MVA, 765/400 kV ICT on Bus Section-II (8th)

It was deliberated that the above ICTs would be required in the matching timeframe of VSC based HVDC (Part C) and hence would be reviewed and taken up subsequently.

3.3.9 CTUIL had proposed ± 525 kV VSC based HVDC system. It was deliberated that ± 500 kV HVDC systems are already existing in the country and tested tower design for ± 500 kV systems are already available. In order to reduce the time involved in engineering and testing, it was opined that already proven design of ± 500 kV may be adopted in this case also. Hence, the rating of HVDC system was revised to ± 500 kV, 2500 MW.

3.3.10 Summary of Phase-V: Part C scheme is given below:

Sl. No.	Name of the scheme and implementation timeframe	Estimated Cost (₹ Crores)	Remarks
1.	Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-V (8 GW): Part C Tentative Implementation timeframe: 48 months from SPV transfer	12,000	Recommended to be implemented through TBCB route.

3.3.11 Detailed scope of Part C is given below:

Sl. No.	Scope	Capacity/ Route length
1.	Establishment of 2500 MW, ± 500 kV KPS3 (HVDC) [VSC] terminal station (2x1250 MW) at a suitable location near KPS3 substation with associated interconnections with 400 kV HVAC Switchyard*	2500 MW, ± 500 kV KPS3 (HVDC) [VSC] Terminal station
2.	Establishment of 2500 MW, ± 500 kV South Olpad (HVDC) [VSC] terminal station (2x1250 MW) along with associated interconnections with 400 kV HVAC Switchyard of South Olpad S/s*	2500 MW, ± 500 kV South Olpad (HVDC) [VSC] terminal station
3.	Establishment of KPS3 (HVDC) S/s along with 2x125 MVAR, 420 kV bus reactors along with associated interconnections with HVDC Switchyard*. The 400 kV bus shall be established in 2 sections through 1 set of 400 kV bus sectionaliser to be kept normally OPEN. 400/33 kV, 2x50 MVA transformers for	○ 400/33 kV, 1x50 MVA ICT along with bays- 2 Nos. ○ 125 MVAR 420 kV bus reactor-2 Nos. (one on each section) ○ 400 kV reactor bay- 2 Nos. (one on each section)



Sl. No.	Scope	Capacity/ Route length
	exclusively supplying auxiliary power to HVDC terminal. MVAR Future Provisions at KPS3 (HVDC) S/s Space for: ○ 400 kV line bays – 6 Nos. (3 on each section) ○ 400 kV reactor bay- 2 Nos. (one on each section)	○ 400 kV Bus sectionaliser- 1 Set
4.	KPS3 – KPS3 (HVDC) 400 kV 2xD/c (Quad ACSR/AAAC/AL59 moose equivalent) line along with the line bays at both substations	Route length- 2 km 400 kV GIS line bays - 4 Nos. at KPS3 (2 Nos. on each bus section) 400 kV GIS line bays - 4 Nos at KPS3 (HVDC) (2 Nos. on each bus section)
5.	±500 kV HVDC Bipole line between KPS3 (HVDC) and South Olpad (HVDC) (with Dedicated Metallic Return) (capable to evacuate 2500 MW)	Route length: 600 km

* The 400 kV interconnections (along with all associated equipment/ bus extension, etc.) between HVDC & HVAC switchyards shall be implemented by the TSP

Note:

- The 1250 MW pole-1 shall emanate from 400 kV bus section 1 of KPS3 (HVDC) and terminate at South Olpad S/s. Similarly, the 1250 MW pole-2 shall emanate from 400 kV bus section 2 of KPS3 (HVDC) and terminate at South Olpad S/s.
- HVDC System will be designed with 100% power reversal capability as well as black start, automatic grid restoration & dynamic reactive power support capability.
- The rated power transmission capacity as well as the rated transmission voltage shall be defined and guaranteed at the rectifier end of the AC yard.
- TSP of KPS3 shall provide space for scope at Sl. No. 4 as per the above scope
- TSP of South Olpad S/s shall provide space for scope at Sl. No. 2 as per above scope
- The line lengths mentioned above are approximate as the exact length shall be obtained after the detailed survey.
- The implementation timeline mentioned above is tentative. Final Timeline would be indicated in the RfP Document.



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3.4 400 kV Western Region Network Expansion scheme in Kallam area of Maharashtra

3.4.1 Transmission System for evacuation of power from RE Projects in Osmanabad area (1 GW) in Maharashtra is presently under implementation by Kallam Transmission Ltd. (expected by Oct'23). Further, augmentation of transformation capacity at Kallam PS by 2x500 MVA, 400/220 kV ICTs (3rd & 4th) along with 220 kV bays for RE interconnection is also under implementation which shall enable injection of additional 1 GW at 220 kV level of Kallam PS.

Additional connectivity has also been granted to M/s Torrent at 400 kV level (1 No. bay) and hence there is a cumulative requirement of evacuation of about 3.25 GW (2 GW at 220 kV level and 1.25 GW at 400 kV level) from Kallam PS. The subject Transmission system shall enable evacuation of upto 3.25 GW power from Kallam PS.

3.4.2 CTUIL stated that generally a minimum implementation schedule of 24 months is specified for transmission schemes. However, as a special case, considering the small length of LILO line and no visible forest/wildlife involvement, reduced implementation time-frame of 18 months may be specified in this case in order to match the commissioning of transmission scheme and associated RE generation.

3.4.3 After detailed deliberations, it was decided that the transmission scheme Western Region Network Expansion scheme in Kallam area of Maharashtra, will be implemented under TBCB route with an implementation timeframe of 18 months.

3.4.4 Summary of the scheme is as given below:

Sl. No.	Name of the scheme and implementation timeframe	Estimated Cost (₹ Crores)	Remarks
1.	Western Region Network Expansion scheme in Kallam area of Maharashtra. Tentative Implementation timeframe: 18 months from SPV transfer	160	Approved to be implemented through TBCB route.

3.4.5 Detailed scope of the scheme is given below:

Scope of the Transmission Scheme	Capacity/ Route length
LILO of both circuits of Parli(M) – Karjat(M)/Lonikand-II (M) 400 kV D/c	LILO route length~ 15 km.



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	line (twin moose) at Kallam PS	
	24 Nos. 400 kV line bays at Kallam PS for LILO of both circuits of Parli(M) – Karjat(M)/Lonikand-II(M) 400 kV D/c line (twin moose) at Kallam PS	400 kV line bays (AIS) – 4 Nos. (for Kallam PS end)
	63 MVAR, 420 kV switchable line reactor (with NGR bypassing arrangement) on each ckt at Kallam PS end of Karjat – Kallam 400 kV D/c line (~140km.)	63 MVAR, 420 kV switchable line reactor including Switching equipment - 2 Nos. (at Kallam end)

Note:

- TSP of Kallam PS (Kallam Transmission Ltd.) shall provide requisite space at Kallam PS for above scope of work
- The 50 MVAR fixed line reactor on each ckt at Parli (M) end of Kallam – Parli (M) 400 kV D/c line shall be converted into switchable (with NGR bypass arrangement & provision of inter-tripping scheme to trip the line reactors along with the main line breakers) by MSETCL in matching time-frame of the above scheme. MSETCL vide email dated 08.06.2023 has informed that conversion of fixed 50 MVAR line reactor at 400 kV Parli (M) (Girwali) end into switchable reactor is feasible.
- The line lengths mentioned above are approximate as the exact length shall be obtained after the detailed survey.
- The implementation timeline mentioned above is tentative. Final Timeline would be indicated in the RfP Document.



3.5 Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-2: 5.5 GW) (Jaisalmer/Barmer Complex)

- 3.5.1 The transmission scheme was earlier proposed for evacuation of about 7.5 GW power from Jaisalmer/Barmer Complex. The scheme was deliberated in the 12th NCT meeting held on 24.03.23. In the meeting, various issues like system strength (SCR), requirement of Barmer-I PS as well as high angular separation in the proposed 765 kV Jalore-Mandsaur D/C (length 320 kms) inter-regional transmission line were raised. Subsequently, various joint study meetings were held for review and phasing of transmission scheme among CEA, CTUIL and GRID-INDIA and revised studies were carried out.
- 3.5.2 Accordingly, revised studies were carried out incorporating the increased electricity demand of Rajasthan as suggested by Grid-India, and it was observed that the transmission system was adequate for evacuation of about 5.5 GW RE power (solar) in summer & winter scenario.
- 3.5.3 The modified transmission scheme was discussed and agreed in the 65th NRPC meeting held on 21.04.23. The scheme was further agreed in the 46th WRPC meeting held on 03.02.23.
- 3.5.4 Further, transmission scheme for evacuation of power from Neemuch/Mandsaur 2 GW WEZ was proposed as transmission system in Western Region whereas creation of Mandsaur 765 kV S/s was envisaged as a part of Rajasthan REZ Ph-IV (Part-2) Scheme. As deliberated in the 12th NCT meeting, it was decided to combine the transmission scheme for Neemuch/Mandsaur with Rajasthan Ph-IV Part- C Scheme which involves the creation of 765 kV Mandsaur S/s.
- 3.5.5 GRID-INDIA requested to review the reactive compensation of Sirohi PS - Rishabdeo 765 kV D/c line (170 km) and Rishabdeo - Mandsaur 765 kV D/c (160 km) line as reactive compensation seemed to be on the higher side. CTUIL stated that with the proposed line length reactive compensation on Sirohi PS- Rishabdeo 765 kV D/c line is about 73% and Rishabdeo-Mandsaur 765 kV D/c is about 78%. CTUIL also mentioned that in view of high voltages in night off-peak scenario specially for RE evacuation lines, reactive compensation is to be kept adequate to address reactive management issues, however, it was observed that the reactive compensation on Rishabdeo-Mandsaur 765 kV D/c line is about 78% which has some scope for reduction. Grid-India stated that if possible, reactive compensation of Rishabdeo-Mandsaur 765 kV D/c line may be reduced. Hence, it was decided that 330 MVAR line reactor at Rishabdeo end on above line may be replaced with 240 MVAR reactor.

3.5.6 After detailed deliberations, the following was decided w.r.t. the transmission schemes:

Sl. No.	Scheme	Remarks
1.	Part A	TBCB
2.	Part B	TBCB

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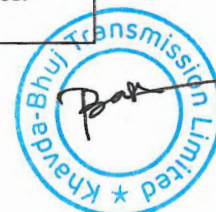
3.	Part C	Scheme of 2 GW Neemuch / Mandsaur to be merged with Part C. Combined scheme to be implemented under TBCB.
4.	Part D	TBCB
5.	Part E	TBCB
6.	Part F1	Part F1 and F2 to be combined.
7.	Part F2	Combined scheme (Part F i.e. Part F1+F2) to be implemented under TBCB.
8.	Part G	Deferred. To be taken up based on GIB clearance of dedicated transmission line associated with RE generation at Fatehgarh-II PS along with GIB clearance of Fatehgarh-II PS- Bhadla-III PS 400 kV D/C line
9.	Part H1	TBCB
10.	Part H2	RTM

3.5.7 Part A: Summary

Sl. No.	Name of the scheme and implementation timeframe	Estimated Cost (₹ Crores)	Remarks
1.	Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-2: 5.5 GW) (Jaisalmer/Barmer Complex): Part A Tentative Implementation timeframe: 24 months from SPV transfer	2,206	Recommended to be implemented through TBCB route.

3.5.8 Detailed scope of Part A scheme is given below:

Sl. No.	Scope of the Transmission Scheme	Capacity/ Route length
1	Establishment of 4x1500 MVA, 765/400 kV & 5x500 MVA, 400/220 kV Fatehgarh-IV (Section-2) Pooling Station along with 2x240 MVAR (765 kV) Bus Reactor & 2x125 MVAR (420 kV) Bus Reactor [Future space provisions already approved at Fatehgarh-IV in 8 th NCT meeting dated 25.03.22 would be utilized for the present scheme]	765/400 kV, 1500 MVA ICT- 4 Nos. (13x500 MVA including one spare unit) 765 kV ICT bays- 4 Nos. 240 MVAR, 765 kV Bus Reactor- 2 Nos. (7x80 MVAR including one spare unit) 765 kV Bus reactor bays-2 Nos. 765 kV line bays - 4 Nos. [for LILO of Fatehgarh-III - Beawer 765 kV D/c (2nd) line at Fatehgarh-IV (Section-2) PS] 400/220 kV, 500 MVA ICT -5 Nos. 400 kV ICT bays- 9 Nos. 400 kV line bays - 2 Nos. [For Fatehgarh-IV (Sec-2) - Bhinmal (PG) D/c line] 125 MVAR, 420 kV Bus Reactor-2 Nos. 400 kV Bus reactor bays- 2 Nos.



Sl. No.	Scope of the Transmission Scheme	Capacity/ Route length
		400 kV Sectionalisation bay: 1 set 220 kV ICT bays- 5 Nos. 220 kV line bays: 6 Nos. (for RE connectivity) 220 kV BC (2 Nos.) and 220 kV TBC (2 Nos.) 220 kV Sectionalisation bay: 1 set
2	Fatehgarh-IV (Section-2) PS – Bhinmal (PG) 400 kV D/c line (Twin HTLS) along with 50 MVAR switchable line reactor on each ckt at each end	Route Length: 200 km 50 MVAR, 420 kV switchable line reactors at Fatehgarh-IV (Section-2) PS – 2 Nos. 50 MVAR, 420 kV, switchable line reactors at Bhinmal (PG) – 2 Nos. - Switching equipment for 420 kV, 50 MVAR switchable line reactors at Fatehgarh-IV (Section-2) PS – 2 Nos. - Switching equipment for 420 kV, 50 MVAR switchable line reactors at Bhinmal (PG) – 2 Nos.
3	LILO of both ckts of 765 kV Fatehgarh-III- Beawar D/c line (2nd) at Fatehgarh-IV (Section-2) PS along with 330 MVAR switchable line reactor at Fatehgarh-IV PS end of each ckt of 765 kV Fatehgarh-IV-Beawar D/c line (formed after LILO)	LILO length: 15 km 330 MVAR, 765 kV switchable line reactors at Fatehgarh-IV (Section-2) PS – 2 Nos. - Switching equipment for 330 MVAR, 765 kV switchable line reactors at Fatehgarh-IV (Section-2) PS – 2 Nos. 110 MVAR (765 kV) spare reactor single phase unit at Fatehgarh-IV (Section-2) PS end – 1 No.
4	2 Nos. of 400 kV line bays at Bhinmal (PG)	400 kV line bays - 2 Nos.

Note:

- Transmission system for evacuation of about 2 GW RE power from REZ in Rajasthan (20 GW) under Phase-III Part A1 at Fatehgarh-IV (Section-1) is under bidding.
- Transmission system under Phase-IV (Part 2) is for evacuating 4-5 GW RE potential at Fatehgarh-IV (Section 2), which is utilising the future provision (approved in 8th NCT meeting dated 25.03.22) at Fatehgarh-IV approved under Phase-III scheme.
- The line lengths mentioned above are approximate as the exact length shall be obtained after the detailed survey
- POWERGRID to provide space for 2 Nos. of 400 kV line bays at Bhinmal (PG) along with the space for switchable line reactors without any cost implications.
- Implementation of A, B, C, D, E, F, H1, H2 packages shall be aligned
- Switchable line reactors to be implemented with NGR bypass arrangement.
- The implementation timeline mentioned above is tentative. Final Timeline would be indicated in the RfP Document.



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3.5.9 Part B: Summary

Sl. No.	Name of the scheme and implementation timeframe	Estimated Cost (₹ Crores)	Remarks
1.	Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-2: 5.5 GW) (Jaisalmer/Barmer Complex): Part B Tentative Implementation timeframe: 24 months from SPV transfer	3,279	Recommended to be implemented through TBCB route.

3.5.10 Detailed scope of Part B scheme is given below:

Sl. No.	Scope of the Transmission Scheme	Capacity/ Route length
1	Establishment of 2x1500 MVA, 765/400 kV Substation at suitable location near Sirohi along with 2x240 MVAR (765 kV) & 2x125 MVAR (420 kV) Bus Reactor Future provisions: Space for • 765/400 kV ICT along with bays- 4 Nos. • 765 kV line bays along with switchable line reactors – 10 Nos. • 765 kV Bus Reactor along with bay: 1 Nos. • 400 kV line bays along with switchable line reactor –4 Nos. • 400 kV line bays –4 Nos. • 400 kV Bus Reactor along with bay: 1 No. • 400 kV Sectionalization bay: 2 sets • 400/220 kV ICT along with bay - 6 Nos. • 220 kV line bays -10 Nos. • 220 kV Sectionalization bay: 2 sets • 220 kV BC (3 Nos.) & TBC (3 Nos.) • STATCOM (2x±300 MVAR) along with MSC (4x125 MVAR) & MSR (2x125 MVAR) along with two number 400 kV bays.	• 765/400 kV, 1500 MVA ICT- 2 Nos. (7x500 MVA including one spare unit) • 765 kV ICT bays-2 Nos. • 240 MVAR, 765 kV Bus Reactor-2 Nos. (7x80 MVAR including one spare unit) • 765 kV Bus reactor bays-2 Nos. • 765 kV line bays- 2 Nos. [for D/c line to Fatehgarh-IV (Section-2) PS] • 400 kV ICT bays- 2 Nos. • 400 kV line bays - 2 Nos. [for D/c line to Chittorgarh (PG) S/s] • 125 MVAR, 420 kV Bus Reactor-2 Nos. • 400 kV Bus reactor bays- 2 Nos.
2	Fatehgarh-IV (Section-2) PS – Sirohi PS 765 kV D/c line along with 240 MVAR switchable line reactor for each circuit at each end	Route Length – 240 km • 765 kV, 240 MVAR switchable line reactors at Fatehgarh-IV (Section-2) PS – 2 Nos. • 765 kV, 240 MVAR switchable line reactors



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Sl. No.	Scope of the Transmission Scheme	Capacity/ Route length
		at Sirohi PS- 2 Nos. • Switching equipment for 765 kV, 240 MVAR switchable line reactors at Fatehgarh-IV (Section-2) PS - 2 Nos. • Switching equipment for 765 kV, 240 MVAR switchable line reactors at Sirohi PS - 2 Nos.
3	Sirohi PS-Chittorgarh (PG) 400 kV D/c line (Quad) along with 80 MVAR switchable line reactor for each circuit at Sirohi PS end	Route Length ~160 km • 420 kV, 80 MVAR switchable line reactors at Sirohi PS - 2 Nos. • Switching equipment for 420 kV, 80 MVAR switchable line reactors at Sirohi PS - 2 Nos.
4	2 No. of 400 kV line bays at Chittorgarh (PG) S/s	400 kV line bays at Chittorgarh (PG) S/s - 2 Nos.
5	2 No. of 765 kV line bays at Fatehgarh-IV (Section-2) PS	765 kV line bays at Fatehgarh-IV (Section-2) PS - 2 Nos.

Note:

- The line lengths mentioned above are approximate as the exact length shall be obtained after the detailed survey.
- POWERGRID to provide space for 2 Nos. of 400 kV line bays at Chittorgarh (PG).
- Developer of Fatehgarh-IV S/s (Section-2) to provide space for 2 Nos. of 765 kV line bays at Fatehgarh-IV(Section-2) PS along with the space for switchable line reactor
- Implementation of A, B, C, D, E, F, H1, H2 packages shall be aligned
- Switchable line reactors to be implemented with NGR bypass arrangement.
- The implementation timeline mentioned above is tentative. Final Timeline would be indicated in the RfP Document.

3.5.11 Part C: Summary

Sl. No.	Name of the scheme and implementation timeframe	Estimated Cost (₹ Crores)	Remarks
1.	Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-2: 5.5 GW) (Jaisalmer/Barmer Complex): Part C Tentative Implementation timeframe: 24 months from SPV transfer	2,708	Recommended to be implemented through TBCB route.



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3.5.12 Detailed scope of Part C scheme is given:

S N o	Scope of the Transmission Scheme	Capacity/ Route length
	Establishment of 3x1500 MVA, 765/400 kV & 5x500 MVA, 400/220 kV Mandsaur Pooling Station along with 2x330 MVAR (765 kV) Bus Reactors & 2x125 MVAR, 420 kV Bus Reactor Future Provisions: Space for: • 765/400 kV ICT along with bays- 3 No. • 765 kV line bays along with switchable line reactors – 12 Nos. • 765 kV Bus Reactor along with bay: 2 No. • 765 kV Sectionalizer bay: 1 -set • 400 kV line bays along with switchable line reactor – 12 Nos. • 400/220 kV ICT along with bays -5 Nos. • 400 kV Bus Reactor along with bay: 2 No. • 400 kV Sectionalization bay: 1- set • 220 kV line bays: 11 Nos. • 220 kV Sectionalization bay: 1 set • 220 kV BC and TBC: 1 Nos. • STATCOM ($\pm$ 300 MVAR) along with MSC (2x125 MVAR) & MSR (1x125 MVAR) along with one 400 kV bay.	765/400 kV, 1500 MVA ICT – 3 Nos. (10x500 MVA single phase units including one spare unit) 400/220 kV, 500 MVA ICT – 5 Nos. (3 Nos. on 220 kV bus section-1 & 2 Nos. on 220 kV bus section-2) 765 kV ICT bays – 3 Nos. 400 kV ICT bays – 8 Nos. 330 MVAR 765 kV bus reactor-2 Nos. (7x110 MVAR single phase units including one spare unit) 765 kV bus reactor bay- 2 Nos. 765 kV line bay- 2 Nos. (for Indore line) 80 MVAR, 765 kV, 1-ph reactor (spare unit)-1 No. 125 MVAR, 420 kV bus reactor-2 Nos. 400 kV reactor bay- 2 Nos. 220 kV ICT bays – 5 Nos. 220 kV line bays – 7 Nos. (4 Nos. on bus section-1 and 3 Nos. on bus section-2) 220 kV Bus Sectionalizer – 1 set 220 kV TBC bay – 2 Nos. 220 kV BC bay – 2 Nos.
	Mandsaur PS – Indore(PG) 765 kV D/c Line	Route Length ~ 200 km
	2x330 MVAR switchable line reactor (SLR) on each ckt at Mandsaur end of Mandsaur PS – Indore(PG) 765 kV D/c Line	• 330 MVAR, 765 kV switchable line reactor- 2 Nos. • Switching equipment for 765 kV line reactor- 2 Nos.
	2 Nos. of 765 kV line bays at Indore(PG) for termination of Mandsaur PS – Indore(PG) 765 kV D/c Line	• 765 kV line bays – 2 Nos. (for Indore (PG) end)

Note:

- The line lengths mentioned above are approximate as the exact length shall be obtained after detailed survey
- POWERGRID to provide space for 2 Nos. of 765 kV line bays at Indore S/s



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- iii. Implementation of A, B, C, D, E, F, H1, H2 packages shall be aligned
- iv. Switchable line reactors to be implemented with NGR bypass arrangement
- v. The implementation timeline mentioned above is tentative. Final Timeline would be indicated in the RfP Document.

3.5.13 Part D: Summary

Sl. No.	Name of the scheme and implementation timeframe	Estimated Cost (₹ Crores)	Remarks
I.	Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-2: 5.5 GW) (Jaisalmer/Barmer Complex): Part D Tentative Implementation timeframe: 24 months from SPV transfer	2,227	Recommended to be implemented through TBCB route.

3.5.14 Detailed scope of Part D scheme is given below:

S. No.	Scope of the Transmission Scheme	Capacity/ Route length
1	Beawar- Mandsaur PS 765 kV D/c line along with 240 MVAR switchable line reactor for each circuit at each end	Route Length – 260 km • 765 kV, 240 MVAR switchable line reactors at Beawar – 2 Nos. • 765 kV, 240 MVAR switchable line reactors at Mandsaur PS – 2 Nos. • Switching equipment for 765 kV, 240 MVAR switchable line reactors at Beawar – 2 Nos. • Switching equipment for 765 kV, 240 MVAR switchable line reactors at Mandsaur PS – 2 Nos.
2	2 No. of 765 kV line bays each at Beawar S/s & Mandsaur S/s	765 kV line bays - 4 Nos. (2 Nos. each at Beawar S/s and Mandsaur PS)

Note:

- i. The line lengths mentioned above are approximate as the exact length shall be obtained after the detailed survey
- ii. Developer of Mandsaur PS to provide space for 2 Nos. of 765 kV line bays at Mandsaur S/s along with the space for switchable line reactor.
- iii. Developer of Beawar S/s to provide space for 2 Nos. of 765 kV line bays at Beawar S/s along with the space for switchable line reactor.
- iv. Implementation of A, B, C, D, E, F, H1, H2 packages shall be aligned
- v. Switchable line reactors to be implemented with NGR bypass arrangement
- vi. The implementation timeline mentioned above is tentative. Final Timeline would be indicated in the RfP Document.



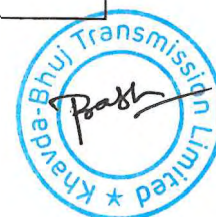
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3.5.15 Part E: Summary

Sl. No.	Name of the scheme and implementation timeframe	Estimated Cost (₹ Crores)	Remarks
1.	Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-2 :5.5 GW) (Jaisalmer/Barmer Complex): Part E Tentative Implementation timeframe: 24 months from SPV transfer	3,251	Recommended to be implemented through TBCB route.

3.5.16 Detailed scope of Part E scheme is given below:

Sl. No.	Scope of the Transmission Scheme	Capacity/ Route length
1	Establishment of 765 kV Substation at suitable location near Rishabdeo (Distt. Udaipur) along with 2x240 MVAR (765 kV) Bus Reactor Future Provisions: Space for ➤ 765/400 kV ICT along with bays- 5 No. along with spare unit ➤ 765 kV line bays along with switchable line reactors – 6 Nos. ➤ 765 kV Bus Reactor along with bay: 1 No. ➤ 400 kV line bays along with switchable line reactor – 4 Nos. ➤ 400 kV line bays – 4 Nos. ➤ 400 kV Bus Reactor along with bay: 3 Nos. ➤ 400 kV Sectionalization bay: 2 sets ➤ 400/220 kV ICT along with bay - 6 Nos. ➤ 220 kV line bays -10 Nos. ➤ 220 kV Sectionalization bay: 2 sets ➤ 220 kV BC (3 Nos.) & TBC (3 Nos.) ➤ STATCOM (2 x ±300MVAR) along with MSC (4x125 MVAR) & MSR (2x125 MVAR) along with two number 400 kV bays.	• 240 MVAR, 765 kV Bus Reactor- 2 Nos. (7x80 MVAR including one spare unit) • 765 kV Bus reactor bays-2 Nos. • 765 kV line bays - 6 Nos. [for 765 kV Sirohi PS- Rishabdeo – Mandsaur D/c line and LILO of one circuit of 765 kV Chittorgarh-Banaskanta D/c line at Rishabdeo S/ s]
2	Sirohi PS- Rishabdeo 765 kV D/c line along with 330 MVAR switchable line reactor for each circuit at Sirohi end	Route Length – 170 km • 765 kV, 330 MVAR switchable line reactors at Sirohi PS– 2 Nos. • Switching equipment for 765 kV, 330 MVAR switchable line reactors at Sirohi PS– 2 Nos. • 110 MVAR (765 kV) spare reactor single phase unit at Sirohi PS – 1 No.
3	Rishabdeo - Mandsaur PS 765 kV D/c line along with 240 MVAR switchable line reactor	Route Length – 160 km



	for each circuit at Rishabdeo end	765 kV, 240 MVAR switchable line reactors at Rishabdeo – 2 Nos. - Switching equipment for 765 kV, 240 MVAR switchable line reactors at Rishabdeo – 2 Nos.
4	LILO of one circuit of 765 kV Chittorgarh-Banaskanta D/c line at Rishabdeo S/s (20 km)	LILO route length~ 20 km
5	2 No. of 765 kV line bays each at Sirohi PS & Mandsaur S/s	765 kV line bays – 4 Nos. (2 Nos. each at Sirohi PS & Mandsaur PS)

Note:

- The line lengths mentioned above are approximate as the exact length shall be obtained after the detailed survey
- Developer of Sirohi PS to provide space for 2 Nos. of 765 kV line bays at Sirohi PS along with the space for switchable line reactors, including spare unit.
- Developer of Mandsaur PS to provide space for 2 Nos. of 765 kV line bays at Mandsaur PS.
- Implementation of A, B, C, D, E, F, H1, H2 packages shall be aligned
- Switchable line reactors to be implemented with NGR bypass arrangement.
- The implementation timeline mentioned above is tentative. Final Timeline would be indicated in the RfP Document.

3.5.17 Part F: Summary (by clubbing F1 & F2 Schemes)

Sl. No.	Name of the scheme and implementation timeframe	Estimated Cost (₹ Crores)	Remarks
1.	Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-2: 5.5 GW) (Jaisalmer/Barmer Complex): Part F Tentative Implementation timeframe: 24 months from SPV transfer	2,735	Recommended to be implemented through TBCB route.

3.5.18 Detailed scope of Part F scheme is given below:

Sl. No.	Scope of the Transmission Scheme	Capacity/ Route length
1	Establishment of 3x1500 MVA, 765/400 kV & 2x500 MVA, 400/220 kV Barmer-I Pooling Station along with 2x240 MVAR (765 kV) Bus Reactor & 2x125 MVAR (420 kV) Bus Reactor Future provisions: Space for ➤ 765/400 kV ICT along with bays- 3 No. ➤ 765 kV line bays along with switchable	765/400 kV, 1500 MVA ICT- 3 Nos. (10x500 MVA including one spare unit) 765 kV ICT bays-3 Nos. 240 MVAR, 765 kV Bus Reactor-2 Nos. (7x80 MVAR, including one spare unit) 765 kV Bus reactor bays-2 Nos. 765 kV line bays- 2 Nos. (for D/c line to Sirohi PS) 400/220 kV, 500 MVA ICT -2 Nos. 400 kV ICT bays- 5 Nos.



Sl. No.	Scope of the Transmission Scheme	Capacity/ Route length
	line reactors – 4 Nos. ➤ 765 kV Bus Reactor along with bay: 1 No. ➤ 400 kV line bays –4 ➤ 400 kV line bays along with switchable line reactor –4 Nos. ➤ 400/220 kV ICT along with bays -8 Nos. ➤ 400 kV Bus Reactor along with bay: 1 No. ➤ 400 kV Sectionalization bays: 2 sets ➤ 220 kV line bays for connectivity of RE Applications -10 Nos. ➤ 220 kV Sectionalization bay: 3 sets ➤ 220 kV BC (3 Nos.) & TBC (3 Nos.) ➤ STATCOM (2x±300 MVAR) along with MSC (4x125 MVAR) & MSR (2x125 MVAR) along with two number 400 kV bays	• 125 MVAR, 420 kV Bus Reactor-2 Nos. • 400 kV Bus reactor bays- 2 Nos. • 400 kV line bays - 2 Nos. [for D/c line to Fatehgarh-III(Section-2) PS] • 220 kV ICT bays- 2 Nos. • 220 kV line bays: 4 Nos. (for RE connectivity) • 220 kV BC (1 No.) & TBC (1 No.)
2	Fatehgarh-III (Section-2) PS – Barmer-I PS 400 kV D/c line (Quad)	Route Length ~50 km
3	Barmer-I PS– Sirohi PS 765 kV D/c line along with 240 MVAR switchable line reactor for each circuit at each end	Route Length ~ 200 km • 765 kV, 240 MVAR switchable line reactors at Barmer-I PS – 2 Nos. • 765 kV, 240 MVAR switchable line reactors at Sirohi PS – 2 Nos. • Switching equipment for 765 kV 240 MVAR switchable line reactors at Barmer-I PS – 2 Nos. • Switching equipment for 765 kV 240 MVAR switchable line reactors at Sirohi PS – 2 Nos.
4	2 No. of 400 kV line bays at Fatehgarh-III (Section-2) PS	400 kV line bays at Fatehgarh-III (Section-2) PS - 2 Nos.
5	2 No. of 765 kV line bays at Sirohi PS	765 kV line bays at Sirohi PS – 2 Nos.

Note:

- The line lengths mentioned above are approximate as the exact length shall be obtained after the detailed survey
- Developer of Sirohi PS to provide space for 2 Nos. of 765 kV line bays at Sirohi PS along with the space for switchable line reactor.
- Developer of Fatehgarh-III PS (Section-2) to provide space for 2 Nos. of 400 kV line bays at Fatehgarh-III PS (Section-2).
- Switchable line reactors to be implemented with NGR bypass arrangement
- Implementation of A, B, C, D, E, F, H1, H2 packages shall be aligned.



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- vi. The implementation timeline mentioned above is tentative. Final Timeline would be indicated in the RfP Document.

3.5.19 Part G: Summary

Sl. No.	Name of the scheme and implementation timeframe	Estimated Cost (₹ Crores)	Remarks
1.	Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-2 :5.5 GW) (Jaisalmer/Barmer Complex): Part G Augmentation by 1x1500 MVA, 765/400 kV ICT at Fatehgarh-II PS	132	The scheme was agreed to be deferred and it was decided that the scheme would be taken up for implementation in the matching timeframe of Fatehgarh-II PS- Bhadla 3 PS 400 kV D/c line, once the transmission line is approved by the GIB Committee constituted by Hon'ble Supreme Court Committee.

3.5.20 Part H1: Summary

Sl. No.	Name of the scheme and implementation timeframe	Estimated Cost (₹ Crores)	Remarks
1.	Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-2: 5.5 GW) (Jaisalmer/Barmer Complex): Part H1 Tentative Implementation timeframe: 24 months from SPV transfer	3,674	Recommended to be implemented through TBCB route.

3.5.21 Detailed scope of Part H1 scheme is given below:

Scope of the Transmission Scheme	Capacity / line length km
Establishment of 765/400 kV (2x1500 MVA), 400/22 kV (2x500 MVA) & 220/132 kV (3x200 MVA) Kurawar S/s with 2x330 MVAR 765	765/400 kV, 1500 MVA ICT – 2 (7 single units of 500 MVA including one spare unit) 400/220 kV, 500 MVA ICT – 2



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S N o	Scope of the Transmission Scheme	Capacity / line length km
	kV bus reactor and 1x125 MVAR, 420 kV bus reactor. Future Provisions: Space for • 765/400 kV ICT along with bays- 4 no. • 765 kV line bays along with switchable line reactors – 8 nos. • 765 kV Bus Reactor along with bay: 2 no. • 765 kV Sectionalizer bay: 1 -set • 400 kV line bays along with switchable line reactor – 8 nos. • 400/220 kV ICT along with bays -6 nos. • 420 kV Bus Reactor along with bay: 3no. • 400 kV Sectionalization bay: 1- set • 220 kV line bays: 12 nos. • 220 kV Sectionalization bay: 1set • 220 kV BC and TBC: 1 no. • 220/132 kV ICT along with bays: 5 Nos. • 132 kV line bays: 16 nos. • 132 kV Sectionalization bay: 1 set • 132 kV TBC– 1 no. • STATCOM (±300 MVAR) along with MSC (2x125 MVAR) & MSR (1x125 MVAR) along with 400 kV bay.	• 220/132 kV, 200 MVA ICT – 3 • 765 kV ICT bays- 2 • 400 kV ICT bays- 4 • 220 kV ICT bays – 5 • 132 kV ICT bays - 3 • 330 MVAR 765 kV bus reactor-2 • 125 MVAR 420 kV bus reactor-1 • 765 kV reactor bay- 2 • 765 kV line bays- 4 • 400 kV line bays- 4 • 400 kV reactor bay- 1 • 220 kV BC – 1 • 220 kV TBC – 1 • 132 kV TBC – 1 • 110 MVAR, 765 kV, 1-ph reactor (spare unit)-1 • 80 MVAR, 765 kV, 1-ph reactor (spare unit)-1
	Mandsaur – Kurawar 765 kV D/c line	Route length: 235 km
	240 MVAR switchable line reactors on each ckt at both ends of Mandsaur – Kurawar 765 kV D/c line	• 240 MVAR, 765 kV switchable line reactor- 4 (2 for Mandsaur end and 2 for Kurawar end) • Switching equipment for 765 kV line reactor- 4 (2 for Mandsaur end and 2 for Kurawar end)
	42 nos. of 765 kV line bays at Mandsaur S/s for termination of Mandsaur – Kurawar 765 kV D/c line	• 765 kV line bays – 2 Nos. (for Mandsaur end)
	LILO of Indore – Bhopal 765 kV S/c line at Kurawar	LILO route length: 15 km.
	Kurawar – Ashtha 400 kV D/c (Quad	Route length: 65 km



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S N o	Scope of the Transmission Scheme	Capacity / line length km
	ACSR/AAAC/AL59 moose equivalent) line	
	2 nos. of 400 kV line bays at Ashtha (MP) S/s for termination of Kurawar – Ashtha 400 kV D/c line	400 kV line bays – 2 Nos. [for Ashtha (MP) end]
	LILO of one circuit of Indore – Itarsi 400 kV D/c line at Ashtha	LILO route length: 30 km
	2 nos. of 400 kV line bays at Ashtha (MP) S/s for LILO of one circuit of Indore – Itarsi 400 kV D/c line at Ashtha	400 kV line bays – 2 Nos. [for Ashtha (MP) end]
	Shujalpur – Kurawar 400 kV D/c (Quad ACSR/AAAC/AL59 moose equivalent) line	Route length: 40 km
	2 nos. of 400 kV line bays at Shujalpur(PG) S/s for termination of Shujalpur – Kurawar 400 kV D/c line	400 kV line bays – 2 Nos. [for Shujalpur (PG) end]

Note:

- The line lengths mentioned above are approximate as the exact length shall be obtained after the detailed survey.
- MPPTCL has confirmed availability of space for 2 nos. 400 kV bays at Ashta (MP) S/s and for 2 nos. additional bays, MPPTCL has informed that adjacent land is private land and may be purchased by the project developer at their cost as per requirement.
- Implementation of A,B,C,D, E ,F, H1 & H2 packages shall be aligned
- TSP of the subject scheme shall implement Inter-tripping scheme on Mandsaur – Kurawar 765 kV D/c line (for tripping of the switchable line reactor at Mandsaur/Kurawar end along with the main line breaker).
 - Switchable line reactors to be implemented with NGR bypass arrangement
 - Developer of Mandsaur S/s to provide space for 2 Nos. 765 kV line bays for Mandsaur – Kurawar 765 kV D/c line.
 - POWERGRID to provide space for 2 Nos. 400 kV line bays at Shujalpur S/s for Shujalpur – Kurawar 400 kV D/c line.
- The implementation timeline mentioned above is tentative. Final Timeline would be indicated in the RfP Document.

3.5.22 Part H2: Summary

Sl. No.	Name of the scheme and	Estimated Cost	Remarks
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	implementation timeframe	(₹ Crores)	
1.	Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-2 :5.5 GW) (Jaisalmer/Barmer Complex): Part H2 Provision of NGR bypass arrangement and inter tripping scheme on 240 MVAR SW LR at Bhopal end of Kurawar – Bhopal 765 kV S/c line (~60 km.): Part H2 Implementation timeframe: In matching timeframe of H1 Scheme	0.45	To be awarded under RTM to BDTCL i.e. the TSP owing the Indore – Bhopal 765 kV S/c line .

3.5.23 Detailed scope of Part H2 scheme is given below:

S l o o	Scope of the Transmission Scheme	Capacity/ Route length
1	Provision of NGR bypass arrangement and inter tripping scheme on 240 MVAR Switchable Line Reactor at Bhopal end of Kurawar – Bhopal 765 kV S/c line (~Route length: 60 km)	NGR bypass arrangement and inter tripping scheme (Bhopal end)



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3.6 Requirement of additional FOTE of STM-16 capacity at Bhuj PS to cater to connectivity of RE Gencos.

3.6.1 To connect 6 number of RE generators (Inox, Vadava Desalpar, Narayanpar, Adani Ratadia, Renew Power, Alfannar Energy) directly to existing FOTE at Control Room of Bhuj PS maintaining MSP (1+1) and for making independent connectivity for upcoming generators at this station, Additional STM-16 capacity SDH equipment is required

3.6.2 The "Requirement of additional FOTE of STM-16 capacity at Bhuj PS to cater connectivity of RE Gencos", has been deliberated in 46th TCC/ WRPC meeting. WRPC concurred the proposal of "Requirement of additional FOTE of STM-16 capacity at Bhuj PS to cater connectivity of RE Gencos" at an estimated cost of Rs 60 Lacs.

3.6.3 After detailed deliberations, the scheme was approved to be implemented under RTM route by POWERGRID.

3.6.4 Summary of the scheme is given below:

Sl. No.	Name of the scheme and implementation timeframe	Estimated Cost (₹ Crores)	Remarks
1.	Requirement of additional FOTE of STM-16 capacity at Bhuj PS to cater to connectivity of RE Gencos Implementation timeframe: 12 months from date of allocation	0.6	Approved to be implemented under RTM route by POWERGRID

3.6.5 Detailed Scope of the Scheme is given below:

Sl. No.	Scope of the Scheme	Estimated Cost
1.	Supply and installation of 01 number 10 MSP (1+1) FOTE or 02 No. 5 MSP (1+1) FOTE (STM-16 capacity) at Bhuj PS.	Rs. 60 Lakhs



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3.7 Requirement of additional FOTE of STM-16 capacity at Bhuj-II substation to cater connectivity of RE Gencos.

3.7.1 To connect 6 number of RE generators (Inox, Vadava Desalpar, Narayanpar, Adani Ratadia, Renew Power, Alfannar Energy) directly to existing FOTE at Control Room of Bhuj PS maintaining MSP (1+1) and for making independent connectivity for upcoming generators at this station, Additional STM-16 capacity SDH equipment is required

3.7.2 The "Requirement of additional FOTE of STM-16 capacity at Bhuj II to cater connectivity of RE Gencos", has been deliberated in 46th TCC/ WRPC meeting. WRPC concurred the proposal of "Requirement of additional FOTE of STM-16 capacity at Bhuj II to cater connectivity of RE Gencos" at estimated cost of Rs 30 Lacs.

3.7.3 After detailed deliberations, the scheme was approved to be implemented under RTM mode by M/s PBTL.

3.7.4 Summary of the scheme is given below:

Sl. No.	Name of the scheme and implementation timeframe	Estimated Cost (₹ Crores)	Remarks
1.	Requirement of additional FOTE of STM-16 capacity at Bhuj-II substation to cater connectivity of RE Gencos Implementation timeframe: 12 months from date of allocation	0.3	Approved to be implemented under RTM mode by M/s PBTL

3.7.5 Detailed Scope of the Scheme is given below:

Sl. No.	Scope of the Scheme	Estimated Cost
1.	Supply and installation of 01 number 5 MSP (1+1) FOTE (STM-16 capacity) at Bhuj-II station.	Rs. 30 Lakhs



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3.8 Congestion in ISTS communication link via Dehgam- Ranchhodpura- Santhalpur- Bhachau- Mundra

3.8.1 The communication link via Dehgam-Ranchhodpura-Santhalpur-Bhachau-Mundra was at STM-4 level. Further, this link was extended through Mundra-Bhuj-Santhalpur Repeater-Banaskantha at STM-16 level. The owner of these stations is POWERGRID. This communication network is being used for routing the data Bhuj-PS, Bhuj-II, Lakadia, CGPL Mundra and various RE generators connected to these stations to WRLDC/NLDC. Communication link via Dehgam-Ranchhodpura-Santhalpur repeater-Banaskantha is also used for routing inter regional data between WR-NR.

As on date, the STM-4 level bandwidth on Dehgam-Ranchhodpura-Santhalpur Repeater is almost 100% utilized and on Santhalpur repeater-Bhachau-Mundra is 75% utilized. Outage of these lines affects the telemetry of the entire Bhuj location and CGPL Mundra.

3.8.2 The “Upgradation of STM-4 communication link of Dehgam, Ranchhodpura, Santhalpur Repeater, Bhachau and CGPL Mundra to STM-16 capacity”, has been deliberated in 46th TCC/ WRPC meeting held on 02-03 Feb 2023. WRPC concurred the proposal of “Upgradation of STM-4 communication link of Dehgam, Ranchhodpura, Santhalpur Rep, Bhachau and CGPL Mundra to STM-16 capacity” at estimated cost of Rs 1.5 Cr.

3.8.3 After detailed deliberations, the scheme was approved to be implemented under RTM route by POWERGRID.

3.8.4 Summary of the scheme is given below:

Sl. No.	Name of the scheme and implementation timeframe	Estimated Cost (₹ Crores)	Remarks
1.	Upgradation of STM-4 communication link of Dehgam, Ranchhodpura, Santhalpur Rep, Bhachau and CGPL Mundra to STM-16 capacity. Implementation timeframe: 12 months from date of allocation	1.5	Approved to be implemented under RTM route by POWERGRID

3.8.5 Detailed Scope of the Scheme is given below:

Scope of the Scheme	Estimated Cost
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1. Supply and installation of 5 No. STM-16 SDH, 5 MSP (1+1) for all the below mentioned stations- a) Dehgam b) Ranchhodpura c) Santhalpur Repeater d) Bhachau e) CGPL Mundra	Rs. 1.5 Cr.
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3.9 Transmission scheme for evacuation of power from Neemuch/Mandsaur 2 GW WEZ

3.9.1 SECI vide letter dated 23.06.2022 has informed that in order to provide round the clock (RTC) Power (with wind, solar and storage components), they have identified certain locations with high solar and wind potential where work on RE evacuation system may be taken up immediately. 2 GW Wind Potential at Neemuch/Mandsaur is one such prioritized RE Zone.

3.9.2 Accordingly, scheme was evolved to cater to the evacuation of power from Neemuch/Mandsaur 2 GW WEZ and was discussed in the 12th NCT meeting held on 24.03.2023. During the meeting, the establishment of 765 kV Mandsaur Pooling Station [Under Transmission system for Rajasthan REZ Phase-IV Part-2 (5.5 GW)] was agreed to be reviewed and it was decided that the proposal of creation of 400 kV and 220 kV levels at Mandsaur PS (under the subject scheme), would also be reviewed along with 765 the kV Pooling Station at Mandsaur.

3.9.3 After detailed deliberations, it was decided that the scheme shall be merged with Part C of the Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-2: 5.5 GW) (Jaisalmer/Barmer Complex) and would be implemented under TBCB route. Please refer para 3.5.

3.10 Change in implementation timeline of STATCOM and HVDC

3.10.1 Siemens and TATA Power had requested to increase the timeline of commissioning of STATCOMs from 24 months to 30 months on account of increased delivery period of Power Electronics, Control Cards, Air Core Reactors, Valve Cooling systems etc. globally e.g. for $\pm 2 \times 300$ MVAR STATCOM at any sub-station, time frame for implementation of STATCOMs to be as given below, in place of 24 months:

- ± 300 MVAR (1st): 24 months
- ± 300 MVAR (2nd): 30 months



3.10.2 After detailed deliberations, it was agreed that the base time shall remain 24 months for 1st STATCOM unit. For further STATCOM units, additional 3 months of time for each unit e.g. 27 months (for 2nd STATCOM unit) will be given.

3.10.3 Chairperson, CEA, stated that the list of components of STATCOM, not being manufactured in India, may be prepared and put up to the Technical Scoping Committee (TSC) Committee under Chairperson, CEA, constituted to inter-alia identify the identify the potential technologies that can be considered for indigenous development in the country, bring out the relevance of the technology for the future power sector. The Committee would in turn make recommendations to the Apex Committee, the High Level Committee under Hon'ble Minister of Power.

3.10.4 Similarly, Hitachi had requested to increase the timeline of commissioning of Bhadla-Fatehpur HVDC from 42 months to 49 months for Bipole I and 54 months for Bipole II, considering the present global uncertainties on supplies of components and their lead time.

After detailed deliberations, it was agreed that the timeline of commissioning of HVDC shall be increased by 06 months for Bipole-II i.e. if implementation timeline is 48 months for Bipole I, it should be 54 months for Bipole-II.

3.10.5 However, the changed timelines for implementation of HVDC & SATCOM schemes would be applicable only to the new schemes brought up in NCT henceforth.

3.10.6 Chairperson, CEA, also stated that rating of HVDC transmission system must be standardised by CEA so that delivery time is reduced.

4 Modification in the earlier approved/notified transmission schemes:

4.1 Transmission system for evacuation of power from Shongtong Karcham HEP (450 MW) and Tidong HEP (150 MW)

4.1.1 A comprehensive transmission scheme (400 kV Jhangi-Wangtoo-Panchkula D/c Corridor) for evacuation of power from two Hydro Electric Projects (HEPs) viz Tidong (150 MW) of Tidong Power Generation Private Limited (STATKRAFT) and Shongtong Karcham HEP (450 MW) of HPPCL in Himachal Pradesh was evolved. The transmission scheme was approved by MoP based on the recommendation by NCT for implementation through TBCB route. Subsequently, HPPCL had intimated that the commissioning date of Shongtong Karcham HEP (STKHEP) had been revised (preponed) from July'26 to July'25 and requested to review the timelines of the transmission system for evacuation of power from Shongtong Karcham HEP (STKHEP) in Himachal Pradesh due to the revised timeline of commissioning of STKHEP.



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4.1.2 The revised scheme was also discussed in the 65th NRPC meeting held on 21.04.2023. During the NRPC meeting, MS, NRPC stated that all efforts may be made to reduce the time frame of the interim part to ensure that the generation is not stranded. Therefore, NRPC Forum recommended NCT to give consideration to generation project schedule and accordingly transmission system may be developed.

4.1.3 In the NCT meeting, CTUIL informed that based on the preliminary survey report for 400 kV Wangtoo-Panchkula D/c line, conductor in certain portion of the transmission line may need to be of different configuration (due to very high altitude encountered in certain sections) in order to avoid Corona inception gradient. The cost of the transmission scheme may also increase. Accordingly, CTUIL was requested to confirm change in conductor configuration if any along with revised cost of the scheme based on the survey report and submit the same within two weeks.

4.2 Revised timeframe of the transmission scheme "Transmission system for evacuation of power from Luhri Stage-I HEP"

4.2.1 The transmission system for evacuation of power from Luhri Stage-I HEP was agreed in the 8th meeting of NCT held on 25.03.2022 with the following scope of works:

Sl. No.	Scope of the Transmission Scheme	Capacity/ Route length
1.	Establishment of 7x105 MVA, 400/220 kV Nange GIS Pooling Station along with 125 MVAR (420kV) Bus Reactor at Nange (GIS) PS (1-Ph units along with one spare unit) Future provisions: Space for 400/220 kV ICTs (315 MVA with single phase units) along with associated bays: 3 Nos. 400 kV line bays along with switchable line reactor: 3 Nos. 220 kV line bays: 10 nos	315 MVA, 400/220 kV ICT: 2 Nos. (7x105 MVA including 1 spare ICT) 400 kV ICT bays: 2 Nos. 220 kV ICT bays: 2 Nos. 400 kV, 125 MVAR Bus Reactor-1 No. 400 kV Bus Reactor bay- 1 No. 400 kV Line Bays- 2 Nos.
2.	Nange (GIS) Pooling Station – Koldam 400 kV D/c line (Triple snowbird) (<i>only one circuit is to be terminated at Kol Dam while second circuit would be connected to bypassed circuit of Kol Dam – Ropar/Ludhiana 400 kV D/c line</i>)	Route length: 40 km
3.	1 No. of 400 kV line bay at Koldam S/s for termination of Nange (GIS) Pooling Station – Koldam 400 kV line along with 125 MVAR (420kV) Bus Reactor at Koldam S/s (1-Ph units along with one spare unit)	400 kV Line Bays- 2 Nos. 400 kV, 125 MVAR Bus Reactor- 1 No. 400 kV Bus Reactor bay- 1 No.
4.	Bypassing one ckt of Koldam –	



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Sl. No.	Scope of the Transmission Scheme	Capacity/ Route length
	Ropar/Ludhiana 400 kV D/c line (Triple snowbird) at Koldam and connecting it with one of the circuit of Nange- Koldam 400 kV D/c line(Triple snowbird), thus forming Nange- Ropar/ Ludhiana one line (Triple snowbird)	
5.	1x50 MVAR switchable line reactor at Ropar end of Nange- Ropar/ Ludhiana 400 kV line	400 kV, 50 MVAR Line Reactor- 1 No. 400 kV Reactor Bay- 1 No.

4.2.2 The above mentioned transmission scheme was notified in Gazette dated 02.06.2022 and RECPDCL was appointed as the BPC of the transmission scheme. The transmission scheme is currently under bidding with the implementation timeframe of 24.04.2025 (in matching timeframe of Luhri Stage-I HEP).

4.2.3 SJVNL vide letter dated 17.02.2023 informed that Luhri Stage-I HEP is likely to be commissioned by August, 2026, hence the time frame of Luhri Stage-I may be considered as 31.08.2026. The same was acknowledged in a meeting convened by CEA on 07.03.2023. Accordingly, it was decided that the timeframe of the transmission scheme "Transmission system for evacuation of power from Luhri Stage-I HEP", would be revised to 31st August, 2026.

4.2.4 NCT noted the same.

4.3 Delinking of 400 kV Fatehgarh-II- Bhadla-III D/c line from transmission scheme "Transmission system for evacuation of power from REZ in Rajasthan (20 GW) under Phase-III Part B1"

4.3.1 The transmission scheme "Transmission system for evacuation of power from REZ in Rajasthan (20 GW) under Phase-III Part B1" was agreed in the 5th meeting of the NCT held on 25.08.2021 and 02.09.2021, with the following scope of works:

- Establishment of 2x1500 MVA 765/400 kV & 3x500 MVA 400/220 kV pooling station at Bhadla-3
- Fatehgarh-2 PS – Bhadla-3 PS 400 kV D/c line
- Bhadla-3 PS – Sikar-II S/s 765 kV D/c line



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- 4.3.2 The above mentioned transmission scheme was notified in the Gazette dated 06.12.2022 and PFCCL was appointed as the BPC of the transmission scheme. As the transmission scheme is falling under core GIB area, PFCCL approached the Committee formed by Hon'ble Supreme Court for obtaining the necessary GIB clearance.
- 4.3.3 Subsequently, a meeting was held on 01.05.2023 under the chairmanship of Secretary, MoP, to review the progress of under construction/ under bidding/ planned Transmission Projects for evacuation of Renewable Energy (RE) projects, wherein it was highlighted that the GIB clearance for Fatehgarh-2 PS – Bhadla-3 PS 400 kV D/c line has not been received due to which the bidding process for the transmission scheme is getting delayed. Considering that, Secretary, MoP, directed that the process of delinking of 400 kV Fatehgarh-II- Bhadla-III D/c line from Phase-III Part-B1 may be carried out at the earliest and a separate package may be formed comprising 400 kV Fatehgarh-II- Bhadla III D/c line.
- 4.3.4 The same was deliberated in a meeting convened by CEA on 10.05.2023, wherein PFCCL (BPC) was requested to delink the 400 kV Fatehgarh-II- Bhadla-III D/c line as directed by Secretary, MoP. Further, it was recommended that for timely completion of the bidding process, bidders may be given 4 weeks of time for bid submission by the BPC, since the transmission scheme (Transmission system for evacuation of power from REZ in Rajasthan (20 GW) under Phase-III Part B1) is already under the bidding process for the past few months and also linked with other transmission schemes under Phase-III.
- 4.3.5 In view of above, the modification in the scope of the transmission scheme "Transmission system for evacuation of power from REZ in Rajasthan (20 GW) under Phase-III Part B1" is as follows:

Sl. No.	Existing Scope	Revised Scope
1.	Establishment of 2x1500 MVA 765/400 kV & 3x500 MVA 400/220 kV pooling station at Bhadla-3 along with 2x330 MVAR (765 kV) Bus Reactor & 2x125 MVAR (420kV) Bus Reactor 765/400 kV 1500 MVA ICTs: 2 Nos. (7x500 MVA including one spare unit) 765 kV ICT bays - 2 Nos. 400/220 kV, 500 MVA ICT – 3 Nos. 765 kV line bays -2 Nos. 400 kV ICT bays – 5 Nos. 220 kV ICT bays - 3 Nos. 400 kV line bays - 2 Nos. 220 kV line bays: 5 Nos. 330 MVAR Bus Reactor-2 Nos. (7x110 MVAR, including one spare unit)	Establishment of 2x1500 MVA, 765/400 kV & 3x500 MVA, 400/220 kV pooling station at Bhadla-3 along with 2x330 MVAR (765 kV) Bus Reactor & 2x125 MVAR (420 kV) Bus Reactor 765/400 kV 1500 MVA ICTs: 2 Nos. (7x500 MVA including one spare unit) 765 kV ICT bays - 2 Nos. 400/220 kV, 500 MVA ICT – 3 Nos. 765 kV line bays -2 Nos. 400 kV ICT bays – 5 Nos. 220 kV ICT bays - 3 Nos. 220 kV line bays: 5 Nos. 330 MVAR Bus Reactor-2 Nos. (7x110 MVAR, including one spare unit) 765 kV reactor bay- 2 Nos. 125 MVAR, 420 kV bus reactor - 2 Nos.



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Sl. No.	Existing Scope	Revised Scope
	765 kV reactor bay - 2 Nos. 125 MVAR, 420kV bus reactor - 2 Nos. 420 kV reactor bay - 2 Nos. <u>Future provisions:</u> Space for 765/400 kV ICTs along with bays: 2 Nos. 765 kV line bay along with switchable line reactor: 6 Nos. 765 kV line bay: 4 Nos. 765 kV Bus Reactor along with bays: 2 Nos. 400/220 kV ICTs along with bays: 10 Nos. 400 kV line bays: 8 Nos. 400 kV line bays along with switchable line reactor: 6 Nos. 400 kV Bus Reactor along with bays: 2 Nos. 400 kV Sectionalization bay: 2 sets 220 kV line bays: 12 Nos. 220 kV sectionalization bay: 2 sets	420 kV reactor bay - 2 Nos. <u>Future provisions:</u> Space for 765/400 kV ICTs along with bays: 2 Nos. 765 kV line bay along with switchable line reactor: 6 Nos. 765 kV line bay: 4 Nos. 765 kV Bus Reactor along with bays: 2 Nos. 400/220 kV ICTs along with bays: 10 Nos. 400 kV line bays: 8 Nos. 400 kV line bays along with switchable line reactors: 8 Nos. 400 kV Bus Reactor along with bays: 2 Nos. 400 kV Sectionalization bay: 2 sets 220 kV line bays: 12 Nos. 220 kV Sectionalization bay: 2 sets
2.	Fatehgarh-2 PS – Bhadla-3 PS 400 kV D/c line (Quad moose) along with 63 MVAR Switchable line reactor for each circuit at both ends of Fatehgarh 2-Bhadla-3 400 kV D/c line 400 kV 63 MVAR switchable line reactor – 4 Nos. - Switching equipment for 400 kV 63 MVAR switchable line reactor – 4 Nos.	Deleted
3.	400 kV line bays at Fatehgarh-2 PS for Fatehgarh-2 PS – Bhadla-3 PS 400 kV D/c line 400 kV line bays - 2 Nos.	Deleted
4.	Bhadla-3 PS – Sikar-II S/s 765 kV D/c line along with 330 MVAR Switchable line reactor for each circuit at each end of	Bhadla-3 PS – Sikar-II S/s 765 kV D/c line along with 330 MVAR Switchable line reactor for each circuit at each end of Bhadla-



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Sl. No.	Existing Scope	Revised Scope
	Bhadla-3 PS – Sikar-II S/s 765 kV D/c line - Switching equipment for 765 kV 330 MVAR switchable line reactor – 4 Nos. 765 kV, 330 MVAR Switchable line reactor- 4 Nos.	3 PS – Sikar-II S/s 765 kV D/c line - Switching equipment for 765 kV 330 MVAR switchable line reactor – 4 Nos. 765 kV, 330 MVAR Switchable line reactor- 4 Nos.
5.	765 kV line bays at Sikar-II 765 kV line bays – 2 Nos.	765 kV line bays at Sikar-II 765 kV line bays – 2 Nos.
	Note: - Provision of suitable sectionalization shall be kept at Bhadla-3 at 400 kV & 220 kV level to limit short circuit level. - POWERGRID to provide space for 2 Nos. of 400 kV line bays along with space for switchable line reactors at Fatehgarh-2 S/s. - Developer of Sikar-II S/s to provide space for 2 Nos. of 765 kV line bays at Sikar-II S/s along with space for switchable line reactors. - Space provision for future 2 Nos. 220 kV Bus Coupler bay and 2 Nos. Transfer Bus Coupler Bay shall be kept for bus switching scheme requirement.	Note: - Provision of suitable sectionalization shall be kept at Bhadla-3 at 400 kV & 220 kV level to limit short circuit level. Deleted - Developer of Sikar-II S/s to provide space for 2 Nos. of 765 kV line bays at Sikar-II S/s along with space for switchable line reactors. - Space provision for future 2 Nos. 220 kV Bus Coupler bay and 2 Nos. Transfer Bus Coupler Bay shall be kept for bus switching scheme requirement.

4.3.6 After detailed deliberations, the revised scope of the scheme was approved by NCT.

Revised scope of the scheme “Transmission system for evacuation of power from REZ in Rajasthan (20 GW) under Phase-III Part B1” is as follows:

Revised Scope
Establishment of 2x1500 MVA 765/400 kV & 3x500 MVA 400/220 kV pooling station at Bhadla-3 along with 2x330 MVAR (765 kV) Bus Reactor & 2x125 MVAR (420 kV) Bus Reactor 765/400 kV 1500 MVA ICTs: 2 Nos. (7x500 MVA including one spare unit) 765 kV ICT bays - 2 Nos. 400/220 kV, 500 MVA ICT – 3 Nos. 765 kV line bays -2 Nos. 400 kV ICT bays – 5 Nos. 220 kV ICT bays - 3 Nos. 220 kV line bays: 5 Nos. 330 MVAR Bus Reactor-2 Nos. (7x110 MVAR, including one spare unit)



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Revised Scope
• 765 kV reactor bay- 2 Nos. • 125 MVAR, 420kV bus reactor - 2 Nos. • 420 kV reactor bay - 2 Nos.
<u>Future provisions:</u> Space for • 765/400 kV ICTs along with bays: 2 Nos. • 765 kV line bay along with switchable line reactor: 6 Nos. • 765 kV line bay: 4 Nos. • 765 kV Bus Reactor along with bays: 2 Nos. • 400/220 kV ICTs along with bays: 10 Nos. • 400 kV line bays: 8 Nos. • 400 kV line bays along with switchable line reactor: 8 Nos. • 400 kV Bus Reactor along with bays: 2 Nos. • 400 kV Sectionalization bay: 2 sets • 220 kV line bays: 12 Nos. • 220 kV Sectionalization bay: 2 sets
Bhadla-3 PS – Sikar-II S/s 765 kV D/c line along with 330 MVAR Switchable line reactor for each circuit at each end of Bhadla-3 PS – Sikar-II S/s 765 kV D/c line • Switching equipment for 765 kV 330 MVAR switchable line reactor – 4 Nos. • 765 kV, 330 MVAR Switchable line reactor- 4 Nos.
765 kV line bays at Sikar-II • 765 kV line bays – 2 Nos.
Note: <i>Provision of suitable sectionalization shall be kept at Bhadla-3 at 400 kV & 220 kV level to limit short circuit level.</i> <i>Developer of Sikar-II S/s to provide space for 2 Nos. of 765 kV line bays at Sikar-II S/s along with space for switchable line reactors.</i> <i>Space provision for future 2 Nos. 220 kV Bus Coupler bay and 2 Nos. Transfer Bus Coupler Bay shall be kept for bus switching scheme requirement.</i>

5 Comprehensive presentation by CTU apprising NCT of measures taken for ensuring development of an efficient, co-ordinated and economical ISTS for smooth flow of electricity.

CTUIL has prepared the rolling plan for 2027-28, which will be presented in the next NCT meeting.

6 Five-year rolling plan for ISTS capacity addition.

CTUIL has prepared the rolling plan for 2027-28, which will be presented in the next NCT meeting.



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7 Any other issues, with permission of chair

The meeting ended with thanks to the chair.



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Summary of the deliberations of the 14th meeting of NCT held on 09th June, 2023**I. ISTS communication schemes approved by NCT for implementation under RTM Route:**

Sl. No.	Name of Transmission Scheme	Implementation Mode	Implementation timeframe	Implementing Agency	Estimated Cost (Rs Cr)
1.	Requirement of additional FOTE of STM-16 capacity at Bhuj PS to cater to connectivity of RE Gencos	RTM	12 months	POWER GRID	0.6
2.	Requirement of additional FOTE of STM-16 capacity at Bhuj-II substation to cater to connectivity of RE Gencos	RTM	12 months	M/s PBTL	0.3
3.	Upgradation of STM-4 communication link of Dehgam, Ranchhodpura, Santhalpur Rep, Bhachau and CGPL Mundra to STM-16 capacity	RTM	12 months	POWER GRID	1.5

II. ISTS schemes costing less than Rs. 100 Crs. approved by NCT:

Sl. No.	Name of Transmission Scheme	Implementation Mode	Implementation timeframe	Allocated to	Estimated Cost (Rs Crs)
1.	Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-V (8 GW): Part A1 <u>Brief Scope:</u> Conversion of 330 MVAR Fixed LR at Wardha (on each ckt of Wardha – Raipur 765 kV D/c line	RTM	Matching with implementation of Khavda Phase-V Part A scheme viz. Bipole-1 (2x1500 MW) ±	POWER GRID	21



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Sl. No.	Name of Transmission Scheme	Implementation Mode	Implementation timeframe	Allocated to	Estimated Cost (Rs Crs)
	being LILOed at Nagpur) into Bus Reactors at Wardha S/s		800 kV Nagpur (HVDC) [LCC] which is 48 months from SPV transfer.		
2.	Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-2 :5.5 GW) (Jaisalmer/Barmer Complex): Part H2 <u>Brief Scope:</u> Provision of NGR bypass arrangement and inter tripping scheme on 240 MVAR SW LR at Bhopal end of Kurawar – Bhopal 765 kV S/c line (~60 km.):	RTM	In matching timeframe of H1 Scheme	BDTCL i.e. the TSP owing the Indore – Bhopal 765 kV S/c line	0.45

III. ISTS Transmission schemes, costing between Rs 100 Crore to Rs 500 Crore, approved by NCT:

(a) The transmission schemes approved by NCT under RTM route is given below:

Sl. No.	Name of Transmission Scheme	Implementation Mode	Implementation timeframe	Allocated to	Estimated Cost (Rs. Crs)
1.	Augmentation of transformation capacity by 1x1500 MVA (3rd), 765/400 kV ICT at Maheshwaram (PG) substation in Telangana	RTM	21 months	POWERGRID	123.12



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Sl. No.	Name of Transmission Scheme	Implementation Mode	Implementation timeframe	Allocated to	Estimated Cost (Rs. Crs)
2.	Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7 GW): Part E1	RTM	24 months	Khavda – Bhuj Transmission Ltd. (Subsidiary of Adani Transmission limited)	216
3.	Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7 GW): Part E3	RTM	24 months	KPS3 Transmission Limited (Subsidiary of POWERGRID)	216
4.	Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7 GW): Part E4	RTM	24 months	POWERGRID	235

(b) The transmission schemes approved by NCT to be implemented through TBCB route is given below:

Sl. No.	Name of Transmission Scheme	Implementation Mode	Tentative Implementation timeframe	Allocated to	Estimated Cost (Rs. Crs)	Survey Agency
1.	Western Region Network Expansion scheme in Kallam area of Maharashtra	TBCB	18 months	RECPD CL	160	RECPDCL

The broad scope of above ISTS scheme, approved by NCT for implementation through TBCB route to be notified in Gazette of India is as given below:



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Sl. No.	Name of Scheme & Implementation timeframe	Broad Scope	Bid Process Coordinator
1.	Western Region Network Expansion scheme in Kallam area of Maharashtra Tentative Implementation Timeframe: 18 months from transfer of SPV	i. LILO of both circuits of Parli(M) – Karjat(M)/Lonikand-II(M) 400 kV D/c line (twin moose) at Kallam PS ii. 4 Nos. 400 kV line bays at Kallam PS for LILO of both circuits of Parli(M) – Karjat(M)/Lonikand-II(M) 400 kV D/c line (twin moose) at Kallam PS iii. 63 MVAR, 420 kV switchable line reactor (with NGR bypassing arrangement) on each ckt at Kallam PS end of Karjat – Kallam 400 kV D/c line (~140 km) (Detailed scope as approved by 14th NCT and subsequent amendments thereof)	RECPDCL

IV. ISTS Transmission schemes, costing greater than Rs 500 Crore recommended by NCT to MoP:

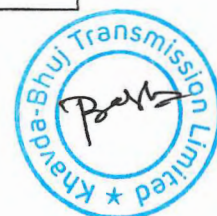
(a) The ISTS transmission schemes recommended by NCT to MoP are given below:

Sl. No.	Transmission Scheme	Implementation Mode	Tentative Implementation timeframe	Survey Agency	BPC	Estimated Cost (Rs. Crs)
1.	Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7 GW): Part A	TBCB	24 months from SPV Transfer	RECPDCL	RECPDCL	4,091
2.	Transmission System for Evacuation of Power from potential renewable	TBCB	24 months from	PFCCL	PFCCL	4,766



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Sl. No.	Transmission Scheme	Implementation Mode	Tentative Implementation timeframe	Survey Agency	BPC	Estimated Cost (Rs. Crs)
	energy zone in Khavda area of Gujarat under Phase-IV (7 GW): Part B		SPV Transfer			
3.	Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7 GW): Part C	TBCB	24 months from SPV Transfer	RECPDCL	RECPDCL	5,340
4.	Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7 GW): Part D	TBCB	24 months from SPV Transfer	PFCCL	PFCCL	3,455
5.	Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7 GW): Part E2	TBCB	21 months from SPV Transfer	RECPDCL	RECPDCL	697
6.	Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-V (8 GW): Part A	TBCB	48 months for Bipole-1 and 54 months for Bipole-2 from SPV Transfer	RECPDCL	RECPDCL	24,819
7.	Transmission System for Evacuation of Power	TBCB	48 months	PFCCL	PFCCL	12,000



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Sl. No.	Transmission Scheme	Implementation Mode	Tentative Implementation timeframe	Survey Agency	BPC	Estimated Cost (Rs. Crs)
	from potential renewable energy zone in Khavda area of Gujarat under Phase-V (8 GW): Part C		from SPV Transfer			
8.	Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-2 :5.5 GW) (Jaisalmer/Barmer Complex): Part A	TBCB	24 months from SPV Transfer	RECPDCL	RECPDCL	2,206
9.	Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-2 :5.5 GW) (Jaisalmer/Barmer Complex): Part B	TBCB	24 months from SPV Transfer	PFCCL	PFCCL	3,279
10.	Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-2 :5.5 GW) (Jaisalmer/Barmer Complex): Part C	TBCB	24 months from SPV Transfer	CTUIL	RECPDCL	2,708
11.	Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-2 :5.5 GW) (Jaisalmer/Barmer Complex): Part D	TBCB	24 months from SPV Transfer	CTUIL	PFCCL	2,227
12.	Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-2 :5.5 GW) (Jaisalmer/Barmer Complex): Part E	TBCB	24 months from SPV Transfer	RECPDCL	RECPDCL	3,251



Sl. No.	Transmission Scheme	Implementation Mode	Tentative Implementation timeframe	Survey Agency	BPC	Estimated Cost (Rs. Crs)
13.	Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-2 :5.5 GW) (Jaisalmer/Barmer Complex): Part F (By clubbing Part F1 & F2)	TBCB	24 months from SPV Transfer	PFCCCL	PFCCCL	2,735
14.	Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-2 :5.5 GW) (Jaisalmer/Barmer Complex): Part H1	TBCB	24 months from SPV Transfer	RECPDCL	RECPDCL	3,674

(b) The broad scope of ISTS schemes recommended by NCT to MoP for implementation through TBCB mode, to be notified in Gazette of India is as given below:

Sl. No.	Name of Scheme & Implementation timeframe	Broad Scope	Bid Process Coordinator
1.	Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7GW): Part A Tentative Implementation Timeframe: 24 months	i. Creation of 765 kV bus section-II at KPS3 (GIS) along with 765 kV Bus Sectionaliser & 1x330MVAR, 765 kV Bus Reactors on Bus Section-II Bus section – II shall be created at 765 kV & 400 kV level both with 3x1500 MVA, 765/400 kV ICTs at Bus Section-II ii. Creation of 400 kV bus section-II at KPS3 (GIS) along with 400 kV Bus Sectionaliser & 1x125MVAR, 400 kV Bus Reactors on Bus Section-II and 3 Nos. 400 kV bays at Bus Section-II for RE interconnection	RECPDCL



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Sl. No.	Name of Scheme & Implementation timeframe	Broad Scope	Bid Process Coordinator
		iii. KPS3 (GIS) – Lakadia (AIS) 765 kV D/C line iv. 2 Nos. of 765 kV line bays each at KPS3 (GIS) & Lakadia (AIS) for KPS3 (GIS) – Lakadia (AIS) 765 kV D/C line v. ± 300 MVAR STATCOM with 1x125 MVAR MSC, 2x125 MVAR MSR at KPS3 400 kV Bus section-2 vi. KPS1 (GIS)– Bhuj PS 765 kV 2nd D/C line vii. 2 Nos. of 765 kV line bays each at KPS1 (GIS) & Bhuj PS for KPS1 (GIS) – Bhuj PS 765 kV D/C line viii. 330 MVAR, 765 kV switchable line reactors at KPS3 end of KPS3 (GIS) – Lakadia 765 kV D/C line (with NGR bypass arrangement) (Detailed scope as approved by 14th NCT and subsequent amendments thereof)	
2.	Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7 GW): Part B Tentative Implementation timeframe: 24 months from SPV transfer	i. Establishment of 2x1500 MVA, 765/400 kV & 2x500 MVA, 400/220 kV GIS S/s at a suitable location South of Olpad (between Olpad and Ichhapore) with 2x330 MVAR, 765 kV & 1x125 MVAR, 420 kV bus reactors. ii. Vadodara(GIS) – South Olpad (GIS) 765 kV D/C line iii. 240 MVAR switchable line	PFCCL



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Sl. No.	Name of Scheme & Implementation timeframe	Broad Scope	Bid Process Coordinator
		reactors on each ckt at Vadodara(GIS) end of Vadodara(GIS) –South Olpad(GIS) 765 kV D/C line (with NGR bypass arrangement) iv. 2 Nos. of 765 kV line bays at Vadodara(GIS) for Vadodara(GIS) – South olpad(GIS) 765 kV D/C line v. LILO of Gandhar – Hazira 400 kV D/c line at South Olpad (GIS) using twin HTLS conductor with minimum capacity of 1700MVA per ckt at nominal voltage vi. Ahmedabad – South Olpad(GIS) 765 kV D/c line vii. 240 MVAR switchable line reactors on each ckt at Ahmedabad & South Olpad (GIS) end of Ahmedabad – South Olpad(GIS) 765 kV D/c line (with NGR bypass arrangement) viii. 2 Nos. of 765 kV line bays at Ahmedabad S/s for Ahmedabad – South Olpad(GIS) 765 kV D/c line (Detailed scope as approved by 14th NCT and subsequent amendments thereof)	
3.	Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7 GW): Part C	i. Establishment of 4x1500 MVA 765/400 kV & 2x500 MVA 400/220 kV Boisar-II (GIS) with 2x330 MVAR, 765 kV bus reactor and 2x125 MVAR, 420 kV bus reactor. [2x1500 MVA, 765/400 kV ICTs shall be on each 400 kV section and	RECPDCL



Sl. No.	Name of Scheme & Implementation timeframe	Broad Scope	Bid Process Coordinator
	Tentative Implementation timeframe: 24 months from SPV transfer	2x500MVA, 400/220 kV ICTs shall be on 400 kV bus section-II. 2x125MVAR Bus reactors shall be such that one bus reactor is placed on each 400 kV bus section. 400 kV Bus Sectionalizer to be kept under normally OPEN condition.] ii. South Olpad (GIS) – Boisar-II (GIS) 765 kV D/c line iii. 2 Nos. of 765 kV line bays at South Olpad (GIS) for termination of South Olpad (GIS) – Boisar-II (GIS) 765 kV D/c line iv. 240 MVAR switchable line reactors on each ckt at South Olpad(GIS) & Boisar-II(GIS) end of South Olpad(GIS) – Boisar-II(GIS) 765 kV D/c line (with NGR bypass arrangement) v. LILO of Navsari(New) – Padghe(PG) 765 kV D/c line at Boisar-II vi. Boisar-II (Sec-II) – Velgaon(MH) 400 kV D/c (Quad ACSR/AAAC/AL59 moose equivalent) line vii. 2 Nos. of 400 kV line bays at Velgaon(MH) for termination of Boisar-II – Velgaon(MH) 400 kV D/c (Quad ACSR/AAAC/AL59 moose equivalent) line viii. LILO of Babhaleswar – Padghe (M) 400 kV D/c line at Boisar-II (Sec-I) using twin HTLS	



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Sl. No.	Name of Scheme & Implementation timeframe	Broad Scope	Bid Process Coordinator
		conductor with minimum capacity of 1700 MVA per ckt at nominal voltage ix. 80 MVAR switchable line reactors at Bosar-II end of Boisar-II – Babhaleswar 400 kV D/c line (with NGR bypass arrangement) formed after above LILO x. ± 200MVAR STATCOM with 2x125 MVAR MSC, 1x125 MVAR MSR at 400 kV bus section-I of Boisar-II and ± 200MVAR STATCOM with 2x125 MVAR MSC, 1x125 MVAR MSR at 400 kV bus section-II of Boisar-II xi. ± 300 MVAR STATCOM with 3x125 MVAR MSC, 1x125 MVAR MSR at 400 kV level of Navsari(New)(PG) S/s with 1 No. of 400 kV bay (GIS) (Detailed scope as approved by 14th NCT and subsequent amendments thereof)	
4.	Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7 GW): Part D Tentative Implementation timeframe: 24 months from SPV transfer	i. Establishment of 2x1500 MVA 765/400 kV & 3x500 MVA 400/220 kV Pune-III (GIS) S/s with 2x330 MVAR, 765 kV bus reactor and 2x125 MVAR, 420 kV bus reactor. ii. Boisar-II – Pune-III 765 kV D/c line iii. 330 MVAR switchable line reactors at Pune-III end of Boisar-II – Pune-III 765 kV D/c line (with NGR bypass	PFCCL



Sl. No.	Name of Scheme & Implementation timeframe	Broad Scope	Bid Process Coordinator
		arrangement). iv. 2 Nos. of 765 kV line bays at Boisar-II for termination of Boisar-II – Pune-III 765 kV D/c line v. LILO of Narendra (New) – Pune(GIS) 765 kV D/c line at Pune-III vi. 330 MVAR switchable line reactors at Pune-III end of Narendra (New) – Pune-III (GIS) 765 kV D/c line (with NGR bypass arrangement). vii. LILO of Hinjewadi - Koyna 400 kV S/c line at Pune-III(GIS) S/s viii. 80 MVAR, 420 kV switchable Line Reactors on each ckt at Pune-III (GIS) end of Pune-III (GIS) – Koyna 400 kV line formed after above LILO (with NGR bypass arrangement). (Detailed scope as approved by 14th NCT and subsequent amendments thereof)	
5.	Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7 GW): Part E2 Tentative Implementation timeframe: 21 months from SPV transfer	i. Augmentation of transformation capacity at KPS2 (GIS) by 2x1500 MVA, 765/400 kV ICT on Bus Section-I (5th & 6th) & 2x1500 MVA, 765/400 kV ICT on Bus section-II (7th & 8th) & 2 Nos. 400 kV bays at Bus Section-I for RE interconnection and 3 Nos. 400 kV bays at Bus Section-II for RE interconnection (Detailed scope as approved by 14th NCT and subsequent	RECPDCL



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Sl. No.	Name of Scheme & Implementation timeframe	Broad Scope	Bid Process Coordinator
		amendments thereof)	
6.	Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-V (8 GW): Part A Tentative Implementation timeframe: 48 months for Bipole-1 (2x1500MW) and 54 months for Bipole-2 (2x1500MW)	i. Establishment of 6000 MW, ± 800 kV KPS2 (HVDC) [LCC] terminal station (4x1500 MW) along with associated interconnections with 400 kV HVAC Switchyard ii. Establishment of 6000 MW, ± 800 kV Nagpur (HVDC) [LCC] terminal station (4x1500 MW) along with associated interconnections with 400 kV HVAC Switchyard iii. ± 800 kV HVDC Bipole line (Hexa lapwing) between KPS2(HVDC) and Nagpur (HVDC) (1200 km) (with Dedicated Metallic Return) (capable to evacuate 6000 MW with overload as specified) iv. Establishment of 6x1500 MVA, 765/400 kV ICTs at Nagpur S/s along with 2x330 MVAR (765 kV) & 2x125 MVAR, 420 kV bus reactors along with associated interconnections with HVDC Switchyard. The 400 kV bus shall be established in 2 sections through 1 set of 400 kV bus sectionaliser so that 3x1500 MVA ICTs are placed in each section. The bus sectionaliser shall be normally CLOSED and may be opened based on Grid requirement. v. LILO of Wardha – Raipur 765 kV one D/c line (out of 2xD/c	PFCCL



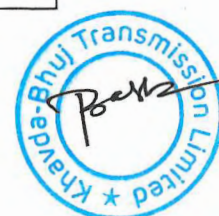
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Sl. No.	Name of Scheme & Implementation timeframe	Broad Scope	Bid Process Coordinator
		lines) at Nagpur. vi. Installation of 240 MVAR switchable line reactor at Nagpur end on each ckt of Nagpur – Raipur 765 kV D/c line. (Detailed scope as approved by 14th NCT and subsequent amendments thereof)	
7.	Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-V (8GW): Part C Tentative Implementation timeframe: 48 months from SPV transfer	i. Establishment of 2500 MW, ± 500 kV KPS3 (HVDC) [VSC] terminal station (2x1250 MW) at a suitable location near KPS3 substation with associated interconnections with 400 kV HVAC Switchyard ii. Establishment of 2500 MW, ± 500 kV South Olpad (HVDC) [VSC] terminal station (2x1250 MW) along with associated interconnections with 400 kV HVAC Switchyard of South Olpad S/s iii. Establishment of KPS3 (HVDC) S/s along with 2x125MVAR, 420kV bus reactors along with associated interconnections with HVDC Switchyard. The 400 kV bus shall be established in 2 sections through 1 set of 400 kV bus sectionaliser to be kept normally OPEN. 400/33 kV, 2x50 MVA transformers for exclusively supplying auxiliary power to HVDC terminal. iv. KPS3 – KPS3 (HVDC) 400 kV 2xD/c (Quad ACSR /AAAC /	RECPDCL



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Sl. No.	Name of Scheme & Implementation timeframe	Broad Scope	Bid Process Coordinator
		AL59 moose equivalent) line along with the line bays at both substations v. ± 500 kV HVDC Bipole line between KPS3(HVDC) and South Olpad (HVDC) (with Dedicated Metallic Return) (capable to evacuate 2500 MW) (Detailed scope as approved by 14th NCT and subsequent amendments thereof)	
8.	Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-2 :5.5 GW) (Jaisalmer/Barmer Complex): Part A Tentative Implementation timeframe: 24 months from SPV transfer	i. Establishment of 4x1500 MVA, 765/400 kV & 5x500 MVA, 400/220 kV Fatehgarh-IV (Section-2) Pooling Station along with 2x240 MVAR (765 kV) Bus Reactor & 2x125 MVAR (420 kV) Bus Reactor ii. Fatehgarh-IV (Section-2) PS – Bhinmal (PG) 400 kV D/c line (Twin HTLS) along with 50 MVAR switchable line reactor on each ckt. at each end iii. LILO of both ckts of 765 kV Fatehgarh-III- Beawar D/c line (2nd) at Fatehgarh-IV (Section-2) PS along with 330 MVAR switchable line reactor at Fatehgarh-IV PS end of each ckt of 765 kV Fatehgarh-IV- Beawar D/c line (formed after LILO) iv. 2 Nos. of 400 kV line bays at Bhinmal (PG) (Detailed scope as approved by 14th NCT and subsequent amendments thereof)	PFCCL



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Sl. No.	Name of Scheme & Implementation timeframe	Broad Scope	Bid Process Coordinator
9.	Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-2 :5.5 GW) (Jaisalmer/Barmer Complex): Part B Tentative Implementation timeframe: 24 months from SPV transfer	i. Establishment of 2x1500 MVA, 765/400 kV Substation at suitable location near Sirohi along with 2x240 MVAR (765 kV) & 2x125 MVAR (420 kV) Bus Reactor ii. Fatehgarh-IV (Section-2) PS – Sirohi PS 765 kV D/c line along with 240 MVAR switchable line reactor for each circuit at each end iii. Sirohi PS-Chittorgarh (PG) 400 kV D/c line (Quad) along with 80 MVAR switchable line reactor for each circuit at Sirohi PS end. iv. 2 No. of 400 kV line bays at Chittorgarh (PG) S/s v. 2 No. of 765 kV line bays at Fatehgarh-IV (Section-2) PS (Detailed scope as approved by 14th NCT and subsequent amendments thereof)	RECPDCL
10.	Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-2 :5.5 GW) (Jaisalmer/Barmer Complex): Part C Tentative Implementation timeframe: 24 months from SPV transfer	i. Establishment of 3x1500 MVA, 765/400 kV & 5x500 MVA, 400/220 kV Mandsaur Pooling Station along with 2x330 MVAR (765 kV) Bus Reactors & 2x125 MVAR, 420 kV Bus Reactor. ii. Mandsaur PS – Indore(PG) 765 kV D/c Line iii. 1x330 MVAR, 765 kV switchable line reactor (SLR) on each ckt at Mandsaur end of Mandsaur PS – Indore (PG) 765	PFCCL



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Sl. No.	Name of Scheme & Implementation timeframe	Broad Scope	Bid Process Coordinator
		kV D/c Line iv. 2 Nos. of 765 kV line bays at Indore(PG) for termination of Mandsaur PS – Indore(PG) 765 kV D/c Line (Detailed scope as approved by 14th NCT and subsequent amendments thereof)	
11.	Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-2 :5.5 GW) (Jaisalmer/Barmer Complex): Part D Tentative Implementation timeframe: 24 months from SPV transfer	i. Beawar- Mandsaur PS 765 kV D/c line along with 240 MVAR switchable line reactor for each circuit at each end ii. 2 Nos. of 765 kV line bays each at Beawar S/s & Mandsaur S/s (Detailed scope as approved by 14th NCT and subsequent amendments thereof)	RECPDCL
12.	Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-2 :5.5 GW) (Jaisalmer/Barmer Complex): Part E Tentative Implementation timeframe: 24 months from SPV transfer	i. Establishment of, 765 kV Substation at suitable location near Rishabdeo (Distt. Udaipur) along with 2x240 MVAR (765 kV) Bus Reactor ii. Sirohi PS- Rishabdeo 765 kV D/c line along with 330 MVAR switchable line reactor for each circuit at Sirohi end iii. Rishabdeo - Mandsaur PS 765 kV D/c line along with 240 MVAR switchable line reactor for each circuit at Rishabdeo end iv. LILO of one circuit of 765 kV Chittorgarh-Banaskanta D/c line at Rishabdeo S/s v. 2 Nos. of 765 kV line bays each	PFCCL



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Sl. No.	Name of Scheme & Implementation timeframe	Broad Scope	Bid Process Coordinator
		at Sirohi PS & Mandsaur S/s (Detailed scope as approved by 14 th NCT and subsequent amendments thereof)	
13.	Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-2 :5.5 GW) (Jaisalmer/Barmer Complex): Part F [by clubbing Part F1 & F2] Tentative Implementation timeframe: 24 months from SPV transfer	i. Establishment of 3x1500 MVA, 765/400 kV & 2x500 MVA, 400/220 kV Barmer-I Pooling Station along with 2x240 MVAR (765 kV) Bus Reactor & 2x125 MVAR (420 kV) Bus Reactor ii. Fatehgarh-III (Section-2) PS – Barmer-I PS 400 kV D/c line (Quad) iii. Barmer-I PS– Sirohi PS 765 kV D/c line along with 240 MVAR switchable line reactor for each circuit at each end iv. 2 Nos. of 400 kV line bays at Fatehgarh-III (Section-2) PS v. 2 Nos. of 765 kV line bays at Sirohi PS (Detailed scope as approved by 14 th NCT and subsequent amendments thereof)	RECPDCL
14.	Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-2 :5.5 GW) (Jaisalmer/Barmer Complex): Part H1 Tentative Implementation timeframe: 24 months from SPV transfer	i. Establishment of 765/400 (2x1500 MVA), 400/220 (2x500 MVA) & 220/132 kV (3x200 MVA) Kurawar S/s with 2x330 MVAR, 765 kV bus reactor and 1x125 MVAR, 420 kV bus reactor. ii. Mandsaur – Kurawar 765 kV D/c line. iii. 240 MVAR switchable line	PFCCL



Sl. No.	Name of Scheme & Implementation timeframe	Broad Scope	Bid Process Coordinator
		reactors on each ckt at both ends of Mandsaur – Kurawar 765 kV D/c line. iv. 2 Nos. of 765 kV line bays at Mandsaur S/s for termination of Mandsaur – Kurawar 765 kV D/c line. v. LILO of Indore – Bhopal 765 kV S/c line at Kurawar. vi. Kurawar – Ashtha 400 kV D/c (Quad ACSR/AAAC/AL59 moose equivalent) line. vii. 2 Nos. of 400 kV line bays at Ashtha (MP) S/s for termination of Kurawar – Ashtha 400 kV D/c line. viii. LILO of one circuit of Indore – Itarsi 400 kV D/c line at Astha ix. 2 Nos. of 400 kV line bays at Ashtha (MP) S/s for LILO of one circuit of Indore – Itarsi 400 kV D/c line at Astha x. Shujalpur – Kurawar 400 kV D/c (Quad ACSR/AAAC/AL59 moose equivalent) line xi. 2 Nos. of 400 kV line bays at Shujalpur(PG) S/s for termination of Shujalpur – Kurawar 400 kV D/c line (Detailed scope as approved by 14th NCT and subsequent amendments thereof)	

V. Modification in the earlier approved/notified transmission schemes:



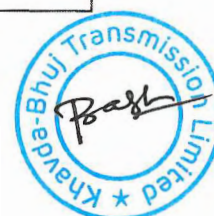
(a) Revised timeframe of the transmission scheme “Transmission system for evacuation of power from Luhri Stage-I HEP”

The timeframe of the transmission scheme “Transmission system for evacuation of power from Luhri Stage-I HEP”, would be revised to 31st August, 2026, in the matching timeframe of Luhri Stage-I HEP.

(b) Delinking of Fatehgarh-II- Bhadla-III 400 kV D/c line from transmission scheme “Transmission system for evacuation of power from REZ in Rajasthan (20 GW) under Phase-III Part B1”:

Revised scope of the scheme “Transmission system for evacuation of power from REZ in Rajasthan (20 GW) under Phase-III Part B1” is as follows:

Revised Scope
Establishment of 2x1500 MVA 765/400 kV & 3x500 MVA 400/220 kV pooling station at Bhadla-3 along with 2x330 MVAR (765 kV) Bus Reactor & 2x125 MVAR (420 kV) Bus Reactor • 765/400 kV 1500 MVA ICTs: 2 Nos. (7x500 MVA including one spare unit) • 765 kV ICT bays - 2 Nos. • 400/220 kV, 500 MVA ICT – 3 Nos. • 765 kV line bays -2 Nos. • 400 kV ICT bays – 5 Nos. • 220 kV ICT bays - 3 Nos. • 220 kV line bays: 5 Nos. • 330 MVAR Bus Reactor-2 Nos. (7x110 MVAR, including one spare unit) • 765 kV reactor bay- 2 Nos. • 125 MVAR, 420kV bus reactor - 2 Nos. • 420 kV reactor bay - 2 Nos. <u>Future provisions:</u> Space for



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Revised Scope
• 765/400 kV ICTs along with bays: 2 Nos. • 765 kV line bay along with switchable line reactor: 6 Nos. • 765 kV line bay: 4 Nos. • 765 kV Bus Reactor along with bays: 2 Nos. • 400/220 kV ICTs along with bays: 10 Nos. • 400 kV line bays: 8 Nos. • 400 kV line bays along with switchable line reactor: 8 Nos. • 400 kV Bus Reactor along with bays: 2 Nos. • 400 kV Sectionalization bay: 2 sets • 220 kV line bays: 12 Nos. • 220 kV sectionalization bay: 2 sets
Bhadla-3 PS – Sikar-II S/s 765 kV D/c line along with 330 MVAR Switchable line reactor for each circuit at each end of Bhadla-3 PS – Sikar-II S/s 765 kV D/c line • Switching equipment for 765 kV 330 MVAR switchable line reactor – 4 Nos. • 765 kV, 330 MVAR Switchable line reactor- 4 Nos.
765 kV line bays at Sikar-II • 765 kV line bays – 2 Nos.
Note: iv. <i>Provision of suitable sectionalization shall be kept at Bhadla-3 at 400 kV & 220 kV level to limit short circuit level.</i> v. <i>Developer of Sikar-II S/s to provide space for 2 Nos. of 765 kV line bays at Sikar-II S/s along with space for switchable line reactors.</i> vi. <i>Space provision for future 2 Nos. 220 kV Bus Coupler bay and 2 Nos. Transfer Bus Coupler Bay shall be kept for bus switching scheme requirement.</i>





Annex-I

List of Participants of the 14th meeting of NCT**CEA:**

1. Sh. Ghanshyam Prasad, Chairperson, CEA and Chairman, NCT
2. Sh. A. K. Rajput, Member (Power Systems)
3. Sh. Ajay Talegaonkar, Member (E&C)
4. Sh. Ishan Sharan, Chief Engineer (PSPA-I)
5. Sh. Upendra Kumar, Chief Engineer (PCD)
6. Sh. B.S. Bairwa, Director (PSPA-II)
7. Sh. Deepanshu Rastogi, Deputy Director (PSPA-II)
8. Sh. Manish Maurya, Deputy Director (PSPA-II)
9. Sh. Pranay Garg, Deputy Director (PSPA-II)
10. Sh. Kanhaiya Singh Kushwaha, Assistant Director (PSPA-I)
11. Sh. Ajay Malav, Assistant Director (PSPA-II)

MoP:

1. Sh. Om Kant Shukla, Director (Trans.)

MNRE:

1. Sh. Tarun Singh, Scientist D

SECI:

1. Sh. Sanjay Sharma, Director
2. Sh. R.K. Agarwal, Consultant

CTUIL:

1. Sh. P.C. Garg, COO
2. Sh. Ashok Pal, Deputy COO
3. Sh. Jasbir Singh, CGM
4. Sh. Sourov Chakraborty, CGM
5. Sh. P.S Das, Senior GM
6. Sh. V Thiagarajan, Senior GM
7. Sh. Kashish Bhambhani, GM
8. Sh. Sandeep Kumawat, DGM
9. Sh. Chinmay Sharma, Chief Manager
10. Sh. Pratyush Singh, Chief Manager

GRID India:

1. Sh. Rajiv Porwal, ED
2. Sh. Surajit Banerjee, CGM
3. Sh. Vivek Pandey, GM
4. Sh. Priyam Jain, Manager

Expert Member:

1. Ms. Seema Gupta
2. Dr. Radheshyam Saha



**CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI****Petition No. 310/TL/2023****Coram:****Shri Jishnu Barua, Chairperson
Shri Arun Goyal, Member****Date of Order: 6th June, 2024****In the matter of**

Application under Sections 14 and 15 of the Electricity Act, 2003 read with Central Electricity Regulatory Commission (Procedure, Terms and Conditions for Grant of Transmission Licence and other related matters) Regulations, 2009 for the grant of separate Transmission Licence for implementation of the Transmission System for evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7 GW): Part E1 on Regulated Tariff Mechanism (RTM) route.

And**In the matter of**

Khavda- Bhuj Transmission Limited,
C/o Khavda - Bhuj Transmission Limited,
C 105, Anand Niketan,
New Delhi 110021

.....Petitioner**Vs.**

- 1. Adani Renewable Energy Holding Four Limited,**
Adani Corporate House, Shantigram, Nr.
Vaishno Devi Circle, S G Highway, Khodiyar,
Ahmedabad – 82421.
- 2. Central Transmission Utility of India Limited,**
Plot No.2, Sector 29,
Gurgaon-122001
- 3. Madhya Pradesh Power Management Company Limited,**
Block No.-11, Ground Floor,
Shakti Bhavan, Vidhyut Nagar,
Rampur, Jabalpur- 482 008, Madhya Pradesh
- 4. Chhattisgarh State Power Distribution Company Limited,**
P.O. Sunder Nagar, Dangania,
Raipur – 492013, Chhattisgarh



5. Maharashtra State Electricity Distribution Company Limited,
Prakashgad, 4th Floor,
Bandra (East), Mumbai- 400051

6. Gujarat Urja Vikas Nigam Limited,
Vidhyut Bhavan,
Race Course, Vadodara- 390007

7. DNH Power Distribution Corporation Limited,
66 kV, Amli Ind. Estate,
Silvasa-396230, Dadar Nagar Haveli

8. Electricity Department, Government of Goa,
Vidyut Bhavan, Near Mandvi Hotel,
Panaji, Goa- 403001

9. Dadra And Nagar Haveli And Daman & Diu Power Distribution Corporation Limited,
1st & 2nd Floor, Vidyut Bhavan,
Silvassa, Dadra & Nagar Haveli – 396230

.....Respondents

Following were present:

Shri Bhavesh Kundalia, KBTL
Shri Siddharth Sharma, CTUIL
Shri Akshayvat Kislay, CTUIL

ORDER

The Petitioner, Khavda-Bhuj Transmission Limited (KBTL), has filed the present Petition under Sections 14 and 15 of the Electricity Act, 2003 (hereinafter referred to as 'the Act') read with the provisions of the Central Electricity Regulatory Commission (Terms and Conditions for grant of Transmission Licence and other related matters) Regulations, 2009 (hereinafter referred to as 'the Transmission Licence Regulations') for the grant of a separate transmission licence for implementation of the transmission system for the "Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7 GW): Part EI" on the Regulated Tariff Mechanism (RTM) mode (hereinafter referred to as the 'transmission scheme'). The scope of the project for which the transmission licence has been sought is as follows:



Asset No.	Name of the scheme and Implementation timeframe	Estimated Cost (₹ crore)	Remark
Asset-1	Transmission System for Evacuation of Power from potential renewable energy zone in the Khavda area of Gujarat under Phase-IV (7 GW): Part E1 Implementation timeframe: 24 months from the date of allocation	216	Approved to be implemented under RTM by Khavda Bhuj Transmission Limited
Asset-2	Implementation of additional line bay equipment including other miscellaneous works required for physical interconnection of dedicated transmission line of RE Developer at bay no. 412 of KPS1 (400kV Bus Section-1) Implementation timeframe: 24 months from the date of SPV transfer which is 26.12.2023	4.7	Approved to be implemented under RTM by Khavda Bhuj Transmission Limited

2. The Petitioner has made the following prayers:

"(a) Grant Separate Transmission Licence to the Applicant for implementation of "Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7 GW): Part EI" and "Interconnection of RE developer's DTL at Bay no 412 of KPS-1 (400kV bus section-1)"on Regulated Tariff Mechanism (RTM) basis with detailed scope as per para 8 and para 12 respectively.

(b) Allow the Applicant liberty to approach the Commission for determination of transmission charges for the aforementioned additional scope in Transmission license in accordance with Sections 61, 62 of the Electricity Act, 2003.

(c) Condone any inadvertent errors omissions/ errors / shortcomings and permit the Petitioner to add/change/modify/alter these filings and make further submissions as may be required at a future date.

(d) Pass any such other order / orders, as may be deemed fit and proper in the facts and circumstances of the case."

3. The Petitioner company was incorporated as a special purpose vehicle by PFC Consulting Limited (PFCCL) as part of the Tariff Based Competitive Bidding ('TBCB')



process for implementation of the transmission system of the "Transmission Scheme for evacuation of 3 GW RE injection at Khavda P.S. under Phase-I" (hereinafter referred to as "the Project") on a Build, Own, Operate and Maintain (BOOM) basis. Adani Energy Solutions Limited (AESL), formally known as Adani Transmission Limited (ATL), participated in the competitive bidding process conducted by PFCCL and upon emerging as the successful bidder, a Letter of Intent (LOI) was issued by PFCCL to AESL on 22.12.2021. In accordance with the bidding documents, AESL acquired 100% of the shareholding in KBTL by executing a Share Purchase Agreement with PFCCL on 18.1.2022. KBTL entered into a Transmission Service Agreement (TSA) with the LTTCs on 19.8.2021. The Commission, in its order dated 16.6.2022 in Petition No. 107/TL/2022, granted a transmission licence to KBTL to establish a transmission system for the "Transmission Scheme for evacuation of 3 GW RE injection at Khavda P.S. under Phase-I" on a Build, Own, Operate and Maintain ("BOOM") basis consisting of the following elements:

	Name of the Transmission Element	Scheduled COD in months from Effective Date
1.	Establishment of 3X1500 MVA 765/400 kV Khavda (GIS) with 1X330 MVAR 765 kV bus reactor and 1X125 MVAR 420 kV bus reactor. • 765/400 kV, 1500 MVA ICT - 3 Nos. • 765 kV ICT bays - 3 Nos. • 400 kV ICT bays - 3 Nos. • 330 MVAR 765 kV bus reactor -1 No. • 125 MVAR 420 kV bus reactor -1 No. • 765 kV reactor bay - 1 Nos. • 765 kV line bay - 2 Nos. • 400 kV reactor bay - 1 No. • 400 kV line bay - 3 Nos. • 500 MVA, 765/400 kV Spare ICT - 1 No. • 110 MVAR, 765 kV, 1-ph reactor (spare unit) - 1 No. Future Scope: Space for • 765/400 kV, ICT along with bays - 5 Nos. • 400/220 kV, ICT along with bays- 4 Nos.	24 months



	• 765 kV Line bays along with switchable line reactor- 6 Nos. 400 kV Line bays – 9 Nos.	
	• 220 kV Line bays - 8 Nos. • 765 kV reactor along with bays - 2 Nos. • 400 kV reactor along with bays – 1 No. • 765 kV bus sectionalizer- 1 No. 400 kV bus sectionalizer- 1 No.	
2.	Khavda PS (GIS) – Bhuj PS 765 kV D/c line	
3.	2 nos. of line bays each at Bhuj PS for termination of Khavda PS (GIS) – Bhuj PS 765 kV D/c line • 765 kV AIS line bays – 2 Nos.	

Note:

I. As on date, Adani Green Energy Four Limited (AGEFL) has been granted Stage-I connectivity for 5000 MW and Stage-II Connectivity for 3500 MW at proposed Khavda PS at 400 kV level. Accordingly, 3 nos of 400 kV GIS line bay for termination of the dedicated lines from AGEFL's Solar PV project has been included under the scope of works of Khavda P.S. Further, 1000MW LTA application has been received from AGEFL and the same is under process.

II. GIS Bay (if any) for completion of diameter in one and half breaker scheme shall also be in the scope of the TSP.

4. The Petitioner has submitted that after the grant of a separate transmission licence, the Petitioner shall proceed to implement the transmission scheme under the RTM mode. The estimated completion cost of the transmission scheme, as per CTUIL's Office Memorandum (OM), is Rs. 216 crore for Asset-1 and Rs. 4.7 crore for Asset-2. After completion of the transmission scheme, the Petitioner shall approach the Commission for determination of the transmission charges in accordance with the Transmission Licence Regulations.

5. The transmission scheme was agreed in the 14th meeting of NCT held on 9.6.2023. The relevant portion of the minutes of the meeting held on 9.6.2023 are extracted as under:

S.No.	Name of the scheme and Implementation timeframe	Estimated cost (₹ crore)	Remark
1	Transmission System for Evacuation of Power from potential renewable energy	216	Approved to be implemented under RTM by



	zone in the Khavda area of Gujarat under Phase-IV (7 GW): Part E1 Implementation timeframe: 24 months from the date of allocation		Adani Transmission Limited [the TSP implementing KPS 1]
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Detailed scope of Part E1 Scheme is as under:

S. N	Scope of the Transmission Scheme	Capacity/ Route length
1	Augmentation of transformation capacity at KPS1 (GIS) by 1x1500 MVA, 765/400 kV ICT (8th) on bus section-I	1500 MVA, 765/400 kV ICT – 1 No. 765 kV bays – 2 Nos. on bus Section-I (including 1 No. bay for Dia completion) 400 kV bays – 2 Nos. on bus section-I (including 1 No. bay for Dia completion)

Note:

i. The TSP shall implement one complete diameter consisting of 2 main bays & 1 Tie bay at both 765 kV & 400 kV levels of KPS1 (GIS) for completion of diameter (GIS) in one and- half breaker scheme.

ii. Further, TSP of KPS1 shall provide space to carry out the above augmentation work.

6. Based on the above, CTUIL, vide its Office Memorandum dated 10.7.2023, approved the implementation of the “Transmission System for Evacuation of Power from potential renewable energy zone in the Khavda area of Gujarat under Phase-IV (7 GW): Part E1.” on RTM mode along with identifying the implementing agency and also addressing the same to the Ministry of Power, Government of India, and NCT.

7. Subsequently, a ‘Consultation Meeting for Evolving Transmission Schemes (CMETS) in Western Region’, vide its Minutes of the 25th Meeting dated 29.1.2024, notified implementation of Interconnection of RE developer’s DTL at Bay of KPS-1

(400 kV Bus section - 1) on RTM mode to the Petitioner Company in line with the MoP

Office order dated 28.10.2021 as under:

S.No.	Name of the scheme and Implementation timeframe	Estimated Cost (₹ crore)	Remark
1	Implementation of additional line bay equipment including other miscellaneous works required for physical interconnection of dedicated transmission line of RE Developer at bay no. 412 of KPS-1 (400kV Bus Section-1) Implementation timeframe: 24 months from the date of SPV transfer which is 26.12.2023	4.7	Approved to be implemented under RTM by Khavda Bhuj Transmission Limited

Note:

a. Implementation Timeframe has been aligned with the start date of connectivity mentioned the in-principle grant of Connectivity which is subject to the availability of Common Transmission System Augmentation for Connectivity under GNA [which inter-alia includes Khavda Phase-III transmission system with commissioning schedule of 24 month from the date of SPV transfer (26.12.2023)].

8. Based on the above, CTUIL vide its Office Memorandum dated 16.2.2024, approved the implementation of the "Interconnection of RE developer's DTL at Bay no. 412 of KPS-1 (400 kV bus section-1)" on RTM mode along with identifying the implementing agency and also addressing the same to the Ministry of Power, Government of India, and NCT.

9. The Commission, after considering the application of the Petitioner in light of the provisions of the Act and the Transmission Licence Regulations, vide its order dated 3.5.2024, *prima facie* proposed to grant a separate transmission licence to the Petitioner to implement the transmission projects detailed in paragraph 1 of the order.

The relevant extracts of the order dated 3.5.2024 are extracted as under:

"27. In the present case, the Petitioner does not fulfil any of the eligibility conditions for the grant of a transmission licence. However, in the 6th meeting of the National Committee on Transmission, it was indicated that as per the revised Terms of Reference issued by the Ministry of Power, Government of India, ISTS projects costing up to Rs. 100 crore to 500 crore or such limit as may be prescribed by the Ministry of Power from time to time would be approved by the CTUIL including its



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

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

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

29. *It is an established principle of law that the power to relax has to be strictly construed and is to be exercised judiciously and with caution. Further, the power to relax is to be exercised only when undue hardship is caused by the application of the rules or regulations. In the present case, the Petitioner is a transmission licensee who is already implementing the project defined under its scope through the TBCB mechanism. The present Petition is consequent to the office order 28.10.2021 notified by the Ministry of Power Government of India wherein CTUIL has been authorized to determine the mode of implementation of ISTS projects costing up to Rs. 100 crore to 500 crore. Pursuant to the direction of the Ministry of Power, CTUIL, vide its Office Memorandum dated 10.7.2023 and dated 16.2.2024, has determined a list of Projects to be implemented through a Regulated Tariff Mechanism, which also includes the instant Petition for the subject transmission system.*

30. *Since the Petitioner is already an inter-State transmission licensee and has been identified as an agency to implement the project as per the RTM, the Commission, in the exercise of power under Regulation 24, hereby relaxes the provision of Regulation 6 of the Transmission Licence Regulations and holds that the Petitioner is eligible for the grant of a transmission licence. We, hereby, direct that a public notice under clause (a) of sub-section (5) of Section 15 of the Act be published to invite suggestions or objections to grant a transmission licence aforesaid. The objections or suggestions, if any, shall be filed by any person before the Commission, by 20.5.2024."*

Hearing dated 22.5.2024

10. During the course of the hearing, the representative of the Petitioner submitted that vide order dated 3.5.2024, the Commission had observed that the Petitioner is eligible for the grant of a transmission licence as prayed for and accordingly, the Commission may consider granting the transmission licence to the Petitioner. Considering the submission made by the representative of the Petitioner, the Commission directed that the publication of public notice inviting the



suggestions/objections to the grant of a transmission licence to the Petitioner company under Section 15(5)(a) of the Electricity Act, 2003 be issued. Accordingly, a public notice under Sub-section (5) of Section 15 of the Act was published in all editions of the Hindu (English) and Rashtriya Sahara (Hindi). No suggestions/objections have been received from members of the public in response to the public notice.

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

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

(16) The Commission may, before granting licence or rejecting the application, provide an opportunity of hearing to the applicant, the Central Transmission Utility, the long-term customers, or the person who has filed suggestions and objections, or any other person: Provided further that the applicant shall always be given a reasonable opportunity of being heard before rejecting the application.”

12. In our order dated 3.5.2024, we had proposed to grant a transmission licence to the Petitioner company and directed for the issuance of public notice. In response to the public notice, no suggestions/ objections have been received. CTUIL, vide its letter 25.10.2023 and 4.4.2024, has recommended the grant of a transmission licence to the Petitioner company. The Commission, in its order dated 3.5.2024, had observed that the Petitioner does not fulfill the eligibility conditions for the grant of a transmission licence. Since, in the present case, the Petitioner is a transmission licensee that has already implemented the project defined under its scope through the TBCB mechanism, and the present Petition is consequent to the office order 28.10.2021 notified by the Ministry of Power Government of India, the Commission, vide said order dated 3.5.2024 relaxed the provision of Regulation 6 of the Transmission Licence



Regulations and held that the Petitioner is eligible for the grant of a transmission licence. Considering the submissions of the Petitioner and CTUIL, we direct that the transmission licence be granted to the Petitioner, Khavda- Bhuj Transmission Limited, to establish the transmission scheme through the RTM route as per the details given in paragraph 1 above.

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

- (a) The transmission licence shall, unless revoked earlier, remain in force for a period of 25 years from the date of issue;
- (b) The transmission licensee shall comply with the provisions of the Transmission Licence Regulations or any subsequent enactment thereof during the period of subsistence of the licence;
- (c) The licensee may make an application, two years before the expiry of the initial licence period, for the grant of the transmission licence for another term in accordance with Regulation 13 (2) of the Transmission Licence Regulations, which shall be considered by the Commission in accordance with law;
- (d) The licensee shall not enter into any contract for or otherwise engage in the business of trading in electricity during the period of subsistence of the transmission licence;
- (e) The licensee shall have the liability to pay the license fee in accordance with the provisions of the Central Electricity Regulatory Commission (Payment of Fees) Regulations, 2012, as amended from time to time or any subsequent



enactment thereof. Delay in payment or non-payment of licence fee or a part thereof for a period exceeding sixty days shall be construed as a breach of the terms and conditions of the licence;

(f) The licensee shall comply with the directions of the National Load Despatch Centre under Section 26 of the Act, or the Regional Load Despatch Centre under sub-section (3) of Section 28 or sub-section (1) of Section 29 of the Act, as may be issued from time to time for maintaining the availability of the transmission system;

(g) The licensee shall remain bound by the provisions of the Central Electricity Regulatory Commission (Standard of Performance of inter-State transmission licensees) Regulations, 2012 or subsequent enactment thereof;

(h) The licensee shall provide the non-discriminatory open access to its Transmission System for use by any other licensee, including a distribution licensee or an electricity trader, or generating company or any other person in accordance with the Act; the Central Electricity Regulatory Commission (Open Access in inter-State Transmission) Regulations, 2008; the Central Electricity Regulatory Commission (Connectivity and General Network Access to the inter-State Transmission System) Regulations, 2023; the Central Electricity Regulatory Commission (Indian Electricity Grid Code) Regulations, 2023, as amended from time to time or any subsequent re-enactments thereof;

(i) The licensee shall not undertake any other business for optimum utilization of the transmission system without prior intimation to the Commission and shall comply with the provisions of the Central Electricity Regulatory Commission



(Sharing of Revenue Derived from Utilization of Transmission Assets for other business) Regulations, 2020;

(j) The licensee shall remain bound by provisions of the Central Electricity Regulatory Commission (Sharing of inter-State Transmission Charges and Losses) Regulations, 2020 as amended from time to time;

(k) The licensee shall remain bound by the provisions of the Act, the Rules and Regulations framed thereunder, in particular, the Transmission Licence Regulations, the Grid Code, the Standards specified by the Central Electricity Authority, orders, and directions of the Commission issued from time to time;

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

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

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

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



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

16. Petition No. 310/TL/2023 is allowed in terms of the above.

Sd/
(Arun Goyal)
Member

sd/-
(Jishnu Barua)
Chairperson





ग्रिड-इंडिया
GRID-INDIA

Annexure-3
ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड
(भारत सरकार का उद्यम)
GRID CONTROLLER OF INDIA LIMITED
(A Government of India Enterprise)

117

[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.wrldc.in, E-mail : wrldc@grid-india.in, Tel: 022 28202690, Fax: 022 28235434, 28202630

प्रमाणपत्र संदर्भ : प.क्षे.भा.प्रे.के./KBTL/

दिनांक: 18/09/2025

पारेषण तत्वों एवं बे द्वारा सफल ट्रायल ऑपरेशन (विद्युत भार के साथ) का प्रमाण पत्र
Certificate of successful Trial Operation (with electrical load) of Transmission
Element(s)/bay(s)

Reference:

- KBTL Communication (U.ID-1090) dated 13.03.2025 (Format-I and IA)
- WRLDC Communication to KBTL dated 13.03.2025 (Format-II-Acknowledgement)
- KBTL request for charging & trial operation dated 01.08.2025
- WRLDC Communication to KBTL dated 19.03.2025, 27.06.2025 (Format-IV -1024, 1206)
- Charging codes from WRLDC to KBTL on 25.03.2025, 15.07.2025, 25.07.2025
- Communication dated 01-08-2025 & from KPSITL [C1-C4] [TR.ID- 437, 438]
- Communication from KBTL dated 17.09.2025 on compliance of Study/Protection requirements at WRLDC.

Based on the above documents under reference, it is hereby certified that the following Transmission elements/bays of **Khavda-Bhuj Transmission Limited (KBTL)** have successfully undergone trial operation (with electrical load) at **765/400KV Khavda PS1 SS:**

क्रमांक / S.No	पारेषण संपत्ति का नाम / Name of the Transmission Asset:	ट्रायल ऑपरेशन प्रारम्भ किए जाने का समय एवं तारीख / Date and Time of commencement of trial operation	ट्रायल ऑपरेशन समाप्ति का समय एवं तारीख / Date and time of completion of trial operation
1	1500 MVA 765/400kV ICT-8 at 765 / 400 KV Khavda PS1 KBTL	16-07-2025 19:21	17-07-2025 19:21
2	Main Bay (729) of 765/400kV ICT-8 at 765 / 400 KV Khavda PS1 KBTL	16-07-2025 19:21	17-07-2025 19:21
3	Tie Bay (728) of 765/400kV ICT-8 at 765 / 400 KV Khavda PS1 KBTL	25-07-2025 16:13	26-07-2025 16:13
4	Main Bay (438) of 765/400kV ICT-8 at 765 / 400 KV Khavda PS1 KBTL	16-07-2025 19:21	17-07-2025 19:21
5	727 bay of future Line at 765 / 400 KV Khavda PS1 KBTL	25-07-2025 16:13	26-07-2025 16:13
6	Main bay (436) of future 400/220kV ICT-1 (400kV KPS1-SRPL(PSS10) S/C as interim arrangement) at 765 / 400 KV Khavda PS1 KBTL	25-03-2025 01:14	26-03-2025 01:14



7	Tie bay (437) of future 400/220kV ICT-1 (400kV KPS1-SRPL(PSS10) S/C as interim arrangement) at 765 / 400 KV Khavda PS1 KBTL	16-07-2025 19:21	17-07-2025 19:21
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This certificate is being issued in accordance with Reg. 25 of CERC (Indian Electricity Grid Code) Regulations 2023 to certify trial operation of transmission element. Usage of this certificate for any other purpose is prohibited.

(Handwritten signature)

एम. एम. मेहेंदळे
कार्यपालक निदेशक, प.क्षे.भा.प्रे.के

To: प्रोजेक्ट इंचार्ज, खावड़ा भुज ट्रांसमिशन लिमिटेड

प्रति: 1. सदस्य सचिव, प.क्षे.वि.स, मुंबई

2. कार्यपालक निदेशक, रा.भा.प्रे.के, नई दिल्ली



Annexure-4



Ref: KBTL/Cost Plus CoD/03102025

Date 03.10.2025

To:

As per Distribution List

Sub: Declaration of Commercial Operation Date for Scope awarded by CTUIL Office Memorandum Dated 10.07.2023

Ref: 1. CTUIL Office Memorandum Dated 10.07.2023
2. CERC Order dated 06.06.2024 in Case No. 310/TL/2023 granting Separate Transmission License for scope granted on Regulated Tariff Mechanism
3. WRLDC Certificate of successful Trial Operation (with electrical load) of transmission element dated 18.09.2025

Dear Sir,

This has reference to the WRLDC letter dated 18.09.2025 regarding Certificate of successful Trial Operation (with electrical load) of Transmission Element(s)/bay(s) of Khavda-Bhuj Transmission Limited ('KBTL'). Hon'ble CERC vide its Order dated 06.06.2024 in Petition No. 310/TL/2023 granted Transmission License for additional scope of work to be executed under RTM.

Khavda-Bhuj Transmission Limited hereby submits that it has successfully completed additional scope of work awarded to it through CTUIL Office Memorandum dated 10.07.2023, marked and attached as **Annexure - 1**. Further, Regulation 27(1)(c) of Indian Electricity Grid Code, 2023 provides that Transmission Licensee shall declare CoD upon continuous twenty-four hours flow of power. Relevant extract from the Regulation is reproduced for easy reference:

"(c) Transmission System

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

KHAVDA-BHUJ TRANSMISSION LIMITED
Adani Corporate House
Shantigram, Near Vaishnav Devi Circle,
S. G. Highway, Khodiyar,
Ahmedabad 382 421
Gujarat, India
CIN: U40108DL2021GOI381217

Tel +91 79 2555 7555
Fax +91 79 2555 7177
info@adani.com
www.adanienergysolutions.com

Registered Office: C-105, Anand Niketan, New Delhi - 110 021.





In this regard, it is pertinent to note that WRLDC has confirmed operation (with electrical load) at 765/400KV Khavda PS1 SS as under:

Sr. No.	Name of Transmission Asset	Date of completion of trial operation	Time of completion of trial operation
1	1500 MVA 765/400kV ICT-8 at 765 / 400 KV Khavda PS1 KBTL	17-07-2025	19:21
2	Main Bay (729) of 765/400kV ICT-8 at 765 / 400 KV Khavda PS1 KBTL	17-07-2025	19:21
3	Tie Bay (728) of 765/400kV ICT-8 at 765 / 400 KV Khavda PS1 KBTL	26-07-2025	16:13
4	Main Bay (438) of 765/400kV ICT-8 at 765 / 400 KV Khavda PS1 KBTL	17-07-2025	19:21
5	727 bay of future Line with Line Reactor at 765 / 400 KV Khavda PS1 KBTL	26-07-2025	16:13
6	Main bay (436) of future 400/220kV ICT-1 (400kV KPS1-SRPL(PSS10) S/C as interim Arrangement) at 765 / 400 KV Khavda PS1 KBTL	26-03-2025	01:14
7	Tie bay (437) of future 400/220kV ICT-1 (400kV KPS1-SRPL(PSS10) S/C as interim arrangement) at 765 / 400 KV Khavda PS1 KBTL	17-07-2025	19:21

Copy of WRLDC Certificate of Successful Trial Operation dated 18.09.2025 is marked and attached as **Annexure – 2** and copy of declaration as per clause (3) of Regulation 26 of Indian Electricity Grid Code, 2023 is marked and attached as **Annexure – 3**.

KHAVDA-BHUJ TRANSMISSION LIMITED
Adani Corporate House
Shantigram, Near Vaishnav Devi Circle,
S. G. Highway, Khodiyar,
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Gujarat, India
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In accordance with Regulation 27 (1)(c) of Indian Electricity Grid Code, 2023, KBTL declares 27.07.2025 as date of commercial operation for Scope of work granted to KBTL and shall be entitled to payment of Transmission Charges w.e.f. 27.07.2025 in terms of the Applicable CERC Regulations.

Thanking You,
For, Khavda-Bhuj Transmission Limited

Prashant Kumar

Authorized Signatory,
Prashant Kumar
[Email: prashant.kumar1@adani.com](mailto:prashant.kumar1@adani.com)
Mo. +91 9810866555
Encl: As above
Distribution List



Executive Director - (Commercial), Central Transmission Utility of India Ltd, First Floor, Saudamini, Plot No.- 2, Sector- 29, Near IFFCO Chowk Metro Station, Gurgaon - 122 001	Chief Engineer. Western Regional Load Despatch Center, F-3, Central Road, MIDC Area, Marol, Andheri (East), Mumbai - 400 093
Head - Project Adani Renewable Energy Holding Four Limited National Council of YMCA of India Gate no. 5, Bharat Yuvak Bhavan, Jaising Road - New Delhi 110 001	Chairman cum Managing Director, Grid Controller of India Ltd B-9, 1 st Floor, Qutab Institutional Area, Katwaria Sarai, New Delhi - 110 016
Madhya Pradesh Power Management Company Limited, Block No.-11, Ground Floor, Shakti Bhavan, Vidhyut Nagar, Rampur, Jabalpur- 482 008, Madhya Pradesh	Chhattisgarh State Power Distribution Company Limited, P.O. Sunder Nagar, Dangania, Raipur - 492013, Chhattisgarh
Maharashtra State Electricity Distribution Company Limited, Prakashgad, 4th Floor, Bandra (East), Mumbai- 400051	Gujarat Urja Vikas Nigam Limited, Vidhyut Bhavan, Race Course, Vadodara- 390007

KHAVDA-BHUJ TRANSMISSION LIMITED
Adani Corporate House
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www.adanienergysolutions.com

Registered Office: C-105, Anand Niketan, New Delhi - 110 021.





DNH Power Distribution Corporation Limited, 66 kV, Amli Ind. Estate, Silvasa-396230, Dadar Nagar Haveli	Electricity Department, Government of Goa, Vidyut Bhavan, Near Mandvi Hotel, Panaji, Goa- 403001
Central Electricity Authority, Sewa Bhawan, R. K. Puram, Sector-1, New Delhi-110 066	Western Regional Power Committee F-3, MIDC Area, Marol, Opp. SEEPZ, Central Road, Andheri (East), Mumbai - 400 093

KHAVDA-BHUJ TRANSMISSION LIMITED
Adani Corporate House
Shantigram, Near Vaishnav Devi Circle,
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Annexure - 1

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

CENTRAL TRANSMISSION UTILITY OF INDIA LTD.

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

(A Government of India Enterprise)

Ref. No.: CTUIL/OM/09/052023

10th July 2023

1. The Chairman & Managing Director Power Grid Corporation of India Ltd., Saudamini, Plot No. 2, Sector-29, Gurgaon- 122 001.	2. CGM (TBCB) POWERGRID Bhuj Transmission Ltd. (a subsidiary of Power Grid Corporation of India Ltd.) Power Grid Corporation of India Ltd., Saudamini, Plot No. 2, Sector-29, Gurgaon- 122 001.
3. CGM (TBCB) KPS3 Transmission Ltd. (a subsidiary of Power Grid Corporation of India Ltd.) Power Grid Corporation of India Ltd., Saudamini, Plot No. 2, Sector-29, Gurgaon- 122 001.	4. Shri Bhavesh Kundalia Authorized Signatory Khavda-Bhuj Transmission Ltd., (a subsidiary of Adani Transmission Ltd.) Adani Corporate House, Shantigram, S.G. Highway, Ahmedabad 382 421
1. Shri Lokendra Singh Ranawat Head (Regulatory) Bhopal Dhule Transmission Co. Ltd. (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	

Sub: Implementation of ISTS Transmission/Communication Schemes approved by NCT in its 14th meeting held on 09-06-2023 under Regulated Tariff Mechanism (RTM).

NCT vide letter dated 07-07-2023 has awarded the following ISTS Transmission/Communication Scheme for its implementation under RTM mode by implementing agencies as indicated in the table below:

Sl. No.	Transmission/Communication Schemes	Implementing Agency
I. ISTS costing less than Rs. 100Cr.:		
1.	Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-V (8GW): Part A1.	POWERGRID
2.	Transmission System for Evacuation of Power from Rajasthan REZ Ph-IV (Part-2: 5.5GW) (Jaisalmer/Barmer Complex): Part H2.	BDTCL i.e., the owing the Indore- Bhopal 765kV line.



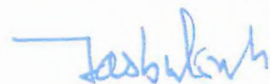
Sl. No.	Transmission/Communication Schemes	Implementing Agency
II. ISTS costing between Rs. 100Crs. To Rs. 500 Crs.:		
1.	Augmentation of transformation capacity by 1x1500MVA (3 rd), 765/400kV ICT at Maheshwaram (PG) substation in Telangana.	POWERGRID
2.	Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7GW): Part E1.	Khavda- Bhuj Transmission Ltd. (Subsidiary of Adani Transmission Ltd.)
3.	Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7GW): Part E3.	KPS3 Transmission Ltd. (Subsidiary of POWERGRID)
4.	Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7GW): Part E4.	POWERGRID
III. Communication schemes approved by NCT:		
1.	Requirement of additional FOTE of STM-16 capacity at Bhuj PS to cater to connectivity of RE Gencos.	POWERGRID
2.	Requirement of additional FOTE of STM-16 capacity at Bhuj-II substation to cater to connectivity of RE Gencos.	M/s PBTL
3.	Upgradation of STM-4 communication link of Dehgam, Ranchhodpura, Santhalpur Rep, Bhachau and CGPL Mundra to STM-16 capacity.	POWERGRID

Copy of NCT letter dated 07-07-2023 in this regard is enclosed at **Annexure-I**. The detailed scope of work along with implementation time frame for the above Transmission/Communication Schemes shall be as per the enclosed letter of NCT.

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

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

Yours faithfully,


(Jasbir Singh) 10/7/23
Chief General Manager

Encl.: as stated.





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.wrlcdc.in, E-mail : wrldc@grid-india.in, Tel: 022 28202690, Fax: 022 28235434, 28202630

प्रमाणपत्र संदर्भ : प.क्षे.भा.प्रे.के./KBTL/

दिनांक: 18/09/2025

पारेषण तत्वों एवं बे द्वारा सफल ट्रायल ऑपरेशन (विद्युत भार के साथ) का प्रमाण पत्र
Certificate of successful Trial Operation (with electrical load) of Transmission
Element(s)/bay(s)

Reference:

- KBTL Communication (U.ID-1090) dated 13.03.2025 (Format-I and IA)
- WRLDC Communication to KBTL dated 13.03.2025 (Format-II-Acknowledgement)
- KBTL request for charging & trial operation dated 01.08.2025
- WRLDC Communication to KBTL dated 19.03.2025, 27.06.2025 (Format-IV -1024, 1206)
- Charging codes from WRLDC to KBTL on 25.03.2025, 15.07.2025, 25.07.2025
- Communication dated 01-08-2025 & from KPSITL [C1-C4] [TR.ID- 437, 438]
- Communication from KBTL dated 17.09.2025 on compliance of Study/Protection requirements at WRLDC.

Based on the above documents under reference, it is hereby certified that the following Transmission elements/bays of **Khavda-Bhuj Transmission Limited (KBTL)** have successfully undergone trial operation (with electrical load) at **765/400KV Khavda PS1 SS:**

क्रमांक / S.No	पारेषण संपत्ति का नाम / Name of the Transmission Asset:	ट्रायल ऑपरेशन प्रारम्भ किए जाने का समय एवं तारीख / Date and Time of commencement of trial operation	ट्रायल ऑपरेशन समाप्ति का समय एवं तारीख / Date and time of completion of trial operation
1	1500 MVA 765/400kV ICT-8 at 765 / 400 KV Khavda PS1 KBTL	16-07-2025 19:21	17-07-2025 19:21
2	Main Bay (729) of 765/400kV ICT-8 at 765 / 400 KV Khavda PS1 KBTL	16-07-2025 19:21	17-07-2025 19:21
3	Tie Bay (728) of 765/400kV ICT-8 at 765 / 400 KV Khavda PS1 KBTL	25-07-2025 16:13	26-07-2025 16:13
4	Main Bay (438) of 765/400kV ICT-8 at 765 / 400 KV Khavda PS1 KBTL	16-07-2025 19:21	17-07-2025 19:21
5	727 bay of future Line at 765 / 400 KV Khavda PS1 KBTL	25-07-2025 16:13	26-07-2025 16:13
6	Main bay (436) of future 400/220kV ICT-1 (400kV KPS1-SRPL(PSS10) S/C as interim arrangement) at 765 / 400 KV Khavda PS1 KBTL	25-03-2025 01:14	26-03-2025 01:14



7	Tie bay (437) of future 400/220kV ICT-1 (400kV KPS1-SRPL(PSS10) S/C as interim arrangement) at 765 / 400 KV Khavda PS1 KBTL	16-07-2025 19:21	17-07-2025 19:21
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This certificate is being issued in accordance with Reg. 25 of CERC (Indian Electricity Grid Code) Regulations 2023 to certify trial operation of transmission element. Usage of this certificate for any other purpose is prohibited.

(Signature)

एम. एम. मेहेंदळे
कार्यपालक निदेशक, प.क्षे.भा.प्रे.के

To: प्रोजेक्ट इंचार्ज, खावड़ा भुज ट्रांसमिशन लिमिटेड

प्रति: 1. सदस्य सचिव, प.क्षे.वि.स, मुंबई

2. कार्यपालक निदेशक, रा.भा.प्रे.के, नई दिल्ली





Ref: KBTL-RTM1/WRLDC/Decl./28072025/01

Date: 28.07.2025

Declaration by Transmission Licensee as per IEGC 2023 section 26 (3)

To,
ED, WRLDC
Andheri East, Mumbai,
Maharashtra 400096

(1) The bay extensions, ICTs and communication system 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 these regulations and are capable of operation to their full capacity."

Scheme: "Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7 GW): Part E1"

For, Khavda-Bhuj Transmission Limited,

Authorized Signatory

Ritesh Kumar Varma
Director
Khavda-Bhuj Transmission Ltd



CC: Member Secretary, WRPC (ms-wrpc@nic.in)

KHAVDA-BHUJ TRANSMISSION LIMITED
Adani Corporate House
Shantigram, Near Vaishnav Devi Circle,
S. G. Highway, Khodiyar,
Ahmedabad 382 421
Gujarat, India
CIN: U40108DL2021GOI381217

Registered Office: C-105, Anand Niketan, New Delhi - 110 021.

Tel +91 79 2555 7555
Fax +91 79 2555 7177
info@adani.com
www.adanitransmission.com



Annexure-5A

From: GPCL- Khavda Project Cell <sroe.gpcl@gmail.com>
Sent: 09 May 2025 12:25
To: MOHITJHALANI; RAJEEV AGRAWAL; Tushar; cep&p; A P Joshi; R S SURANI; seksp.gsecl@gebmail.com; ceksp.gsecl@gebmail.com; acecivilksp.gsecl@gebmail.com; eeksp.gsecl@gebmail.com; R G SHEKHVA; A K Vaishnav; M C Vadalía - AGM (RE Proj., C&I, C&L); Harish Mehta; Deepak Mathur; Ankur Shah; Manoj Shah; Nikhil Patil; Anil Kumar Singh; Lokesh Kumar Jeengar; Sachin Kumar; Tirth Singh; Shubhhrendu Saxenaa; Ravi Singh; Aditya Kumar; Ankit Velani; Abhilash Mehta; Atul Kumar Singh; Umair Mohammad; Atit Swami; Hiteshkumar Vaghásiya; subash.singh@powergrid.in; Ghanshyambhai Parsotambhai Bhut (घनश्यामभाई परसीतमभाई भुत); Ujjwal Kumar (उज्ज्वल कुमार); Daya Singh (दया सिंह); csrathore@powergrid.in; Rajesh V (वी. राजेश)
Cc: collector-kut; add-collector-kut@gujarat.gov.in; sp-kut@gujarat.gov.in; LIB Bhuj (GoG- Home Dept.); Raju Mistri; kingshuk biswas; Dhaval M Prajapati(GoG-GPCL Dept.)
Subject: Blackout- 30 GW RE Park, Khavda.

***CAUTION:** This mail has originated from outside Adani. Please exercise caution with links and attachments.*

Dear Sir,

"As instructed by the Kutch Collector's office, the 30 GW Khavda RE park should remain completely blacked out with immediate effect till further instructions by Kutch Collector's office."

This is for your information & immediate action please.

--

Thanks & Regards

Project Cell

Gujarat Power Corporation Limited (GPCL)

Block No.8, Sixth Floor, Udhog Bhavan

Sector-11, Gandhinagar - 382011, Gujarat

E-mail: sroe.gpcl@gmail.com

Website: www.gpcl.gujarat.gov.in

Ph: 079-23251255-60; Fax - 079-23251254.



From: GPCL- Khavda Project Cell <sroe.gpcl@gmail.com>
Sent: 09 May 2025 13:12
To: MOHITJHALANI; RAJEEV AGRAWAL; Tushar; cep&p; A P Joshi; R S SURANI; seksp.gsecl@gebmail.com; ceksp.gsecl@gebmail.com; acecivilksp.gsecl@gebmail.com; eeksp.gsecl@gebmail.com; R G SHEKHVA; A K Vaishnav; M C Vadalía - AGM (RE Proj., C&I, C&L); Harish Mehta; Deepak Mathur; Ankur Shah; Manoj Shah; Nikhil Patil; Anil Kumar Singh; Lokesh Kumar Jeengar; Sachin Kumar; Tirth Singh; Shubhhrendu Saxenaa; Ravi Singh; Aditya Kumar; Ankit Velani; Abhilash Mehta; Atul Kumar Singh; Umair Mohammad; Atit Swami; Hiteshkumar Vaghasiya; subash.singh@powergrid.in; Ghanshyambhai Parsotambhai Bhut (घनश्यामभाई परसोतमभाई भुत); Ujjwal Kumar (उज्ज्वल कुमार); Daya Singh (दया सिंह); csrathore@powergrid.in; Rajesh V (वी. राजेश)
Cc: collector-kut; add-collector-kut@gujarat.gov.in; sp-kut@gujarat.gov.in; LIB Bhuj (GoG- Home Dept.); Raju Mistri; kingshuk biswas; Dhaval M Prajapati(GoG-GPCL Dept.)
Subject: Safety reasons given the current situation on ground.

***CAUTION:** This mail has originated from outside Adani. Please exercise caution with links and attachments.*

Dear Sirs,

As per instructions from the Kutch Collector's office, please be informed that manpower must remain confined within a 10 km distance from the India-Pakistan International Border (Indo-Pak IB) for safety reasons, given the current situation on the ground.

This is for your information and immediate necessary action.

Thanks & Regards

Project Cell

Gujarat Power Corporation Limited (GPCL)

Block No.8, Sixth Floor, Udhog Bhavan

Sector-11, Gandhinagar - 382011, Gujarat



E-mail: sroe.gpcl@gmail.com

Website: www.gpcl.gujarat.gov.in

Ph: 079-23251255-60; Fax - 079-23251254.



From: GPCL- Khavda Project Cell <sroe.gpcl@gmail.com>
Sent: 10 May 2025 07:34
To: MOHITJHALANI; RAJEEV AGRAWAL; Tushar; cep&p; A P Joshi; R S SURANI; seksp.gsecl@gebmail.com; ceksp.gsecl@gebmail.com; acecivilksp.gsecl@gebmail.com; eeksp.gsecl@gebmail.com; R G SHEKHVA; A K Vaishnav; M C Vadalía - AGM (RE Proj., C&I, C&L); Harish Mehta; Deepak Mathur; Ankur Shah; Manoj Shah; Nikhil Patil; Anil Kumar Singh; Lokesh Kumar Jeengar; Sachin Kumar; Tirth Singh; Shubhhrendu Saxenaa; Ravi Singh; Aditya Kumar; Ankit Velani; Abhilash Mehta; Atul Kumar Singh; Umair Mohammad; Atit Swami; Hiteshkumar Vaghásiya; subash.singh@powergrid.in; Ghanshyambhai Parsotambhai Bhut {घनश्यामभाई परसोतमभाई भुत}; Ujjwal Kumar {उज्ज्वल कुमार}; Daya Singh {दया सिंह}; csrathore@powergrid.in; Rajesh V {वी. राजेश}
Cc: collector-kut; add-collector-kut@gujarat.gov.in; sp-kut@gujarat.gov.in; LIB Bhuj (GoG- Home Dept.); Raju Mistri; kingshuk biswas; Dhaval M Prajapati(GoG-GPCL Dept.)
Subject: Movement in the International Border (IB) area is strictly prohibited

***CAUTION:** This mail has originated from outside Adani. Please exercise caution with links and attachments.*

Dear sirs,

As instructed by the Kutch Collector's office, all movement in the border area is strictly prohibited—no movement is allowed. Everyone is requested to remain scattered and stay safe.

This is for your information and immediate necessary action.

Thanks & Regards

Project Cell

Gujarat Power Corporation Limited (GPCL)

Block No.8, Sixth Floor, Udhayog Bhavan

Sector-11, Gandhinagar - 382011, Gujarat

E-mail: sroe.gpcl@gmail.com

Website: www.gpcl.gujarat.gov.in

Ph: 079-23251255-60; Fax - 079-23251254.



From: GPCL- Khavda Project Cell <sroe.gpcl@gmail.com>
Sent: 10 May 2025 13:18
To: MOHITJHALANI; RAJEEV AGRAWAL; Tushar; cep&p; A P Joshi; R S SURANI; seksp.gsecl@gebmail.com; ceksp.gsecl@gebmail.com; acecivilksp.gsecl@gebmail.com; eeksp.gsecl@gebmail.com; R G SHEKHVA; A K Vaishnav; M C Vadalía - AGM (RE Proj., C&I, C&L); Harish Mehta; Deepak Mathur; Ankur Shah; Manoj Shah; Nikhil Patil; Anil Kumar Singh; Lokesh Kumar Jeengar; Sachin Kumar; Tirth Singh; Shubhhrendu Saxenaa; Ravi Singh; Aditya Kumar; Ankit Velani; Abhilash Mehta; Atul Kumar Singh; Umair Mohammad; Atit Swami; Hiteshkumar Vaghasiya; subash.singh@powergrid.in; Ghanshyambhai Parsotambhai Bhut (घनश्यामभाई परसोतमभाई भुत); Ujjwal Kumar (उज्ज्वल कुमार); Daya Singh (दया सिंह); csrathore@powergrid.in; Rajesh V (वी. राजेश)
Cc: collector-kut; cc: secepd@gujarat.gov.in; add-collector-kut@gujarat.gov.in; sp-kut@gujarat.gov.in; LIB Bhuj (GoG- Home Dept.); Raju Mistri; kingshuk biswas; Dhaval M Prajapati(GoG-GPCL Dept.); Smt Bhakti Shamal(GoG-Energy Dept.)
Subject: Evacuation from RE Park, Khavda.

***CAUTION:** This mail has originated from outside Adani. Please exercise caution with links and attachments.*

Dear Sir,

As per instructions from the Kutch Collector's office, all RE Park, Khavda developers and TSPs are directed to evacuate their sites and move to a safe location outside the RE Park area at the earliest considering present situation.

The Kutch Collector's office has clearly stated that they will not be held responsible for any casualties within the park.

This is for your information and immediate necessary action please..

--

Thanks & Regards

Project Cell

Gujarat Power Corporation Limited (GPCL)

Block No.8, Sixth Floor, Udhog Bhavan

Sector-11, Gandhinagar - 382011, Gujarat

E-mail: sroe.gpcl@gmail.com

Website: www.gpcl.gujarat.gov.in

Ph: 079-23251255-60; Fax - 079-23251254.



From: GPCL- Khavda Project Cell <sroe.gpcl@gmail.com>
Sent: 11 May 2025 19:59
To: MOHITJHALANI; RAJEEV AGRAWAL; Tushar; cep&p; A P Joshi; R S SURANI; seksp.gsecl@gebmail.com; ceksp.gsecl@gebmail.com; acecivilksp.gsecl@gebmail.com; eeksp.gsecl@gebmail.com; R G SHEKHVA; A K Vaishnav; M C Vadalía - AGM (RE Proj., C&I, C&L); Harish Mehta; Deepak Mathur; Ankur Shah; Manoj Shah; Nikhil Patil; Anil Kumar Singh; Lokesh Kumar Jeengar; Sachin Kumar; Tirth Singh; Shubhhrendu Saxenaa; Ravi Singh; Aditya Kumar; Ankit Velani; Abhilash Mehta; Atul Kumar Singh; Umair Mohammad; Atit Swami; Hiteshkumar Vaghasiya; subash.singh@powergrid.in; Ghanshyambhai Parsotambhai Bhut (घनश्यामभाई परसोतमभाई भुत); Ujjwal Kumar (उज्ज्वल कुमार); Daya Singh (दया सिंह); csrathore@powergrid.in; Rajesh V (वी. राजेश)
Cc: secepd@gujarat.gov.in; collector-kut; add-collector-kut@gujarat.gov.in; sp-kut@gujarat.gov.in; LIB Bhuj (GoG- Home Dept.); Raju Mistri; kingshuk biswas; Dhaval M Prajapati(GoG-GPCL Dept.); Smt Bhakti Shamal(GoG-Energy Dept.); DIG shqbhuj; Rann Shakti
Subject: Notification-Kutch Collector's office on dtd.10/05/2025.
Attachments: ડ્રોન પ્રતિબંધ જાહેરનામું.pdf

***CAUTION:** This mail has originated from outside Adani. Please exercise caution with links and attachments.*

As per the notification from the Kutch Collector's office on dtd.10/05/2025, all RE Park Khavda developers and TSPs are hereby informed that, the utilization of any type of UAE/DRON is strictly prohibited in the Kutch District region. The notification letter is attached herewith for your reference please.

This is for your information and necessary immediate action accordingly.

Thanks & Regards

Project Cell

Gujarat Power Corporation Limited (GPCL)

Block No.8, Sixth Floor, Udhayog Bhavan

Sector-11, Gandhinagar - 382011, Gujarat

E-mail: sroe.gpcl@gmail.com

Website: www.gpcl.gujarat.gov.in

Ph: 079-23251255-60; Fax - 079-23251254.



જિલ્લા મેજિસ્ટ્રેટની કચેરી, કચ્છ-ભુજ
ભારતીય નાગરિક સુરક્ષા સંહિતા-૨૦૨૩ની કલમ-૧૬૩ હેઠળનું જાહેરનામું

નં.મેજી/પોલ-૧/ડ્રોન/પ્રતિબંધ/૦૫/૨૦૨૫

તા.૧૦/૦૫/૨૦૨૫

- :: જાહેરનામું :: -

પોલીસ અધિક્ષકશ્રી, પશ્ચિમ કચ્છ-ભુજ તથા પૂર્વ કચ્છ-ગાંધીધામની કચેરીના તા.૦૮/૦૫/૨૦૨૫ વાળા પત્રની વિગતે કચ્છ જિલ્લામાં હાલની પ્રવર્તમાન પરિસ્થિતિને ધ્યાનમાં રાખીને રાજ્યની આંતરિક સુરક્ષા સુનિશ્ચિત કરવા તેમજ કાયદો અને વ્યવસ્થાની પરિસ્થિતિ જાળવવા સારૂ remote sensing, mining, law & order, internal security, defence સિવાયના અન્ય કોઈ હેતુ માટે કોઈપણ સરકારી કે ખાનગી સંસ્થા/વ્યક્તિ દ્વારા કોઈપણ પ્રકારના UAV/DRONEના ઉપયોગ માટે પ્રતિબંધ ફરમાવવા દરખાસ્ત રજૂ થયેલ છે. જેથી હાલની પ્રવર્તમાન પરિસ્થિતિને ધ્યાનમાં રાખીને આંતરિક સુરક્ષા સુનિશ્ચિત કરવા UAV/DRONEના ઉપયોગ પર પ્રતિબંધ મુકવો ઉચિત જણાય છે.

જેથી, હું આનંદ પટેલ, (આઈ.એ.એસ.), જિલ્લા મેજિસ્ટ્રેટ, કચ્છ-ભુજ ભારતીય નાગરિક સુરક્ષા સંહિતા-૨૦૨૩ની કલમ-૧૬૩થી મને મળેલી સત્તાની રૂએ કચ્છ જિલ્લાની હદ વિસ્તારમાં remote sensing, mining, law & order, internal security, defence સિવાયના અન્ય કોઈ હેતુ માટે કોઈપણ સરકારી કે ખાનગી સંસ્થા/વ્યક્તિ દ્વારા કોઈપણ પ્રકારના UAV/DRONEના ઉપયોગ પર પ્રતિબંધ ફરમાવું છું.

-: શિક્ષા :-

આ જાહેરનામાંનો ભંગ કરનાર વ્યક્તિ ભારતીય ન્યાય સંહિતા-૨૦૨૩ની કલમ-૨૨૩ મુજબ શિક્ષાને પાત્ર થશે. આ જાહેરનામાના ભંગ કરનાર ઈસમો વિરુદ્ધ પગલા લેવા માટે થાણાના હેડ કોન્સ્ટેબલથી નીચેના ન હોય તેવા પોલીસ અધિકારીશ્રીઓને ભારતીય ન્યાય સંહિતા-૨૦૨૩ની કલમ-૨૨૩ અન્વયે ફરિયાદ કરવા અધિકૃત કરવામાં આવે છે.

તમામને વ્યક્તિગત રીતે નોટીસની બજવાણી કરવી શક્ય ન હોઈ આથી એક તરફી હુકમ કરું છું. જાહેર જનતાની જાણ સારૂ સ્થાનિક વર્તમાનપત્રો, આકાશવાણી મારફતે પ્રસિદ્ધિ કરાવવી તથા તમામ પોલીસ સ્ટેશન, તેમજ જિલ્લા પંચાયત હસ્તકની તમામ કચેરીઓ અને ગ્રામ પંચાયતોના નોટીસ બોર્ડ પર તથા મહેસૂલી તમામ કચેરીઓના નોટીસ બોર્ડ પર તથા સહેલાઈથી જોઈ શકાય તેવી જાહેર જગ્યાઓ ઉપર ચોટાડી પ્રસિદ્ધિ કરવી.

આ જાહેરનામું તા.૧૦/૦૫/૨૦૨૫ થી તા.૧૫/૦૫/૨૦૨૫ (બંને દિવસો સહિત) સુધી અમલમાં રહેશે.

આજરોજ તા. ૧૦/૦૫/૨૦૨૫ના રોજ મારી સહી કરી તથા કચેરીના મહોર લગાવી જાહેરનામું બહાર પાડવામાં આવ્યું.



(આનંદ પટેલ)
જિલ્લા મેજિસ્ટ્રેટ
કચ્છ-ભુજ

નકલ રવાના જયભારત સાથે જાણ તથા પ્રસિદ્ધિ અર્થે

- ૧) જિલ્લા વિકાસ અધિકારીશ્રી, કચ્છ-ભુજ
- ૨) ડી.આઈ.જી.શ્રી, બી.એસ.એફ., સેક્ટર હેડક્વાર્ટર, ભુજ-કચ્છ.
- ૩) પોલીસ અધિક્ષકશ્રી, પશ્ચિમ કચ્છ-ભુજ/પૂર્વ કચ્છ-ગાંધીધામ... બહોળી પ્રસિદ્ધિ તથા અમલવારી સારૂ.



- ૪) મ્યુનિસિપલ કમિશ્નરશ્રી, મહાનગરપાલિકા, ગાંધીધામ
- ૫) સબ ડીવિઝનલ મેજિસ્ટ્રેટશ્રી, ભુજ, અંજાર, નખત્રાણા, ભયાઉ, અબડાસા, મુન્દ્રા
- ૬) નાયબ પોલિસ અધિક્ષકશ્રી ભુજ, અંજાર, નખત્રાણા, ભયાઉ
- ૭) મામલતદારશ્રી, ડિઝાસ્ટર મેનેજમેન્ટ સેલ, ભુજ-કચ્છ.
- ૮) એક્ઝીક્યુટીવ મેજિસ્ટ્રેટશ્રી, ભુજ, માંડવી, મુન્દ્રા, અંજાર, ગાંધીધામ, ભયાઉ. રાપર. નખત્રાણા. અબડાસા. લખપત
- ૯) ચીફ ઓફીસરશ્રી, ભુજ, માંડવી, મુંદરા-બારોઈ, અંજાર, ગાંધીધામ, ભયાઉ, રાપર, નખત્રાણા
- ૧૦) તાલુકા વિકાસ અધિકારીશ્રી ભુજ, માંડવી, મુન્દ્રા, અંજાર, ગાંધીધામ, ભયાઉ. રાપર, નખત્રાણા. અબડાસા. લખપત
- ૧૧) આસી. પબ્લીક પ્રોસીક્યુટરશ્રી, ભુજ, માંડવી, મુન્દ્રા, અંજાર, ગાંધીધામ, ભયાઉ, રાપર, નખત્રાણા, નલીયા
- ૧૨) મદદનીશ માહિતી નિયામકશ્રી, માહિતી ખાતું, ભુજ, વિના મુલ્યે પ્રસિદ્ધિ સારૂ (ત્રણ નકલ)
- ૧૩) કેન્દ્ર નિયામકશ્રી, આકાશવાણી, ભુજ
- ૧૪) વ્યવસ્થાપકશ્રી, સરકારી છાપકામ ખાતું, રાજકોટ તરફ, ગેઝેટમાં પ્રસિદ્ધિ અર્થે (બે નકલ)
- ૧૫) ડી.આઇ.ઓ.શ્રી, એન.આઇ.સી.શાખા, તરફ અત્રેની વેબ સાઇટ પર પ્રસિદ્ધિ અર્થે
- ૧૬) કચેરીના નોટીશ બોર્ડ પર
- ૧૭) સિલેક્ટ ફાઇલે.

નકલ સવિનય રવાના જાણ અર્થે

- ૧) ઉપ સચિવશ્રી, (કા.વ્ય.) ગૃહ વિભાગ, ગુજરાત સરકાર, સચિવાલય, ગાંધીનગર
- ૨) પોલિસ મહાનિર્દેશક અને મુ. પો. અધિ. શ્રી ગુ. રા. ગાંધીનગર
- ૩) પોલિસ મહાનિર્દેશકશ્રી(ઈન્ટે) ગુ.રા. ગાંધીનગર
- ૪) પોલિસ મહાનિરિક્ષકશ્રી, સરહદી રેન્જ, ભુજ-કચ્છ.
- ૫) રજીસ્ટ્રારશ્રી નામ. ગુજરાત હાઈકોર્ટ, અમદાવાદ
- ૬) નામ. ડિસ્ટ્રીક્ટ એન્ડ સેશન્સ જજ કચ્છ - ભુજ
- ૭) નામ. ચીફ જ્યુડીશીયલ મેજિસ્ટ્રેટશ્રી(ફ.ક.)(તમામ).....



Annexure-5B

From: GPCL- Khavda Project Cell
To: MOHIT JHALANI; RAJEEV AGRAWAL; Tushar; cep&p; A P Joshi; R.S.SURANI; seksp.gsecl@gebm.com; celsp.gsecl@gebm.com; acceivilksp.gsecl@gebm.com; eeksp.gsecl@gebm.com; R.G.SHEKHVA; A.K.Vaishnav; M.C.Vadalia - AGM (RE Proj., C&I, C&L); Harish Mehta; Deepak Mathur; Ankur Shah; Manoj Shah; Nikhil Patil; Anil Kumar Singh; Lokesh Kumar Jeengar; Sachin Kumar; Tirth Singh; Shubhrendu Saxena; Ravi Singh; Aditya Kumar; Ankit Velani; Abhilash Mehta; Atul Kumar Singh; Umair Mohammad; Atit Swami; Hiteshkumar Vaghasiya; subash.singh@powergrid.in; Ghanshyambhai Parsotambhai Bhut (घनश्यामभाई परसोतम्भाई भुत); Ujjwal Kumar (उज्ज्वल कुमार); Daya Singh (दया सिंह); csrathore@powergrid.in; Rajesh V. (वी. राजेश);
Cc: collector-kut; cc: secepd@gujarat.gov.in; add-collector-kut@gujarat.gov.in; sp-kut@gujarat.gov.in; LTB Bhui (GoG- Home Dept.); Raju Mistri; kingshuk biswas; Dhaval M Prajapati (GoG-GPCL Dept.); Smt Bhakti Shamal (GoG-Energy Dept.)
Subject: Re: Evacuation from RE Park, Khavda.
Date: Wednesday, May 14, 2025 2:28:17 PM

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Dear Sir(s),

With reference to the trailing mail, it is informed that all the Khavda RE Park Developers and TSPs may start their routine work in due consultation with Local Administration & Concerned Security Agencies/Officials looking into the current situation.

This is for your information and necessary action please.

On Sat, May 10, 2025 at 1:18 PM GPCL- Khavda Project Cell <sroe.gpcl@gmail.com> wrote:
 Dear Sir,

As per instructions from the Kutch Collector's office, all RE Park, Khavda developers and TSPs are directed to evacuate their sites and move to a safe location outside the RE Park area at the earliest considering present situation.

The Kutch Collector's office has clearly stated that they will not be held responsible for any casualties within the park.

This is for your information and immediate necessary action please..

--

Thanks & Regards

Project Cell

Gujarat Power Corporation Limited (GPCL)

Block No.8, Sixth Floor, Udhyog Bhavan

Sector-11, Gandhinagar - 382011, Gujarat



E-mail: sroe.gpcl@gmail.com
Website: www.gpcl.gujarat.gov.in

Ph: 079-23251255-60; Fax - 079-23251254.

--

Thanks & Regards

Project Cell

Gujarat Power Corporation Limited (GPCL)

Block No.8, Sixth Floor, Udhyog Bhavan

Sector-11, Gandhinagar - 382011, Gujarat

E-mail: sroe.gpcl@gmail.com
Website: www.gpcl.gujarat.gov.in

Ph: 079-23251255-60; Fax - 079-23251254.



Annexure-6A

From: Anupam Das
 To: Operation WRPC
 Cc: WRPC Reliability, WRPC Outage, Sumit Bhat, Shashank Das
 Subject: RE: Post OCC outage required
 Date: 03 July 2025 16:36:00
 Attachments: nraas01.jpg

Dear Sir,

This is for your kind information that outage of below mentioned element was approved for commissioning of 765 KV RTM 1 at KPS 1 SS.

Outage was deferred due to 765 KV Vadodara Bus outage. On dated 28 06 2025. Thus after telephonic discussion we have reschedule it from 04.07.2025 onwards.

Considering the situation all manpower and testing team has been deployed at site.

Requesting to consider for last time. Kindly approve the same.

Regards
 Anupam Das

From: WRDLC Outage <wrdlcoutage@grid-india.in>
 Sent: 03 July 2025 16:04
 To: Operation WRPC <opwrpc@gmail.com>, WRDLC Reliability <wrdlcreliability@grid-india.in>
 Cc: Anupam Das <Anupam.Das@adani.com>
 Subject: Re: Post OCC outage required

CAUTION: This mail has originated from outside Adani. Please exercise caution with links and attachments.

Dear sir,

Kindly consider denial of requested outages considering dates mentioned are not appropriate and KBTL always proposing outages in POST OCC category only.

Thanks & Regards
 Outage team
 SD, WRDLC



From: Operation WRPC <opwrpc@gmail.com>
 Sent: 25 June 2025 11:56
 To: WRDLC Outage, WRDLC Reliability
 Cc: Anupam Das
 Subject: Fwd: Post OCC outage required

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Dear Sir/Madam,

The Post OCC outage request was circulated to all concerned and no comments were received, WRPC consents for outage subjected to real time system conditions.

Regards

Operation division

WRPC, Mumbai

----- Forwarded message -----

From: Operation WRPC <opwrpc@gmail.com>
 Date: Tue, Jun 24, 2025 at 12:25 PM
 Subject: Fwd: Post OCC outage required
 To: wrdcreliability <wrdcreliability@grid-india.in>, WRDLC Outage <wrdlcoutage@grid-india.in>, rtmrc WR II <rtmrcwr2@powergrid.co.in>, wrIrtmrc <wrIrtmrc@powergrid.co.in>, sldc drh <slcd_rdh@gmail.com>, SLDC MP <slcmph@gmail.com>, goamainside <goamainside@gmail.com>, csebside <csebside@slcdc.com>, msldc_outage <msldc_outage@mahasidc.in>, msldc_cr <msldc_cr@mahasidc.in>, Gujarat Sidc <jamsidsidc_gcrs@gmail.com>, Assistant Engineer SLDC <ed-ae@slcdc.in>

Dear all,
 For comments
 If any,

Regards,
 Operation Division

----- Forwarded message -----

From: Anupam Das <Anupam.Das@adani.com>
 Date: Mon, Jun 23, 2025 at 7:13 PM
 Subject: Post OCC outage required
 To: Operation WRPC <opwrpc@gmail.com>
 Cc: Sukh Ram <Sukh.Ram@adani.com>, Sibaprasad Das <Sibaprasad.Das@adani.com>, Satyajit Biswal <Satyajit.Biswal@adani.com>, Pragneshkumar Rathod <Pragneshkumar.Rathod@adani.com>, Nishant Sharma <Nishant.Sharma@adani.com>, wrdcreliability <wrdcreliability@grid-india.in>, Enoc Energy Solutions <ENOCenergysolutions@adani.com>, WRDLC Outage <wrdlcoutage@grid-india.in>, SIC <NAVDA <sic.khavl@adani.com>

Dear Sir,

We require Post OCC outage of below mentioned element for following reason mentioned below.

SL	Agency	Element	Daily/Continuous	Reason	Date	Time	Date	Time
1	KBTL	765 KV Main Bus 2 of Kps 1 SS	Continuous		27-June,2025	08:00	30-June,2025	20:00
2	KBTL	765 KV Main Bus 1 of Kps 1 SS	Continuous	Final connection with existing GIS and Bus Bar Stability with RTM 1 element for commissioning of RTM 1 element at KPS 1 SS.	01-June,2025	08:00	04-June,2025	20:00

Kindly Approve the same on D-5 Basis

Regards
 Anupam Das

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From: Operation WRPC
To: Anupam Das
Subject: Fwd: Post OCC outage required
Date: 07 July 2025 10:10:13

CAUTION: This mail has originated from outside Adani. Please exercise caution with links and attachments.

Dear Sir/Madam,
The Post OCC outage request was circulated to all concerned and following comments were received.

Regards
Operation division
WRPC, Mumbai

----- Forwarded message -----

From: WRLDC Outage <wrlcdc.outage@grid-india.in>

Date: Fri, Jul 4, 2025 at 4:26 PM

Subject: RE: Post OCC outage required

To: Operation WRPC <opwrc@adani.com>

Cc: Akhil Gupta (अखिल गुप्ता) <akhil.gupta@grid-india.in>, Himanshu Chordia (हिमंशु चोर्डिया) <himanshu@grid-india.in>, Himanshu Verma <himanshuverma@grid-india.in>, Kunal Roy <kunal.roy@grid-india.in>, Madhukar Goodelli (मधुकर् गुडेल्ली) <madhukar@grid-india.in>, Minnakuri Venkateswara Rao (मिनाकुरी वेन्कटेश्वर राव) <venkminnakuri@grid-india.in>, Omkar Kumbhar (ओंकार कुंभर) <omkar@grid-india.in>, Pratik Shivraj Moon (प्रीती शिवराज मून) <pratiksm@grid-india.in>, Rishabh Jain (रिषभ जैन) <rishabh.jain@grid-india.in>, S S Raghuvanshi (एस एस राघुवंशी) <satyendra@grid-india.in>, Shalendra Verma (शैलेन्द्र वर्मा) <skvserma@grid-india.in>, SHIVENDRA YADAV <syaday@grid-india.in>, Srinivas Chituri (श्रीनिवास चिटुरी) <srinivasch@grid-india.in>, Suresh Chandra Baikhetti <sureshchandra@grid-india.in>, T Muthukumar (टी मुथुकुमार) <tmuthukumar@grid-india.in>, Vijay Kumar Kodali (विजय कुमार कोदली) <vikodali@grid-india.in>, Vishal Balam Puppala (विशाल बलराम पुप्पला) <vishal.puppala@grid-india.in>, WRLDC Reliability <wrlcdc.reliability@grid-india.in>, Mahesh M. Mehendale (महेश एम. मेहेंदरे) <mehendale@grid-india.in>, NLDCC Outage Coordination <nldcc.outage@grid-india.in>

5a

As discussed in last meeting with Sterlite dated 02.07.2025, representative of Sterlite mentioned that they are proposing outage of 765 kV Vadodara BUS 2 from 07th July 2025 to 10th July 2025.

Therefore, these shutdowns are to be planned after Vadodara BUS 2 shutdowns.

Regards
Outage team,
WRLDC SO

From: Operation WRPC <opwrc@adani.com>

Sent: 04 July 2025 11:45

To: WRLDC Reliability <wrlcdc.reliability@grid-india.in>, WRLDC Outage <wrlcdc.outage@grid-india.in>, rtamcw2 <rtamcw2@powergrid.co.in>, wrirtamc <wrirtamc@powergrid.in>, slidc.dnh <slidc.dnh@gmail.com>, slidcmjpb <slidcmjpb@gmail.com>, ed-aeslde-dd <ed-aeslde-dd@nic.in>, goanainisld <goanainisld@gmail.com>, msldc_outage <msldc_outage@malisldc.in>, msldc_cr <msldc_cr@mahasldc.in>, csebsldc <csebsldc@slu.co.in>

Subject: Fwd: Post OCC outage required

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Dear all,

For comments

If any,

Regards,

Operation Division

----- Forwarded message -----

From: Anupam Das <Anupam.Das@adani.com>

Date: Fri, Jul 4, 2025 at 10:46 AM

Subject: Post OCC outage required

To: Operation WRPC <opwrc@adani.com>

Cc: Sukh Ram <Sukh.Ram@adani.com>, Sibaprasad Das <Sibaprasad.Das@adani.com>, Satyajit Biswal <Satyajit.Biswal@adani.com>, Pragadesh Kumar Kathod <Pragadesh.Kathod@adani.com>, Nishant Sharma <Nishant.Sharma@adani.com>, wrlcdc.reliability <wrlcdc.reliability@grid-india.in>, Sumit Rathi <SUMIT.RATHI@adani.com>

Dear Sir,

We require Post OCC outage of below mentioned element for following reason mentioned below.

SL	Agency	Element	Daily/Continuous	Reason	Date	Time	Date	Time
1	KBTL	765 kV Main Bus 2 of KPS 1 SS	Continuous	Final 765 kV Bus Bar connection with existing KBTL GIS Element and 765 kV Bus Bar Stability with 765 kV RTM 1 element for commissioning of 765 kV RTM 1 element at KPS 1 SS. 765 kV RTM 1 element, 765 kV RTM 1 consist of 1 nos 765/400 kV Transformer Bank, including its associated 765kV bays.	08-July-2025	08:00	11-July-2025	20:00
2	KBTL	765 kV Main Bus 1 of KPS 1 SS	Continuous		12-July-2025	08:00	15-July-2025	20:00

Kindly Approve the same on D-S Basis

Regards

Anupam Das

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Annexure-6C

Naresh Desai

Subject:

FW: Intimation of charging of KHAVDA PS-1 -765KV BUS-2 at 765/400kV KPS-1, Khavda.

From: SIC KHAVDA <sic.khavda@adani.com>**Sent:** Tuesday, July 15, 2025 8:41 AM**To:** WRLDC Control Room <wrldccr@grid-india.in>; wrldccr@gmail.com; WRLDC Outage <wrldcoutage@grid-india.in>; WRLDC Reliability <wrlcdrliability@grid-india.in>; WRLDC Outage <wrldcoutage@posoco.in>**Cc:** Milan Popat <Milan.Popat@adani.com>; Abhishek Kukreja <Abhishek.Kukreja@adani.com>; Saurabh Sharma <Saurabh.Sharma@adani.com>; Pragneshkumar Rathod <Pragnesh.Rathod@adani.com>; Sunil Kumar Raval <Sunil.Raval@adani.com>; Anupam Das <Anupam.Das@adani.com>; Enoc Energy Solutions <ENOCenergysolutions@adani.com>; Atul Kumar Singh <Atul.Singh@adani.com>; Sukh Ram <Sukh.Ram@adani.com>; Aftab Ansari <Aftab.Ansari@adani.com>; Enoc Khavda <enoc.khavda@adani.com>; Sibaprasad Das <Sibaprasad.Das@adani.com>; Pss13 Khavda <pss13.khavda@adani.com>; Hunny Garg <Hunnya.Garg@adani.com>; Bhupendrakumar Vala <Bhupendrakumar.Vala@adani.com>; Jaykumar Joshi <Jaykumar.Joshi1@adani.com>**Subject:** Intimation of charging of KHAVDA PS-1 -765KV BUS-2 at 765/400kV KPS-1, Khavda.

Dear Sir

This is for your kind information that Khavda PS-1 765Kv Bus-2 has been successfully charged at **08:31** on Date 15.07.2025 along with the charging code **WRLDC-5567 & NLDC-1278**.

Thanks & Regards,

Shift In-Charge**Khavda Bhuj Transmission Ltd.**

SIC 765/400 kV Khavda KPS1 (KBTL) GIS

Cont. No. : +916358821757, 6358821755, VOIP No: 20221463 || Email :sic.khavda@adani.com



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with
Goodness

Our Values: Courage | Trust | Commitment



From: SIC KHAVDA

Sent: Friday, July 11, 2025 9:40 AM

To: 'WRLDC Control Room' <wrldccr@grid-india.in>; 'wrldccr@gmail.com' <wrldccr@gmail.com>; 'WRLDC Outage' <wrldccr@gmail.com>; 'WRLDC Reliability' <wrlcdcreliability@grid-india.in>; 'WRLDC Outage' <wrldccr@gmail.com>; 'WRLDC Outage' <wrldccr@gmail.com>; 'WRLDC Reliability' <wrlcdcreliability@grid-india.in>

Cc: Milan Popat <Milan.Popat@adani.com>; Abhishek Kukreja <Abhishek.Kukreja@adani.com>; Saurabh Sharma <Saurabh.Sharma@adani.com>; Pragneshkumar Rathod <Pragnesh.Rathod@adani.com>; Sunil Kumar Raval <Sunil.Raval@adani.com>; Anupam Das <Anupam.Das@adani.com>; Enoc Energy Solutions <ENOCenergysolutions@adani.com>; Atul Kumar Singh <Atul.Singh@adani.com>; Sukh Ram <Sukh.Ram@adani.com>; Aftab Ansari <Aftab.Ansari@adani.com>; Enoc Khavda <enoc.khavda@adani.com>; Sibaprasad Das <Sibaprasad.Das@adani.com>; Pss13 Khavda <pss13.khavda@adani.com>; Hunny Garg <Hunny.Garg@adani.com>; Bhupendrakumar Vala <Bhupendrakumar.Vala@adani.com>; Jaykumar Joshi <Jaykumar.Joshi1@adani.com>

Subject: RE: Regarding Request for Real Time Outage code for KHAVDA PS-1 -765KV BUS-2 at 765/400KV KPS-1, Khavda.

Dear Sir

This is for your kind information that Khavda PS-1 765Kv Bus-2 has been successfully isolated at **09:15** on Date 11.07.2025 along with the charging code **WRLDC-5185 & NLDC-919**.

Thanks & Regards,

Shift In-Charge

Khavda Bhuj Transmission Ltd.

SIC 765/400 KV Khavda KPS1 (KBTL) GIS

Cont. No. : +916358821757, 6358821755, VOIP No: 20221463 || Email : sic.khavda@adani.com

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From: SIC KHAVDA

Sent: Friday, July 11, 2025 7:54 AM

To: WRLDC Control Room <wrldccr@grid-india.in>; wrldccr@gmail.com; WRLDC Outage <wrldccr@gmail.com>; WRLDC Reliability <wrlcdcreliability@grid-india.in>;

WRLDC Outage <wrlcdc outage@posoco.in>

Cc: Milan Popat <Milan.Popat@adani.com>; Abhishek Kukreja <Abhishek.Kukreja@adani.com>; Saurabh Sharma <Saurabh.Sharma@adani.com>; Pragneshkumar Rathod <Pragnesh.Rathod@adani.com>; Sunil Kumar Raval <Sunil.Raval@adani.com>; Anupam Das <Anupam.Das@adani.com>; Enoc Energy Solutions <EnocEnergySolutions@adani.com>; Atul Kumar Singh <Atul.Singh@adani.com>; Sukh Ram <Sukh.Ram@adani.com>; Aftab Ansari <Aftab.Ansari@adani.com>; Enoc Khavda <enoc.khavda@adani.com>; Sibaprasad Das <Sibaprasad.Das@adani.com>; Pss13 Khavda <pss13.khavda@adani.com>; Hunny Garg <Hunnya.Garg@adani.com>; Bhupendrakumar Vala <Bhupendrakumar.Vala@adani.com>; Jaykumar Joshi <Jaykumar.Joshi1@adani.com>

Subject: Regarding Request for Real Time Outage code for KHAVDA PS-1 -765KV BUS-2 at 765/400KV KPS-1, Khavda.

KHAVDA BHUJ TRANSMISSION LTD			
STATION: KBTL KHAVDA		765/400kV GIS KHAVDA KPS1 SS	DATE: 11/07/2025
DEPARTMENT		TRANSMISSION (SUBSTATION)	
Ref: KBTL/KHAVDA/KPS1 SS/2025-26/July/01			

Dear Sir,

As per below Post OCC approved outage , please provide real time outage code for KHAVDA PS-1 -765KV BUS-2.

Request Id	Element Name	Type	KV	Owner	Start Date	Start Time	End Date	End Time	S/D Type	Requesting Agency	RLDC Status	Reason	RLDC Remarks
Approved													
256939	KHAVDA PS-1 - 765KV - BUS 2	Bus	765	KBTL	11-Jul-2025	08:00	14-Jul-2025	20:00	Continuous	KBTL	Approved	Final 765 kV Bus Bar connection with existing KBTL GIS Element and 765 kV Bus Bar Stability with 765 kV RTM 1 element for commissioning of 765 kV RTM 1 element at KPS 1 SS.765 kV RTM 1	Ok. All Elements to be in service with Bus-1. In case of N-1 Bhuj D/c and ICT-1, 2 to be in service



Annexure-6D

Naresh Desai

Subject: FW: Regarding Charging code of KHAVDA PS-1 -765KV BUS-1 at 765/400kV KPS-1, Khavda.

From: SIC KHAVDA <sic.khavda@adani.com>

Sent: Friday, July 25, 2025 3:20 PM

To: WRLDC Control Room <wrldccr@grid-india.in>; wrldccr@gmail.com; WRLDC Outage <wrldcoutage@grid-india.in>; WRLDC Reliability <wrldcreliability@grid-india.in>; WRLDC Outage <wrldcoutage@posoco.in>

Cc: Milan Popat <Milan.Popat@adani.com>; Abhishek Kukreja <Abhishek.Kukreja@adani.com>; Saurabh Sharma <Saurabh.Sharma@adani.com>; Pragneshkumar Rathod <Pragnesh.Rathod@adani.com>; Sunil Kumar Raval <Sunil.Raval@adani.com>; Anupam Das <Anupam.Das@adani.com>; Enoc Energy Solutions <ENOCenergysolutions@adani.com>; Atul Kumar Singh <Atul.Singh@adani.com>; Sukh Ram <Sukh.Ram@adani.com>; Aftab Ansari <Aftab.Ansari@adani.com>; Enoc Khavda <enoc.khavda@adani.com>; Sibaprasad Das <Sibaprasad.Das@adani.com>; Pss13 Khavda <pss13.khavda@adani.com>; Hunny Garg <Hunnya.Garg@adani.com>; Bhupendrakumar Vala <Bhupendrakumar.Vala@adani.com>; Jaykumar Joshi <Jaykumar.Joshi1@adani.com>

Subject: RE: Regarding Charging code of KHAVDA PS-1 -765KV BUS-1 at 765/400kV KPS-1, Khavda.

Dear Sir,

It is informed you that the Khavda PS-1 765KV BUS-1 Successfully restored at **15:10 Hrs.** with restoration code **WRLDC 6860 NLDC 2327.**

Thanks & Regards,

Shift In-Charge

Khavda Bhuj Transmission Ltd.

SIC 765/400 kV Khavda KPS1 (KBTL) GIS

Cont. No. : +916358821757, 6358821755, VOIP No: 20221463 || Email :sic.khavda@adani.com

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From: SIC KHAVDA

Sent: Friday, July 25, 2025 2:20 PM

To: WRLDC Control Room <wrldccr@grid-india.in>; wrldccr@gmail.com; WRLDC Outage <wrldcoutage@grid-india.in>; WRLDC Reliability <wrlcdrliability@grid-india.in>; WRLDC Outage <wrldcoutage@posoco.in>

Cc: Milan Popat <Milan.Popat@adani.com>; Abhishek Kukreja <Abhishek.Kukreja@adani.com>; Saurabh Sharma <Saurabh.Sharma@adani.com>; Pragneshkumar Rathod <Pragnesh.Rathod@adani.com>; Sunil Kumar Raval <Sunil.Raval@adani.com>; Anupam Das <Anupam.Das@adani.com>; Enoc Energy Solutions <ENOCenergysolutions@adani.com>; Atul Kumar Singh <Atul.Singh@adani.com>; Sukh Ram <Sukh.Ram@adani.com>; Aftab Ansari <Aftab.Ansari@adani.com>; Enoc Khavda <enoc.khavda@adani.com>; Sibaprasad Das <Sibaprasad.Das@adani.com>; Pss13 Khavda <pss13.khavda@adani.com>; Hunny Garg <Hunny.Garg@adani.com>; Bhupendrakumar Vala <Bhupendrakumar.Vala@adani.com>; Jaykumar Joshi <Jaykumar.Joshi1@adani.com>

Subject: Regarding Charging code of KHAVDA PS-1 -765KV BUS-1 at 765/400KV KPS-1, Khavda.

Dear Sir,

This is for your kind information that we like to return the outage of 765KV BUS-1 at 765/400 KV KPS 1 SS.

All men materials and local earthing removed from the site.

Kindly provide the charging code.

Thanks & Regards,

Shift In-Charge

Khavda Bhuj Transmission Ltd.

SIC 765/400 KV Khavda KPS1 (KBTL) GIS

Cont. No. : +916358821757, 6358821755, VOIP No: 20221463 || Email :sic.khavda@adani.com

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From: SIC KHAVDA

Sent: Tuesday, July 22, 2025 9:49 AM

To: 'WRLDC Control Room' <wrldccr@grid-india.in>; 'wrldccr@gmail.com' <wrldccr@gmail.com>; 'WRLDC Outage' <wrldcoutage@grid-india.in>; 'WRLDC Reliability' <wrldc reliability@grid-india.in>; 'WRLDC Outage' <wrldcoutage@posoco.in>

Cc: Milan Popat <Milan.Popat@adani.com>; Abhishek Kukreja <Abhishek.Kukreja@adani.com>; Saurabh Sharma <Saurabh.Sharma@adani.com>; Pragneshkumar Rathod <Pragnesh.Rathod@adani.com>; Sunil Kumar Raval <Sunil.Raval@adani.com>; Anupam Das <Anupam.Das@adani.com>; Enoc Energy Solutions <ENOCenergysolutions@adani.com>; Atul Kumar Singh <Atul.Singh@adani.com>; Sukh Ram <Sukh.Ram@adani.com>; Aftab Ansari <Aftab.Ansari@adani.com>; Enoc Khavda <enoc.khavda@adani.com>; Sibaprasad Das <Sibaprasad.Das@adani.com>; Pss13 Khavda <pss13.khavda@adani.com>; Hunny Garg <Hunny.Garg@adani.com>; Bhupendrakumar Vala <Bhupendrakumar.Vala@adani.com>; Jaykumar Joshi <Jaykumar.Joshi1@adani.com>

Subject: Regarding Outage of KHAVDA PS-1 -765KV BUS-1 at 765/400KV KPS-1, Khavda.

Dear Sir

This is for your kind information that Khavda PS-1 765 kV Bus-1 has been successfully isolated at **09:10** on Date 22.07.2025 along with the outage code **WRLDC-6448 & NLDC-1933**.

Thanks & Regards,

Shift In-Charge

Khavda Bhuj Transmission Ltd.

SIC 765/400 kV Khavda KPS1 (KBTL) GIS

Cont. No. : +916358821757, 6358821755, VOIP No: 20221463 || Email :sic.khavda@adani.com

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From: SIC KHAVDA

Sent: Tuesday, July 22, 2025 8:01 AM

To: WRLDC Control Room <wrldccr@grid-india.in>; wrldccr@gmail.com; WRLDC Outage <wrldcoutage@grid-india.in>; WRLDC Reliability <wrldc reliability@grid-india.in>; WRLDC Outage <wrldcoutage@posoco.in>

Cc: Milan Popat <Milan.Popat@adani.com>; Abhishek Kukreja <Abhishek.Kukreja@adani.com>; Saurabh Sharma <Saurabh.Sharma@adani.com>; Pragneshkumar Rathod <Pragnesh.Rathod@adani.com>; Sunil Kumar Raval <Sunil.Raval@adani.com>; Anupam Das <Anupam.Das@adani.com>; Enoc Energy Solutions <ENOCenergysolutions@adani.com>; Atul Kumar Singh <Atul.Singh@adani.com>; Sukh Ram <Sukh.Ram@adani.com>; Aftab Ansari <Aftab.Ansari@adani.com>; Enoc

Khavda <enoc.khavda@adani.com>; Sibaprasad Das <Sibaprasad.Das@adani.com>; Pss13 Khavda <pss13.khavda@adani.com>; Hunny Garg <Hunnya.Garg@adani.com>; Bhupendrakumar Vala <Bhupendrakumar.Vala@adani.com>; Jaykumar Joshi <Jaykumar.Joshi1@adani.com>

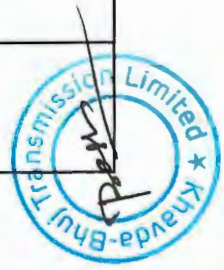
Subject: Regarding Request for Real Time Outage code for KHAVDA PS-1 -765KV BUS-1 at 765/400kV KPS-1, Khavda.

KHAVDA BHUJ TRANSMISSION LTD			
STATION: KBTL KHAVDA		765/400KV GIS KHAVDA KPS1 SS	DATE: 22/07/2025
DEPARTMENT		TRANSMISSION (SUBSTATION)	
Ref: KBTL/KHAVDA/KPS1 SS/2025-26/July/05			

Dear Sir,

As per below Post OCC approved outage , please provide real time outage code for KHAVDA PS-1 -765KV BUS-1.

Request Id	Element Name	Type	KV	Owner	Start Date	Start Time	End Date	End Time	S/D Type	Requesting Agency	RLDC Status	Reason	RLDC Remarks
Approved													
258993	KHAVDA PS-I - 765KV - BUS 1	Bus	765	KBTL	22-Jul-2025	08:00	25-Jul-2025	20:00	Continuous	KBTL	Approved	Final 765 kV Bus Bar connection with existing KBTL GIS Element and 765 kV Bus Bar Stability with 765 kV RTM 1 element for commissioning of 765 kV RTM 1 element at KPS 1 SS.765 kV RTM 1 element.	Ok. All Elements to be in service with Bus-2. In case of N-1 765kV Bhuj d/c and 765/400kV ICT 1,2 will be in service with Tie-







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Annexure-7



08th August, 2023

To whom so ever it may concern

In-principal Approval of Board of Directors of the Company for Transmission System for Evacuation of Power from potential renewable energy zone in the Khavda area of Gujarat under Phase-IV (7 GW): Part E1

Central Transmission Utility of India Limited (CTUIL) approved the installation of Transmission System for Evacuation of Power from potential renewable energy zone in the Khavda area of Gujarat under Phase-IV (7 GW): Part E1 through Regulated Tariff Mechanism (RTM). Subsequently, CTUIL vide its Office Memorandum dated 10.07.2023 informed Khavda-Bhuj Transmission Limited to take necessary action.

The capital cost for the implementation of Transmission System for Evacuation of Power from potential renewable energy zone in the Khavda area of Gujarat under Phase-IV (7 GW): Part E1 is estimated at Rs. 265.00 Crore.

In view of the above, in-principal approval of Board of Directors of the Company is given for incurring estimated capital cost for establish Transmission System for Evacuation of Power from potential renewable energy zone in the Khavda area of Gujarat under Phase-IV (7 GW): Part E1.

For Khavda-Bhuj Transmission Limited

A handwritten signature in blue ink, appearing to read "Ritesh", written over a light blue rectangular background.

RITESH KUMAR VARMA

Director

DIN: 09183319



31st July, 2025

To whom so ever it may concern

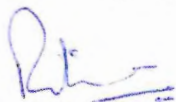
In-principal Approval of Board of Directors of the Company for Transmission System for Evacuation of Power from potential renewable energy zone in the Khavda area of Gujarat under Phase-IV (7 GW): Part E1

Central Transmission Utility of India Limited (CTUIL) approved the installation of Transmission System for Evacuation of Power from potential renewable energy zone in the Khavda area of Gujarat under Phase-IV (7 GW): Part E1 through Regulated Tariff Mechanism (RTM). Subsequently, CTUIL vide its Office Memorandum dated 10.07.2023 informed Khavda-Bhuj Transmission Limited to take necessary action.

In view of the above, in-principal approval of Board of Directors of the Company was given on 08.08.2023 for incurring estimated capital cost of Rs. 265.00 Crore for installation of Transmission System for Evacuation of Power from potential renewable energy zone in the Khavda area of Gujarat under Phase-IV (7 GW): Part E1.

The project has achieved CoD on 27.07.2025 and total capital cost (including undischarged liabilities) of Rs. 254.85 Crore is incurred for the same. In view of the above, approval of Board of Directors of the Company is given for capital cost of Rs. 254.85 Crore and the same may be claimed through Regulated Tariff Mechanism.

For Khavda-Bhuj Transmission Limited



RITESH KUMAR VARMA
Director
DIN: 09183319



To,
The Board of Directors
Khavda-Bhuj Transmission Limited

Independent Chartered Accountant's Report on Statement of Capital Cost as on Commercial Operation Date ("COD") for Transmission system for Evacuation of Power from potential renewable energy zone in the Khavda area of Gujarat under Phase-IV (7 GW): Part E1

We, Dharmesh Parikh & Co LLP, Chartered Accountants (Firm's Registration number 112054W/W100725) have been requested by the company vide its mail dated 14th October 2025 to confirm the information mentioned in the attached Annexure on capital cost as on commercial operation date ("COD") for Transmission system for Evacuation of Power from potential renewable energy zone in the Khavda area of Gujarat under Phase-IV (7 GW): Part E1 ("the annexure") for onward submission to Central Electricity Regulatory Commission ("CERC")

Management's Responsibility

The preparation of the Annexure is the responsibility of the management of the Company including preparation and maintenance of all accounting and other relevant supporting records and documents. This responsibility includes the design, implementation and maintenance of internal control relevant to the preparation and presentation of the Annexure and applying an appropriate basis of preparation; and making estimates that are reasonable in the circumstances.

Ours Responsibility

Our responsibility, for the purpose of this certificate, is to obtain limited assurance and form a conclusion as to whether the information contained in the attached Annexure to the extent that it relates to total capital expenditure has been correctly extracted from books of accounts of the company and other relevant agreements, records and documents maintained by the company. A limited assurance engagement includes performing procedures to obtain sufficient appropriate evidence that vary in nature, timing and extent than a reasonable assurance engagement. Consequently, the level of assurance obtained in a limited assurance engagement is substantially lower than the assurance that would have been obtained had we performed a reasonable assurance engagement.

We carried out our examination in accordance with the Guidance Note on Reports or Certificates for Special Purposes (Revised 2016) (the 'Guidance Note') issued by the Institute of Chartered Accountants of India (the 'ICAI'), in so far as applicable for the purpose of this certificate. The Guidance Note requires that we comply with the ethical requirements of the Code of Ethics, issued by the ICAI.



Conclusion

Based on our examination, the procedures performed as above, and according to the information and explanations, along with the representations provided by the Management of the Company, we report that nothing has come to our attention that cause us to believe that the particulars furnished by the Company in the Annexure, signed by us, has not been appropriately extracted from the books of accounts of the company and other relevant agreements, records and documents maintained by the company.

Restriction on use

This Certificate is issued at the request of the Company for onward submission by the Company to CERC. This certificate should not be used for any other purpose without our prior written consent. Accordingly, we do not accept or assume any liability or any duty of care for any other purpose or any duty of care for any other purpose or any other person to whom this certificate is shown or into whose hands it may come without prior consent in writing.

Place: Ahmedabad
Date: 14.10.2025



For, **Dharmesh Parikh & Co LLP**
Chartered Accountants
FRN.: 112054W/W100725

Chirag Shah

(CA. CHIRAG SHAH)
Partner
Membership No. 122510
UDIN: 25122510BMGIHE4506





Energy Solutions

Annexure

Statement of Capital Expenditure for Transmission System for Evacuation of Power from potential renewable energy zone in the Khavda area of Gujarat under Phase-IV (7 GW): Part E1

SN	Particulars	As on 27 th July 2025 (Rs. in Lakhs)		
		Total Capital Expenditure / Project cost	Capital Expenditure on cash basis	Undischarged liabilities
1	Hard Cost			
a	Land	-	-	-
b	Building	-	-	-
c	Transmission Line	-	-	-
d	Sub-Station	23,433.85	17,218.94	6,214.91
e	Communication System	-	-	-
	Total Hard Cost (a+b+c+d+e)	23,433.85	17,218.94	6,214.91
	Add: IDC	1,897.32	1,897.32	-
	Add: IEDC	154.16	154.16	-
	Total Capital Expenditure	25,485.33	19,270.42	6,214.91

Note: Commercial Operation Date of Transmission System for Evacuation of Power from potential renewable energy zone in the Khavda area of Gujarat under Phase-IV (7 GW): Part E1 is 27th July 2025

For Khavda-Bhuj Transmission Limited

Authorised Signatory
Place: Ahmedabad
Date: 14 October 2025



Khavda-Bhuj Transmission Limited
Adani Corporate House,
Shantigram, Nr. Vaishno Devi Circle
S. G. Highway, Khodiyar,
Ahmedabad - 382421
Gujarat, India
CIN: U40108DL2021GOI381217

Tel +91 79 2555 7555
Fax +91 79 2555 7177
info@adani.com
www.adanienergysolutions.com

Registered Office: C-105, Anand Niketan, New Delhi - 110 021



Annexure-9

Appendix-I PART-III TARIFF FILING FORMS (TRANSMISSION & COMMUNICATION SYSTEM) FOR DETERMINATION OF TARIFF FY 2024-25 to FY 2028-29



INDEX

PART-III

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

Form No.	Title of Tariff Filing Forms (Transmission & Communication System)	Tick
FORM- 1	Summary of Tariff	Y
FORM- 1A	Summary of Asset level cost	Y
FORM-2	Details of Transmission Lines and Substation and Communication System covered in the project scope and O&M for instant asset	Y
FORM-3	Normative parameters considered for tariff computations	Y
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.	Y
FORM- 4A	Statement of Capital cost	Y
FORM- 4B	Statement of Capital Works in Progress	Y
FORM- 4C	Abstract of Capital Cost Estimates and Schedule of Commissioning for the New Project/Element	Y
FORM-5	Element wise Break-up of Project/Asset/Element Cost for Transmission System or Communication System	Y
FORM-5A	Break-up of Construction/Supply/Service packages	Y
FORM-5B	Details of all the assets covered in the project	Y
FORM- 6	Actual Cash Expenditure and Financial Package up to COD	Y
FORM- 7	Statement of Additional Capitalisation after COD	Y
FORM- 7A	Financing of Additional Capitalisation	Y
FORM- 7B	Statement of Additional Capitalisation during five year before the end of the useful life of the project.	NA
FORM- 8	Calculation of Return on Equity	Y
FORM-8A	Details of Foreign Equity	NA
FORM-9	Details of Allocation of corporate loans to various transmission elements	NA
FORM-9A	Details of Project Specific Loans	Y
FORM-9B	Details of Foreign loans	NA
FORM-9C	Calculation of Weighted Average Rate of Interest on Actual Loans	Y
FORM-9D	Loans in Foreign Currency	NA
FORM-9E	Calculation of Interest on Normative Loan	Y
FORM- 10	Calculation of Depreciation Rate on original project cost	Y
FORM- 10A	Statement of Depreciation	Y
FORM- 10B	Statement of De-capitalisation	NA
FORM- 11	Calculation of Interest on Working Capital	Y
FORM- 12	Details of time over run	Y
FORM- 12A	Incidental Expenditure during Construction	NA
FORM- 12B	Calculation of IDC & Financing Charges	Y
FORM- 13	Details of Initial spares	NA
FORM- 14	Non-Tariff Income	NA
FORM- 15	Summary of issue involved in the petition	Y
FORM A	Summary of Capital Cost & Annual Fixed Cost (AFC) Claimed for ALL the assets covered in the present petition.	Y
Other Information/ Documents		
Sl. No.	Information/Document	Tick
1	Certificate of incorporation, Certificate for Commencement of Business, Memorandum of Association, & Articles of Association (For New Project(s) setup by a company making tariff application for the first time to CERC)	NA
2	Region wise and Corporate audited Balance Sheet and Profit & Loss Accounts with all the Schedules & annexures for the new Transmission System & Communication System for the relevant years.	NA
3	Copies of relevant loan Agreements	NA
4	Copies of the approval of Competent Authority for the Capital Cost and Financial package.	NA
5	Copies of the Equity participation agreements and necessary approval for the foreign equity.	NA
6	Copies of the BPTA/TSA/PPA with the beneficiaries, if any	NA
7	Detailed note giving reasons of cost and time over run, if applicable. List of supporting documents to be submitted: a. Detailed Project Report b. CPM Analysis c. PERT Chart and Bar Chart d. Justification for cost and time Overrun	NA
8	Transmission Licensee shall submit copy of Cost Audit Report along with cost accounting records, cost details, statements, schedules etc. for the transmission system as submitted to the Govt. of India for first two years i.e. 2024-25 and 2025-26 at the time of mid-term true-up in 2026- 27 and for balance period of tariff period 2024-29 at the time of final true-up in 2029-30. In case of initial tariff filing the latest available Cost Audit Report should be furnished.	NA
9	BBMB is maintaining the records as per the relevant applicable Acts. Formats specified herein may not be suitable to the available information with BBMB. BBMB may modify formats suitably as per available information to them for submission of required information for tariff purpose.	NA
10	Any other relevant information, (Please specify)	

Note1: Electronic copy of the petition (in word 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.



Summary of Tariff

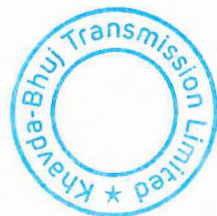
Name of the transmission Asset:

Augmentation of transformation capacity at KPS1 (GIS) by 1x1500 MVA, 765/400 kV ICT (8th) on bus section-I

Sr. No.	Particulars	Form No.	(Amount in Rs. Lakh)				
			2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	5	6	7	8
1.1	Depreciation	Form 10A	-	641.64	1,075.48	1,075.48	1,075.48
1.2	Interest on Loan	Form 9E	-	1,146.78	1,832.64	1,714.34	1,596.03
1.3	Return on Equity ¹	Form 8	-	914.33	1,532.55	1,532.55	1,532.55
1.4	Interest on Working Capital	Form 11	-	59.81	100.88	100.51	100.73
1.5	O & M Expenses	Form 2	-	478.48	739.23	776.53	817.55
	Total AFC		-	3,241.04	5,280.78	5,199.40	5,122.34

Note: This Form is a summary form and the Data to this form should flow from other base forms.

(Petitioner)



**PART-III
FORM- 1A**

Summary of Asset Level Cost

Name of the transmission Asset: Augmentation of transformation capacity at KPS1 (GIS) by 1x1500 MVA, 765/400 kV ICT (8th) on bus section-I

(Amount in Rs. Lakh)

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

Particulars	Summary of Actual / Projected Capital Cost						
	As on CoD of 27.07.2025	2024-25	2025-26	2026-27	2027-28	2028-29	As on 31.03.2029
Transmission Line	-	-	-	-	-	-	-
Substation equipments	19,270.42	-	6,214.91	-	-	-	25,485.33
Free hold Land	-	-	-	-	-	-	-
Leasehold Land	-	-	-	-	-	-	-
PLCC	-	-	-	-	-	-	-
Furniture / Fixture	-	-	-	-	-	-	-
Building & Civil Works	-	-	-	-	-	-	-
Office Equipments	-	-	-	-	-	-	-
Total	19,270.42	-	6,214.91	-	-	-	25,485.33

Note: This form is a summary form and the data to this form should flow from other base forms.



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

Name of the transmission Asset

Augmentation of transformation capacity at KPS1 (GIS) by 1x1500 MVA, 765/400 kV ICT (Rb) on bus section-I

21 Substations

Sr. No.	Name of Sub-station	Type of Substation Conventional (Greenfield/Brownfield) / GIS / HVDC Back to Back	Voltage level kV	No. of transformers / Reactors SVC etc. (with capacity)	No. of Bays	MVA/MVar Capacity	Date of Commercial Operation	Covered in the present Petition	
								Yes/No	If No, petition No.
1	Khavda-I PS (KPS1)		765	1,500	4	1500	27-Jul-25	Yes	
2	Khavda-I PS (KPS1)		400	-	3	-	27-Jul-25	Yes	

Summary:

O&M Expenses for substations covered in the instant petition	2014-25	2025-26	2026-27	2027-28	2028-29
Normative rate of O&M as per Regulation (Rupees in Lakh) - 765 kV Bays	41.34	43.51	45.79	48.30	50.73
No. of Units	4.90	4.90	4.90	4.90	4.90
O&M Claimed (Rupees in Lakh)	-	118.22	183.16	192.80	202.92
Normative rate of O&M as per Regulation (Rupees in Lakh) - 400 kV Bays	30.53	31.08	32.71	34.43	36.23
No. of Units	3.00	3.00	3.00	3.00	3.00
O&M Claimed (Rupees in Lakh)	-	83.35	98.13	103.30	108.69
Normative rate of O&M as per Regulation (Rupees in Lakh) - MVA Capacity	0.26	0.28	0.29	0.31	0.32
No. of Units	1,500.00	1,500.00	1,500.00	1,500.00	1,500.00
O&M Claimed (Rupees in Lakh)	-	381.39	435.00	457.50	483.00

- Note:
- Number of bays is inclusive of line bays, ICT bays, reactor bays etc. Each ICT bay, line bay, reactor bays shall be considered separately for purpose of O&M expenses.
 - The MVA Capacity shall exclude the capacity of reactor, FSE, Stat Com
 - O&M expenses for Transmission Licenses whose transmission assets are located solely in NE Region (including Sikkim), States of Uttarakhand, Himachal Pradesh, the Union Territories of Jammu and Kashmir and Ladakh, district of Darjeeling of West Bengal shall be worked out by multiplying 1.50 to the normative O&M expenses.

4) Summary of O&M Expenses claim:

Sr. No.	Particulars	2014-25	2025-26	2026-27	2027-28	2028-29
(Rupees in Lakh)						
1	A) Normative O&M	-	-	-	-	-
2	Transmission Line	-	463.90	716.39	753.59	794.61
3	Substation	-	-	-	-	-
3	Communication system	-	-	-	-	-
	Total Normative O&M	-	463.90	716.39	753.59	794.61
B) O&M Claimed under Regulation 36 (2)(d)						
	Security Expenses	-	-	-	-	-
	Actual Capital Spares consumed ¹	-	-	-	-	-
	Insurance Premium Paid ²	-	15.58	22.94	22.94	22.94
	Total O&M Expenses claimed	-	478.48	739.33	776.53	817.55

- Note: The security expenses and Capital Spares are to be submitted on estimated basis for the purpose of O&M expenses. In case of additional security deployed, the petitioner shall indicate the same. The actual security and Capital Spares expenses to be provided at the time of true up.
- List of Capital Spares to be provided at the time of true up. Further, no Capital Spares individually costing upto Rs. 10 lakh shall be claimed.
 - At the time of determination of tariff Insurance Premium shall be estimated which shall be subject to true up on the basis of actuals.



PART-III
FORM-3Normative Parameters considered for tariff calculations

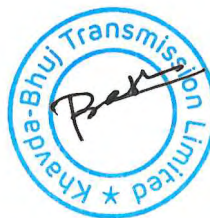
Name of the transmission Asset:

Augmentation of transformation capacity at KPS1 (GIS) by 1x1500 MVA,
765/400 kV ICT (8th) on bus section-I

Particulars	Unit	Year Ending March				
		2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	5	6	7
Base Rate of Return on Equity	%	15.00%	15.00%	15.00%	15.00%	15.00%
Base Rate of Return on Equity on Additional Capitalization after Cut-off Date ¹	%					
Tax Rate	%	25.168%	25.168%	25.168%	25.168%	25.168%
Effective Tax Rate ²	%					
Target Availability	%	98%	98%	98%	98%	98%
Normative O&M per km	Rs. Lakh	As shown in Form 2				
Normative O&M per bay	Rs. Lakh					
Normative O&M per MVA/MVAr	Rs. Lakh					
Spares for WC as % of O&M	%	15%	15%	15%	15%	15%
Receivables in Days for WC	Days	45	45	45	45	45
Reference Rate as on first day of financial year ³	%	0.00%	12.25%	12.25%	12.25%	12.25%
Lapsed life as on 01.04.2024 and beginning of every year(in completed years)	No. of years	-	-	1.00	2.00	3.00

1. The additional capitalization to be equivalent to one year MCLR+350 bps subject to a ceiling of 14.00% in accordance with first Proviso to Regulation 30(3).
2. To be supported by necessary documents and calculations. Effective tax rate is to be computed in accordance with Regulation 31.
3. For Tariff Petition, it should be 1.4.2024, while for True-up Petition, it should be 1st April of the respective financial years.

Petitioner



Abstract of existing transmission assets/elements under project, Determination of Effective COD and Weighted Average Life for single AFC for the project as whole

Name of the transmission Asset: Augmentation of transformation capacity at KPSI (GIS) by 1x1500 MVA, 765/400 kV ICT (8th) on bus section-I

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

(Amount in Rs. Lakh)

Asset No. & Asset Name description	Actual COD	COD considered for tariff	Effective COD for the project as whole (Refer C)	Weighted Average useful life of the Project (Refer D)	Lapsed useful Life of the project as on 01-04-2024 (Refer E)	Balance useful Life of the Project as on 01.04.2024 (Refer E)
Augmentation of transformation capacity at KPSI (GIS) by 1x1500 MVA, 765/400 kV ICT (8th) on bus section-I	7/27/2025	7/27/2025	7/27/2025	-	-	-

B) Details as on 01-04-2024 for determination of Single Tariff for the Projects Commissioned prior to 01.04.2024

Particulars as on 31-03-2024 after true up of 2019-24 Period	Asset-I
	Total as on 01.04.2024 for the project as whole
Capital Cost as on 31.03.2024	
Cumulative Depreciation as on 31-03-2024	
Debt Equity Ratio as on 31.03.2024	
Gross Equity for Normative ROE as on 31.03.2024	-
Gross Loan as on 31.03.2024	-
Cumulative Re-payment of Loan as on 31.03.2024	-

D) Weighted Average useful Life of the Project as whole

Particulars	Capital Cost as on 01-04-2024 after true up of 2019-24	Useful life/ Extended life	Weighted Cost
Freehold Land		0	-
Leasehold Land		25	-
Building & Civil Works		25	-
Furniture & Fixtures		25	-
Office Equipments		25	-
Transmission Line		35	-
Sub-Station	-	25	-
PLCC		15	-
Total	-		-
Weighted Average life = Total Weighted Cost/Total Combine Cost (Rounded off to get complete year)			-

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

This refers to the No. of completed years from the Effective COD till the last day of the previous tariff period (i.e. 31.03.2024)	
i) Effective COD	7/27/2025
ii) Last day of the previous tariff control period	3/31/2024
iii) No. of Completed years lapsed as on 01.04.2024 (ii)-(i)	-
iv) Remaining useful life (in year) (WAL-lapsed year)	-



Petitioner

PART-III
FORM-4A

Statement of Capital Cost

Name of the transmission Asset:

Augmentation of transformation capacity at KPS1 (GIS) by 1x1500 MVA, 765/400 kV ICT (8th) on bus section-I

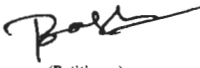
(Rs. in Lakh)

A) Capital Cost		As on relevant date ¹				
		2024-25	2025-26	2026-27	2027-28	2028-29
	Particulars					
1.	a) Opening Gross Block Amount As per books			25,485.33	25,485.33	25,485.33
	b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in A(a) above	-	-	1,897.32	1,897.32	1,897.32
	c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above	-	-	154.16	154.16	154.16
2.	a) Addition in Gross Block Amount during the period	-	25,485.33	-	-	-
	b) Amount of capital liabilities in B(a) above	-	23,433.85	-	-	-
	c) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in B(a) above	-	1,897.32	-	-	-
	d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in B(a) above	-	154.16	-	-	-
3.	a) Closing Gross Block Amount as per books	-	25,485.33	25,485.33	25,485.33	25,485.33
	b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in C(a) above	-	1,897.32	1,897.32	1,897.32	1,897.32
	c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) above	-	154.16	154.16	154.16	154.16

(Rs. in Lacs)

B) Flow of liability for the Asset		2024-25	2025-26	2026-27	2027-28	2028-29
	Particulars					
1.	Opening Balance of Liability ²	-	-	-	-	-
2.	Add: Liability from ACE ³	-	-	-	-	-
3.	Discharge of liability by payment and claimed as ACE ⁴	-	-	-	-	-
4.	Reversal/ Cancellation (to be entered) ⁵	-	-	-	-	-
5.	Closing Balance of Admitted Liability ⁶	-	-	-	-	-

1. Relevant date/s means date of COD of transmission element/s or Communication system and financial year start date and end date
2. In case of new asset it should flow from Form 5 and in case of existing asset it should flow from admitted liability as on 31.03.2024.
3. It refers to the liability included in the addition into gross block as on last day of the concerned year as mentioned in Form 7 of the concerned year.
4. It refers the actual payment of capital liability which was admitted by Commission as on 31.03.2024 and/or the liability included in the COD cost and /or the liability included in the ACE of previous years. (eg. If any payment is made during 2027-28 towards the un-discharged liability)
5. It refers the liability included in the Gross Block but reversed or cancelled due to any reason. (eg. The liability no more payable due to non-fulfilment of any condition of the contractor, book adjustment etc.)
6. It refers the closing balance of capital liability (i.e. as on 31st march of the concerned year and it will be the opening balance as on 01st April of
7. The balances mentioned in flow of liability in Table B above and the liability as on relevant date as mentioned in Table A above should match.
8. If any of the project asset does not required to be consolidated due to any reason, the reason has to be explained and the opening position of those assets has to be shown in the format mentioned Table B above.


(Petitioner)


PART-III
FORM-4BStatement of Capital Works in Progress

Name of the transmission Asset: Augmentation of transformation capacity at KPSI (GIS) by 1x1500 MVA, 765/400 kV ICT (8th) on bus section-I

Particulars		As on relevant date ¹		(Rs. in Lakh)
		Accrual Basis	Un-discharged Liabilities	
A	a) Opening CWIP Amount as per books	-	-	-
	b) Amount of capital liabilities in A(a) above	-	-	-
	c) Amount of IDC, FC, FERV & Hedging cost included in A(a) above	-	-	-
B	a) Addition/Adjustment in CWIP during the period		6,214.91	
	b) Amount of capital liabilities in B(a) above		6,214.91	(6,214.91)
	c) Amount of IDC, FC, FERV & Hedging cost included in B(a) above		-	-
C	a) Capitalization/Transfer to Fixed asset of CWIP Amount during the period	-	-	-
	b) Amount of capital liabilities in C(a) above	-	-	-
	c) Amount of IDC, FC, FERV & Hedging cost included in C(a) above	-	-	-
D	a) Closing CWIP Amount as per books	-	6,214.91	-
	b) Amount of capital liabilities in D(a) above	-	6,214.91	(6,214.91)
	c) Amount of IDC, FC, FERV & Hedging cost included in D(a) above	-	-	-

Note: Relevant date/s means date of COD of transmission element/s and financial year start date end date

P. S. S.
(Petitioner)



PART-III
FORM-4C

Abstract of Capital Cost Estimates and Schedule of Commissioning for New project/Element

Name of the transmission Asset: Augmentation of transformation capacity at KPS1 (GIS) by 1x1500 MVA, 765/400 kV ICT (8th) on bus section-I

New Projects

New Projects Capital Cost Estimates

Board of Director/ Agency approving the Capital cost estimates:	Rs. 265.00 Crore	
Date of approval of the Capital cost estimates:	8-Aug-23	
	Present Day Cost	Completed Cost
Price level of approved estimates		
Foreign Exchange rate considered for the Capital cost estimates		
Capital Cost excluding IDC, IEDC & FC		
Foreign Component, if any (In Million US \$ or the relevant Currency)	-	-
Domestic Component (Rs. lakh)		23,588.01
Capital cost excluding IDC, FC, FERV & Hedging cost (Rs. Lakh)		23,588.01
IDC, IEDC, FC, FERV & Hedging cost		
Foreign Component, if any (In Million US \$ or the relevant Currency)	-	-
Domestic Component (Rs. lakh)		1,897.32
Total IDC,FC, FERV & Hedging cost (Rs. Lakh)		1,897.32
Rate of taxes & duties considered		
Capital cost Including IDC, FC, FERV & Hedging cost		
Foreign Component, if any (In Million US \$ or the relevant Currency)	-	-
Domestic Component (Rs. lakh)		25,485.33
Capital cost Including IDC , IEDC & FC (Rs. Lakh)		25,485.33
Schedule of Commissioning		
COD of transmission system 1/ transmission element 1/ Communication System 1	27-Jul-25	
COD of transmission system 1/ transmission element 2/ Communication System 2		
COD of last transmission system /transmission element / Communication System		

Note:

1. Copy of approval letter by the Board duly certified by the Company secretary should be enclosed
2. Details of Capital Cost are to be furnished as per FORM-5 or 5A as applicable
3. Details of IDC & Financing Charges are to be furnished as per FORM-12(B).
4. Cost should be based on Management Certificate or Auditor Certificate. In case based on management certificate, Auditor Certificate to be provided within 90 days from filing of the Petition.

Bark
(Petitioner)



PART III
Form 3

Expenditure Break-up of Project/Asset/Element Cost for Transmission System or Communication System
 Name of the transmission Asset: _____ Approximation of transmission capacity in MVA (GIB in 1.1/101 MVA, 115/101 MVA, 220/101 MVA) on bus section: _____

S.No.	Break Down	Cost in Rs. Lakhs									
		As per original Estimate	As per Revised Cost Estimate (if any)	Actual Capital Expenditure (Gross Block) as on COD as per Books of Account	The portion Capital cost included in col. 5 which is not eligible for reimbursement tariffing. Gross, other business etc.3	Projected/ actual cost of deferred work to be capitalized after COD but before cut-off date	Variation between actual Cost and LA/RCE cost as on COD	Reasons for Variation	Un-Discharge Liabilities included in Col. 5	Admitted Cost	Capital Work as Progress as per Books of Account as on COD
1	2	3	4	5	6	7	8 = (5 + 6 + 7) - (2 or 5)	9	10	11	12
A	TRANSMISSION LINE										
1	1. Preliminary works										
1.1	1.1. Design & Engineering										
1.2	1.2. Preliminary investigation on Right of way, Bore, clearance, PTCC, general on (4 or 6) etc										
1.3	1.3. Total Preliminary works (1.1 + 1.2)										
2	2. Transmission Line material										
2.1	2.1. Tower/Mast										
2.2	2.2. Conductors										
2.3	2.3. Earth Wire										
2.4	2.4. Bundles										
2.5	2.5. Hardware/Fittings										
2.6	2.6. Cables and Accessories										
2.7	2.7. Splice										
2.8	2.8. Protection, Stringing & Civil works including foundations										
2.9	2.9. Total Transmission Line material (2.1+2.2+2.3+2.4+2.5+2.6+2.7+2.8)										
3	3. Line & Ducts										
3.1	3.1. Cables/Ducts										
3.2	3.2. Cable/Land & Ducts										
3.3	3.3. Total Line & Ducts (3.1+3.2)										
4	4. Total Transmission Line (1+2+3)										
B	CIVIL WORKS										
1	1. Preliminary works & land										
1.1	1.1. Design & Engineering										
1.2	1.2. Land										
1.3	1.3. Site preparation										
1.4	1.4. Total Preliminary works & land (1.1+1.2+1.3)										
2	2. Civil Works										
2.1	2.1. Control Room & Office Building including HVAC										
2.2	2.2. Inventory R/S Chem.										
2.3	2.3. Road & Drainage										
2.4	2.4. Foundation for machinery										
2.5	2.5. Misc. civil works										
2.6	2.6. Total Civil Works (2.1+2.2+2.3+2.4+2.5)										
3	3. Substation Equipment										
3.1	3.1. Structure (C.T.P.T., Circuit Breaker, Isolator etc)										
3.2	3.2. Transformer										
3.3	3.3. Capacitor Bank (Reactor, S.V.C. etc)										
3.4	3.4. Control, Relay & Protection Panel										
3.5	3.5. PTCC										
3.6	3.6. HVDC Switch										
3.7	3.7. Bus Bar, conductors, insulators										
3.8	3.8. Outdoor Lighting										
3.9	3.9. Protection of C. Sub										
3.10	3.10. Grounding System										
3.11	3.11. Structure for equipment										
3.12	3.12. Total Substation Equipment (sum of 3.1 to 3.11)										
4	4. Services										
4.1	4.1. Taxes and Duties										
4.2	4.2. Customs Duty										
4.3	4.3. Office Taxes & Duties										
4.4	4.4. Total Taxes & Duties (4.1+4.2+4.3)										
5	5. Total (Sub-station) (3.12+4.4)										
6	6. Communication System										
6.1	6.1. Preliminary Works										
6.2	6.2. Communication System Equipment										
6.3	6.3. Power and Cables										
6.4	6.4. Total (Communication System) (6.1+6.2+6.3)										
7	7. Cost of Plant & Machinery (7.1+7.2+7.3)										
8	8. Construction and pre-commissioning expenses										
9	9. Miscellaneous										
9.1	9.1. IDC, FC, FERV & Holding Cost										
9.2	9.2. Interest on Short Term Construction (IDC)										
9.3	9.3. Foreign Exchange Rate Variation (FERV)										
9.4	9.4. Holding Cost										
9.5	9.5. Total (IDC, FC, FERV & Holding Cost) (9.1+9.2+9.3+9.4)										
10	10. Capital cost including IDC, FC, FERV & Holding Cost (10.1+10.2+10.3+10.4)										

Note:

- In case of non-common, a detailed every going account of each variation should be submitted clearly indicating whether each cost is on- or off-site and the content of the transmission system.
- Separate details of free hold term held land should be submitted.
- Debit from Gross Block includes the Gross Received as on COD. Gross Block as on COD which pertains to other business. Adjustment of excess initial space etc.
- The capital cost as per books of accounts and others should be supported by charter Certificate.

B) Summary of Capital Cost as on COD									
Particulars	Plant & Machinery Cost including initial space but excluding IDC/IFDC	Initial Space Capitalized	IDC Capitalized	IDC Capitalized	Less FERV	Gross Block as per books of Account as on COD	Deduction from Gross Block3	Gross Block meant for tariff as on COD / 01.04.2024 (after deductions)	Un-discharged liability included in 8
1	2	3	4	5	6	7	8	9	10
Land (Freehold Land)	-	-	-	-	-	-	-	-	-
Land (Leasehold)	-	-	-	-	-	-	-	-	-
Building & Civil Works	-	-	-	-	-	-	-	-	-
Transmission Line	12,214.94	-	-	1,897.32	-	14,112.26	-	14,112.26	12,214.94
Sub Station	-	-	-	-	-	-	-	-	-
PTCC	-	-	-	-	-	-	-	-	-
Total Capital Cost as per Books of Account	12,214.94	-	-	1,897.32	-	14,112.26	-	14,112.26	12,214.94
Less: Un-discharged liability	-	-	-	-	-	-	-	-	-
Total Capital Cost Cleared for tariff	12,214.94	-	-	1,897.32	-	14,112.26	-	14,112.26	12,214.94
11. IDC/IFDC on the basis of Plant & Machinery cost including initial space as per Books of Account	-	-	-	-	-	-	-	-	-
12. Interest on Short Term Construction (IDC)	-	-	-	-	-	-	-	-	-
13. Foreign Exchange Rate Variation (FERV)	-	-	-	-	-	-	-	-	-
14. Holding Cost	-	-	-	-	-	-	-	-	-
15. Total (IDC, FC, FERV & Holding Cost) (11+12+13+14)	-	-	-	-	-	-	-	-	-
16. Capital cost including IDC, FC, FERV & Holding Cost (16.1+16.2+16.3+16.4)	-	-	-	-	-	-	-	-	-
17. Total (16.1+16.2+16.3+16.4)	-	-	-	-	-	-	-	-	-

(Petitioner)



PART-III
Form 5A

Break-up of Construction/Supply/Service Packages

Augmentation of transformation capacity at KPS1 (GIS) by 1x1500 MVA, 765/400 kV ICT
(8th) on bus section-I

Name of the transmission Asset:

S.No.	Name/No. of Construction /supply/service package	Scope of works ¹ (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	Date of Completion of Work	Value of Award ² in (Rs. Lakh).	Firm or With Escalation in prices	Actual expenditure till the completion or up to COD whichever is earlier (Rs. Lakh)	IEDC (Rs. Lakh)	IDC, FC, FERV & Hedging cost (Rs. Lakh)	Sub-Total (Rs. Lakh)
1.0	Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7 GW): Part E1	Augmentation of transformation capacity at KPS1 (GIS) by 1x1500 MVA, 765/400 kV ICT (8th) on bus section-I	RTM	-	10-Jul-23	10-Jul-23	27-Jul-25	23,433.85	Firm	17,218.94	154.16	1,897.32	19,270.42

Note:

1 The scope of work in any package should be indicated in conformity of cost break-up in Form-5 to the extent possible.

2 If there is any package, which need to be shown in Indian Rupee and foreign currency(ies), the same should be shown separately along with the currency, the exchange rate and the date e.g. Rs. 800 Lakh. + US\$ 5m=Rs. 4800 Lakh. at US\$=Rs. 80 as on say 01.04.2024.



[Signature]
Petitioner

PART-III
Form 5B

Details of all the assets covered in the project

Name of the transmission Asset: Augmentation of transformation capacity at KPS1 (GIS) by 1x1500 MVA, 765/400 kV ICT (8th) on bus section-I

SCOD: 10-Jul-25

Sl.No.	Name of Asset	COD	Delay (in No. of days)	Apportioned approved cost (Rs. Lakh)	Revised cost estimates, if applicable (Rs. Lakh)	Completed Cost (Rs. Lakh)	Covered in the present Petition	
							(Yes / No)	(If No, Petition No.)
1	Augmentation of transformation capacity at KPS1 (GIS) by 1x1500 MVA, 765/400 kV ICT (8th) on bus section-I	27-Jul-25	17.00	-	-	25,485.33	Y	
Total						25,485.33		


Petitioner



Actual Cash Expenditure and Financial Package upto COD

Name of the transmission Asset:

Augmentation of transformation capacity at KPSI (GIS) by 1x1500 MVA, 765/400 kV ICT (8th) on bus section-I

A) Actual Cash Expenditure upto COD

(Rupees in lakh)

Particulars	Jul 23 - Sep 23	Oct 23 - Dec 23	Jan 24 - Mar 24	Apr 24 - Jun 24	Jul 24 - Sep 24	Oct 24 - Dec 24	Jan 25 - Mar 25	Apr 25 - Jun 25	Jul 25 - COD
Actual Payment to contractors/ suppliers during the quarter	-	-	556.27	332.20	1,958.19	3,786.42	9,821.41	596.80	165.66
Cumulative Cash payments at the end of the Quarter	-	-	556.27	888.47	2,846.66	6,633.08	16,456.49	17,053.29	17,218.95
% of cumulative cash Payment on Total Payment up to Actual COD	0%	0%	3%	5%	17%	39%	96%	99%	100%

B) Financial Package

(Rs. Lakh)

1	Financial Package as		Financial Package as on COD		As Admitted on COD	
	Currency and Amount ³		Currency and Amount ³		Currency and Amount ³	
2	3	4	5	6	7	
Loan	INR	NA	INR	12,053.26	INR	
Equity-	INR	NA	INR	7,217.16	INR	
Total Equity	INR	NA	INR	7,217.16	INR	-
Debt:Equity Ratio				70:30		
Additional Capitalization						
Normative						
Add Cap for 2024-25						
Debt						
Equity						
Total						
Add Cap for 2025-26						
Debt	4,350.44					
Equity	1,864.47					
Total	6,214.91					
Add Cap for 2026-27						
Debt						
Equity						
Total	-					
Add Cap for 2027-28						
Debt	-					
Equity	-					
Total	-					
Add Cap for 2028-29						
Debt	-					
Equity	-					
Total	-					

** Actual D:E ratio is 70:30

Note:

* Say Rs. 800 Lakh + US\$ 5m = Rs. 4800 Lakh including US\$5m at an exchange rate of US\$=Rs. 80.

For Example: US\$5m, etc.

\$ In case of foreign loans exchange rate considered on date of commercial operation.



Statement of Additional Capitalisation after COD

Name of the transmission Asset: Augmentation of transformation capacity at KPS1 (GIS) by 1x1500 MVA, 765/400 kV ICT (8th) on bus section-I
COD: 27-Jul-25

(Amount in Rs. Lakhs)

FY 2024-25				
Particulars	Addition into Gross Block as per Books of Account during the year	Less: Deductions during the year towards	Add: Discharge of earlier admitted liability	ACE on cash basis for tariff purpose
1	2	3		
Freehold Land	-	-	-	-
Leasehold Land	-	-	-	-
Building & Civil Works	-	-	-	-
Furniture & Fixtures	-	-	-	-
Office Equipments	-	-	-	-
Transmission Line	-	-	-	-
Sub-Station	-	-	-	-
PLCC	-	-	-	-
Total	-	-	-	-

FY 2025-26				
Particulars	Addition into Gross Block as per Books of Account during the year	Less: Deductions during the year towards	Add: Discharge of earlier admitted liability	ACE on cash basis for tariff purpose
1	2	3		
Freehold Land	-	-	-	-
Leasehold Land	-	-	-	-
Building & Civil Works	-	-	-	-
Furniture & Fixtures	-	-	-	-
Office Equipments	-	-	-	-
Transmission Line	-	-	-	-
Sub-Station	-	-	6,214.91	6,214.91
PLCC	-	-	-	-
Total	-	-	6,214.91	6,214.91

FY 2026-27				
Particulars	Addition into Gross Block as per Books of Account during the year	Less: Deductions during the year towards	Add: Discharge of earlier admitted liability	ACE on cash basis for tariff purpose
1	2	3		
Freehold Land	-	-	-	-
Leasehold Land	-	-	-	-
Building & Civil Works	-	-	-	-
Furniture & Fixtures	-	-	-	-
Office Equipments	-	-	-	-
Transmission Line	-	-	-	-
Sub-Station	-	-	-	-
PLCC	-	-	-	-
Total	-	-	-	-

FY 2027-28				
Particulars	Addition into Gross Block as per Books of Account during the year	Less: Deductions during the year towards	Add: Discharge of earlier admitted liability	ACE on cash basis for tariff purpose
1	2	3		
Freehold Land	-	-	-	-
Leasehold Land	-	-	-	-
Building & Civil Works	-	-	-	-
Furniture & Fixtures	-	-	-	-
Office Equipments	-	-	-	-
Transmission Line	-	-	-	-
Sub-Station	-	-	-	-
PLCC	-	-	-	-
Total	-	-	-	-

FY 2028-29				
Particulars	Addition into Gross Block as per Books of Account during the year	Less: Deductions during the year towards	Add: Discharge of earlier admitted liability	ACE on cash basis for tariff purpose
1	2	3		
Freehold Land	-	-	-	-
Leasehold Land	-	-	-	-
Building & Civil Works	-	-	-	-
Furniture & Fixtures	-	-	-	-
Office Equipments	-	-	-	-
Transmission Line	-	-	-	-
Sub-Station	-	-	-	-
PLCC	-	-	-	-
Total	-	-	-	-

B) Regulation wise ACE claim on Cash basis

Regulation No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
Total Under Regulation 24						
Reg. 25	ACE within the original scope and after the cut-off date					
25 (1) (a)	Liabilities to meet award of arbitration etc.					
25 (1) (b)	Change in law or compliance of any existing law					
25 (1) (d)	Liabilities for works executed prior to the cut-off date					
25 (1) (e)	Force Majeure Events					
25 (1) (f)	Liabilities for works admitted by the commission after the cut-off date					
Total Under Regulation 25						
Reg. 26	ACE within the original scope :					
26 (1) (a)	Liabilities to meet award of arbitration etc.					
26 (1) (b)	Change in law or compliance of any existing law:					
26 (1) (c)	Force Majeure Events;					
26 (1) (d)	Need for higher security and safety of the plant....		6,214.91			
26 (1) (f)	Expenditure necessary for efficient operation including works required towards projects acquired through NCLT process 5					
Total Under Regulation 26						
Total ACE claimed for tariff		-	6,214.91	-	-	-
Total Admitted ACE during Final tariff¹		-				

Note:

- In case the true up, provide the ACE allowed in final tariff and enclose the copy of the tariff order(s).
- Your wise details of the Work/Equipment proposed to be added after COD upto Cut-off Date/ beyond Cut-off Date has to be provided along with justification.
- In case of de-capitalisation of assets details to be furnished in Form 10B.
- No ACE towards assets individually costing below Rs. 20 lakh shall be claimed by the Petitioner.
- The capital cost as per books of accounts and liability should be supported by Auditor Certificate.
- Claims to be substantiated with technical justification and cost benefit analysis.



[Signature]
(Petitioner)

Financing of Additional Capitalisation

Name of the transmission Asset:

Augmentation of transformation capacity at KPS1 (GIS) by 1x1500 MVA, 765/400 kV ICT (8th) on bus section-I

		Actual/Projected						Admitted				(Amount in Rs. Lakh)	
Financial Year (starting from COD)		2024-25	2025-26	2026-27	2027-28	2028-29		2024-25	2025-26	2026-27	2027-28	2028-29	
1		2	3	4	5	6		7	8	9	10	11	
Amount capitalised in Work/Equipment		-	6,214.91	-	-	-		-	-	-	-	-	
Financing Details													
Loan- 1		-	4,350.44	-	-	-		-	-	-	-	-	
Loan -2													
Loan-3 and so on													
Total Loan		-	4,350.44	-	-	-		-	-	-	-	-	
Equity		-	1,864.47	-	-	-		-	-	-	-	-	
Internal Resources													
Others		-	-	-	-	-		-	-	-	-	-	
Total		-	-	-	-	-		-	-	-	-	-	

Note:

1. Year 1 refers to Financial Year of COD in case of new elements. For existing elements it is from 2024-25 and Year 2, Year 3 etc. are the subsequent financial years respectively.
2. Loan details for meeting the additional capitalisation requirement should be given as per FORM-9 or 9(A) whichever is relevant.

[Signature]

(Petitioner)



Statement of Additional Capitalisation claimed during five year before the end of the useful life of the Project

Name of the transmission Asset: Augmentation of transformation capacity at KPSI (GIS) by 1x1500 MVA, 765/400 kV ICT (8th) on bus section-I
COD: 27-Jul-25

S.No.	Year	Work/Equipment Proposed to be added five years before the useful life	Amount capitalised /Proposed to be capitalized (Rs Lakh)	Justification for capitalisation proposed	Impact on life extension
1	2	3	4	5	6
1					
2					
3					
4					
5					

Note:

• Cost Benefit analysis for capital additions done should be submitted along with petition for approval of such schemes



[Signature]
(Petitioner)

Calculation of Return on Equity at Normal Rate

Name of the transmission Asset:

Augmentation of transformation capacity at KPS1 (GIS) by 1x1500 MVA, 765/400 kV ICT (8th) on bus section-I

(Amount in Rs. Lakh)

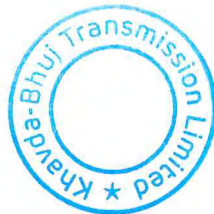
S.No.	Particulars	As on COD of 27.07.2025	2024-25	2025-26	2026-27	2027-28	2028-29
1	2		3	4	5	6	7
	No. of Days in the year		365	365	365	366	365
	No. of days for which tariff claimed		0	248	365	366	365
1	Opening Normative Equity	-		5,781.13	7,645.60	7,645.60	7,645.60
2	Less: Adjustment in Equity*	-	-	-	-	-	-
3	Adjustment during the year	-	-	-	-	-	-
4	Net Opening Equity (Normal)	-	-	5,781.13	7,645.60	7,645.60	7,645.60
5	Add: Increase in Equity due to addition during the year/period	5,781.13			-	-	-
6	Less: Decrease due to de-capitalisation during the year/period.		-	-	-	-	-
7	Add: Increase due to discharges during the year/period			1,864.47	-	-	-
8	Closing Normative Equity	5,781.13	-	7,645.60	7,645.60	7,645.60	7,645.60
9	Average Normative Equity		-	6,713.36	7,645.60	7,645.60	7,645.60
11	Rate of Return on Equity (Base Rate)			15.00%	15.00%	15.00%	15.00%
12	Reduced rate of 1% decided by commission under Regulation 30 (2) (if any)						
13	Effective tax rate / MAT rate for the respective years			25.17%	25.17%	25.17%	25.17%
14	Rate of Return on Equity (Pre Tax)			20.04%	20.04%	20.04%	20.04%
15	Return on Equity on project cost till Cutoff date (Pre Tax)		-	914.33	1,532.55	1,532.55	1,532.55

S.No.	Particulars	Existing 2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	5	6	7	8
1.1	Equity as on COD/Admitted equity			5,781.13	7,645.60	7,645.60	7,645.60
1.2	Notional Equity for Add Cap		-	1,864.47	-	-	-
1.3	Total Equity		-	7,645.60	7,645.60	7,645.60	7,645.60
1.4	Return on Equity		-	914.33	1,532.55	1,532.55	1,532.55
	Total						

(Petitioner)

Note: 1 Adjustment of equity as per Proviso to Regulation 18(3) of 2024 Tariff Regulations.
2. In respect to Equity infusion the Transmission Licensee is required to substantiate with supporting documents such as board resolutions, balance sheet/ reconciliation statement with balance sheet.

Basu
(Petitioner)



PART-III
FORM- 8A

Details of Foreign Equity

(Details only in respect of Equity infusion if any applicable to the Asset/Element under petition)

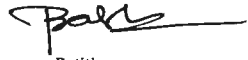
Name of the transmission Asset: Augmentation of transformation capacity at KPS1 (GIS) by 1x1500 MVA, 765/400 kV ICT (8th) on bus section-I

Exchange Rate on date/s of infusion:

S. No.	Financial Year	Year 1				Year 2				Year 3 and so on			
	1	2	3	4	5	6	7	8	9	10	11	12	13
		Date	Amount (Foreign Currency)	Exchange Rate	Amount (Rs Lakh)	Date	Amount (Foreign Currency)	Exchange Rate	Amount (Rs Lakh)	Date	Amount (Foreign Currency)	Exchange Rate	Amount (Rs Lakh)
	Currency1¹												
A. 1	At the date of infusion ²												
2													
	Currency2¹												
A. 1	At the date of infusion ²												
2													
	Currency3¹												
A. 1	At the date of infusion ²												
2													
	Currency4¹ & so on												
A. 1	At the date of infusion ²												
2													
3													

Note:

1. Name of the currency to be mentioned e.g. US\$, DM, etc.
2. In case of equity infusion more than once during the year, Exchange rate at the date of each infusion to be given


Petitioner



Details of Allocation of corporate loans to various transmission elements

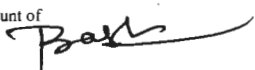
Name of the transmission Asset:

Augmentation of transformation capacity at KPSI (GIS) by 1x1500 MVA, 765/400 kV ICT (8th) on bus section-I

Particulars	Package1	Package2	Package3	Package4	Package5	Remarks
1	2	3	4	5	6	7
Source of Loan ¹						
Currency ²						
Amount of Loan sanctioned						
Amount of Gross Loan drawn upto 31.03.2024/COD 3,4,5,13,15						
Interest Type ⁶						
Fixed Interest Rate, if applicable						
Base Rate, if Floating Interest ⁷						
Margin, if Floating Interest ⁸						
Are there any Caps/Floor ⁹	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	
If above is yes,specify caps/floor						
Moratorium Period ¹⁰						
Moratorium effective from						
Repayment Period ¹¹						
Repayment effective from						
Repayment Frequency ¹²						
Repayment Instalment ^{13,14}						
Base Exchange Rate ¹⁶						
Are foreign currency loan hedged?						
If above is yes,specify details ¹⁷						
Distribution of loan packages to various transmission elements/Communication system						
Name of the Projects						Total
Transmission element 1/Communication system 1						
Transmission element 2 /Communication system 2						
Transmission element 3/Communication system 3 and so on						

Note:

- Source of loan means the agency from whom the loan has been taken such as WB, ADB, WMB, PNB, SBI, ICICI, IFC, PFC etc.
- Currency refers to currency of loan such as US\$, DM, Yen, Indian Rupee etc.
- Details are to be submitted as on 31.03.2024 for existing assets and as on COD for the remaining assets.
- Where the loan has been refinanced, details in the Form is to be given for the loan refinanced. However, the details of the original loan is to be given separately in the same form.
- If the Tariff in the petition is claimed separately for various transmission elements/Communication system, details in the Form is to be given separately for all the transmission elements/ Communication system in the same form.
- Interest type means whether the interest is fixed or floating.
- Base rate means the base as PLR, MCLR, LIBOR etc. over which the margin is to be added. Applicable base rate on different dates from the date of drawl may also be enclosed.
- Margin means the points over and above the floating rate.
- At times caps/floor are put at which the floating rates are frozen. If such a condition exists, specify the limits.
- Moratorium period refers to the period during which loan servicing liability is not required.
- Repayment period means the repayment of loan such as 7 years, 10 years, 25 years etc.
- Repayment frequency means the interval at which the debt servicing is to be done such as monthly, quarterly, half yearly, annual, etc.
- Where there is more than one drawl/repayment for a loan, the date & amount of each drawl/repayment may also be given separately.
- If the repayment installment amount and repayment date cannot be worked out from the data furnished above, the repayment schedule to be furnished separately.
- In case of Foreign loan, date of each drawl & repayment of principal and interest along with exchange rate at that date may be given.
- Base exchange rate means the exchange rate as on 31.03.2024 or as on COD whichever is later.
- In case of hedging, specify details like type of hedging, period of hedging, cost of hedging, etc.
- At the time of truing up rate of interest with relevant reset date (if any) to be furnished separately
- At the time of truing up provide details of refinancing of loans considered earlier. Details such as date on which refinancing done, amount of refinanced loan, terms and conditions of refinanced loan, financing and other charges incurred for refinancing etc.


 Petitioner


PART-III
FORM- 9A

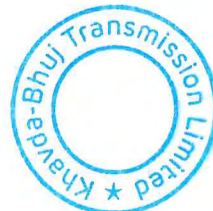
Details of Project Specific Loans

Name of the transmission Asset: Augmentation of transformation capacity at KPS1 (GIS) by 1x1500 MVA, 765/400 kV ICT (8th) on bus section-I

Particulars	Package 1
1	2
Source of Loan ¹	ICD
Currency ²	INR
Amount of Loan sanctioned	16403.70
Amount of Gross Loan drawn upto 31.03.2024/COD ^{3,4,5,13,15}	12053.26
Interest Type ⁶	11.00%
Fixed Interest Rate, if applicable	Fixed Rate
Base Rate, if Floating Interest ⁷	NA
Margin, if Floating Interest ⁸	NA
Are there any Caps/Floor ⁹	NA
If above is yes,specify caps/floor	NA
Moratorium Period ¹⁰	NA
Moratorium effective from	NA
Repayment Period ¹¹	As per Agreement
Repayment effective from	As per Agreement
Repayment Frequency ¹²	As per Agreement
Repayment Instalment ^{13,14}	As per Agreement
Base Exchange Rate ¹⁶	NA
Are foreign currency loan hedged?	NA
If above is yes,specify details ¹⁷	NA

Note:

- Source of loan means the agency from whom the loan has been taken such as WB, ADB, WMB, PNB, SBI, ICICI, IFC, PFC etc.
- Currency refers to currency of loan such as US\$, DM, Yen, Indian Rupee etc.
- Details to be submitted as on 31.03.2024 for existing assets and as on COD for the remaining assets.
- Where the loan has been refinanced, details in the Form is to be given for the loan refinanced. However, the details of the original loan is to be given separately in the same form.
- If the Tariff in the petition is claimed separately for various transmission system/transmission elements/Communication system, details in the Form is to be given separately for all the transmission system/transmission element/ Communication system in the same form.
- Interest type means whether the interest is fixed or floating.
- Base rate means the base as PLR, MCLR, LIBOR etc. over which the margin is to be added. Applicable base rate on different dates from the date of drawl may also be enclosed.
- Margin means the points over and above the floating rate.
- At times caps/floor are put at which the floating rates are frozen. If such a condition exists, specify the limits.
- Moratorium period refers to the period during which loan servicing liability is not required.
- Repayment period means the repayment of loan such as 7 years, 10 years, 25 years etc.
- Repayment frequency means the interval at which the debt servicing is to be done such as monthly, quarterly, half yearly, annual, etc.
- Where there is more than one drawl/repayment for a loan, the date & amount of each drawl/repayment may also be given separately
- If the repayment installment amount and repayment date cannot be worked out from the data furnished above, the repayment schedule to be furnished separately.
- In case of Foreign loan, date of each drawl & repayment of principal and interest along with exchange rate at that date may be given.
- Base exchange rate means the exchange rate as on 31.03.2024 or as on COD whichever is later.
- In case of hedging, specify details like type of hedging, period of hedging, cost of hedging, etc.
- At the time of truing up rate of interest with relevant reset date (if any) to be furnished separately
- At the time of truing up provide details of refinancing of loans considered earlier. Details such as date on which refinancing done, amount of refinanced loan, terms and conditions of refinanced loan, financing and other charges incurred for refinancing etc.



[Signature]
(Petitioner)

PART-III
FORM- 9B

Details of Foreign loans

(Details only in respect of loans applicable to the Asset/Element under Petition)

Name of the transmission Asset: Augmentation of transformation capacity at KPS1 (GIS) by 1x1500 MVA, 765/400 kV ICT (8th) on bus section-I

Exchange Rate at COD/31.03.2024 whichever is later

27-Jul-25

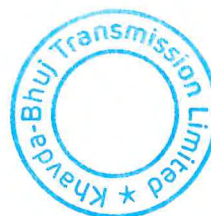
S.No.	Financial Year (Starting from COD)	Year 1				Year 2 and so on			
	1	2	3	4	5	6	7	8 ⁵	9
	Particular	Date	Amount (Foreign Currency)	Exchange Rate	Amount (Rs.)	Date	Amount (Foreign Currency)	Exchange Rate	Amount (Rs.)
	Currency1¹								
A. 1	At the date of Drawl ²								
2	Scheduled repayment date of principal								
3	Scheduled payment date of interest								
4	At the end of Financial year								
B	In case of Hedging ³								
1	At the date of hedging								
2	Period of hedging								
3	Cost of hedging								
	Currency2¹								
A. 1	At the date of Drawl ²								
2	Scheduled repayment date of principal								
3	Scheduled payment date of interest								
4	At the end of Financial year								
B	In case of Hedging ³								
1	At the date of hedging								
2	Period of hedging								
3	Cost of hedging								
	Currency3¹ & so on								
A. 1	At the date of Drawl ²								
2	Scheduled repayment date of principal								
3	Scheduled payment date of interest								
4	At the end of Financial year								
B	In case of Hedging ³								
1	At the date of hedging								
2	Period of hedging								
3	Cost of hedging								

¹ Name of the currency to be mentioned e.g. US \$, DM, etc. etc.² In case of more than one drawl during the year, Exchange rate at the date of each drawl to be given.³ Furnish details of hedging, in case of more than one hedging during the year or part hedging, details of each hedging are to be given with supporting documents

Note:

In case of refinancing similar details with supporting documents to be furnished

\$ - Exchange rate at COD/31.03.2024 whichever is later.



Pasth
(Petitioner)

PART-III
FORM- 9CCalculation of Weighted Average Rate of Interest on Actual Loans¹

Name of the transmission Asset:

Augmentation of transformation capacity at KPS1 (GIS) by 1x1500 MVA, 765/400 kV
ICT (8th) on bus section-I

(Amount in Rs. Lakh)

Sr. No.	Particulars	Existing 2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
	1	2	3	4	5	6	7
2	Inter-Company Deposit						
	Net loan - Opening		-	12,053.26	16,403.70	16,403.70	16,403.70
	Add: Drawal(s) during the Year		-	4,350.44	-	-	-
	Less: Repayment (s) of Loans during the year		-	-	-	-	-
	Net loan - Closing		-	16,403.70	16,403.70	16,403.70	16,403.70
	Average Net Loan		-	14,228.48	16,403.70	16,403.70	16,403.70
	Rate of Interest on Loan on derived basis based on interest paid divided by Average of Opening and Closing Balance of Loan			11.00%	11.00%	11.00%	11.00%
	Interest on loan		-	1,565.13	1,804.41	1,804.41	1,804.41
3	Total Loan						
	Net loan - Opening		-	12,053.26	16,403.70	16,403.70	16,403.70
	Add: Drawal(s) during the Year		-	4,350.44	-	-	-
	Less: Repayment (s) of Loans during the year		-	-	-	-	-
	Net loan - Closing		-	16,403.70	16,403.70	16,403.70	16,403.70
	Average Net Loan		-	14,228.48	16,403.70	16,403.70	16,403.70
	Interest on loan		-	1,565.13	1,804.41	1,804.41	1,804.41
	Weighted average Rate of interest on Loans		0.00%	11.00%	11.00%	11.00%	11.00%

Note:1. In case of Foreign Loans, the calculations in Indian Rupees is to be furnished as per Form 9(D). However, the calculation in original currency is also to be furnished separately in the same form.

2. In case of already commissioned combined assets the details may be provided asset wise as well as combined.

3. Details of Financing Charges.


(Petitioner)



PART-III
FORM- 9DLoans in Foreign Currency

Name of the transmission Asset:

Augmentation of transformation capacity at KPS1 (GIS) by 1x1500 MVA,
765/400 kV ICT (8th) on bus section-I

Particulars	Existing 2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
I	2	3	4	5	6	7
Foreign Loan-1 (USD in Lakh) Exchange rate						
Gross loan - Opening						
Cumulative repayments of Loans upto previous year						
Net loan - Opening						
Add: Drawal(s) during the Year						
Less: Repayment (s) of Loans during th year						
Net loan - Closing						
Average Net Loan						
Rate of Interest on Loan on annual basis						
Interest on loan						
Loan repayment effective from (date to be indicated)						
Foreign Loan-2 (USD in Lakh) Exchange rate						
Gross loan - Opening						
Cumulative repayments of Loans upto previous year						
Net loan - Opening						
Add: Drawal(s) during the Year						
Less: Repayment (s) of Loans during the year						
Net loan - Closing						
Average Net Loan						
Rate of Interest on Loan on annual basis						
Interest on loan						
Loan repayment effective from (date to be indicated)						
Foreign Loan-3 (USD in Lakh) Exchange rate						
....						
....						

Petitioner



PART-III
FORM-9E

Calculation of Interest on Normative Loan

Augmentation of transformation capacity at KPSI (GIS) by 1x1500 MVA, 765/400 kV ICT (8th) on bus section-I

Name of the transmission Asset:

S.No.	Particulars	As on COD of 27.07.2025	2024-25	2025-26	2026-27	2027-28	2028-29
	No. of Days in the year		365	365	365	366	365
	No. of days for which tariff claimed		0	248	365	366	365
1	Gross Normative loan - Opening	-		13,489.29	17,839.73	17,839.73	17,839.73
2	Cumulative repayment of Normative Loan upto previous year		-	-	641.64	1,717.12	2,792.60
3	Net Normative loan - Opening		-	13,489.29	17,198.09	16,122.61	15,047.13
4	Addition in Normative loan towards the ACE	13,489.29	-	4,350.44	-	-	-
5	Adjustment of Normative Gross loan pertaining to the decapitalised asset.		-	-	-	-	-
6	Normative Repayments of Normative Loan during the year	-	-	641.64	1,075.48	1,075.48	1,075.48
7	Adjustment of Cum. repayment pertaining to the decapitalised asset.		-	-	-	-	-
8	Net Normative loan - Closing	13,489.29	-	17,198.09	16,122.61	15,047.13	13,971.65
9	Average Normative Loan		-	15,343.69	16,660.35	15,584.87	14,509.39
10	Weighted average Rate of Interest of actual Loans		0.00%	11.00%	11.00%	11.00%	11.00%
11	Interest on Normative loan		-	1,146.78	1,832.64	1,714.34	1,596.03

(Amount in Rs. Lakh)



Bar
(Petitioner)

PART-III
FORM- 10Calculation of Depreciation Rate on original project cost

Name of the transmission Asset: Augmentation of transformation capacity at KPSJ (GIS) by 1x1500 MVA, 765/400 kV ICT (8th) on bus section-I
(Amount in Rs. Lakh)

Sl. no.	Name of the Assets ¹	Gross Block as on 31.03.2024	Additional Capitalization During FY 2024-25	Gross Block as on 31.03.2025	Depreciation Rates as per CERC's Depreciation Rate Schedule ²	Depreciation Amount for FY 2024-25
	1	2	3	4	5	6= average(2,4) X 5
1	Transmission Line	-	-	-	4.22%	-
2	Substation equipments	-	-	-	4.22%	-
3	Free hold Land	-	-	-	0.00%	-
4	Leasehold Land	-	-	-	3.34%	-
5	PLCC	-	-	-	6.33%	-
6	Furniture / Fixture	-	-	-	6.33%	-
7	Civil Works & Building	-	-	-	3.34%	-
8	Office Equipments	-	-	-	6.33%	-
	Total	-	-	-	0.00%	-
	Weighted Average Rate of Depreciation (%)					0.00%

Sl. no.	Name of the Assets ¹	Gross Block as on 27.07.2025	Additional Capitalization During FY 2025-26	Gross Block as on 31.03.2026	Depreciation Rates as per CERC's Depreciation Rate Schedule ²	Depreciation Amount for FY 2025-26
	1	2	3	4	5	6= average(2,4) X 5
1	Transmission Line	-	-	-	4.22%	-
2	Substation equipments	19,270.42	6,214.91	25,485.33	4.22%	641.64
3	Free hold Land	-	-	-	0.00%	-
4	Leasehold Land	-	-	-	3.34%	-
5	PLCC	-	-	-	6.33%	-
6	Furniture / Fixture	-	-	-	6.33%	-
7	Civil Works & Building	-	-	-	3.34%	-
8	Office Equipments	-	-	-	6.33%	-
	Total	19,270.42	6,214.91	25,485.33	2.87%	641.64
	Weighted Average Rate of Depreciation (%)					2.87%

Sl. no.	Name of the Assets ¹	Gross Block as on 31.03.2026	Additional Capitalization During FY 2026-27	Gross Block as on 31.03.2027	Depreciation Rates as per CERC's Depreciation Rate Schedule ²	Depreciation Amount for FY 2026-27
	1	2	3	4	5	6= average(2,4) X 5
1	Transmission Line	-	-	-	4.22%	-
2	Substation equipments	25,485.33	-	25,485.33	4.22%	1,075.48
3	Free hold Land	-	-	-	0.00%	-
4	Leasehold Land	-	-	-	3.34%	-
5	PLCC	-	-	-	6.33%	-
6	Furniture / Fixture	-	-	-	6.33%	-
7	Civil Works & Building	-	-	-	3.34%	-
8	Office Equipments	-	-	-	6.33%	-
	Total	25,485.33	-	25,485.33	4.22%	1,075.48
	Weighted Average Rate of Depreciation (%)					4.22%

Sl. no.	Name of the Assets ¹	Gross Block as on 31.03.2027	Additional Capitalization During FY 2027-28	Gross Block as on 31.03.2028	Depreciation Rates as per CERC's Depreciation Rate Schedule ²	Depreciation Amount for FY 2027-28
	1	2	3	4	5	6= average(2,4) X 5
1	Transmission Line	-	-	-	4.22%	-
2	Substation equipments	25,485.33	-	25,485.33	4.22%	1,075.48
3	Free hold Land	-	-	-	0.00%	-
4	Leasehold Land	-	-	-	3.34%	-
5	PLCC	-	-	-	6.33%	-
6	Furniture / Fixture	-	-	-	6.33%	-
7	Civil Works & Building	-	-	-	3.34%	-
8	Office Equipments	-	-	-	6.33%	-
	Total	25,485.33	-	25,485.33	4.22%	1,075.48
	Weighted Average Rate of Depreciation (%)					4.22%

Sl. no.	Name of the Assets ¹	Gross Block as on 31.03.2028	Additional Capitalization During FY 2028-29	Gross Block as on 31.03.2029	Depreciation Rates as per CERC's Depreciation Rate Schedule ²	Depreciation Amount for FY 2028-29
	1	2	3	4	5	6= average(2,4) X 5
1	Transmission Line	-	-	-	4.22%	-
2	Substation equipments	25,485.33	-	25,485.33	4.22%	1,075.48
3	Free hold Land	-	-	-	0.00%	-
4	Leasehold Land	-	-	-	3.34%	-
5	PLCC	-	-	-	6.33%	-
6	Furniture / Fixture	-	-	-	6.33%	-
7	Civil Works & Building	-	-	-	3.34%	-
8	Office Equipments	-	-	-	6.33%	-
	Total	25,485.33	-	25,485.33	4.22%	1,075.48
	Weighted Average Rate of Depreciation (%)					4.22%

Note:

1. Name of the Assets should conform to the description of the assets mentioned in Depreciation Schedule appended to the Notification.
2. For Existing Project Depreciation Rate shall be as per Appendix-I while for New Project the rate shall be as per Appendix-II.



PART-III
FORM- 10A

Name of the transmission Asset:

Augmentation of transformation capacity at KPS1 (GIS) by 1x1500 MVA, 765/400 kV ICT (8th) on bus section-I

(Amount in Rs. Lakh)

Sl. No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
(1)	(2)	(4)	(5)	(6)	(7)	(8)
1	Opening Capital Cost	-	19,270.42	25,485.33	25,485.33	25,485.33
2	Closing Capital Cost	-	25,485.33	25,485.33	25,485.33	25,485.33
3	Average Capital Cost	-	22,377.88	25,485.33	25,485.33	25,485.33
4	Freehold land	-	-	-	-	-
5	Rate of depreciation	0.00%	4.22%	4.22%	4.22%	4.22%
6	Depreciable value	-	22,936.80	22,936.80	22,936.80	22,936.80
7	Balance useful life at the beginning of the period					
8	Remaining depreciable value	-	22,936.80	22,295.16	21,219.68	20,144.20
9	Depreciation (for the period)	-	641.64	1,075.48	1,075.48	1,075.48
10	Depreciation (annualised)	-	641.64	1,075.48	1,075.48	1,075.48
11	Cumulative depreciation at the end of the period	-	641.64	1,717.12	2,792.60	3,868.08
12	Less: Cumulative depreciation adjustment on account of de-capitalisation	-	-	-	-	-
13	Net Cumulative depreciation at the end of the period	-	641.64	1,717.12	2,792.60	3,868.08

Patel
(Petitioner)



Statement of De-capitalisation

Name of the transmission Asset: Augmentation of transformation capacity at KPS1 (GIS) by 1x1500 MVA, 765/400 kV ICT (8th) on bus section-I
COD : 27-Jul-25

S. No.	Category	Date of Decapitalisation	Details of the Asset Decapitalised	Date / Year of capitalisation of asset/equipment being decapitalised	Original Capital Cost admitted for tariff for the asset being decapitalised	Debt Equity ratio considered on for tariff on the Capital cost at (5)	Cumulative Depreciation corresponding to decapitalised asset up to the date of decapitalisation	Cumulative Repayment of Loan corresponding to decapitalised asset up to the date of decapitalisation	Details of Petition in which the tariff of the asset being decapitalised was approved by Commission (Specify All the Pet. No. & Order date, Project name, Asset No for all the periods starting from its COD till date)
1	2	3	4	5	6	7	8	9	10
2024-25									
1									
2...									
Total									
2025-26									
1									
2...									
Total									
2026-27									
1									
2...									
Total									
2027-28									
1									
2...									
Total									
2028-29									
1									
2...									
Total									

Note:

1. Replacement due to no usable condition like destroyed, completed useful life etc.
2. Replacement due to change in law.
3. Inter Unit transfer (transfer outside of the project)
4. Asset not put to use



P. Patel
Petitioner

**PART-III
FORM- 11**

Calculation of Interest on Working Capital

Name of the transmission Asset: Augmentation of transformation capacity at KPS1 (GIS) by 1x1500 MVA, 765/400 kV ICT (8th) on bus section-I

		(Amount in Rs. Lakh)					
Sl. No.	Particulars	As on 01-04-2024 / as on COD whichever is later	2024-25	2025-26	2026-27	2027-28	2028-29
I	No. of Days in the year		365	365	365	366	365
II	No. of days for which tariff claimed		0	248.00	365	366	365
1	O & M Expenses - one month		-	39.87	61.60	64.71	68.13
2	Maintenance Spares 15% of O&M Expenses		-	48.77	110.88	116.48	122.63
3	Receivables equivalent to 45 days of AFC		-	399.58	651.06	639.27	631.52
4	Total Working Capital		-	488.22	823.54	820.46	822.28
5	Reference 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%
6	Interest on Working Capital		-	59.81	100.88	100.51	100.73

P. K. S.
(Petitioner)



PART-III
FORM- 12

Details of time over run

Name of the transmission Asset: Augmentation of transformation capacity at KPSI (GIS) by 1x1500 MVA, 765/400 kV ICT (8th) on bus section-I

S.No	Description of Activity/Works/Service	Original Schedule (As per Planning)		Actual Achieved (As per Actual)		Time Over-Run	Agency responsible and whether such time over run was beyond the control of the Transmission Licensee	Reasons for delay	Other Activity affected (Mention Sr No of activity affected)
		Start Date	Completion Date	Start Date	Completion Date				
1	Commissioning related	07.05.2025	29.05.2025	29.05.2025	21.06.2025	23.00	-	India Pakistan War	
2	Commissioning related activities - Outage related	28.06.2025	01.07.2025	22.07.2025	25.07.2025	25.00	WRLDC	Non allowance of outage by WRLDC	
3									
4									
5									
6									
7									
8									
9									
10									

1. Delay on account of each reason in case of time overrun should be quantified and substantiated with necessary documents and supporting workings.
2. In case any margin (in schedule) is kept for the purpose of probable issue of RoW, the same may be indicated separately by the petitioner

P. B. K.
Petitioner



PART-III
FORM- 12A

Incidental Expenditure during Construction

Name of the transmission Asset:

Augmentation of transformation capacity at KPS1 (GIS) by 1x1500 MVA, 765/400 kV ICT (8th) on bus section-I

Date of Commercial Operation

27-Jul-25

S.No.	Parameters	Year 1	Year 2	Year 3	Year 4	Year 5
A	Expenses:					
1	Employees' Remuneration & Benefits					
2	Finance Costs					
3	Water Charges					
4	Communication Expenses					
5	Power Charges					
6	Depreciation					
7	Other Office and Administrative Expenses					
8	Others (Please Specify Details)					
9	Other pre-Operating Expenses					
	...					
B	Total Expenses					
	Less: Income from sale of tenders					
	Less: Income from guest house					
	Less: Income recovered from Contractors					
	Less: Interest on Deposits					
						
	Total					

(Amount in Rs. Lakh)

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



Back
Petitioner

PART-III
FORM- 12BDraw Down Schedule for Calculation of IDC & Financing Charges

Name of the Transmission A Augmentation of transformation capacity at KPS1 (GIS) by 1x1500 MVA, 765/400 kV ICT (8th) on bus section-I

Interest during Construction: Foreign Loan

S. No.	Draw Down	Quantum in Foreign Currency	Quarter 1 Exchange rate on Draw down date	Amount in Indian Rupees (Rs. Lakh)	Quarter 2 Exchange rate on Draw down date	Amount in Indian Rupees (Rs. Lakh)	Quarter n (COD) Exchange rate on Draw down date	Amount in Indian Rupees (Rs. Lakh)
I	Loans							
I.1	Foreign Loans							
I.1.1	Total Foreign Loan ¹							
	Draw down Amount							
	IDC							
	Financing charges							
	Foreign Exchange Rate Variation							
	Hedging Cost							

Note:

1. Drawl of debt and equity shall be on pari-passu basis quarter wise to meet the commissioning schedule. Drawl of higher equity in the beginning is permissible. IDC on normative loan corresponding to excess equity over 30% of funds deployed shall be allowed only in case the actual infusion of equity on a pari-passu basis is more than 30% of total funds deployed and shall be computed on quarterly basis.

2. Applicable interest rates including reset dates used for above computation may be furnished separately

3. In case of multi element project details of capitalization ratio used to be furnished.

4. In case IDC on normative loan is to be allowed prior to infusion of actual loan, rate of interest for computing such IDC shall be equal to 1-year SBI MCLR as prevailing on 1st April of the respective year. IDC on normative loan, post infusion of actual loan shall be computed based on WAROI for that respective quarter.

Interest during Construction: Domestic Loan

S. No.	Name of the Lender & Loan	Loan Type	Interest Type	Interest Frequency	Interest Due dates	Date of Infusion	Loan Principal Amount	Rate of Interest	COD	No. of Interest days	Interest up to COD	Adjustment s if any	Capitalised IDC Up to COD
	1	2	3	4	5	6	7	8	9	10 = 9 - 6	11	12	13 = 11 - 12
1	Loan I	Project Specific Loan	Fixed	Quarterly		18-Jan-24	1,491.00	11.00%	27-Jul-25	356	249.83	-	249.83
2						18-Jan-24	5,520.00	11.00%	27-Jul-25	556	924.94	-	924.94
3						18-Jan-24	500.00	11.00%	27-Jul-25	556	83.78	-	83.78
4						18-Jan-24	350.00	11.00%	27-Jul-25	556	58.65	-	58.65
5						18-Jan-24	500.00	11.00%	27-Jul-25	556	83.78	-	83.78
6						2/8/2024	139.23	11.00%	27-Jul-25	515	24.71	-	24.71
7						3/27/2024	350.00	11.00%	27-Jul-25	487	51.37	-	51.37
8						3/27/2024	350.00	11.00%	27-Jul-25	487	51.37	-	51.37
9						3/28/2024	165.00	11.00%	27-Jul-25	486	24.17	-	24.17
10						3/28/2024	55.00	11.00%	27-Jul-25	486	8.06	-	8.06
11						4/18/2024	20.00	11.00%	27-Jul-25	465	2.80	-	2.80
12						4/18/2024	60.00	11.00%	27-Jul-25	465	8.41	-	8.41
13						4/29/2024	610.00	11.00%	27-Jul-25	454	86.20	-	86.20
14						5/8/2024	50.00	11.00%	27-Jul-25	445	6.71	-	6.71
15						5/14/2024	20.00	11.00%	27-Jul-25	439	2.65	-	2.65
16						5/29/2024	70.00	11.00%	27-Jul-25	424	8.94	-	8.94
17						6/6/2024	1,725.00	11.00%	27-Jul-25	416	216.26	-	216.26
18						6/12/2024	38.02	11.00%	27-Jul-25	410	4.70	-	4.70
Total							12,053.26				1,897.32	-	1,897.32

a) Loan Type (Project Specific loan/ Allocated loan).

b) Interest type (Fixed / Floating)

c) Interest payment frequency (Annual, Semi-Annual, Qtrly/Monthly etc.

d) Interest on Cash basis (i.e. Interest Actually paid up to Actual COD)

e) Un-Discharge IDC liability as on COD

f) Discharge of IDC liability claimed as ACE in Year 1

g) Discharge of IDC liability claimed as ACE in Year 2



Details of Initial Spares

Name of the Transmission Assets : Augmentation of transformation capacity at KPS1 (GIS) by 1x1500 MVA, 765/400 kV ICT (8th) on bus section-I
 Claimed / Admitted COD: 27-Jul-25 Cut-off Date of the Asset: 31-Mar-28

A) Determination of Excess initial spare and its adjustment from Capital Cost													
Particulars	Plant and Machinery cost as on cut-off date ¹	Initial Spare Capitalised as per Books of Account up to Cut-off Date					Ceiling limit as mentioned in Regulations 23	Entitled Initial Spare as per Regulations	Excess of capitalised Initial Spare to be reduced from Capital cost.	Adjustment of Excess Initial Spare from Capital cost of Plant and Machinery			
		As on COD	As ACE dr. Y1	As ACE dr. Y2	As ACE dr. Y3	Total as on Cutoff Date ³				COD	ACE for Y1	ACE for Y2	ACE for Y3
1	2	3	4	5	6	7	8	9	10 = 7 - 9 (Note 2)	11	12	13	14
Transmission Line							1.00%						
Substation Green field							4.00%						
Substation Brown Field							6.00%						
Series Compensation devices and HVDC Station							4.00%						
GIS/S- Green field							5.00%						
GIS/S-Brown field							7.00%						
Communication System							3.50%						
Static Synchronous Compensator							6.00%						
Initial spare as per Books of Account													
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 within the ceiling limit.

3) Total cost should be evaluating IDC and IEDC.

4) Initial Spare for high voltage U/G Cable shall be allowed on case to case basis after due prudence check.

B) Determination of Plant & Machinery Cost for ceiling of initial spare

Particulars	Gross Block of Assets as on COD	Less: Amount included in Col. B towards					Plant and machinery cost as on COD for Initial Spare purpose	Plant & Machinery Capitalised as ACE up to cutoff date			plant and machinery cost as on cut-off Date for the purpose of initial spare
		Land Cost	Cost of Civil Works	IEDC	IDC	Initial Spare		Year 1	Year 2	Year 3	
a	b	c	d	e	f	g	h=b-c-d-e-f-g	i	j	k	l = h+i+j+k
Transmission Line											
Substation Green field											
Substation Brown Field											
Series Compensation devices and HVDC Station											
Gas Insulated Substation- Green field											
Gas Insulated Substation-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 up to the cut-off date.

Petitioner



PART-III
FORM- 14

Non -Tariff Income

S. No.	Particulars	Existing 2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
1	Income from rent of land or buildings or eco-tourism						
2	Income from sale of scrap						
3	Income from advertisements						

Note: To be submitted at the time of truing up


Petitioner



**PART-III
FORM- 15**

Summary of issue involved in the petition

1	Name of the Petitioner	Khavda - Bhuj Transmission Ltd.
2	Petition Category	Transmission
3	Tariff Period	2024-29
		Augmentation of transformation capacity at KPS1 (GIS) by 1x1500 MVA, 765/400 kV ICT (8th) on bus section-I
4	Name of the Project	
5	Investment Approval date	8/8/2023
6	SCOD of the Project	10-Jul-25
7	Actual COD of the project	27-Jul-25
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	1
11	Estimated Project Cost as per IA	265.00 Crore
12	Is there any REC? if so, provide the date	No
13	Revised Estimated Project Cost (if any)	Nil
	Completion cost for all the assets covered in the instant petition	Yes
14	No. of Assets covered in instant petition and having cost overrun	Yes
15		
16	Prayer in brief	
17	Key details and any Specific issue involved	
18	Respondents	
	Name of Respondents	
	1. Central Transmission Utility of India Ltd. (CTUJIL)	
	2. Madhya Pradesh Power Management Company Limited (MPPMCL)	
	3. Chhattisgarh State Power Distribution Company Limited (CSPDCL)	
	4. Maharashtra State Electricity Distribution Company Limited (MSEDCL)	
	5. Gujarat Urja Vikas Nigam Limited (GUVNL)	
	6. DNH Power Distribution Corporation Limited	
	7. Electricity department Goa	
	8. Dadra Nagar Haveli and Daman and Diu Power Distribution Corporation Limited	

Petitioner



PART-III
FORM A

Summary of Capital Cost & Annual Fixed Cost (AFC) Claimed for ALL the assets covered in the present petition.

Name of the Petitioner
Tariff Period 2024-29

Khavda - Bhuj Transmission Ltd.
2024-29

Name of the Transmission Project

Augmentation of transformation capacity at KPS1 (GIS) by 1x1500 MVA,
765/400 kV ICT (8th) on bus section-I
27-Jul-25

COD of the Project (if entire scope of project is completed)

A) Summary of Capital Cost as on COD and Additional Capital Expenditure claimed for all the assets Covered in the instant petition.

Sr. No.	Asset No.	COD	Cut off date	Summary of Actual / Projected Capital Cost						Capital Cost as on 31.03.2029
				As on COD	2024-25	2025-26	2026-27	2027-28	2028-29	
1	Asset 1	7/27/2025	3/31/2028	19,270.42	-	6,214.91	-	-	-	25,485.33
				Total Capital Cost Claimed						25,485.33

B) Summary of Annual Fixed Cost (AFC) claimed for all the assets covered in the instant petition.

S. No.	Asset No.	2024-25	2025-26	2026-27	2027-28	2028-29
1	Asset 1	-	3,241.04	5,280.78	5,199.40	5,122.34
Total AFC for all the Assets		-	3,241.04	5,280.78	5,199.40	5,122.34





Energy Solutions

Annexure-10

CERTIFIED TRUE COPY OF THE RESOLUTION PASSED IN THE MEETING OF THE BOARD OF DIRECTORS OF KHAVDA-BHUJ TRANSMISSION LIMITED ("THE COMPANY") HELD ON SATURDAY, THE 08TH DAY OF FEBRUARY 2025 AT 1:30 PM AT KP EPITOME, NEAR DAV INTERNATIONAL SCHOOL, MAKARBA, AHMEDABAD-380051.

"RESOLVED THAT Mr. M.R. Krishna Rao, Mr. Vivek Gautam, Mr. Molay Kumar Maitra, Mr. Tanmay Vyas, Mr. Praveen Tamak, Mr. Narendra Ojha, Mr. Bhavesh Kundalia, Mr. Prashant Kumar, Mr. Naresh Desai, Mr. Afak Pothiawala, Mr. Hiteshkumar Vaghasiya, Mr. Hareshkumar Vaghasiya, Mr. Atul Kumar Singh, Mr. Sanjay Johari, Mr. Matulya Shah, Mr. Rajesh Sirigirisetty, Mr. Harsh Rana, Ms. Afrin Mankad (hereinafter referred to as Authorised Signatories) be and are hereby severally Authorised to sign and submit petitions, affidavits, agreements, declarations, undertakings, deeds, Bills, submission of details of Bank Accounts or change of Bank Accounts and other documents in connection therewith or incidental thereto before Central Electricity Regulatory Commission (CERC), Appellate Tribunal for Electricity (APTEL), Power Grid Corporation of India Limited (PGCIL), Central Transmission Utility of India Ltd (CTUIL), Power System Operation Corporation Limited (POSOCO), Regional Power Committees and Regional Load Dispatch Centres and other regulatory authorities for and on behalf of the Company.

RESOLVED FURTHER THAT Authorised Signatories be and are hereby severally authorised (a) to issue notices, affidavit and other documents, communications to Long Term Transmission Customers and other Parties / agencies, including Central Transmission Utility of India Limited. and WRLDC/SRLDC (b) to file Petition, Affidavit, Notices and other documents before Regulatory Commission or other Electricity body, Appellate Tribunal for Electricity and Supreme Court for issues arising out of Transmission Service Agreement and Bulk Power Transmission Agreement, (c) to engage, appoint or remove any pleaders or advocates, and sign vakalatnamas, power of attorney for such engagement or appointment and (d) to file appeal and defend the interest of the Company."

Certified True Copy

For, Khavda-Bhuj Transmission Limited

RITESH

KUMAR

VARMA

Ritesh Kumar Varma

Director

DIN: 09183319

Digitally signed by
RITESH KUMAR
VARMA
Date: 2025.02.25
15:09:57 +05'30'



KHAVDA-BHUJ TRANSMISSION LIMITED
Adani Corporate House
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www.adanienergysolutions.com

Registered Office: C-105, Anand Niketan, New Delhi - 110 021

PRASHANT KUMAR

Digitally signed by
PRASHANT
KUMAR
Date: 2025.10.18
11:19:31 +05'30'