

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

PETITION NO. _____ OF 2024

IN THE MATTER OF:

Warora Kurnool Transmission Limited

...PETITIONER

VERSUS

Tamil Nadu Generation and Distribution Corporation Limited and Ors.

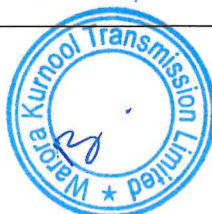
...RESPONDENTS

INDEX

SR.NO.	PARTICULAR	PAGE NO.
1.	Memo of Parties	1-4
2.	Affidavit on Behalf of the Petitioner	5-6
3.	Petition for determination of capital cost and transmission tariff pertaining to FY 2024-25 to FY 2028-29 for 80 MVAR reactor at 765 kV Warangal New Substation along with affidavit.	7-25
4.	<u>Annexure – 1</u> CTUIL Office Memorandum dated 16.11.2021	26-32
5.	<u>Annexure – 2</u> MoP office order dated 28.10.2021 regarding Re-constitution of the "National Committee on	33-35



SR.NO.	PARTICULAR	PAGE NO.
	Transmission" (NCT)	
6.	<u>Annexure – 3</u> Licence Order in Petition no. 145/TL/2022 dated 13 th September, 2022	36-46
7.	<u>Annexure – 4</u> Certificate of Approval for Energization issued by Deputy Director & Electrical Inspector to the Govt. of India dated 19.06.2024	47-48
8.	<u>Annexure – 5</u> Declaration of Commercial Operation Date of 80 MVAR reactor at Warangal New Substation	49-54
9.	<u>Annexure – 6</u> Investment Approval by the Board of Directors	55
10.	<u>Annexure-7</u> Copy of enquiries floated to various vendors	56-59
11.	<u>Annexure – 8</u> WKTL letter dated 10.03.2022 seeking clarification from CTUIL	60 -
12.	<u>Annexure – 9</u> WKTL letter dated 29.03.2022 seeking clarification from CTUIL	61
13.	<u>Annexure – 10</u>	



SR.NO.	PARTICULAR	PAGE NO.
	CTUIL clarification letter dated 05.04.2022	62
14.	<u>Annexure-11</u> CEA Standard Specifications and technical Parameters for Transformers and Reactors (66 kV & above voltage class) dated 29.04.2021	63 - 80
15.	<u>Annexure – 12</u> Certificate of Auditor with respect to capital cost for 80 MVAR reactor	81 - 83
16.	<u>Annexure – 13</u> The Tariff Filing Formats along with checklist of the other relevant information and supporting documentation	84 - 140


Petitioner


Place: Ahmedabad

Date: 04.09.2024

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

PETITION NO. _____ OF 2024

IN THE MATTER OF:

Approval under Section 79 of Electricity Act, 2003 and Regulation 23 of the CERC (Conduct of Business) Regulations, 2023 based on of CERC (Terms and Conditions of Tariff) Regulations, 2024 for determination of capital cost and transmission tariff pertaining to FY 2024-25 to FY 2028-29 for One spare unit (1-Ph) 80 MVAR reactor at 765 kV Warangal New Substation Transmission system constructed, maintained and operated by Warora Kurnool Transmission Limited vide Licence No. 79/Transmission/2022/CERC

AND

IN THE MATTER OF:

Warora Kurnool Transmission Limited

.....PETITIONER

VERSUS

Tamil Nadu Generation and Distribution Corporation Limited and Ors.

.....RESPONDENTS

MEMO OF PARTIES

Warora Kurnool Transmission Limited

C 105, Anand Niketan,



New Delhi, 110021

.....PETITIONER

Versus

1. Tamil Nadu Generation and Distribution Corporation Limited,
144, Anna Salai, Chennai-600 002
2. Southern Distribution Company of Andhra Pradesh Limited,
D.No. 19-13-65/A, Srinivasapuram,
Tiruchhanur Road,
Kesavayana Gunta,
Tirupati - 517 503, Andhra Pradesh.
3. Eastern Distribution Company of Andhra Pradesh Limited,
P&T Colony, Seethmmadhara,
Vishakhapatnam - 530013, Andhra Pradesh.
4. Southern Distribution Company of Telangana Limited,
2nd Floor, H. No. 6-1-50, Mint Compound,
Hyderabad – 500 063.
5. Northern Power Distribution Company of Telangana Limited,
H. No. 2-5-31/2, Corporate Office Vidyut Bhavan,
Hanamkonda,
Warangal – 506.001.
6. Bangalore Electricity Supply Company Limited,
Krishna Rajendra Circle,
Bangalore – 560 001.



7. Gulbarga Electricity Supply Company Limited,
Station Road, Kalaburagi,
Karnataka – 585.102.
8. Hubli Electricity Supply Company Limited,
Corporate Office, P.B. Road, Navanagar,
Hubli – 580 025.
9. Mangalore Electricity Supply Company Limited,
Paradigm Plaza, A. B Shetty Circle,
Pandeshwar, Mangalore – 575 001.
10. Chamundeshwari Electricity Supply Company Limited,
No. 29, CESC Corporate Office, Hinkal,
Vijaynagar 2nd Stage,
Mysuru – 570 017.
11. Kerala State Electricity Supply Company Limited,
Vydyuthi Bhawanam, Pettom,
Tiruvananthapuram,
Kerala - 695 004.
12. Electricity Department,
Govt. of Puducherry 137, NSC Bose Salai,
Puducherry-605 001.
13. Electricity Department, Government of Goa,
Vidyut Bhavan, Near Mandvi Hotel,
Panaji, Goa-403 001.



14. Central Transmission Utility of Indian Limited,
Saudamini, Plot No. 2, Sector 29,
Gurgaon-122 001.

.....RESPONDENTS



Place: Ahmedabad

Date: 04.09.2024

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

S. No....6892.../2024

PETITION NO. _____ OF 2024

VIJAY C. SHAH
NOTARY
GOVT. OF INDIA

- 4 SEP 2024

IN THE MATTER OF:

Approval under Section 79 of Electricity Act, 2003 and Regulation 23 of the CERC (Conduct of Business) Regulations, 2023 based on of CERC (Terms and Conditions of Tariff) Regulations, 2024 for determination of capital cost and transmission tariff pertaining to FY 2024-25 to FY 2028-29 for One spare unit (1-Ph) 80 MVAR reactor at 765 kV Warangal New Substation Transmission system constructed, maintained and operated by Warora Kurnool Transmission Limited vide Licence No. 79/Transmission/2022/CERC

AND

IN THE MATTER OF:

Warora Kurnool Transmission Limited

.....PETITIONER

VERSUS

Tamil Nadu Generation and Distribution Corporation Limited and Ors.

.....RESPONDENTS


AFFIDAVIT

I, **Bhavesh Kundalia**, son of **Sh Pradyumna Kundalia**, aged about 61 years, R/o **A63, Lav Kush Towers, Thaltej, Ahmedabad** do hereby solemnly affirm and state on oath as under:



1. That I am the Authorised Representative, of the Petitioner, Warora Kurnool 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 Warora Kurnool 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

Bhavesh Kundalia
DEPONENT



VERIFICATION

I, **Bhavesh Kundalia**, 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 4th September, 2024, at Ahmedabad

Bhavesh Kundalia
DEPONENT




SOLEMNLY AFFIRMED
 BEFORE ME
 21/9
VIJAY C. SHAH
 NOTARY
 GOVT. OF INDIA
 - 4 SEP 2024

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

PETITION NO. _____ OF 2024

IN THE MATTER OF:

Approval under Section 79 of Electricity Act, 2003 and Regulation 23 of the CERC (Conduct of Business) Regulations, 2023 based on of CERC (Terms and Conditions of Tariff) Regulations, 2024 for determination of capital cost and transmission tariff pertaining to FY 2024-25 to FY 2028-29 for One spare unit (1-Ph) 80 MVAR reactor at 765 kV Warangal New Substation Transmission system constructed, maintained and operated by Warora Kurnool Transmission Limited vide Licence No. 79/Transmission/2022/CERC

AND

IN THE MATTER OF:

Warora Kurnool Transmission Limited

.....PETITIONER

VERSUS

Tamil Nadu Generation and Distribution Corporation Limited and Ors.

.....RESPONDENTS

**PETITION FOR DETERMINATION OF CAPITAL COST AND TARIFF
FOR THE PERIOD FROM 12-JUNE-2024 TO 31-MARCH-2029**

MOST RESPECTFULLY SHEWETH:

1. Warora Kurnool Transmission Limited (hereinafter referred to as 'WKTL' /



'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 Tamil Nadu Generation and Distribution Corporation Limited, which is an electrical power generation and distribution public sector undertaking that is owned by the Government of Tamil Nadu.
3. The Respondent No. 2, Southern Power Distribution Company Limited is the Electricity Distribution company, incorporated under the Companies Act, 1956 as a Public Limited Company owned by the Government of Andhra Pradesh for the Eight Southern Districts of Andhra Pradesh.
4. The Respondent No. 3, Andhra Pradesh Eastern Power Distribution Company Limited is the Electricity Distribution company owned by the Government of Andhra Pradesh for the Five Districts of Andhra Pradesh.
5. The Respondent No. 4, Southern Power Distribution Company of Telangana is the Electricity Distribution company owned by the government of Telangana for the five southern districts of Telangana.
6. The Respondent No. 5, the Northern Power Distribution Company of Telangana Limited ("TSNPDCL") was incorporated under the Companies Act, 1956 as a Public Limited Company with headquarters at Warangal to carryout electricity distribution business as part of the unbundling of erstwhile AP State Electricity Board.
7. The Respondent No. 6, Bangalore Electricity Supply Company Limited, is a distribution licensee under the Electricity Act and is responsible for Power distribution in Eight districts of Karnataka (Bangalore Urban, Bangalore Rural, Chikkaballapura, Kolar, Davanagere, Tumkur, Chitradurga and Ramanagara).



8. The Respondent No. 7, Gulbarga Electricity Supply Company ("GESCOM") is a Karnataka state government undertaking which supplies electricity to Gulbarga, Bidar, Yaadagiri, Raichur, Koppal and Ballary.
9. The Respondent No. 8, Hubli Electricity Supply Company Limited ("HESCOM"), is a power distribution company in the state of Karnataka serving seven of its districts.
10. The Respondent No. 10, Chamundeshwari Electricity Supply Corporation Limited ("CESCOM"), is a distribution company in the state of Karnataka supplying power to five districts in the state.
11. The Respondent No. 11, Kerala State Electricity Board, is an electricity distribution company in the State of Kerala.
12. The Respondent No. 12, Electricity Department of Government of Puducherry, a deemed licensee under Section 14 of Electricity Act, and carries on the business of Transmission, Distribution and retail supply of Electricity in Puducherry, Karaikal, Yanam and Mahe Regions of the Union Territory of Puducherry.
13. The Respondent No. 13, the Electricity Department of Goa is the licensee in the state of Goa undertaking transmission and distribution of electricity.
14. The Respondent No. 14, 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.
15. The Petitioner is filing the present petition seeking approval under Section 79 of Electricity Act, 2003 and Regulation 23 of the CERC (Conduct of Business) Regulations, 2023 based on CERC (Terms and Conditions of Tariff) Regulations, 2024 for determination of capital cost and transmission tariff for the period from 12-June-2024 to 31-March-2029.



16. It is stated that WKTL implemented transmission system consisting of (i) Establishment of 765/400kV substations at Warangal (New) with 2x1500 MVA transformers and 2x240 MVAR bus reactors (ii) Warora Pool-Warangal (New) 765 kV D/c line with 240 MVAR switchable line reactor at both ends (iii) Warangal (New) – Hyderabad 765 kV D/c line with 240 MVAR switchable line reactor at Warangal end (iv) Warangal (New) – Warangal (existing) 400 kV (quad) D/c line (v) Hyderabad- Kurnool 765 kV D/c line with 240 MVAR switchable line reactor at Kurnool end (vi) Warangal (New)-Chilakaluripeta 765 kV D/c line with 240 MVAR switchable line reactor at both ends (vii) 240 MVAR switchable line Reactors at Warora Pool end in each circuit of Warora Pool- Rajnandgaon 765 kV D/C line with NGR (700 Ohms) under Tariff Based Competitive Bidding mode. The Hon'ble Commission had granted a Transmission Licence No. 44/ Transmission/ 2016/ CERC dated 29.09.2016 for the transmission system implemented by WKTL.
17. The Petitioner submits that during the 7th Meeting of the National Committee on Transmission (NCT) held on 03.12.2021, NCT recommended the installation of One spare unit (1-Ph) 80 MVAR Reactor at 765 kV Warangal New Substation under compressed time schedule through regulated tariff mechanism (RTM).
18. In light of above decision by NCT, Central Transmission Utility, vide Office Memorandum No. C/CTU/AI/00/1st CCTP dated 16.11.2021 notified implementation of One spare unit (1-Ph) 80 MVAR reactor at 765 kV Warangal New Substation on Regulated Tariff Mechanism (RTM) to Warora Kurnool Transmission Limited while referring to the MoP office order dated 28.10.2021. The MoP office order dated 28.10.2021 was issued with reference to the Re-constitution of the National Committee on Transmission (NCT). The Same also specified the Terms of Reference of



the NCT as under:

*“viii. The NCT shall recommend to Ministry of Power (MoP) for implementation of the ISTS for projects with cost more than Rs 500 crore, along with their mode of implementation i.e. Tariff Based Competitive Bidding (TBCB) / Regulated Tariff Mechanism (RTM), as per the existing Tariff Policy. However, the NCT shall approve the ISTS costing between Rs 100 crore to Rs.500 crore or such limit as prescribed by MoP from time to time, along with their mode of implementation under intimation to MoP. **The ISTS costing less than or equal to Rs. 100 crores, or such limit as prescribed by MoP from time to time, will be approved by the CTU along with their mode of implementation under intimation to the NCT and MoP. After approval of the ISTS by the NCT or the CTU (as the case may be), the TBCB project shall be allocated to Bid Process Coordinators through Gazette Notification, while the RTM project shall be allocated to CTU.**”*

The copies of CTU Office Memorandum dated 16.11.2021 and MoP office order 28.10.2021 are enclosed as **Annexure - 1** and **Annexure – 2** respectively.

The Scope of the Project is as follows:

SN	Scope of the Transmission Scheme	Capacity	Implementation timeframe
1	One spare unit (1-Ph) of 80 MVAR reactor at 765 kV Warangal New along with necessary arrangement to take spare reactor units into service as per the operational requirement.	80 MVAR (1-Ph)	15 months from issue of OM by CTU

19. Accordingly, the Petitioner approached this Hon'ble Commission vide Petition No. 145/TL/2022 for separate transmission licence for 80 MVAR Reactor at 765 kV Warangal New Substation. This Hon'ble Commission, vide order dated 13.09.2022 in Petition No. 145/TL/2022, granted the fresh



transmission license to the Petitioner with License No. 79/Transmission/2022/CERC. The copy of this Hon'ble Commission's grant of transmission license order in Petition No. 145/TL/2022 is attached as **Annexure-3**.

20. The Schedule CoD of the Project was 15 months from the issuance of Office Memorandum (OM) by CTUIL. CTUIL issued OM for the project work on 16.11.2021 and therefore, the SCoD of the Project is 16.02.2022. The Petitioner has completed the scope of work of 80 MVAR Reactor at 765 kV Warangal New Substation and Deputy Director 8- Electrical Inspector to the Govt. of India has issued approval for energization of electrical installations of 80 MVAR reactor of M/s Warora-Kurnool Transmission Ltd, upon their inspection on 11.06.2024 at 765 kV Warangal New Substation, Jangaon, Telangana under regulation 45 of CEA (Measures relating to Safety and Electrical supply) Regulations, 2023. A copy of certificate of approval for energization issued by Deputy Director 8- Electrical Inspector to the Govt. of India dated 19.06.2024 is marked and attached as **Annexure-4**. Accordingly, the Petitioner has declared Commercial Operational Date of 80 MVAR Reactor at 765 kV Warangal New Substation w.e.f. 00:00 Hrs 12.06.2024. A copy of the aforesaid letter of the Petitioner dated 22.06.2022 declaring COD of 80 MVAR Reactor at 765 kV Warangal New Substation is annexed herewith and marked as **Annexure-5**.
21. 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.

Capital Cost of 80 MVAR Reactor at 765 kV Warangal New Substation



22. The National Committee on Transmission (NCT) during 7th meeting held on 03.12.2021, recommended installation of 80 MVAR Reactor at 765 kV Warangal New Substation under compressed time schedule through regulated tariff mechanism (RTM).
23. CEA proposed during 7th Meeting of National Committee on Transmission (NCT) for corrigendum in the 2nd minutes of meeting of NCT. Hence, following corrigendum was approved vide Minutes of 7th Meeting of National Committee on transmission (NCT) held on 03.12.2021:

“9.4. TANTRANSCO informed that data of the number spare reactors available in Southern Region may be collected from PGCIL and the spare reactors at other substation may be utilized in case of requirement. TANTRANSCO suggested to have limited number of spare reactors for the Southern region of having one spare at each substation to reduce the cost burden.

9.5. After deliberations, members agreed to the proposal of providing one spare unit (1-ph) of 80 MVAR reactor at each 765 kV Warangal New and Chilkaluripeta TBCB substations along with necessary arrangement to take spare reactor units into service as per requirement.”

24. The investment approval of competent authority as defined in CERC (Terms and Conditions of Tariff) Regulation, 2024 is attached as **Annexure-6**. Accordingly, WKTL has carried out necessary activities for installation of 80 MVAR Reactor at 765 kV Warangal New Substation. List of the activities carried out by WKTL are as under:

Sr. No.	Particular	Timeline
1	Project work allocated to WKTL on RTM basis	16 November 2021
2	Schedule Commercial Operation Date (SCOD) of the Project	16 February 2022
3	Purchase Orders	April 2023
4	Supply Orders	April 2023



Sr. No.	Particular	Timeline
5	Received Purchased Material	February 2024
6	Completion of Civil Work	July 2023
7	Completion of Erection Work	May 2024
8	Application for energisation of equipment to CEA	May 2024
9	Inspection by Deputy Director & Electrical Inspector	11 June 2024
10	CEA approval for energisation	19 June 2024
11	Commercial Operation Date of 80 MVAR reactor	12 June 2024 (00:00 Hrs.)

25. It is submitted that the Petitioner approached CTUIL for clarification of Spare reactor in the month of December 2021 as there was no clarity regarding spare reactor is envisaged for bus reactor or line reactor and whether spare unit is envisaged as cold spare or hot spare with online switching scheme. In the meantime, the Petitioner floated enquires for procurement of 80 MVAR reactor to GE, Hitachi, Siemens and Transformers & Rectifiers Pvt Ltd in February 2022. A copy of enquiries floated to various vendors are attached as **Annexure-7**. However, the Petitioner received offer from one EPC contractor only. The Petitioner again approached CTUIL vide its letter dated 10.03.2022 seeking clarification on above mentioned issues. The copy of letter dated 10.03.2022 is attached as **Annexure-8**.
26. The Petitioner once again followed up with CTUIL on 29.03.2024 seeking following clarification:
- Spare reactor connection through the isolator switching scheme is not feasible due to the insufficient space and clearance for erecting the auxiliary buses, neutral bus and isolators in the layout as this has not been requirement in the RFP.
 - Spare reactor connection through manual jumpering involves human



intervention so there are chances of mis-operation due to human errors/ equipment damage due to wrong selections while switching manually as bypass isolator is not feasible.

- Hot spare reactor connection also required the complete modification in the existing control and relay panels for the integration of the spare reactor switching which is not feasible.

A copy of letter dated 29.03.2022 is attached as **Annexure-9**.

27. CTUIL vide its letter dated 05.04.2022 clarified as under:

- The 80 MVAR (1-Ph) spare reactor unit has been planned for utilisation for bus reactor and line reactor, as per the operational requirements.
- Due to space constraints, the spare reactor may be considered as cold spare.

A copy of letter dated 05.04.2022 is attached as **Annexure-10**.

28. In view of above, scope of work for the project was clarified by CTUIL only in the month of April-2022. Meanwhile, CEA, vide letter dated 29.04.2021, notified Standard Specifications and technical Parameters for Transformers and Reactors (66 kV & above voltage class). Same provided specifications for 80 MVAR reactor as under:

“

<i>SN</i>	<i>Description</i>	<i>Unit</i>	<i>Technical Parameter</i>	
28.	<i>Maximum Permissible Losses of Reactor</i>		80 MVar	110 MVar
i)	<i>Max. Total loss at rated current and frequency and at 75°C</i>	<i>kW</i>	98	120
ii)	<i>Max. I²R Loss at rated current and frequency and at</i>	<i>kW</i>	52	60



<i>SN</i>	<i>Description</i>	<i>Unit</i>	<i>Technical Parameter</i>	
	75°C			

....”

The relevant extract of CEA Standard Specifications and technical Parameters for Transformers and Reactors (66 kV & above voltage class) dated 29.04.2021 is attached as **Anneuxre-11**.

29. It is to be noted that there was no specification for Maximum permissible Losses of Reactors prior to CEA notification dated 29.04.2021. Therefore, already installed reactors at Warangal Substation had specifications of Maximum total losses at rated current and frequency and at 75 °C were at the level of 170 kW. All the bus/line reactors installed at the Warangal Substation were of old configuration i.e. loss level of 170 kW. The Petitioner was required to make appropriate arrangements at the site as per detailed engineering due to change in technical specification of the 80 MVAR Reactor as per CEA notification dated 29.04.2021. Meanwhile, the Petitioner was in discussion with the CEA to continue with old specification for 80 MVAR reactor which will help in smooth integration of spare reactor with the reactors already installed at Warangal S/s as and when required. Finally, in November 2022, CEA gave its consent to install the 80 MVAR spare reactor with old technical specification i.e. Maximum total losses at rated current and frequency and at 75 °C at the level of 170 kW. Accordingly, the final offer from the EPC contractor received on 17.01.2023 based on old specification and accordingly, the Purchase Order and Supply Orders were released to the contractor on 22.04.2023.
30. The above situation delayed in achieving the overall timeline for completion of construction of the project and accordingly, commissioning of the project got delayed substantially.



31. The Petitioner completed its scope of work i.e. acquiring supply of material in February 2024 and completing erection activities in May 2024. Thereafter, the Petitioner applied for energisation of equipment to CEA in the month of May 2024 itself. The inspection was carried out by Deputy Director & Electrical Inspector to GoI on 11.06.2024 and thereafter CEA issued energisation certificate on 19.06.2024. The Petitioner declared the CoD of the project as 12.06.2024 i.e. 24 hours from the inspection by Deputy Director & Electrical Inspector.
32. Accordingly, the Petitioner has incurred cost of Rs. 804.85 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	16.05	37.19	53.24
2	Substation Equipment - Compensating Equipment	572.71	117.74	690.45
3	Pre-Ops – Site Supervision Charges	35.12	-	35.12
4	IDC, FERV & Hedging Cost	26.04	-	26.04
5	Total Cost	649.92	154.93	804.85

33. Auditor Certificate indicating Capital Cost is attached as **Annexure-12**.

Tariff determination for the tariff period 2024-29 (from 12.06.2024 to 31.03.2029)



34. The Tariff of 80 MVAR 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

35. The Petitioner has already incurred capital cost of Rs. 804.85 Lakh as part of project and out of which Rs. 154.93 Lakh is undischarged liability on the date of commissioning. Undischarged liability of Rs. 154.93 Lakh is proposed to be paid in FY 2024-25. Accordingly, the Petitioner has claimed Rs. 154.93 Lakh as Additional Capitalisation for FY 2024-25.

Depreciation

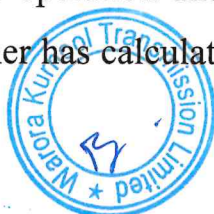
36. The Petitioner has calculated the depreciation charges for FY 2024-25 to FY 2028-29 as prescribed in the Regulations 33 of CERC (Terms & Conditions of Tariff) Regulations, 2024.

Interest on Loan

37. Interest on loan is calculated for FY 2024-25 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 2024-25 to FY 2028-29. The repayment is considered equal to the depreciation for the year.

O&M Expenses

38. The Normative O&M Expenses for the control period from FY 2024-25 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 capacity of the Reactor (in MVAR) with the applicable norms for the operation and maintenance expenses per MVAR. Accordingly, the Petitioner has calculated the normative O&M expense for



80 MVAR Reactor.

39. As the Petitioner has capitalised 80 MVAR Reactor and hence there is no transmission line as well as bays. Accordingly, the Petitioner has claimed Nil normative O&M expenses for transmission line for FY 2024-25 to FY 2028-29.
40. 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.
41. 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 communication system but will claim as actual at the time of Truing-up.
42. 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 2024-25 to FY 2028-29.

Return on Equity

43. 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 2024-25 to FY 2028-29 which results into RoE of 20.04% for the entire control period of FY 2024-25 to FY 2028-29 as per Regulation 30 & 31 of CERC (Terms & Conditions of Tariff) Regulation,



2024.

Interest on Working Capital

44. The Working capital is calculated for FY 2024-25 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

45. The Reference rate of interest as on 01.04.2024 (one year marginal cost of funds based lending rate (MCLR) of SBI plus 325 basis points) as defined in Regulation 3 (66) of CERC (Terms & Conditions of Tariff) Regulations, 2024 is considered as 11.90 % as the rate of interest for working capital as per Regulation 34(d)(3) of CERC (Terms & Conditions of Tariff) Regulations, 2024 for FY 2024-25 to FY 2028-29.

Annual Transmission Charges

46. 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	24.64	33.96	33.96	33.96	33.96
Interest on	38.69	50.61	47.32	44.02	40.73



Particulars	FY 2024- 25	FY 2025- 26	FY 2026- 27	FY 2027- 28	FY 2028- 29
Loan					
Return on Equity	35.11	48.40	48.40	48.40	48.40
Interest on Working Capital	2.22	2.96	2.96	2.96	2.97
O&M Expenses	17.41	22.80	23.92	25.12	26.48
Total	118.06	158.74	156.57	154.47	152.55

47. The Tariff Filing Formats along with other relevant information are annexed herewith and marked as **Annexure 13**.

GST

48. 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 changed, 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

49. 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.
50. 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 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

51. 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.

52. Further, since the reactors are installed in TBCB assets of the Petitioner the Availability shall be considered along with the TBCB asset of the Petitioner.
53. 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.
54. 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 allowed to be charged from the Respondents on the basis set out above.
55. 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.

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.
- 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 reactors 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 and
- h) 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.

For, Warora Kurnool Transmission Limited

Place: Ahmedabad

Date: 04.09.2024


(Authorised Signatory)



सेंट्रल ट्रांसमिशन यूटिलिटी ऑफ इंडिया लिमिटेड
CENTRAL TRANSMISSION UTILITY OF INDIA LIMITED
 (Wholly Owned Subsidiary of Power Grid Corporation of India Limited)
 (A Government of India Enterprise)

Ref.: C/CTU/AI/00/1st CCTP16th November 2021**OFFICE MEMORANDUM**

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

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

Sl.	Name of scheme	Implementin enc
Northern Re ion		
1.	Implementation of 220 kV bays for RE generators and 400/220kV ICTs at Bikaner-II PS	Bikaner-II Bhiwadi Transco Ltd. (a subsidiary of Power Grid Corporation of India Ltd.) [now known as POWERGRID Bikaner Transmission System Ltd.]
2.	Augmentation of transformation capacity at 400/220 kV Ludhiana (PG) Substation	Power Grid Corporation of India Ltd.
3.	Augmentation of Transformation capacity at 400/220 kV Kurukshetra (PG) & Patiala (PG) Substations	Power Grid Corporation of India Ltd.
Southern Re ion		
4.	Requirement of 765 kV spare (1-Ph) Reactors unit at 765kV Warangal New Part-A	Warora Kurnool Transmission Ltd. (a subsidiary of Adani Transmission Ltd.)
5.	Requirement of 765 kV spare (1-Ph) Reactors unit at 765kV Chilkaluripeta (Part-B)	POWERGRID Southern Interconnector Transmission System Ltd. (a subsidiary of Power Grid Corporation of India Ltd.)
6.	Scheme to bypass NGR to use Switchable Line Reactor as Bus Reactor at 765kV Chilkaluripeta	POWERGRID Southern Interconnector Transmission System Ltd. (a subsidiary of Power Grid Corporation of India Ltd.)
7.	1 no. 400 kV bay at 765/400 kV Kurnool (New) Substation	Power Grid Corporation of India Ltd.
Eastern Re ion		
8.	Eastern Region Expansion Scheme-XXVI ERES-XXVI	Power Grid Corporation of India Ltd.
North Eastern Region		
9.	Additional scope under NERSS-XIII scheme	Power Grid Corporation of India Ltd.



Western Region		
10.	Transmission Network Expansion in Gujarat to increase its ATC from ISTS (Part-A)	Power Grid Corporation of India Ltd.

Detailed scope of works for the above schemes, as approved by CTU are given at **Annexure-I**.

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

This issues with the approval of Competent Authority.



(Partha Sarathi Das)
Sr. General Manager

Encl: as stated.



To:

1. Director (Projects) Power Grid Corporation of India Ltd., Saudamini, Plot No. 2, Sector-29, Gurgaon- 122 001	2. CEO M/s POWERGRID Southern Interconnector Transmission Ltd. (PSITL) (a subsidiary of Power Grid Corporation of India Ltd.) B-9, Qutub Institutional Area, Katwaria Sarai, New Delhi – 110016
3. Shri Ajit Ranjan N R Das Project Incharge M/s Bikaner-II Bhiwadi Transco Ltd. (BBTL) (a subsidiary of Power Grid Corporation of India Ltd.) [POWERGRID Bikaner Transmission System Limited] C/o ED (TBCB) Power Grid Corporation of India Ltd. Saudamini, Plot No. 2, Sector-29, Gurgaon- 122 001	4. Shri Ankesh Kumar M/s Warora Kurnool Transmission Ltd. (WKTL) (a subsidiary of Adani Transmission Ltd.) Adani Corporate House, Shantigram, S.G. Highway, Ahmedabad -382421

Copy to:

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



Annexure-I**Northern Region:****1. Implementation of 220 kV bays for RE generators and 400/220kV ICTs at Bikaner-II PS**

S. No.	Scope of the Transmission Scheme	Capacity	Implementation timeframe
1.	2x500MVA, 400/220 kV ICT at Bikaner-II PS	400/220 kV, 500 MVA ICT – 2 nos. 400 kV ICT bays – 2 nos. 220 kV ICT bays – 2 nos.	ICT-I: Mar' 2023 ICT-II: Apr' 2023
2.	4 nos. 220 kV line bays	220 kV line bays - 4 nos.	1 no. of bay: Mar' 2023 1 no. of bay: Apr' 2023 2 no. of bays: Dec' 2023
Total Estimated Cost:		70 Cr.	

2. Augmentation of transformation capacity at 400/220 kV Ludhiana (PG) Substation:

S. No.	Scope of the Transmission Scheme	Capacity	Implementation timeframe
1	Replacement of 1x315 MVA, 400/220 kV ICT by 1x500 MVA, 400/220kV ICT at Ludhiana (PG) S/s	400/220 kV, 500 MVA ICT – 1 no.	15 months from issue of OM by CTU
Total Estimated Cost		14 Cr.	

3. Augmentation of Transformation capacity at 400/220 kV Kurukshetra (PG) & Patiala (PG) Substations:

S. No.	Scope of the Transmission Scheme	Capacity	Implementation timeframe
1	1x 500 MVA, 400/220 kV ICT at Kurukshetra (PG) S/s	400/220kV 500 MVA ICT:1 no 400 kV ICT bay – 1 no. 220 kV ICT bay – 1 no.	15 months from issue of OM by CTU
2	1x 500 MVA, 400/220 kV ICT at Patiala (PG) S/s	400/220kV 500 MVA ICT:1 no 400 kV ICT bay – 1 no. 220 kV ICT bay – 1 no.	May'23
Total Estimated Cost		54 Cr.	



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

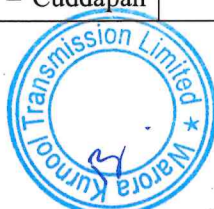
SI. No	Scope of the Transmission Scheme	Capacity	Implementation timeframe
Part-A	One spare unit (1-Ph) of 80 MVAR reactor at 765 kV Warangal New along with necessary arrangement to take spare reactor units into service as per the operational requirement.	80 MVAR (1-Ph)	15 months from issue of OM by CTU
	Estimated Cost (Rs Crores)	5.5 Cr.	

5. Requirement of 765 kV spare (1-Ph) Reactors units at 765kV Chilkaluripeta (Part-B):

SI. No	Scope of the Transmission Scheme	Capacity	Implementation timeframe
Part-B	One spare unit (1-Ph) of 80 MVAR reactor at 765 kV Chilkaluripeta along with necessary arrangement to take spare reactor units into service as per the operational requirement.	80 MVAR (1-Ph)	15 months from issue of OM by CTU
	Estimated Cost (Rs Crores)	5.5 Cr.	

6. Scheme to bypass NGR to use Switchable Line Reactor as Bus Reactor at 765kV Chilkaluripeta

SI. No	Scope of the Transmission Scheme	Capacity	Implementation timeframe
1	NGR bypass arrangement to use switchable line reactors (240 MVAR each) as bus reactors installed on each circuit of Vemagiri – Chilkaluripeta 765 kV D/c line at Chilkaluripeta 765 kV S/s	NGR bypass arrangement	6 months from issue of OM by CTU
2	NGR bypass arrangement to use switchable line reactors (240 MVAR each) as bus reactors installed on each circuit of Chilkaluripeta – Cuddapah	NGR bypass arrangement	6 months from issue of OM by CTU



	765 kV D/c line at Chilkaluripeta 765 kV S/s..		
	Total Estimated Cost (Rs Lakhs)	32 Lakhs (approx.)	

7. 1 no. 400 kV bay at 765/400 kV Kurnool (New) Substation

Sl. No	Scope of the Transmission Scheme	Capacity /km	Implementation timeframe
1	1 no. of 400 kV bay at 765/400 kV Kurnool (New)	400kV line bay-1 no	Oct'22
	Total Estimated Cost (Rs Crores)	9 Cr.	

Eastern Region

8. Eastern Region Expansion Scheme-XXVI (ERES-XXVI):

Sl. No.	Scope of the Transmission Scheme	Capacity /km	Implementation timeframe
1.	Installation of 500 MVA, 400/220kV ICT (3 rd) at Ranchi (PG)	400/220 kV, 500 MVA ICT- 1 no. 400 kV ICT bays- 1 nos. 220 kV ICT bays- 1 nos.	15 months from issue of OM by CTU
	Total Estimated Cost (Rs. Crore)	27 Cr.	

North Eastern Region

9. Additional scope under NERSS-XIII scheme

Sl. No.	Scope of the Transmission Scheme	Capacity /km	Implementation timeframe
1.	CT of 132kV Imphal (POWERGRID) – Imphal (Manipur) bay-2 to be upgraded to 1200 A at Imphal (POWERGRID) S/s	NIL	In matching timeframe to SCOD of NERSS-XIII, i.e. Sep'2022
	Total Estimated Cost (Rs. Lakhs)	10 lakhs (approx.)	



Western Region**10. Transmission Network Expansion in Gujarat to increase its ATC from ISTS (Part-A)**

Sl. No.	Scope of the Transmission Scheme	Capacity /km	Implementation timeframe
1.	Augmentation of transformation capacity at Vadodara 765/400/220kV S/s by 1x1500MVA, 765/400kV ICT (3rd) along with associated 765kV ICT bay*	765/4000 kV, 1500 MVA ICT- 1 no. 765 kV ICT bays- 1 nos.	Apr'22
	Total Estimated Cost (Rs. Crore)	70 Cr. (approx.)	

**Out of the 2 nos. 400kV line bays already constructed by POWERGRID for DGEN – Vadodara line, 1no. line bay to be utilized for 765/400kV ICT (3rd) at Vadodara*



No.15/3/2018-Trans-Pt(5)
Government of India
Ministry of Power
Shram Shakti Bhawan, Rafi Marg, New Delhi

Dated, the 28th October 2021

OFFICE ORDER

Subject: - Re-constitution of the "National Committee on Transmission" (NCT) - reg.

In super-session of this Ministry's Office Order No. 15/3/2017-Trans dated 04.11.2019, regarding constitution of the National Committee on Transmission (NCT) and subsequent amendment issued vide this Ministry's Office Order No. 15/3/2018-Trans Pt(5) dated 20.05.2021, the undersigned is directed to state that the composition and terms of reference of the existing NCT are amended as mentioned below:

1. Composition of NCT

1	Chairperson, Central Electricity Authority (CEA)	Chairman
2	Member(Power System), CEA	Member
3	Member(Economic & Commercial), CEA	Member
4	Joint Secretary level officer nominated by Secretary, MNRE	Member
5	Director(Trans), M/o Power, Govt. of India	Member
6	Chief Operating Officer, Central Transmission Utility	Member
7	CMD POSOCO	Member
8	Advisor(Energy) , NITI Aayog	Member
9	Two experts from Power Sector to be nominated by MoP*	Members
10	Chief Engineer (from Power System Wing), CEA	Member Secretary

* Will be nominated for a maximum period of two years from the date of their nomination.

2. Terms of Reference (ToR) of the NCT are as under:

- The NCT shall evaluate the functioning of the National Grid on a quarterly basis.
- The Central Transmission Utility (CTU), as mandated under the Electricity Act, 2003, is to carry out periodic assessment of transmission requirement under Inter-State Transmission System (ISTS). The CTU shall also make a comprehensive presentation before the NCT every quarter for ensuring development of an efficient, co-ordinated and economical ISTS for smooth flow of electricity. The CTU, in the process, may also take inputs from the markets to identify constraints and congestion in the transmission system.



Gordon
28/10/2021

- iii. The CTU after consulting Regional Power Committee(s) [RPC(s)] shall submit the proposal for expansion of ISTS to the NCT for their consideration. For proposal upto Rs. 500 crores, prior consultation with RPC would not be required.
 - iv. As per provision of Electricity (Planning, Development and Recovery of ISTS charges) Rules 2021, the CTU shall also prepare a five-year rolling plan for ISTS capacity addition every year. The Annual Plan shall be put up to the NCT six months in advance, e.g. The Annual Plan for FY 2023-24 will be put up before the NCT by 30th September 2022..
 - v. After considering the recommendations of the CTU and views of the RPCs, the NCT shall propose expansion of ISTS after assessing the trend of growth in demand and generation in various regions, constraints, if any, in the inter- State, inter- Region transfer of power, which are likely to arise in the near term/ medium term, so that transmission does not constrain the growth.
 - vi. The NCT shall formulate the packages for the proposed transmission schemes for their implementation.
 - vii. The NCT shall estimate the cost of transmission packages and may constitute a cost committee for this purpose.
 - viii. The NCT shall recommend to Ministry of Power (MoP) for implementation of the ISTS for projects with cost more than Rs 500 crore, along with their mode of implementation i.e. Tariff Based Competitive Bidding (TBCB) / Regulated Tariff Mechanism (RTM), as per the existing Tariff Policy. However, the NCT shall approve the ISTS costing between Rs 100 crore to Rs.500 crore or such limit as prescribed by MoP from time to time, along with their mode of implementation under intimation to MoP. The ISTS costing less than or equal to Rs. 100 crores, or such limit as prescribed by MoP from time to time, will be approved by the CTU along with their mode of implementation under intimation to the NCT and MoP. After approval of the ISTS by the NCT or the CTU (as the case may be), the TBCB project shall be allocated to Bid Process Coordinators through Gazette Notification, while the RTM project shall be allocated to CTU.
 - ix. The NCT shall allocate the task of carrying out survey amongst the CTU and Bid Process Coordinators by maintaining a roster.
3. The NCT meetings shall be held every quarter, and on monthly basis, if required.
 4. While making their recommendations,
 - i. the NCT shall keep in mind the relevant Act, Rules, Regulation, policies and guidelines such as but not limited to - Electricity Act 2003, National Electricity Policy, Tariff Policy, Electricity (Transmission System Planning, Development and Recovery of Inter-State Transmission Charges) Rules, 2021, Guidelines for Encouraging Competition in Development of Transmission Projects, Tariff based Competitive Bidding Guidelines for Transmission Service and any specific advice received from MoP.
 - ii. For enabling growth of Renewable Energy (RE) capacity, areas which have high solar/wind energy potential, as identified by Ministry of New and Renewable Energy



Quratun
28/10/2021

(MNRE), need to be connected to ISTS, so that the RE capacity can come up there. This is a national mission as a part of our energy transition goal.

5. This issues with the approval of the Hon'ble Minister of Power and New & Renewable Energy.

[Signature]
28/10/2021
(Bihari Lal)

Under Secretary to the Govt. of India
Telefax: 23325242
Email: transdesk-mop@nic.in

To

1. All Members of NCT.
2. Secretary, Ministry of New & Renewable Energy, Govt. of India.
3. Chairperson, CEA, New Delhi.
4. Secretary, CERC
5. CMDs of all CPSUs under the Ministry of Power, Govt. of India.
6. Heads of all autonomous bodies under the Ministry of Power, Govt. of India.
7. Finance/ Budget Section, Ministry of Power.
8. Power/ Energy Secretaries of all States/UTs.
9. Chief Executives of all State Power Transmission Utilities.
10. CEO, NITI Aayog, New Delhi.

Copy to:

- i. PS to Hon'ble MoP/ PS to Hon'ble MoSP/Sr PPS/ PPS/ PS to Secretary(Power)/ AS&FA/ AS(SKGR)/ AS(VKD)/ all Joint Secretaries/ Economic Advisor/ Chief Engineer(Th)/ all Directors/ Dy. Secretaries, Ministry of Power.
- ii. Technical Director, NIC, M/o Power, for publishing this order on the website of M/o Power.

[Signature]
28/10/2021



**CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI**

Petition No. 145/TL/2022

Coram:

Shri I.S. Jha, Member

Shri Arun Goyal, Member

Shri P. K. Singh, Member

Date of order: 13th September, 2022

In the matter of:

Application under Section 14 and Section 15 of the Electricity Act, 2003 read with the Central Electricity Regulatory Commission (Procedure, Terms and Conditions for Grant of Transmission License and other related matters) Regulations, 2009 for grant of separate Transmission Licence for implementation of 80 MVAR reactor at 765 kV Warangal New sub-station through the Regulated Tariff Mechanism (RTM) mode to Warora Kurnool Transmission Limited.

And

In the matter of

Warora Kurnool Transmission Limited,

C 105, Anand Niketan,

New Delhi-110021.

.... Petitioner

Versus

**1. Tamil Nadu Generation and Distribution Corporation Limited,
144, Anna Salai, Chennai-600 002.**

**2. Southern Distribution Company of Andhra Pradesh Limited,
D.No. 19-13-65/A, Srinivasapuram,
Tiruchhanur Road,
Kesavayana Gunta,
Tirupati - 517 503, Andhra Pradesh.**

**3. Eastern Distribution Company of Andhra Pradesh Limited,
P&T Colony, Seethmmadhara,
Vishakhapatnam - 530013, Andhra Pradesh.**

**4. Southern Distribution Company of Telangana Limited,
2nd Floor, H. No. 6-1-50, Mint Compound,**



Hyderabad – 500 063.

5. Northern Power Distribution Company of Telangana Limited,
H. No. 2-5-31/2, Corporate Office Vidyut Bhavan,
Hanamkonda,
Warangal – 506.001.

6. Bangalore Electricity Supply Company Limited,
Krishna Rajendra Circle,
Bangalore – 560 001.

7. Gulbarga Electricity Supply Company Limited,
Station Road, Kalaburagi,
Karnataka – 585.102.

8. Hubli Electricity Supply Company Limited,
Corporate Office, P.B. Road, Navanagar,
Hubli – 580 025.

9. Mangalore Electricity Supply Company Limited,
Paradigm Plaza, A. B Shetty Circle,
Pandeshwar, Mangalore – 575 001.

10. Chamundeshwari Electricity Supply Company Limited,
No. 29, CESC Corporate Office, Hinkal, Vijaynagar 2nd Stage,
Mysuru – 570 017.

11. Kerala State Electricity Supply Company Limited,
Vydyuthi Bhawanam, Pettom,
Tiruvananthapuram,
Kerala - 695 004.

12. Electricity Department,
Govt. of Puducherry 137, NSC Bose Salai,
Puducherry-605 001.

13. Electricity Department, Government of Goa,
Vidyut Bhavan, Near Mandvi Hotel,
Panaji, Goa-403 001.

14. Central Transmission Utility of Indian Limited,
Saudamini, Plot No. 2, Sector 29,
Gurgaon-122 001.

...Respondents



The following were present:

Shri Tanmaya Vyas, WKTL
 Shri S. Vallinayagam, Advocate, TANGEDCO
 Ms. Kajal Singhal, Advocate, TANGEDCO
 Shri R. Srinivasan, TANGEDCO
 Shri R. Kumutha, TANGEDCO
 Ms. Himanshi, CTUIL
 Ms. Priyanshi, CTUIL
 Shri Swapnil Verma, CTUIL
 Shri Siddharth Sharma, CTUIL

ORDER

The Petitioner, Warora Kurnool Transmission Limited (WKTL), has filed the present Petition under Section 14 and Section 15 of the Electricity Act, 2003 (hereinafter referred to as 'the Act') read with provisions of the Central Electricity Regulatory Commission (Terms and Conditions for grant of Transmission Licence and other related matters) Regulations, 2009 (hereinafter referred to as 'the Transmission Licence Regulations') for grant of separate transmission licence for implementation of "80 MVAR reactor at 765 kV Warangal New" on the Regulated Tariff Mechanism (RTM) mode (hereinafter referred to as the 'transmission scheme'). The scope of the project for which transmission licence has been sought is as under:

SN	Scope of the Transmission Scheme	Capacity	Implementation timeframe
1	One spare unit (1-Ph) of 80 MVAR reactor at 765 kV Warangal New along with necessary arrangement to take spare reactor units into service as per the operational requirement.	80 MVAR (1-Ph)	15 months from issue of OM by CTU



2. The Petitioner company was incorporated as a special purpose vehicle by PFC Consulting Limited (PFCCL) as part of Tariff Based Competitive Bidding ('TBCB') process for implementing the transmission system of the "Additional inter-Regional AC link for import into Southern Region i.e. Warora- Warangal and Chilakaluripeta-Hyderabad-Kurnool 765 kV Link" (hereinafter referred to as "the Project") on Build, Own, Operate and Maintain (BOOM) basis. Essel Infra participated in the competitive bidding process conducted by PFCCL and upon emerging as the successful bidder, Letter of Intent (LOI) was issued by PFCCL to Essel Infra on 29.2.2016. In accordance with the bidding documents, Essel Infra acquired 100% of the shareholding in WKTL by executing a Share Purchase Agreement with PFCCL on 6.7.2016. WKTL entered into Transmission Service Agreement (TSA) with LTTCs on 6.1.2016. The Commission in its order dated 29.9.2016 in Petition No. 111/TL/2016 granted transmission licence to WKTL for inter-State transmission of electricity to establish transmission system for "Additional inter-Regional AC link for import into Southern Region i.e. Warora-Warangal and Chilakaluripeta-Hyderabad- Kurnool 765 kV link" on Build, Own, Operate and Maintain ("BOOM") basis consisting of the following elements:

SN	Scheme/ Transmission Works	Completion Target
1.	Establishment of 765/400kV substations at Warangal (New) with 2x1500 MVA transformers and 2x240 MVAR bus reactors	40 months
2.	Warora Pool- Warangal (New) 765 kV D/c line with 240 MVAR switchable line reactor at both ends	40 months
3.	Warangal (New) – Hyderabad 765 kV D/c line with 240 MVAR switchable line reactor at Warangal end	40 months
4.	Warangal (New) – Warangal (existing) 400 kV (quad) D/c line	40 months
5.	Hyderabad- Kurnool 765 kV D/c line with 240 MVAR switchable line reactor at Kurnool end	40 months



SN	Scheme/ Transmission Works	Completion Target
6.	Warangal (New)-Chilakaluripeta 765 kV D/c line with 240 MVAR switchable line reactor at both ends	40 months
7.	240 MVA switchable line Reactors at Warora Pool end in each circuit of Warora Pool- Rajnandgaon 765 kV D/C line with NGR (700 Ohms)	Nov 2018

3. Subsequently, the lenders approached the Commission under Section 17(3) and Section 17 (4) of the Act for approval of substitution of Essel Infra with Adani Transmission Limited (ATL) for execution of the Project. The Commission after considering the submissions of the parties, vide order dated 27.1.2021 allowed the transfer of shareholding of the Petition from Essar Infra to Adani Transmission Limited.

4. The Commission after considering the application of the Petitioner in the light of the provisions of the Act and the Transmission Licence Regulations, in its order dated 2.8.2022, *prima facie* proposed to grant transmission licence to the Petitioner described in paragraph 1 of the order dated 2.8.2022. Relevant extract of order dated 2.8.2022 is extracted as under:

"18. In the present case, the Petitioner does not fulfil any of the eligibility condition for grant of transmission licence. However, in the 6th meeting of National Committee on Transmission, it was indicated that as per the revised Terms of Reference issued by Ministry of Power, Government of India, ISTS projects costing upto Rs. 100 crore or such limit as may be prescribed by Ministry of Power from time to time would be approved by CTUIL including its mode of implementation. The scheme has been identified for implementation though RTM mode by CTUIL. Non-grant of transmission licence to any agency nominated by NCT to implement a transmission system through regulated tariff mechanism in view of the provisions of Regulation 6 defeats the purpose of the Policy decision of the Government. We are of the view that considering the strategic importance of the transmission line, it is a fit case for relaxation of the provisions of Regulation 6 by invoking of the power vested under Regulation 24 of the Transmission Licence Regulations.

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



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

20. *It is an established principle of law that the power to relax has to be strictly construed and is to be exercised judiciously and with caution. Further, the power to relax is to be exercised only when undue hardship is caused by the application of the rules or regulations. In the present case, the Petitioner is a transmission licensee which is already implementing the project defined under its scope through TBCB mechanism. The present Petition is consequent to the office order 28.10.2021 notified by Ministry of Power Government of India wherein CTUIL has been authorized to determine the mode of implementation of ISTS projects less than or equal to Rs.100 crore. Pursuant to direction of Ministry of Power, CTUIL, vide its Office Memorandum dated 16.11.2021, has determined a list of Projects to be implemented or through Regulated Tariff Mechanism which also includes the instant Petition for the subject transmission system.*

21. *Since the Petitioner is already an inter-State transmission licensee and has been identified as an agency to implement the project as per RTM, the Commission in exercise of power under Regulation 24 hereby relaxes the provision of Regulation 6 of the Transmission Licence Regulations and holds that the Petitioner is eligible for grant of transmission licence. We, hereby, direct that a public notice under clause (a) of sub-section (5) of Section 15 of the Act be published to invite suggestions or objections to grant of transmission licence aforesaid. The objections or suggestions, if any, be filed by any person before the Commission, by 18.8.2022.”*

5. A public notice under Sub-section (5) of Section 15 of the Act was published on 5.8.2022 in all editions of the Hindustan Times (English) and Dainik Jagran (Hindi). No suggestions/ objections have been received from the members of the public in response to the public notice.

6. Case was called out for virtual hearing on 8.9.2022. The representative of the Petitioner submitted that no objection has been received in response to the public notice published by the Commission under sub-section (5) of Section 15 of the Act. Accordingly, requested to grant transmission licence to the Petitioner company.

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



Transmission Licence Regulations provide as under:

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

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

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

8. In our order dated 2.8.2022, we had proposed to grant transmission licence to the Petitioner company and directed for issue of public notice. In response to the public notice, no suggestions/ objections have been received. CTUIL in its letter dated 4.5.2022 has recommended for grant of transmission licence to the Petitioner. We are satisfied that the Petitioner company meets the requirements of the Act and the Transmission Licence Regulations for grant of transmission licence for the subject Transmission System mentioned at paragraph 1 of this order. Accordingly, we direct that transmission licence be granted to the Petitioner, Warora Kurnool Transmission Limited to establish the transmission scheme through RTM route as per the details given in paragraph 1 above.

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



period of licence:

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



- (f) The licensee shall comply with the directions of the National Load Despatch Centre under Section 26 of the Act, or the Regional Load Despatch Centre under sub-section (3) of Section 28 or sub-section (1) of Section 29 of the Act, as may be issued from time to time for maintaining the availability of the transmission system;
- (g) The licensee shall remain bound by the Central Electricity Regulatory Commission (Standard of Performance of inter-State transmission licensees) Regulations, 2012 or subsequent enactment thereof;
- (h) The licensee shall provide non-discriminatory open access to its Transmission System for use by any other licensee, including a distribution licensee or an electricity trader, or generating company or any other person in accordance with the Act; the Central Electricity Regulatory Commission (Open Access in inter-State Transmission) Regulations, 2008; the Central Electricity Regulatory Commission (Grant of Connectivity, Long-term Access and Medium-term Open Access in inter-State Transmission and related matters) Regulations, 2009; the Central Electricity Regulatory Commission (Indian Electricity Grid Code) Regulations, 2010, as amended from time to time or any subsequent re-enactments thereof;
- (i) The licensee shall not undertake any other business for optimum utilization of the Transmission System without prior intimation to the



Commission and shall comply with the provisions of the Central Electricity Regulatory Commission (Sharing of Revenue Derived from Utilization of Transmission Assets for other business) Regulations, 2020;

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

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

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

(m) The licensee shall coordinate with the licensees (including deemed licensees) executing the upstream or downstream transmission projects, the Central Electricity Authority and CTUIL for ensuring smooth execution and commissioning of the Project; and

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



the Commission as may be issued from time to time.

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

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

12. Petition No. 145/TL/2022 is allowed in terms of the above.

Sd/-
(P. K. Singh)
Member

sd/-
(Arun Goyal)
Member

sd/-
(I.S. Jha)
Member





भारत सरकार
GOVERNMENT OF INDIA
विद्युत मंत्रालय
MINISTRY OF POWER
केन्द्रीय विद्युत प्राधिकरण
CENTRAL ELECTRICITY AUTHORITY
क्षेत्रीय निरीक्षक संगठन
REGIONAL INSPECTORIAL ORGANISATION

ब्लॉक IV तीसरी मंजिल, Block IV Floor III, शास्त्री भवन Shastri Bhavan, चेन्नै-६ Chennai - 600 006

Annexure 4

47



Annexure-1

No. 132/07/06/2024-RIO(S)/299

Dated: 19.06.2024

To

Authorised Signatory,
Warora-Kurnool Transmission Limited (WKTL),
765/400 kV Warangal New Substation, Jangaon,
Telangana-506252.

Approval for Energisation

Subject: Approval for Energisation of Electrical installation of 80 MVAR Reactor (as per List enclosed) at M/s Warora-Kurnool Transmission Limited (WKTL), 765/400 kV Warangal New Substation, Jangaon, Telangana under Regulation 45 of the Central Electricity Authority (Measures relating to Safety and Electricity Supply) Regulations, 2023.

- Ref:**
1. Online Application No: A/2024/13738 dated 16.05.2024
 2. Our Inspection Report dated 14.06.2024
 3. Your Compliance report uploaded on 18.06.2024

Whereas Electrical installation (list is enclosed) of M/s Warora-Kurnool Transmission Limited (WKTL), 765/400 kV Warangal New Substation, Jangaon, Telangana was inspected on 11.06.2024 under regulation 45 of the Central Electricity Authority (Measures relating to Safety and Electricity Supply) Regulations, 2023.

Approval for Energization of the said Electrical Installation is hereby accorded subject to following conditions by the applicant:

1. Applicant shall ensure to have all other requisite clearances/NOCs from other authorities, as applicable.
2. Adherence to relevant provisions of the Central Electricity Authority (Measures relating to Safety and Electricity Supply) Regulations, 2023 shall be ensured by the applicant for safety during operation and maintenance.

The periodic inspection of the above installation shall be carried out at an interval not exceeding 05 years from the date of this inspection under regulation 32 of CEA (Measures relating to safety and Electric Supply) Regulations, 2023. This periodicity is subject to change by Government order/notification.

Srikanth

(M. Srikanth Reddy)
Deputy Director &
Electrical Inspector to the Govt. of India

उप निदेशक / Deputy Director
क्षेत्रीय निरीक्षण संगठन
Regional Inspectorial Organisation
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
चेन्नै / Chennai-600 006.



Warora-Kurnool Transmission Limited
765/400KV
WARANGAL NEW SUBSTATION
List of Equipments Ready for Commissioning

Sl.No.	Equipment Description	Qty	Make	Serial Number	Factory Test Report	Site Test Report
1	765KV,80 MVAR,1-Ph,Spare Reactor	1 Nos	GE T&D India Ltd	L-0832	√	√

Srikanth
उप निदेशक / Deputy Director
क्षेत्रीय निरीक्षण संगठन
Regional Inspectional Organisation
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
चेन्नै / Chennai-600 006.





Ref: WKTL/CoD/reactor/22062024

Date: 22.06.2024

To

As per distribution list

Sub : Declaration of Commercial Operation Date of one spare unit (1-Ph) of 80 MVAR reactor at 765 Warangal new substation, Jangaon, Telangana.

Ref : 1. CTUIL office memorandum dated 16.11.2021
 2. CERC order dated 13.09.2022 in Case No. 145/TT/2022
 3. CERC (Terms and conditions of Tariff) Regulation, 2024
 4. CEA letter dated 19.06.2024

Dear Sir,

This has reference to above referred order u/r (2), wherein Hon'ble CERC vide its order dated 13.09.2022 granted separate license in Case No. 145/TL/2022 for implementation of one spare unit (1-Ph) of 80 MVAR reactor at 765kV Warangal New sub-station under RTM mode to WKTL.

WKTL would like to inform that it has completed the scope of work of 80 MVAR reactor (spare) at 765 kV Warangal New substation, Jangaon, Telangana as per the scope of work mentioned in CTUIL office memorandum dated 16.11.2021.

Deputy Director & Electrical Inspector to the Govt. of India has issued approval for energization of electrical installations of 80 MVAR reactor of M/s Warora-Kurnool Transmission Ltd, upon their inspection on 11.06.2024 at 765 kV Warangal New Substation, Jangaon, Telangana under regulation 45 of CEA (Measures relating to Safety and Electrical supply) Regulations, 2023. Copy of approval for energization issued by Deputy Director & Electrical Inspector to the Govt. of India dated 19.06.2024 is marked and attached as **Annexure – 1**.

In this regard, it is pertinent to mention that the scope of work has been allotted for spare reactor and therefore trial operation certificate can not be obtained.

In view of the above, WKTL declares 12.06.2024 as COD of 80 MVAR reactor at 765kV Warangal New substation, Jangaon, Telangana in terms of regulation 27 of CERC (Indian Electricity Grid Code) Regulations, 2023. Accordingly, WKTL shall be entitled to tariff effective from 12.06.2024 in terms CERC (Terms and Condition of Tariff) Regulation, 2024.





This is without prejudice to rights available in TSA and all other applicable Laws.

For Warora-Kurnool Transmission Ltd,

Bhavadlia
(Bhavesh Kundalia)

Distribution List to LTTCs:

1. Chief Financial Controller/ Regulatory Cell
 Tamil Nadu Generation & Distribution Corporation Ltd. (TNGDCL)
 NPKRR Maaligai, 144, Anna Salai,
 Chennai – 600 002
2. Chief General Manager (P&MM & IPC) Southern Power Distribution Company of
 Andhra Pradesh Limited (APSPDCL)
 D. No. – 19-13-65/A, Srinivasapuram, Corporate Office, Tiruchanoor Road, Tirupati
 – 517 503
3. Chief General Manager (PPA, RA & PP)
 Eastern Power Distribution Company of Andhra Pradesh Limited (APEPDCL)
 Corporate Office, P&T Colony,
 Seethammadhara,
 Visakhapatnam- 530 013
4. Chief General Manager (Commercial)
 Southern Power Distribution Company of Telangana Limited (TSSPDCL)
 6-1-50, Corporate Office,
 Mint Compound,
 Hyderabad – 500 063
5. Chief General Manager (IPC & RAC)
 Northern Power Distribution Company of Telangana Limited (TSNPDCL)
 H. No. 2-5-3 1/2 , Vidyut Bhawan,
 Corporate Office, Nakkal Gutta,
 Hanamkonda, Warangal- 506 001
6. General Manager (Ele., Power Purchase)
 Bangalore Electricity Supply Company Limited (BESCOM)
 K.R. Circle, Bengaluru - 560 001
7. Chief Engineer (Electy. , Corporate Planning)

Warora Kurnool Transmission Limited
 Adani Corporate House
 Shantigram, S G Highway,
 Ahmedabad 382 421
 Gujarat, India



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



7. Chief Engineer (Electy. , Corporate Planning)
Gulberga Electricity Supply Company Limited (GESCOM)
Station Main Road, Kalaburagi,
Karnataka – 585 102
8. General Manager (Tech.)
Hubli Electricity Supply Company Limited (HESCOM)
Navanagar, P. B. Road,
Hubli – 580 025
9. Superintending Engineer (Commercial)
Mangalore Electricity Supply Company Limited (MESCOM), MESCOM Bhavan,
Corporate Office, Kavoor Cross Road,
Post Box 1130, Bejai,
Mangalore – 575 004
10. Chief Financial Officer
Chamundeseshwari Electricity Supply Company Limited (CESCOM)
No. 29, Vijaynagar 02nd Stage,
Hinkal, Mysuru – 570017
11. Chief Engineer (Planning & Tariff)
Kerala State Electricity Board Limited (KSEB)
08th Floor, Vaidhyuthi Bhawan, Pattom,
Thiruvananthapuram,
Kerala - 695004
12. Superintending Engineer - I
Electricity Deptt., Govt. of Puducherry
137, NSC Bore Road,
Puducherry – 605 001
13. Chief Electrical Engineer
Electricity Deptt. , Govt. Of Goa,
Vidyut Bhawan , Panaji, Goa – 605 001
14. Executive Director,
Central Transmission Utility of India Ltd,
Saudamini, Plot No.2, Sector 29,
Near IFFCO Chowk,
Gurgaon (Haryana) – 122001





15. Chairman cum Managing Director,
Grid Corporation of India Ltd
B-9, 1st Floor, Qutab Institutional Area,
Katwaria Sarai,
New Delhi – 110 016
16. Executive Director
Southern Regional Load Despatch Center,
29, Racecourse Cross Road, Bangalore – 560 009





भारत सरकार
GOVERNMENT OF INDIA
विद्युत मंत्रालय
MINISTRY OF POWER
केन्द्रीय विद्युत प्राधिकरण
CENTRAL ELECTRICITY AUTHORITY
क्षेत्रीय निरीक्षक संगठन
REGIONAL INSPECTORIAL ORGANISATION



53

Annexure-1

ब्लॉक IV तीसरी मंजिल, Block IV Floor III, शास्त्री भवन Shastri Bhavan, चेन्नै-६ Chennai - 600 006

No. 132/07/06/2024-RIO(S)/299

Dated: 19.06.2024

To
Authorised Signatory,
Warora-Kurnool Transmission Limited (WKTL),
765/400 kV Warangal New Substation, Jangaon,
Telangana-506252.

Approval for Energisation

Subject: Approval for Energisation of Electrical installation of 80 MVAR Reactor (as per List enclosed) at M/s Warora-Kurnool Transmission Limited (WKTL), 765/400 kV Warangal New Substation, Jangaon, Telangana under Regulation 45 of the Central Electricity Authority (Measures relating to Safety and Electricity Supply) Regulations, 2023.

- Ref:**
1. Online Application No: A/2024/13738 dated 16.05.2024
 2. Our Inspection Report dated 14.06.2024
 3. Your Compliance report uploaded on 18.06.2024

Whereas Electrical installation (list is enclosed) of M/s Warora-Kurnool Transmission Limited (WKTL), 765/400 kV Warangal New Substation, Jangaon, Telangana was inspected on 11.06.2024 under regulation 45 of the Central Electricity Authority (Measures relating to Safety and Electricity Supply) Regulations, 2023.

Approval for Energization of the said Electrical Installation is hereby accorded subject to following conditions by the applicant:

1. Applicant shall ensure to have all other requisite clearances/NOCs from other authorities, as applicable.
2. Adherence to relevant provisions of the Central Electricity Authority (Measures relating to Safety and Electricity Supply) Regulations, 2023 shall be ensured by the applicant for safety during operation and maintenance.

The periodic inspection of the above installation shall be carried out at an interval not exceeding 05 years from the date of this inspection under regulation 32 of CEA (Measures relating to safety and Electric Supply) Regulations, 2023. This periodicity is subject to change by Government order/notification.

Srikanth

(M. Srikanth Reddy)
Deputy Director &
Electrical Inspector to the Govt. of India

उप निदेशक / Deputy Director
क्षेत्रीय निरीक्षण संगठन
Regional Inspectorial Organisation
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
चेन्नै / Chennai-600 006.



Warora-Kurnool Transmission Limited
765/400KV
WARANGAL NEW SUBSTATION
List of Equipments Ready for Commissioning

Sl.No.	Equipment Description	Qty	Make	Serial Number	Factory Test Report	Site Test Report
1	765KV,80 MVAR,1-Ph ,Spare Reactor	1 Nos	GE T&D India Ltd	L-0832	√	√

Srikanth

उप निदेशक / Deputy Director
क्षेत्रीय निरीक्षण संगठन
Regional Inspectorial Organisation
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
चेन्नाई / Chennai-600 006.





22nd January, 2022

To whom so ever it may concern

In-principal Approval of Board of Directors of the Company for Capital Cost for 80 MVAR reactor at 765 kV Warangal New

With reference to MoP office order dated 28.10.2021 pertaining to Re-constitution of NCT, CTU approved the installation of 80 MVAR reactor at 765 kV Warangal New Sub-Station under compressed time schedule through Regulated Tariff Mechanism (RTM). In light of above CTU vide its Office Memorandum dated 16.11.2021 requested WKTL to take necessary action.

The capital cost for the implementation of 80 MVAR reactor at 765 kV Warangal New S/s is estimated at Rs. 9.50 Crore.

In view of the above, in-principal approval of Board of Directors of the Company is given for incurring estimated capital cost for installation of 80 MVAR reactor at 765 kV Warangal New S/s.

For, Warora Kurnool Transmission Limited

Nihar Raj
Director
DIN: 08965345



Warora Kurnool Transmission Limited
Adani Corporate House
Shantigram, S G Highway,
Ahmedabad 382 421
Gujarat, India
CIN: U40300DL2015PLC279272

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

Registered Office: C 105, Anand Niketan, South Delhi, New Delhi, Delhi, India, 110021



From: Mehul Jariwala
Sent: Friday, February 18, 2022 6:50 PM
To: Patel, Pankajkumar (RC-IN SE GP T S WR PD&SV)
Cc: Mohammadimran Patel; Ashutosh Jayswal; Naeem Ansari
Subject: RFQ for 1 no of 80 MVAR 765 kV, 1-phase Shunt Reactor for WKTL Project
Attachments: Standard_specification_for_transformers_and_reactors-Final.pdf; 765kV Reactor_TS_R3.pdf; Annexure I- Price Schedule for 80 MVAR for WKTL.xlsx

Dear Sir ,

We have requirement of 1 no of **80 MVAR 765 kV, 1-phase Shunt Reactor for WKTL Project**

Kindly submit the Price offer as per the attached price schedule.

Bidder to consider losses as per the CEA specification

Thanks & Regards,

Mehul Jariwala

Deputy Manager – Adani Power Limited

Techno commercial

Adani Corporate House, Shantigram, S G Highway, Ahmedabad-382421, Gujarat, INDIA.

Mob: +91 6359965920 | **Direct Line.:** 0 79 25558614 | **Extn:** 58614 |

adani

Growth
with
Goodness

Our Values: Courage | Trust | Commitment



From: Mehul Jariwala
Sent: Friday, February 18, 2022 6:50 PM
To: Raj Verma
Cc: Mohammadimran Patel; Naeem Ansari; Ashutosh Jayswal
Subject: RFQ for 1 no of 80 MVAR 765 kV, 1-phase Shunt Reactor for WKTL Project
Attachments: Standard_specification_for_transformers_and_reactors-Final.pdf; 765kV Reactor_TS_R3.pdf; Annexure I- Price Schedule for 80 MVAR for WKTL.xlsx

Dear Sir ,

We have requirement of 1 no of **80 MVAR 765 kV, 1-phase Shunt Reactor for WKTL Project**

Kindly submit the Price offer as per the attached price schedule.

Bidder to consider losses as per the CEA specification

Thanks & Regards,

Mehul Jariwala

Deputy Manager – Adani Power Limited

Techno commercial

Adani Corporate House, Shantigram, S G Highway, Ahmedabad-382421, Gujarat, INDIA.

Mob: +91 6359965920 | **Direct Line.:** 0 79 25558614 | **Extn:** 58614 |

adani

Growth
with
Goodness

Our Values: Courage | Trust | Commitment



From: Mehul Jariwala
Sent: Saturday, April 2, 2022 3:19 PM
To: Prateek, Maruvada (GE Renewable Energy)
Cc: Dengre, Ashish (GE Renewable Energy); Mohammadimran Patel; akshay surti; Naeem Ansari; Binod Kumar Agarwala
Subject: RFQ for 1 no of 80 MVAR 765 kV, 1-phase Shunt Reactor for WKTL Project
Attachments: Annexure-1.pdf; WKTL Spare reactor_Addendum_31032022.docx; RFP-Scope & Technical Requirements_765-400kV Warangal SS.pdf; QA requirement for Reactor for WKTL_Warangal.zip; Safety Documents.zip; Technical Deviation sheet.xlsx

Dear Sir,

We have requirement of 1 no of **80 MVAR 765 kV, 1-phase Shunt Reactor for WKTL Project.**

Bidder to consider below points in techno commercial offer :

1. Bidder to consider provided RFP & CEA Specification for Spare reactor.
2. In case of any ambiguity between CEA specification and RFP then **RFP shall prevail.**
3. The scope shall be complete **EPC with civil works.** Also, Attached the addendum and annexure-1 (Scope) for your necessary action.

Also , please find below documents for subject requirement.

- 1) QA documents
- 2) Safety Documents

Balance documents like Commercial terms and conditions/Price schedule/ HR compliance sheet/ MOM shall be shared soon

You are requested to submit the technical offer along with compliance on the attached documents at the earliest

Thanks & Regards,

Mehul Jariwala

Deputy Manager – Adani Power Limited

Techno commercial

Adani Corporate House, Shantigram, S G Highway, Ahmedabad-382421, Gujarat, INDIA.

Mob: +91 6359965920 | **Direct Line.:** 0 79 25558614 | **Extn:** 58614 |

adani

Growth
with
Goodness

Our Values: Courage | Trust | Commitment



From: Mehul Jariwala
Sent: Friday, February 18, 2022 6:51 PM
To: Kapil Yadav
Cc: Mohammadimran Patel; Ashutosh Jayswal; Naeem Ansari
Subject: RFQ for 1 no of 80 MVAR 765 kV, 1-phase Shunt Reactor for WKTL Project
Attachments: Standard_specification_for_transformers_and_reactors-Final.pdf; 765kV Reactor_TS_R3.pdf; Annexure I- Price Schedule for 80 MVAR for WKTL.xlsx

Dear Sir ,

We have requirement of 1 no of **80 MVAR 765 kV, 1-phase Shunt Reactor for WKTL Project**

Kindly submit the Price offer as per the attached price schedule.

Bidder to consider losses as per the CEA specification

Thanks & Regards,

Mehul Jariwala

Deputy Manager – Adani Power Limited

Techno commercial

Adani Corporate House, Shantigram, S G Highway, Ahmedabad-382421, Gujarat, INDIA.

Mob: +91 6359965920 | **Direct Line.:** 0 79 25558614 | **Extn:** 58614 |

adani

Growth
with
Goodness

Our Values: Courage | Trust | Commitment



2/c

Warora-Kurnool Transmission Limited

Site office: 765/400kV substations at Warangal (New), Thimmampet Village, Zaffergadh Mandal, Jangaon District, Telangana- 506252.

Ref : WKTL/HYD/2022/306

Date: 10/03/2022

To,
Chief Operating Officer (CTUIL),
"Saudamini" Plot No. 2, Sector-29,
Gurugram-122001

Kind Attention: Mr.P.C.Garg

Sub: Regarding requirement of 765 kV spare (1-Ph) Reactors units at 765kV Warangal New (Part-A) scheme at WKTL under RTM mode.

Dear Sir,

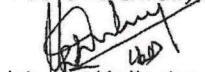
With reference to 7th meeting of the "National committee on Transmission" NCT held on 03.12.2021 and CTU Office Memorandum (Ref: C/CTU/AI/00/1st CCTP) dated 16th November 2021, CTU has approved implementation of "**Requirement of 765 kV spare (1-Ph) Reactors units at 765kV Warangal New (Part-A)**" scheme at WKTL under RTM mode. The details are as follows:

Scope of the Transmission Scheme	Capacity	Implementation timeframe
One spare unit (1-Ph) of 80 MVAR reactor at 765 kV Warangal New along with necessary arrangement to take spare reactor units into service as per the operational requirement.	80 MVAR (1-Ph)	15 months from issue of OM by CTU

In this regard, clarification on the following is required for further planning and implementation,

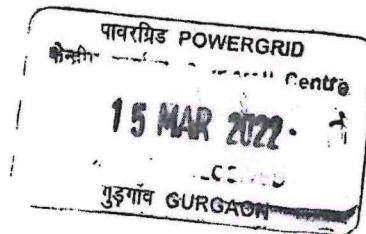
1. Spare reactor unit is envisaged for bus reactor or line reactor function.
2. Whether spare reactor unit is envisage as cold spare or hot spare. (considering the fact that majority of work at Warangal substation has been completed as per the RFP requirements)

Yours faithfully,



Ishwar Kailashnath Dubey
Email ID: Ishwar.Dubey@adani.com

Encl: A/a

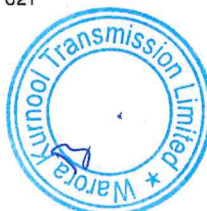


Warora Kurnool Transmission Limited
Adani Corporate House
Shantigram, S G Highway,
Ahmedabad 382 421
Gujarat, India
CIN: U40300DL2015PLC279272

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

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

Page 1 of 1



Warora-Kurnool Transmission Limited

Site office: 765/400kV substations at Warangal (New), Thimmampet Village, Zaffergadh Mandal, Jangaon District, Telangana- 506252.

Ref : WKTL/HYD/2022/336

Date: 29/03/2022

To,
Chief Operating Officer (CTUIL),
"Saudamini" Plot No. 2, Sector-29,
Gurugram-122001

Kind Attention: Mr.P.C.Garg

Sub: Regarding requirement of 765 kV spare (1-Ph) Reactors units at 765kV Warangal New (Part-A) scheme at WKTL under RTM mode. (In continuation to letter (Ref. WKTL/HYD/2022/306)

Dear Sir,

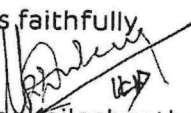
In reference to letter dated 10/03/2022 (WKTL/HYD/2022/306), please find the following clarification with respect to hot spare and cold spare of Reactor,

- 1) Spare reactor connection through the isolator switching scheme is not feasible due to the insufficient space and clearance for erecting the auxiliary buses, neutral bus and isolators in the layout as this has not been requirement in the RFP.
- 2) Spare reactor connection through manual jumpering involves human intervention so there is chances of mis-operation due to human errors/ equipment damage due to wrong selections while switching manually as bypass isolator is not feasible.
- 3) Hot spare reactor connection also required the complete modification in the existing control and relay panels for the integration of the spare reactor switching which is not feasible.

With the above consideration and considering the fact that majority of work at Warangal substation has been completed as per the RFP requirements. It may be consider prudent to have the spare reactor as cold spare.

Request your support for the way forward.

Yours faithfully,


Ishwar Kailashnath Dubey
Email ID: Ishwar.Dubey@adani.com



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

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

Ref. No: CTU/S/05/WKTL SR

Date: 05.04.2022

Shri Ishwar Kailashnath Dubey
AVP (Engineering)
M/s Warora Kurnool Transmission Ltd.
(WKTL) (a subsidiary of Adani Transmission Ltd.)
Adani Corporate House, Shantigram,
S.G. Highway, Ahmedabad – 382421

Subject: Requirement of 765kV spare (1-Ph) reactors units at 765kV Warangal New (Part-A) scheme at WKTL under RTM mode – reg.

Dear Sir,

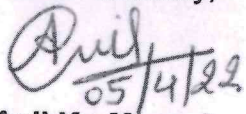
This is with reference to your letters dated 29.03.2022 and 10.03.2022 vide which certain clarifications were sought regarding implementation of 765kV spare (1-Ph) reactor unit at 765kV Warangal New substation under RTM. Further WKTL has informed that spare reactor connection through the isolator switching scheme is not feasible due to insufficient space and clearance for erection of auxiliary buses, neutral bus and isolators in the layout as this has not been specified in the RFP. It was also informed that majority of work at Warangal substation has been completed as per the RFP requirements.

In view of the above, following is clarified :

- The 80 MVAR (1-Ph) spare reactor unit has been planned for utilisation for bus reactor and line reactor, as per the operational requirements.
- Due to space constraints, the spare reactor may be considered as cold spare.

Thanking you,

Yours faithfully,


(Anil Kr. Meena)
Sr. DGM





भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority

विद्युत प्रणाली अभियांत्रिकी एवं प्रौद्योगिकी विकास प्रभाग

Power System Engineering & Technology Development Division

3rd Floor, Sewa Bhawan, R.K.Puram, New Delhi-110066

Ph: 011-26732307; Email: ce-psetd@gov.in

सेवा में,

As per attached list

विषय : Adoption of "Standard Specifications and technical Parameters for Transformers and Reactors (66 kV & above voltage class)"- Regarding

महोदय ,

Transformer and Reactors are the vital and expensive asset in a power delivery system and play important role not only in terms of investment but also in terms of reliability, availability of cost effective uninterrupted (24x7) quality power to all consumer and smooth operation of the Power System. With the expected growth of Indian power system, the requirement of such assets is likely to increase. Emphasis needs to be laid on improved design, quality control during manufacturing, use of right components/accessories, proper Operation & maintenance of such vital assets for trouble free service during its expected service life of about 35 years.

As you are aware that Ministry of Power (Government of India), vide Office order No. 10/24/2016-PG dated 20.10.2016, had constituted a Committee under the Chairmanship of Member (Power System), CEA with the objective to standardize the specification of Power Transformers & reactors bringing out critical parameters, which affects the quality, reliability, efficiency and cost of such assets, incorporating the best design practices, state-of-art technology, Quality control and testing requirements to ensure long & trouble-free service.

The standardization of ratings & technical parameters, fixation of losses eliminating the need for capitalization of losses, provision of tertiary & OLTC, use of RIP/RIS/OIP bushings and their ratings & dimensions, importance of design review, improvement in the basic Manufacturing & testing facility at manufacturer's works,



MQP, inspection & testing, the key issues relating to transportation, handling, loading-unloading, Erection, Testing & commissioning, standardization of foundation for interchangeability of different makes, roles & responsibilities of utility & manufacturer during the warranty period, condition assessment / monitoring etc. are some of the important aspects, which have been addressed in the document with clarity. The process of standardisation would simplify the procurement process, bring faster delivery due to uniform practice across the utilities in the country and would place all manufacturers at a level playing field enhancing overall efficiency, quality and productivity in the entire value chain of transformer / reactor procurement & operation.

The committee held several round of meetings with stake holders, utilities, experts and manufacturers of transformer, reactor and their accessories for formulation of this standard document so that both utilities and manufacturers across the country are benefited and follow a uniform practice. After detail discussions and deliberations on various aspects of the Transformer and Reactor, the '**Standard Specifications and Technical Parameters for Transformers and Reactors (66 kV & above voltage class)**' was finalized and submitted to Ministry of Power for approval. The document has been approved by Hon'ble Minister of State (Independent Charge) for Power and Renewable Energy and he has advised all stakeholders across the country for adoption of the document **in true spirit to achieve the ultimate goal of "One Nation One Specification"** which will be in the overall interest of the Power System.

A copy of the approved document is enclosed herewith and the document is also available at CEA website (www.cea.nic.in).

भवदीय/ Regards,

(एस. के. राय महापात्र /S.K. Ray Mohapatra)
मुख्य अभियंता /Chief Engineer

Copy, for kind information to:

1. Chairperson, CEA
2. Member(PS)/ Member(Thermal)/ Member(Hydro)/ Member(Planning)/ GD&D)/Member(E&C), CEA
3. Joint Secretary(Transmission), Ministry of Power
4. All CEs, CEA



Address List:

1.	Member-Secretary Northern Regional Power Committee 18-A, Qutab Institutional Area, Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi- 110016.	ms-nrpc@nic.in,
2.	Member-Secretary Southern Regional Power Committee No. 29, Race Course Cross Road, Bengaluru-560009	mssrpc-ka@nic.in
3.	Member-Secretary Western Regional Power Committee F-3, MIDC Area, Marol, Opposite SEEPZ, Central Road, Andheri (East), Mumbai-400093	ms-wrpc@nic.in,
4.	Member-Secretary Eastern Regional Power Committee 14, Golf Club Rd, Golf Gardens, Tollygunge, Kolkata, West Bengal 700033	mserpc-power@nic.in,
5.	Member-Secretary North Eastern Regional Power Committee NERPC Complex, 3rd Floor, Dong Parmaw, Lapalang, Shillong-793006	ms-nerpc@gov.in,
6.	Chairman & Managing Director, Powergrid Corporation of India Ltd., Saudamini, Plot No. 2, Sector-29, Gurgaon-122001 (Haryana)	cmd@powergrid.in
7.	Chairman & Managing Director National Thermal Power Corporation Ltd. NTPC Bhawan, Core 7, Scope Complex 7, Institutional Area,	cmd@ntpc.co.in,



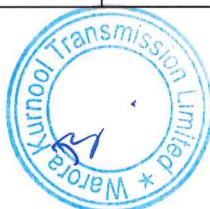
	Lodhi Road, New Delhi-110 003.	
8.	Chairman & Managing Director National Hydro Power Corporation Ltd. Corporate Office, NHPC Office Complex, Sector 33, Faridabad – 121 003 Haryana	cmd@nhpc.nic.in,
9.	Chairman & Managing Director, Delhi Transco. Ltd., Shakti Sadan, Kotla Marg, New Delhi-110002	md@dtl.gov.in, gmom1.dtl@gmail.com,
10.	Chief Engineer (Elect.) Goa Electricity Department Vidyut Bhawan, Panaji, Goa	cee-elec.goa@nic.in, ee1-elec.goa@nic.in,
11.	Chairman Haryana Vidyut Prasaran Nigam Ltd. Shakti Bhawan, Sector No. 6 Panchkula - 134 109, Haryana	chairman@hvpn.org.in,
12.	Managing Director Himachal Pradesh State Electricity Board Vidyut Bhawan, Shimla-171 004	cmd@hpseb.in,
13.	Managing Director, Jammu & Kashmir Power Development Corporation Ltd. Exhibition Ground, Srinagar(J&K)-190 009	md@jkspdc.com,
14.	Shri Gulam Mir Mohd. Electric M & RE Division, Choglamsar, Leh-Ladakh-194101	cepladakh@gmail.com
15.	Chairman Karnataka Power Corporation Ltd. Shakti Bhawan, 82 Race Course Road Bangalore-560 001.	mdkpcl@gmail.com,



16.	Chairman Kerala State Electricity Board Board Secretariat Vidyuthi Bhavanam Pattom Thiruvananthapuram- 695 004	cmdkse@kseb.in,
17.	Chairman & Managing Director Maharashtra State Electricity Transmission Company Ltd., C-19, E-Block, Prakashganga, Bandra-Kurla Complex Bandra(E), Mumbai 400 051	md@mahatransco.in,
18.	Chief Engineer (P) Manipur Electricity Department Govt. of Manipur, Manipur Sectt. South Block, Imphal, Manipur- 795 001.	snandei@ymail.com,
19.	Chairman & Managing Director Meghalaya Energy Corporation Ltd. Lumjingshai Short Round Road Shillong- 793 001	meecl.webportal@gmail.com,
20.	The Engineer-in-Chief Power and Electricity Deptt., Govt. of Mizoram, Power House, Bara Bazar Aizwal- 796 001, Mizoram	eincpower@gmail.com,
21.	Chief Engineer Nagaland Deptt. of Power Kohima 797 001 Nagaland	secyit-n@nic.in, vizo123@gmail.com,
22.	Chairman & Managing Director Punjab State Transmission Corporation Ltd., The Mall, Mall Road, Patiala- 147 001, Punjab	cmd@pstcl.org,
23.	Chairman & Managing Director Rajasthan Rajya Vidyut Prasaran Nigam Ltd. Vidyut Bhawan, Janpath Jaipur (Rajasthan)-302 005	cmd.rvpn@gmail.com,
24.	Rajasthan Rajya Vidyut Utpadan Nigam Limited Vidyut Bhawan, Jyoti Nagar,	cmd@rrvun.com, ace.katpp@rrvun.com



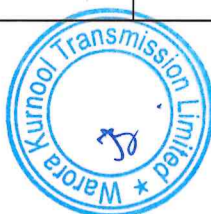
	Janpath, Jaipur -302005	
25.	Managing Director Sikkim Power Development Corporation Ltd. 31-A, N.H. Way, Gangtok- -737 101	sikkim.serc@gmail.com,
26.	Chairman & Managing Director Tripura State Elecy. Corporation Ltd. Govt. of Tripura, Bidyut Bhawan Agartala- 799 001.	cmd.tsecl@rediffmail.com,
27.	Chairman & Managing Director Uttar Pradesh Power Transmission Corporation Ltd. Shakti Bhawan, 14-A, Ashok Marg, Lucknow- 226001	cmd@upptcl.org,
28.	Chairman & managing Director West Bengal Power Development Corporation Ltd. Bidyut Unnayan Bhaban, Plot 3/C LA-Block, Sector-III, Salt Lake City, Kolkata- 700 098	cmd@wbpdcl.co.in,
29.	Commissioner-cum-Secretary (P) Andaman and Nicobar Electricity Department, Secretariat, Andaman and Nicobar Islands, Port Blair- 744 101	secyship14@gmail.com,
30.	Secretary Dadra & Nagar Haveli Electricity Department, Dadar Nagar Secretariat, Silvassa- 396230	tapasyaraghav@gmail.com,
31.	Secretary Daman & Diu Electricity Department Dadar Nagar Secretariat, Moti Daman- 396220	secretarypower2020@gmail.com,
32.	Secretary Lakshyadeep Elecy. Department U.T. of Lakshyadeep Kavaratti- 682555	lk-ktelect@nic.in,



33.	Secretary Puducherry Elec. Department Secretariat, Puducherry- 605001	secycs.pon@nic.in,
34.	Chairman & Managing Director Odisha Power Transmission Corporation Ltd. Janpath, Bhubaneswar- 751 022.	cmd@optcl.co.in,
35.	Chairman Jharkhand Urja Sancharan Nigam Ltd. Engineering Building, HEC, Dhurwa, Ranchi- 834 004	mdjusnl@gmail.com,
36.	Chairman West Bengal State Electricity Transmission Company Ltd (WBSETCL) Vidyut Bhawan, Block-DJ, Sector-II, Bidhan Nagar, Kolkata- 700 091.	md@wbsetcl.in,
37.	Managing Director Bihar State Power Transmission Company Limited, 4 th Floor, Vidyut Bhawan, Baily Road, Patna- 800 021	mdcellbsptcl@gmail.com,
38.	Chairman and Managing Director Gujarat Energy Transmission Corporation Ltd. Sardar Patel Vidyut Bhawan, Race Course , Vadodara- 390 007	md.getco@gebm.com,
39.	Managing Director Madhya Pradesh Power Transmission Company Ltd. Block No. 2, Shakti Bhawan Rampur, P.O. Vidyut Nagar Jabalpur- 482 008(MP)	md@mptransco.nic.in,
40.	Managing Director	mdgenco@cspc.co.in,



	Chhattisgarh State Power Generation Company Ltd., Vidyut Seva Bhawan, P.O. Sunder Nagar, Danganiya, Raipur- 492 013.(Chhattisgarh)	
41.	Managing Director Himachal Pradesh Power Transmission Corporation Ltd. Near, Shimla Bypass (below Old MLA Quarters, Tutikandi, Panjari, Himachal Pradesh 171005.	md@hpptcl.in,
42.	Chief Engineer (Power) Department of Power Govt. of Arunachal Pradesh Itanagar (Arunachal Pradesh) – 791 111.	vidyutarunachal@rediffmail.com, vidyutarunachal@gmail.com,
43.	Chief Engineer (Transmission) Transmission Corporation of Andhra Pradesh Ltd. Vidyut Soudha, Gunadala Eluru Road, Vijaywada Andhra Pradesh – 520 004	surendrababu.karreddula@aptransco.co.in,
44.	Chairman APGENCO, Vidyut Soudha, Gunadala, Vijayawada, Andhra Pradesh 520004.	mgdir@apgenco.com, ce-proj@apgenco.com
45.	Managing Director Karnataka Power Transmission Corporation Ltd., Kaveri Bhawan Bangalore -560009	md@kptcl.com,
46.	Chairman & Managing Director Transmission Corporation of Telangana Ltd. Vidyut Soudha, Khairatabad, Hyderabad - 500082	cmd@tstransco.in, cmdtstransco@gmail.com,
47.	Managing Director Assam Electricity Grid Corporation Ltd. 1st Floor, Bijulee Bhawan, Paltan Bazar Guwahati- 781 001	managing.director@aegcl.co.in,



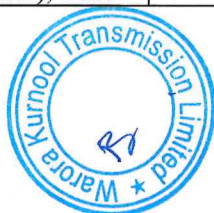
48.	Managing Director Assam Power Generation Corporation Limited(APGCL) 3rd Floor, Bijulee Bhawan, Paltanabazar, Guwahati-781 001	apgcl_md@yahoo.com
49.	Chairman & Managing Director Tripura State Elec. Corporation Ltd. Govt. of Tripura, Bidyut Bhawan Agartala- 799 001.	cmd.tsecl@rediffmail.com,
50.	Managing Director Power Transmission Corporation of Uttarakhand Ltd. Vidyut Bhawan, Saharnpur Road, Near I.S.B.T. Crossing, Dehra Dun Uttarakhand -248002	md.ptcul@rediffmail.com,
51.	Managing Director TANTRANSCO 10 th Floor/NPKRR Malikai, No. 144 Anna Salai, Chennai-600002	mdtantransco@tnebn.net.org,
52.	Chairman Damodar Valley Corporation, DVC Towers, VIP Road, Kolkata – 700 054	chairman@dvc.gov.in,
53.	Managing Director Madhya Pradesh Power Generating Company Ltd. Shakti Bhawan Vidyut Nagar P.O.Jabalpur- 482 008(MP)	mppgcl@mp.nic.in,
54.	Managing Director Haryana Power Generation Corporation Ltd. Urja Bhawan, C-7, Sector-6, Panchkula, Haryana-13410	md@hpgc.org.in,
55.	Chairman, Gujarat Urja Vikas Nigam Ltd., Sardar Patel Vidyut Bhawan, Race Course, Vadodara- 390 007	md.guvnl@gebm.com,
56.	Chairman & Managing Director U.P. Rajya Vidyut Utpadan Nigam Ltd. Shakti Bhawan,	cmd@upptcl.org,



	14- Ashok Marg, Lucknow-226 001	
57.	Chairman & Managing Director NEEPCO Ltd. Brookland Compund Shillong – 793 003	vksnhpc@yahoo.co.in,
58.	Managing Director Maharashtra State Power Generation Co. Ltd. Prakashgad, Plot No. G-9, 4 th Floor Bandra (E), Mumbai – 400 051	md@mahagenco.in,
59.	Chairman Indraprastha Power Generation Co. Ltd. Office of PRO, Himadri Rajghat Office Complex, New Delhi	md.ipgpp@nic.in,
60.	Chairman & Managing Director Block-1 Neyveli-607 801 NLC India Limited Cuddalore District, Tamilnadu	cmd@nlcindia.in,
61.	Chairman & Managing Director Odisha Power Generation Corporation Ltd. Zone – A, 7 th Floor, Fortune Towers Chandrasekharapur, Bhubaneswar – 751 023	md@opgc.co.in,
62.	Chairman & managing Director Chhatisgarh State Power Holding Company Ltd., Vidyut Seva Bhawan P.O. Sunder Nagar, Dangania, Raipur- 492 013 (Chhatisgarh)	mddiscom@gmail.com, mddiscom@cspc.co.in,
63.	Chairman & Managing Director TANGEDCO 10 th Floor/NPKR Ramasamy Malikai, No. 144, Anna Salai, Chennai – 600 002	chairman@tnebnet.org,
64.	Chairman & Managing Director Telengana State Power Generation Ltd.,	cmd@tstransco.in,



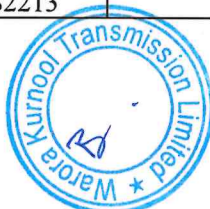
	Vidyut Soudha, Kharatabad Hyderabad – 500 082	
65.	Chairman Jharkhand Urja Utpadan Nigam Ltd. Engineering Building, HEC, Dhurwa, Ranchi- 834 004	mdjuunl2018@gmail.com,
66.	Chairman Bhakra Beas Management Board, Sector – 19 B, Madhya Marg, Chandigarh – 160 019	cman@bbmb.nic.in,
67.	Chairman & Managing Director Pragati Power Corporation Limited Himadri, Rajghat Power House Complex, New Delhi – 110 002	md.ipgpp@nic.in,
68.	Managing Director Uttarakhand Jal Vidyut Nigam Ltd. Maharani Bagh, G M S Road, Dehradun, Uttarakhand 0 248 008	info@ujvnl.com,
69.	Chairman & Managing Director SJVN LIMITED Himfed Building, New Shimla – 171 009	sectt.cmd@sjvn.nic.in,
70.	Chairman & Managing Director THDC INDIA LTD. Pragatipuram, Bye Pass Road, Rishikesh – 249 201 (Uttarakhand)	cmd@thdc.co.in,
71.	Head – Transmission Business Adani Transmission (India) Ltd. Sambhav House, Judges Bungalow Road, Bodakdev Ahmedabad – 380 015 (Gujarat)	sameer.ganju@adani.com,
72.	Shri T.A.N. Reddy Vice President B.D. & Corporate Affairs (Sterlite Power), F-1, The Mira Corporate, Suit, Plot No. 1 & 2, C-Block, 2 nd Floor, Ishwar Nagar, Mathura Road, New Delhi – 110 065.	tan.reddy@sterlite.com, Jeetendra.bisht@sterlite.com amit.tripathi1@sterlite.com
73.	L&T Infrastructure Development Projects Limited (L&T IDPL), L&T	contactus@lntidpl.com,



	Campus, TCTC Building, First Floor, Mount Poonamallee Road, Manapakkam, Chennai – 600089.	
74.	Managing Director Bihar State Power (Holding) Company Ltd. Vidyut Bhawan, Bailey Road Patna- 800021.	osdenenergy@gmail.com
75.	Chairman & Managing Director, Telangana State Power Generation Corporation Limited, Vidyut Soudha, 'A' Block, Khairatabad, Hyderabad – 500 082 (Telangana)	cmd@tstransco.in, cmdtstransco@gmail.com,
76.	Managing Director, Bihar State Power Generation Company Limited 5 th Floor, Vidyut Bhawan, Bailey Road, Patna- 800 021	md.bspgcl@gmail.com,
77.	Chief General Manager Western UP Power Transmission Co. Ltd. 400/300/33KV Sub Station, Indirapuram Kalapatthar Ghaziabad-201010	swapnil.wupptcl@gmail.com,
78.	Chairman & Managing Director Neyveli Lignite Corporation Limited Corporate Office, Block -1 Neyveli – 607801	cmd@nlcindia.in,
79.	Director General CPRI Prof. Sir C.V Raman Road, P.B. NO. 8066, Sadasivanagar P.O Bangalore- 560080	dgcprl@cpri.in
80.	Chairman & Managing Director BHEL BHEL House, Siri Fort, New Delhi-110049	cmd@bhel.in



81.	Chairman & Managing Director POSOCO B-9 (1 st Floor), Qutab Institutional Area, Katwaria Sarai, New Delhi-110016	nrlcdso@posoco.in
82.	Director General, IEEMA, Rishyamook Building, First Floor 85A, Panchkuian Road New Delhi-110001	president@ieema.org sunil.misra@ieema.org j.pande@ieema.org
83.	Director General, ITMA, 303, South Delhi House, 12, C.Center, Zamrudpur, New Delhi-110048	itma_2006@itma.org.in itma_2006@airtelmail.com
84.	Toshiba Transmission & Distribution Systems (India) Pvt. Ltd. Rudraram Village, Patancheru Mandal, Medak Dist, Telangana State-502329	santanu.lahiri@toshiba-ttdl.com manish.yadav@toshiba-ttdi.com
85.	Prime Meiden Ltd. Prime Tower 287-288, Udyog Vihar Phase-II, Gurgaon-122016	mvijayakumaran@primemeiden.com
86.	CG Power and Industrial Solutions Ltd. Power System Business Unit, Bhaskara Building, Kanjur Marg (East) Mumbai-400042	vikrant.joshi@cgglobal.com
87.	Vice President - GIR Hitachi ABB Power Grids Plot No 58; Sector 44, 4th Floor Gurgaon- 122001, Haryana	taruna.saxena@hitachi-powergrids.com
88.	Managing Director Tata Power, Bombay House 24, Homi Mody Street Mumbai-400001	pbtupe@tatapower.com
89.	Managing Director Transformers and Rectifiers Kerala Ltd. Angamaly South ernakulam District Cochin, Kerala-683573	cs@telk.com
90.	Managing Director Transformers and Rectifiers (India) Ltd. Survey No. 427 P/3-4, & 431 P/1-2, Sarkhej-Bavla Highway, Moraiya, Sanand, Dist. Ahmedabad-382213	marketing@transformerindia.com



91.	Managing Director TBEA Energy (India) Private Limited "TBEA Green Energy Park" National Highway No.8, Village Miyagam, Karjan - 391440, Gujarat	tradingbusiness@tbeaindia.com
92.	General Manager-Transformer Engineering GE T&D India Limited Milestone 87, Vadodara-Halol Highway Village Kotambi, Post Jarod, Vadodara Gujarat 391510	maneesh.jain@ge.com
93.	Torrent Power Ltd. 600, Tapovan, Ambavadi, Ahmedabad-380015	lunapal@TORRENTPOWER.COM JIGNESHLANGALIA@torrentpower.co m chetanbundela@TORRENTPOWER.CO M
94.	Managing Director Siemens Limited Birla Aurora, Level 21, Plot No. 1080, Dr. Annie Besant Road, Worli, Mumbai – 400030	sunil.mathur@siemens.com, c.jayasenana@siemens.com
95.	EMCO Ltd. Plot No. F-5, Road No. 28 Wagle Industrial Estate, Thane (W) - 400 604 Maharashtra	emco.corporate@emco.co.in

Signature Not Verified

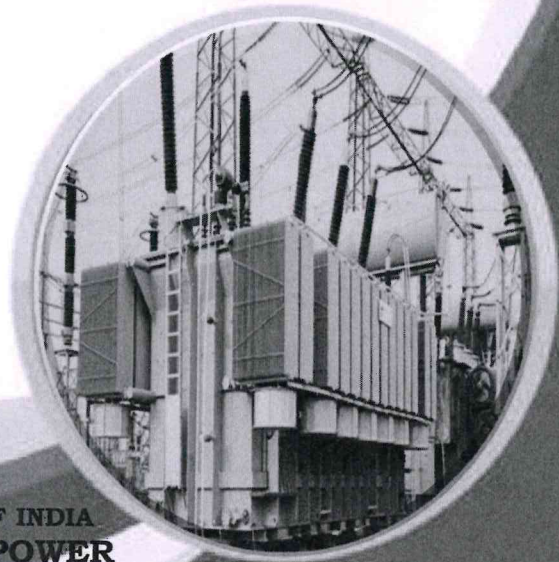
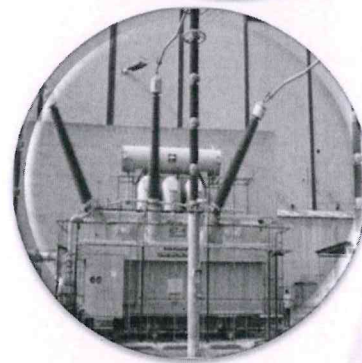
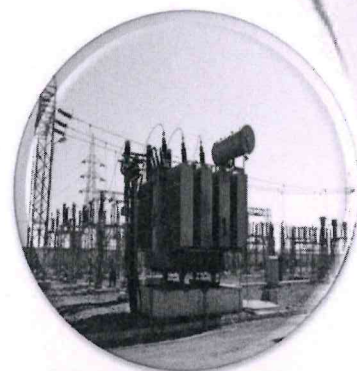
Digitally signed by S. K. RAY
MOHAPATRA
Date: 2021.04.29 11:11:26 IST





77

**STANDARD SPECIFICATIONS
AND TECHNICAL PARAMETERS
FOR TRANSFORMERS AND
REACTORS (66 kV & ABOVE
VOLTAGE CLASS)**



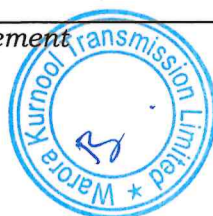
**GOVERNMENT OF INDIA
MINISTRY OF POWER
CENTRAL ELECTRICITY AUTHORITY**

APRIL 2021

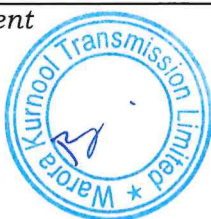


REACTORS**16.0 80 MVar & 110 MVar, 765/√3kV, 1-phase Shunt Reactor**

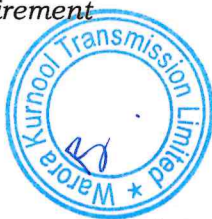
S. No.	Description	Unit	Technical Parameters	
1.	Rated capacity at 765/√3 kV	MVar	80	110
2.	Rated Voltage (Ur)	kV	765/√3	
3.	Maximum continuous operating voltage (Um) (1p.u.)	kV	800/√3	
4.	Winding connection		Star with neutral (in 3 Phase Bank)	
5.	Cooling type		ONAN	
6.	Frequency	Hz	50	
7.	No of Phases		1 (Single)	
8.	Reference standard		IEC 60076-6	
9.	Service		Outdoor	
10.	Duty		Continuous at 800/√3kV	
11.	Permissible unbalance current among phases		±1%	
12.	Crest value of third harmonic component in phase current when reactor is energised at rated voltage with sinusoidal wave form		≤ 3% of the crest value of fundamental	
13.	Range of constant impedance (Linearity)		Up to 1.25 p.u. (However, complete saturation characteristics of the Reactors upto 1.5 p.u. Voltage shall be furnished)	
14.	Tolerance on current		(i) 0 to +5% for a single-phase unit (ii) ±1% for between units	
15.	Ratio of zero sequence reactance to positive reactance (X0/X1)		Between 0.9 & 1.0.	
16.	Temperature rise over 50 °C Ambient Temp. and at 800/√3 kV			
i)	Top oil measured by thermometer	°C	40	
ii)	Average winding measured by resistance method	°C	45	
17.	Winding hot spot temperature rise over yearly weighted average temperature of 32 °C	°C	61	
18.	Max. tank surface temperature	°C	110	
19.	Max design ambient temperature	°C	50	



20.	Windings		
i)	Lightning Impulse withstand Voltage		
	Line end	kV _p	1950
	Neutral	kV _p	550
ii)	Chopped Wave Lightning Impulse Withstand Voltage		
	Line end	kV _p	2145
iii)	Switching Impulse withstand Voltage at Line end	kV _p	1550
iv)	Power Frequency withstand Voltage		
	Line end	kV _{rms}	830kV rms (Ph to Earth) for 5 min (to be tested)
	Neutral	kV _{rms}	230 (for one minute)
21.	Neutral earthing		Solidly Earthed
22.	Whether neutral is to be brought out		Yes (through 145kV class bushing)
23.	Tan-delta of windings at ambient Temperature		< 0.005
24.	Bushing		
i)	Rated voltage		
	Line bushing	kV	800
	Neutral bushing	kV	145
ii)	Rated current		
	Line bushing	A	2500
	Neutral bushing	A	1250
iii)	Lightning Impulse withstand Voltage		
	Line bushing	kV _p	2100
	Neutral bushing	kV _p	650
iv)	Switching Impulse withstand Voltage of Line bushing	kV _p	1550
v)	One minute power frequency withstand Voltage of bushings (dry)		
	Line bushing	kV rms	970



	Neutral bushing	kV rms	305	
vi)	Tan delta of bushing at ambient Temperature	%	≤ 0.5	
vii)	Minimum creepage distance		(Specific Creepage Distance: of 31mm/kV corresponding to highest line to line voltage)	
	Line bushing	mm	24800	
	Neutral bushing	mm	4495	
viii)	Partial discharge of bushings at Um (line end and neutral)	pC	< 10	
25.	Vibration and tank stress at Um		Max. Amplitude ≤ 200 microns (peak to peak) Average amplitude ≤ 60 microns (peak to peak) Tank stress: ≤ 2.0 kg/sq.mm at any point of tank	
26.	Maximum Partial discharge level at $1.58 U_r/\sqrt{3}$	pC	100	
27.	Maximum noise level at rated voltage & frequency	dB	80	
28.	Maximum Permissible Losses of Reactor		80MVar	110MVar
i)	Max. Total loss at rated current and frequency and at 75°C	kW	98	120
ii)	Max. I ² R Loss at rated current and frequency and at 75°C	kW	52	60



To,
The Board of Directors
Warora Kurnool Transmission Limited

Independent Auditor's Report on Statement of Capital Cost as on Commercial Operation Date ("COD") for 80 MVAR Reactor at 765 kV Warangal New Substation

We, Dharmesh Parekh & Co LLP, Chartered Accountants, the statutory auditor of Warora Kurnool Transmission Limited ("the Company") have been requested by the company vide its mail dated 30th August 2024 to confirm the information mentioned in the attached Annexure on capital cost as on commercial operation date ("COD") for 80 MVAR Reactor at 765 kV Warangal New Substation ("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.

Auditor's 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 audited books of account of the company for the year ended March 31, 2024 and reviewed books of accounts from April 01, 2024 to June 12, 2024 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 audited books of account of the company for the year ended March 31, 2024 and reviewed books of accounts from April 01, 2024 to June 12, 2024 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: 30.08.2024



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

Chirag & Shah

(CA. CHIRAG SHAH)
Partner
Membership No. 122510
UDIN: 24122510BKASYJ7991

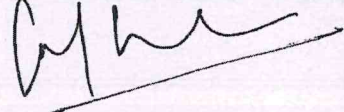


Annexure**Statement of Capital Expenditure for 80 MVAR Reactor at 765 kV Warangal New Substation**

SN	Particulars	As on 12 th June 2024 (Rs. Cr)		
		Audited books of account of the company for the year ended March 31, 2024, and reviewed books of accounts from April 01, 2024, to June 12, 2024		
		Total Capital Expenditure	Capital Expenditure on cash basis	Undischarged Liabilities
1	Hard Cost			
a	Land	-	-	-
b	Building	-	-	-
c	Transmission Line	-	-	-
d	Sub-Station	7.79	6.24	1.55
e	Communication System	-	-	-
	Total Hard Cost (a+b+c+d+e)	7.79	6.24	1.55
	Add: IDC	0.26	0.26	-
	Total Capital Expenditure	8.05	6.50	1.55

Note: Commercial Operation Date of 80 MVAR reactor at 765 kV Warangal New Substation is 12th June 2024

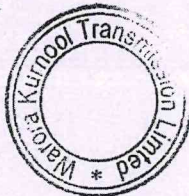
For Warora Kurnool Transmission Limited



Authorised Signatory

Place: Ahmedabad

Date: 30 August 2024



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	NA
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

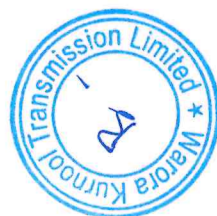


Form No.	Title of Tariff Filing Forms (Transmission & Communication System)	Tick
<u>FORM-9B</u>	Details of Foreign loans	NA
<u>FORM-9C</u>	Calculation of Weighted Average Rate of Interest on Actual Loans	Y
<u>FORM-9D</u>	Loans in Foreign Currency	NA
<u>FORM-9E</u>	Calculation of Interest on Normative Loan	Y
<u>FORM-10</u>	Calculation of Depreciation Rate on original project cost	Y
<u>FORM-10A</u>	Statement of Depreciation	Y
<u>FORM-10B</u>	Statement of De-capitalisation	Y
<u>FORM-11</u>	Calculation of Interest on Working Capital	NA
<u>FORM-12</u>	Details of time over run	Y
<u>FORM-12A</u>	Incidental Expenditure during Construction	NA
<u>FORM-12B</u>	Calculation of IDC & Financing Charges	Y
<u>FORM-13</u>	Details of Initial spares	NA
<u>FORM-14</u>	Non-Tariff Income	NA
<u>FORM-15</u>	Summary of issue involved in the petition	Y
<u>FORM A</u>	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



Form No.	Title of Tariff Filing Forms (Transmission & Communication System)	Tick
7	<p>Detailed note giving reasons of cost and time over run, if applicable.</p> <p>List of supporting documents to be submitted:</p> <ol style="list-style-type: none"> Detailed Project Report CPM Analysis PERT Chart and Bar Chart Justification for cost and time Overrun 	NA
8	<p>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.</p>	NA
9	<p>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.</p>	NA
10	Any other relevant information, (Please specify)	

Notel: 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.



**PART-III
FORM-1A**

Summary of Asset Level Cost

Name of the transmission Asset: 80 MVAR Reactor at 765 kV Warangal New Substation

(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 12.06.2024	2024-25	2025-26	2026-27	2027-28	2028-29	As on 31.03.2029
Transmission Line	-	-	-	-	-	-	-
Substation equipments	649.92	154.93	-	-	-	-	804.85
Free hold Land	-	-	-	-	-	-	-
Leasehold Land	-	-	-	-	-	-	-
PLCC	-	-	-	-	-	-	-
Furniture / Fixture	-	-	-	-	-	-	-
Building & Civil Works	-	-	-	-	-	-	-
Office Equipments	-	-	-	-	-	-	-
Total	649.92	154.93	-	-	-	-	804.85

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:

80 MVAR Reactor at 765 kV Warangal New Substation

2) 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	
					765 kV	765 kV			Yes/No	If No, petition No.
1	Warangal New	AC	765	One Spare 80 MVAr Reactor			80	12-Jun-24	Yes	

Summary:

O&M Expenses for substations covered in the instant petition									
Normative rate of O&M as per Regulation (Rupees in Lakh)									
No. of Units	2024-25	2025-26	2026-27	2027-28	2028-29				
	0.26	0.28	0.29	0.31	0.32				
O&M Claimed (Rupees in Lakh)	80.00	80.00	80.00	80.00	80.00				
	16.83	22.08	23.20	24.40	25.76				

Note: 1. Number of bays is inclusive of line bays, ICT bays, reactor bays etc. Each ICT bays, line bays, reactor bays shall be considered separately for purpose of O&M expenses.
2. The MVA Capacity shall exclude the capacity of reactor, FSE, Stat Com
3. O&M expenses for Transmission Licensees 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	2024-25	2025-26	2026-27	2027-28	2028-29
(Rupees in Lakh)						
A) Normative O&M						
1	Transmission Line	-	-	-	-	-
2	Substation	16.83	22.08	23.20	24.40	25.76
3	Communication system	-	-	-	-	-
	Total Normative O&M	16.83	22.08	23.20	24.40	25.76
B) O&M Claimed under Regulation 36 (3)(d)						
	Security Expenses					
	Actual Capital Spare consumed ¹					
	Insurance Premium Paid ²	0.58	0.72	0.72	0.72	0.72
	Total O&M Expenses claimed	17.41	22.80	23.92	25.12	26.48

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

1. 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.
2. 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-3**

Normative Parameters considered for tariff calculations

Name of the transmission Asset:

80 MVAR Reactor at 765 kV Warangal New Substation

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	%	11.90%	11.90%	11.90%	11.90%	11.90%
Lapsed life as on 01.04.2024 and beginning of every year(in completed years)	No. of years	1.00	2.00	3.00	4.00	5.00

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.



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: 80 MVAR Reactor at 765 kV Warangal New Substation

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

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)	(Amount in Rs. Lakh)	
						Balance useful Life of the Project as on 01.04.2024 (Refer E)	
One spare unit (1-Ph) of 80 MVAR reactor at 765 kV Warangal New along with necessary arrangement to take spare reactor units into service as per the operational requirement.	6/12/2024	6/12/2024			-		-

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 31.03.2019		
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	6/12/2024
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)	-



PART-III
FORM-4A

Statement of Capital Cost

Name of the transmission Asset:

80 MVAR Reactor at 765 kV Warangal New Substation

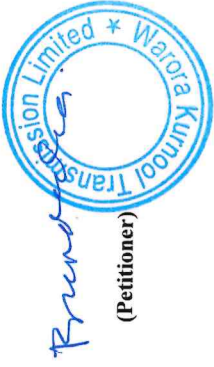
A) Capital Cost		As on relevant date ¹					(Rs. in Lakh)
		2024-25	2025-26	2026-27	2027-28	2028-29	
	Particulars						
1	a) Opening Gross Block Amount As per books		804.85	804.85	804.85	804.85	
	b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in A(a) above	-	26.04	26.04	26.04	26.04	
	c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above	-	-	-	-	-	
2	a) Addition in Gross Block Amount during the period	804.85	-	-	-	-	
	b) Amount of capital liabilities in B(a) above	778.81	-	-	-	-	
	c) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in B(a) above	26.04	-	-	-	-	
	d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in B(a) above	-	-	-	-	-	
3	a) Closing Gross Block Amount as per books	804.85	804.85	804.85	804.85	804.85	
	b) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in C(a) above	26.04	26.04	26.04	26.04	26.04	
	c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) above	-	-	-	-	-	

B) Flow of liability for the Asset		As on relevant date ¹					(Rs. in Lacs)
		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 the



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.



Statement of Capital Works in Progress

Name of the transmission Asset: 80 MVAR Reactor at 765 kV Warangal New Substation

Particulars	(Rs. in Lakh)		
	Accrual Basis	As on relevant date ¹ Un-discharged Liabilities	Cash Basis
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	-	-	-
b) Amount of capital liabilities in B(a) above	-	-	-
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	-	-	-
b) Amount of capital liabilities in D(a) above	-	-	-
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

(Petitioner)



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

Name of the transmission Asset: 80 MVAR Reactor at 765 kV Warangal New Substation

New Projects

New Projects Capital Cost Estimates

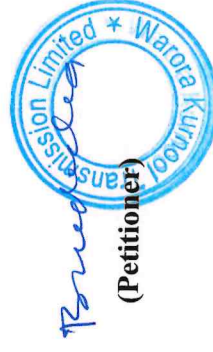
Board of Director/ Agency approving the Capital cost estimates:	Rs. 9.50 Crore	
Date of approval of the Capital cost estimates:	22-Jan-22	
	Present Day Cost	Completed Cost
Price level of approved estimates		
Foreign Exchange rate considered for the Capital cost estimates		
Capital Cost excluding IDC, IEDC & FC		
Foreign Component, if any (In Million US \$ or the relevant Currency)	-	-
Domestic Component (Rs. lakh)		778.81
Capital cost excluding IDC, FC, FERV & Hedging cost (Rs. Lakh)		778.81
IDC, IEDC, FC, FERV & Hedging cost		
Foreign Component, if any (In Million US \$ or the relevant Currency)	-	-
Domestic Component (Rs. lakh)		26.04
Total IDC,FC, FERV & Hedging cost (Rs. Lakh)		26.04
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)	804.85
Capital cost Including IDC , IEDC & FC (Rs. Lakh)	804.85
Schedule of Commissioning	
COD of transmission system 1/ transmission element 1/ Communication System 1	12-Jun-24
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.



Name of the transmission Asset: 80 MVAR Reactor at 765 kV Warangal New Substation

Element wise Break-up of Project/Asset/Element Cost for Transmission System or Communication System

Sl.No.	Break Down	Cost in Rs. Lakh						(Amount in Rs. Lakh)				Capital Work in Progress as per Books of Account as on COD
		As per original Estimates	As per Revised Cost Estimates (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 transmission tariff (eg. Grant, other business etc.3	Projected/ actual cost of Deferred work to be capitalised after COD but before cut-off date	Variation between actual Cost and 1A/RCE cost as on COD	Reasons for Variation	Un-Discharge Liabilities included in Col. 5	Admitted Cost		
1	2	3	4	5	6	7	8 = (5 - 6 + 7) - (3 or 4)	9	10	11	12	
A	TRANSMISSION LINE											
1	Preliminary works											
1.1	Design & Engineering			-								
1.2	Preliminary investigation, Right of way, forest clearance, PTCC, general civil works etc.			-								
1.3	Total Preliminary works (1.1 + 1.2)	-	-	-	-	-	-					
2	Transmission Lines material											
2.1	Towers Steel			-								
2.2	Conductor			-								
2.3	Earth Wire			-								
2.4	Insulators			-								
2.5	Hardware Fittings			-								
2.6	Conductor & Earthwire accessories			-								
2.7	Spares			-								
2.8	Erection, Stringing & Civil works including foundation			-								
2.9	Total Transmission Lines material (2.1+2.2+2.3+2.4+2.5+2.6+2.7+2.8)	-	-	-	-	-	-					
3	Taxes & Duties											
3.1	Custom Duty			-								
3.2	Other Taxes & Duties			-								
3.3	Total Taxes & Duties (3.1+3.2)	-	-	-	-	-	-					
	Total -Transmission lines (1.3+2.9 +3.3)	-	-	-	-	-	-					
B.	SUBSTATIONS											
4	Preliminary works & land											
4.1	Design & Engineering			-								
4.2	Land ²			-								
4.3	Site preparation			-								
4.4	Total Preliminary works & land (4.1+4.2+4.3)	-	-	-	-	-	-					



Sl.No.	Break Down	As per original Estimates	As per Revised Cost Estimates (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 transmission tariff (eg. Grant, other business etc.3)	Projected/ actual cost of Deferred work to be capitalised after COD but before cut-off date	Variation between actual Cost and IA/RCE cost as on COD	Reasons for Variation	Un-Discharge Liabilities included in Col. 5	Admitted Cost	Capital Work in Progress as per Books of Account as on COD
5	Civil Works										
5.1	Control Room & Office Building including HVAC						-				
5.2	Township & Colony						-				
5.3	Roads and Drainage						-				
5.4	Foundation for structures			17.84			17.84		1.79		
5.5	Misc. civil works			35.40			35.40		35.40		
5.6	Total Civil Works (5.1+5.2+5.3+5.4+5.5)	-	-	53.24	-	-	53.24		37.19		
6	Substation Equipments										
6.1	Switchgear (CT, PT, Circuit Breaker, Isolator etc)			-			-				
6.2	Transformers			-			-				
6.3	Compensating Equipment(Reactor, SVCs etc)			690.45			690.45		117.74		
6.4	Control , Relay & Protection Panel						-				
6.5	PLCC						-				
6.6	HVDC package						-				
6.7	Bus Bars/ conductors/Insulators						-				
6.8	Outdoor lighting						-				
6.9	Emergency D.G. Set						-				
6.1	Grounding System						-				
6.11	Structure for switchyard						-				
6.12	Total Substation Equipments (sum of 6.1 to 6.11)	-	-	690.45	-	-	690.45		117.74		
7	Spares										
8	Taxes and Duties										
8.1	Custom Duty						-				
8.2	Other Taxes & Duties						-				
8.3	Total Taxes & Duties (8.1+8.2+8.3)	-	-	-	-	-	-				
8.4	Total (Sub-station) (4.4+5.6+6.12+7+8.3)	-	-	743.69	-	-	743.69		154.93		



Sl.No.	Break Down	As per original Estimates	As per Revised Cost Estimates (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 transmission tariff (eg. Grant, other business etc.3	Projected/ actual cost of Deferred work to be capitalised after COD but before cut-off date	Variation between actual Cost and IA/RCE cost as on COD	Reasons for Variation	Un-Discharge Liabilities included in Col. 5	Admitted Cost	Capital Work in Progress as per Books of Account as on COD
9	Communication System										
9.1	Preliminary Works										
9.2	Communication System Equipment's										
9.3	Taxes and Duties										
9.4	Total (Communication System) (9.1+9.2+9.3)	-	-	-	-	-	-				
10	Cost of Plant & Machinery (3.4+8.4+9.4)	-	-	743.69	-	-	743.69		154.93		
11	Construction and pre-commissioning expenses										
11.1	Site supervision & site administration etc.										
11.2	Tools and Plants			35.12			35.12				
11.3	construction insurance						-				
11.4	Total Construction and pre commissioning expenses (11.1+11.2+11.3)	-	-	35.12	-	-	35.12		-		
12	Overheads										
12.1	Establishment										
12.2	Audit & Accounts										
12.3	Contingency										
12.4	Other overheads										
12.5	Total Overheads (12.1+12.2+13.3+12.4)	-	-	-	-	-	-				
13	IDC, FC, FERV & Hedging Cost										
13.1	Interest During Construction (IDC)										
13.2	Financing Charges (FC)			26.04		-	26.04				
13.3	Foreign Exchange Rate Variation (FERV)										
13.4	Hedging Cost										
13.5	Total of IDC, FC, FERV & Hedging Cost (13.1+13.2+13.3+13.4)	-	-	26.04	-	-	26.04		-		
14	Capital cost including IDC, FC, FERV & Hedging Cost (10+11.4+12.5+13.5)	-	-	804.85	-	-	804.85		154.93		



Note:

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

B) Summary of Capital Cost as on COD										
Particulars	Plant & Machinery Cost including initial spare but excluding IDC&IEDC	Initial Spare capitalised	IEDC capitalised	IDC Capitalised	Loan FERV	Gross Block as per books of Account as on C'OD	Deduction from Gross Block	Gross block meant for tariff as on COD / 01.04.2024 (after deductions)	Un-discharged liability included in 8	Capital cost on cash basis for tariff as on COD/as on 01.04.2024
	1	2	3	4	5	6=(1+3+4+5)	7	8=(6-7)	9	10 =(8 - 9)
Land (Freehold Land)	-	-	-	-	-	-	-	-	-	-
Land (Leasehold)	-	-	-	-	-	-	-	-	-	-
Building & Civil Works	-	-	-	-	-	-	-	-	-	-
Transmission Line	-	-	-	-	-	-	-	-	-	-
Sub-Station	743.69	-	35.12	26.04	-	804.85	-	804.85	154.93	649.92
PLCC	-	-	-	-	-	-	-	-	-	-
Total Capital Cost as per Books of Account	743.69	-	35.12	26.04	-	804.85	-	804.85	154.93	649.92
Less: Un-discharged liabilities	-	-	-	-	-	-	-	-	-	-
Total Capital Cost Claimed for tariff	743.69	-	35.12	26.04	-	804.85	-	804.85	154.93	649.92
% of IDC / IEDC on the base of (Plant & Machinery cost including initial spare as per Books of Account)										
Means of Finance										
Equity	223.11	-	10.54	7.81	-	241.46	-	241.46	46.48	194.98
Debt	520.58	-	24.59	18.23	-	563.40	-	563.40	108.45	454.94

(Petitioner)



Break-up of Construction/Supply/Service Packages

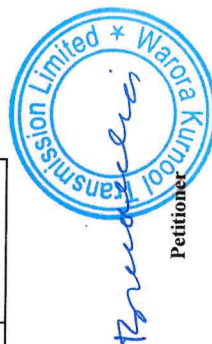
Name of the transmission Asset:

80 MVAR Reactor at 765 kV Warangal New Substation

[illegible]

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.



Petitioner



Details of all the assets covered in the project

Name of the transmission Asset:
80 MVAR Reactor at 765 kV Warangal New Substation

SCOD:

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	80 MVAR reactor at 765 kV Warangal New	12-Jun-24	-	-	-	804.85	Y	
Total								

 **Petitioner.**

Actual Cash Expenditure and Financial Package upto COD

Name of the transmission Asset: 80 MVAR Reactor at 765 kV Warangal New Substation

A) Actual Cash Expenditure upto COD					(Rupees in lakh)	
Particulars	Quarter -I	Quarter - II	Quarter - III.....	Quarter - n	Quarter -n (Actual COD)	
Actual Payment to contractors/ suppliers during the quarter	54.20	16.04	-	512.89	5.62	
Cumulative Cash payments at the end of the Quarter	54.20	70.24	70.24	583.13	588.75	
% of cumulative cash Payment on Total Payment up to Actual COD	9%	12%	12%	99%	100%	

B) Financial Package

(Rs. Lakh)						
1	Financial Package as Approved		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	563.40	INR	
Equity-	INR	NA	INR			
Total Equity	INR	NA	INR	241.46	INR	
Debt:Equity Ratio		NA	INR	241.46	INR	-
				70:30		



Additional Capitalization	
	Normative
Add Cap for 2024-25	
Debt	
Equity	
Total	
Add Cap for 2025-26	
Debt	
Equity	
Total	
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. 4300 Lakh including US\$5m at an exchange rate of US\$=Rs. 70.

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: 80 MVAR Reactor at 765 kV Warangal New Substation
COD: 12-Jun-24

(Amount in Rs. Lakh)				
FY 2024-25				
Particulars	Addition into Gross Block as per Books of Account during the year 2	Less: Deductions during the year towards 3	Add: Discharge of earlier admitted liability	ACE on cash basis for tariff purpose
1				
Freehold Land	-	-	-	-
Leasehold Land	-	-	-	-
Building & Civil Works	-	-	-	-
Furniture & Fixtures	-	-	-	-
Office Equipments	-	-	-	-
Transmission Line	-	-	-	-
Sub-Station	-	-	154.93	154.93
PLCC	-	-	-	-
Total	-	-	154.93	154.93

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



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....					
26 (1) (i)	Expenditure necessary for efficient operation including works required towards projects acquired through NCLT process 5					
Total Under Regulation 26						
Total ACE claimed for tariff		-	-	-	-	-
Total Admitted ACE during Final tariff¹						

Note:

1. In case the true up, provide the ACE allowed in final tariff and enclose the copy of the tariff order(s).
2. Year 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.
3. In case of de-capitalisation of assets details to be furnished in Form 10B.
4. No ACE towards assets individually costing below Rs. 20 lakh shall be claimed by the Petitioner.
5. The capital cost as per books of accounts and liability should be supported by Auditor Certificate.
6. Claim to be substantiated with technical justification and cost benefit analysis.



Financing of Additional Capitalisation

Name of the transmission Asset:

80 MVAR Reactor at 765 kV Warangal New Substation

		(Amount in Rs. Lakh)									
		Actual/Projected					Admitted				
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		154.93	-	-	-	-	-	-	-	-	-
Financing Details											
Loan- 1											
Loan- 2											
Loan-3 and so on											
Total Loan											
Equity											
Internal Resources		154.93	-	-	-	-	-	-	-	-	-
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.


Bhushan Singh
(Petitioner)

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

Name of the transmission Asset: 80 MVAR Reactor at 765 kV Warangal New Substation
COD: 12-Jun-24

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



Calculation of Return on Equity at Normal Rate

Name of the transmission Asset:

80 MVAR Reactor at 765 kV Warangal New Substation

S.No.	Particulars	As on COD of 12.06.2024	2024-25	2025-26	2026-27	2027-28	2028-29
1	2						
	No. of Days in the year		3	4	5	6	7
	No. of days for which tariff claimed		365	365	365	366	365
1	Opening Normative Equity		293	365	365	366	365
2	Less: Adjustment in Equity*	-	194.98	241.46	241.46	241.46	241.46
3	Adjustment during the year	-	-	-	-	-	-
4	Net Opening Equity (Normal)	-	194.98	241.46	241.46	241.46	241.46
5	Add: Increase in Equity due to addition during the year/period						
6	Less: Decrease due to de-capitalisation during the year/period.	194.98	46.48	-	-	-	-
7	Add: Increase due to discharges during the year/period		-	-	-	-	-
8	Closing Normative Equity	194.98	241.46	241.46	241.46	241.46	241.46
9	Average Normative Equity		218.22	241.46	241.46	241.46	241.46
11	Rate of Return on Equity (Base Rate)		15.00%	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%	25.17%
14	Rate of Return on Equity (Pre Tax)		20.04%	20.04%	20.04%	20.04%	20.04%
15	Return on Equity on project cost till Cutoff date (Pre Tax)		35.11	48.40	48.40	48.40	48.40



S.No. 1	Particulars 2	Existing 2023-24 3	2024-25 4	2025-26 5	2026-27 6	2027-28 7	2028-29 8
1.1	Equity as on COD/Admitted equity		194.98	241.46	241.46	241.46	241.46
1.2	Notional Equity for Add Cap		46.48	-	-	-	-
1.3	Total Equity		241.46	241.46	241.46	241.46	241.46
1.4	Return on Equity		35.11	48.40	48.40	48.40	48.40
	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.

P. K. K. K.
(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: 80 MVAR Reactor at 765 kV Warangal New Substation

Exchange Rate on date/s of infusion:

S. No.	Financial Year	Year 1				Year 2				Year 3 and so on			
		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:

80 MVAR Reactor at 765 kV Warangal New Substation

Particulars 1	Package1 2	Package2 3	Package3 4	Package4 5	Package5 6	Remarks 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:

1. Source of loan means the agency from whom the loan has been taken such as WB, ADB, WMB, PNB, SBI, ICICI, IFC, PFC etc.
2. Currency refers to currency of loan such as US\$, DM, Yen, Indian Rupee etc.
3. Details are to be submitted as on 31.03.2024 for existing assets and as on COD for the remaining assets.
4. 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.
5. 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
6. Interest type means whether the interest is fixed or floating.
7. 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
8. Margin means the points over and above the floating rate.
9. At times caps/floor are put at which the floating rates are frozen. If such a condition exists, specify the limits.
10. Moratorium period refers to the period during which loan servicing liability is not required.
11. Repayment period means the repayment of loan such as 7 years, 10 years, 25 years etc.
12. Repayment frequency means the interval at which the debt servicing is to be done such as monthly, quarterly, half yearly, annual, etc.
13. Where there is more than one drawl/repayment for a loan, the date & amount of each drawl/repayment may also be given separately.
14. If the repayment installment amount and repayment date cannot be worked out from the data furnished above, the repayment schedule to be furnished separately.
15. In case of Foreign loan, date of each drawl & repayment of principal and interest along with exchange rate at that date may be given.
16. Base exchange rate means the exchange rate as on 31.03.2024 or as on COD whichever is later.
17. In case of hedging, specify details like type of hedging, period of hedging, cost of hedging, etc.
18. At the time of truing up rate of interest with relevant reset date (if any) to be furnished separately
19. 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



Petitioner

PART-III
FORM- 9C

Calculation of Weighted Average Rate of Interest on Actual Loans

Name of the transmission Asset:

80 MVAR Reactor at 765 kV Warangal New Substation

(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
1	Inter-Company Deposit						
	Net loan - Opening						
	Add: Drawal(s) during the Year		54.20	54.20	54.20	54.20	54.20
	Less: Repayment (s) of Loans during the year		-	-	-	-	-
	Net loan - Closing		-	-	-	-	-
	Average Net Loan		54.20	54.20	54.20	54.20	54.20
	Rate of Interest on Loan on derived basis based on interest paid divided by Average of Opening and Closing Balance of Loan		54.20	54.20	54.20	54.20	54.20
	Interest on loan		9.70%	9.70%	9.70%	9.70%	9.70%
			5.26	5.26	5.26	5.26	5.26
2	Inter-Company Deposit						
	Net loan - Opening						
	Add: Drawal(s) during the Year		509.20	509.20	509.20	509.20	509.20
	Less: Repayment (s) of Loans during the year		-	-	-	-	-
	Net loan - Closing		-	-	-	-	-
	Average Net Loan		509.20	509.20	509.20	509.20	509.20
	Rate of Interest on Loan on derived basis based on interest paid divided by Average of Opening and Closing Balance of Loan		509.20	509.20	509.20	509.20	509.20
	Interest on loan		9.70%	9.70%	9.70%	9.70%	9.70%
			49.39	49.39	49.39	49.39	49.39
3	Total Loan						
	Net loan - Opening						
	Add: Drawal(s) during the Year		563.40	563.40	563.40	563.40	563.40
			-	-	-	-	-



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.

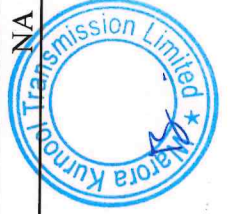
Petitioner

**PART-III
FORM- 9A**

Details of Project Specific Loans

Name of the transmission Asset: 80 MVAR Reactor at 765 kV Warangal New Substation

Particulars 1	Package 1 2
Source of Loan ¹	ICD
Currency ²	INR
Amount of Loan sanctioned	563.40
Amount of Gross Loan drawn upto 31.03.2024/COD ^{3,4,5,13,15}	
Interest Type ⁶	9.70%
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:

1. Source of loan means the agency from whom the loan has been taken such as WB, ADB, WMB, PNB, SBI, ICICI, IFC, PFC etc.
2. Currency refers to currency of loan such as US\$, DM, Yen, Indian Rupee etc.
3. Details to be submitted as on 31.03.2024 for existing assets and as on COD for the remaining assets.
4. 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.
5. 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.
6. Interest type means whether the interest is fixed or floating.
7. 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.
8. Margin means the points over and above the floating rate.
9. At times caps/floor are put at which the floating rates are frozen. If such a condition exists, specify the limits.
10. Moratorium period refers to the period during which loan servicing liability is not required.
11. Repayment period means the repayment of loan such as 7 years, 10 years, 25 years etc.
12. Repayment frequency means the interval at which the debt servicing is to be done such as monthly, quarterly, half yearly, annual, etc.
13. Where there is more than one drawl/repayment for a loan, the date & amount of each drawl/repayment may also be given separately
14. If the repayment installment amount and repayment date cannot be worked out from the data furnished above, the repayment schedule to be furnished separately.
15. In case of Foreign loan, date of each drawl & repayment of principal and interest along with exchange rate at that date may be given.
16. Base exchange rate means the exchange rate as on 31.03.2024 or as on COD whichever is later.
17. In case of hedging, specify details like type of hedging, period of hedging, cost of hedging, etc.
18. At the time of truing up rate of interest with relevant reset date (if any) to be furnished separately
19. 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.



**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: 80 MVAR Reactor at 765 kV Warangal New Substation

Exchange Rate at COD/31.03.2024 whichever is later

Financial Year (Starting from COD)		Year 1				Year 2 and so on			
	1	2	3	4	5	6	7	8 ^s	9
S.No.	Particular	Date	Amount (Foreign Currency)	Exchange Rate	Amount (Rs.)	Date	Amount (Foreign Currency)	Exchange Rate	Amount (Rs.)
	Currency1 ¹								
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								
	Currency2 ¹								
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								



	Currency ³ & 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 ate the date of each drawl to be given.
³ Furnish details of hedging, in case of mare 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.



PART-III
FORM-9D

Loans in Foreign Currency

Name of the transmission Asset: 80 MVAR Reactor at 765 kV Warangal New Substation

Particulars	Existing 2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
1	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)						



Particulars	Existing 2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
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						
<i>Loan repayment effective from (date to be indicated)</i>						
Foreign Loan-3 (USD in Lakh) Exchange rate						
....						
....						

Petitioner



PART-III
FORM-9E

Calculation of Interest on Normative Loan

Name of the transmission Asset:

80 MVAR Reactor at 765 kV Warangal New Substation

		(Amount in Rs. Lakh)					
S.No.	Particulars	As on COD of 12.06.2024	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		293	365	365	366	365
1	Gross Normative loan - Opening		454.94	563.40	563.40	563.40	563.40
2	Cumulative repayment of Normative Loan upto previous year		-	24.64	58.61	92.57	126.54
3	Net Normative loan - Opening		454.94	538.76	504.79	470.83	436.86
4	Addition in Normative loan towards the ACE	454.94	108.45	-	-	-	-
5	Adjustment of Normative Gross loan pertaining to the decapitalised asset.		-	-	-	-	-
6	Normative Repayments of Normative Loan during the year	-	24.64	33.96	33.96	33.96	33.96
7	Adjustment of Cum. repayment pertaining to the decapitalised asset.		-	-	-	-	-
8	Net Normative loan - Closing	454.94	538.76	504.79	470.83	436.86	402.90
9	Average Normative Loan		496.85	521.78	487.81	453.85	419.88
10	Weighted average Rate of Interest of actual Loans		9.70%	9.70%	9.70%	9.70%	9.70%
11	Interest on Normative loan		38.69	50.61	47.32	44.02	40.73

Prudhvi
Prudhvi Transmission Limited
(Petitioner)

PART-III
FORM- 10

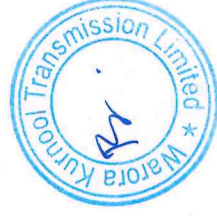
Calculation of Depreciation Rate on original project cost

Name of the transmission Asset:

80 MVAR Reactor at 765 kV Warangal New Substation

(Amount in Rs. Lakh)

Sl. no.	Name of the Assets ¹	Gross Block as on 12.06.2024	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	649.92	154.93	804.85	4.22%	24.64
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	649.92	154.93	804.85	4.22%	24.64
	Weighted Average Rate of Depreciation (%)					4.22%



PART-III
FORM- 10

Calculation of Depreciation Rate on original project cost

Name of the transmission Asset:

80 MVAR Reactor at 765 kV Warangal New Substation

Sl. no.	Name of the Assets ¹	Gross Block as on 31.03.2025	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	804.85	-	804.85	4.22%	33.96
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	804.85	-	804.85	4.22%	33.96
	Weighted Average Rate of Depreciation (%)					4.22%



PART-III
FORM- 10

Calculation of Depreciation Rate on original project cost

Name of the transmission Asset:

80 MVAR Reactor at 765 kV Warangal New Substation

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	804.85	-	804.85	4.22%	33.96
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	804.85	-	804.85	4.22%	33.96
	Weighted Average Rate of Depreciation (%)					4.22%



PART-III
FORM- 10

Calculation of Depreciation Rate on original project cost

Name of the transmission Asset:

80 MVAR Reactor at 765 kV Warangal New Substation

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	804.85	-	804.85	4.22%	33.96
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	804.85	-	804.85	4.22%	33.96
	Weighted Average Rate of Depreciation (%)					4.22%



PART-III
FORM- 10

Calculation of Depreciation Rate on original project cost

Name of the transmission Asset:

80 MVAR Reactor at 765 kV Warangal New Substation

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	804.85	-	804.85	4.22%	33.96
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	804.85	-	804.85	4.22%	33.96
	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: 80 MVAR Reactor at 765 kV Warangal New Substation

Sl. No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
(1)	(2)	(4)	(5)	(6)	(7)	(8)
1	Opening Capital Cost	-	804.85	804.85	804.85	804.85
2	Closing Capital Cost	804.85	804.85	804.85	804.85	804.85
3	Average Capital Cost	402.43	804.85	804.85	804.85	804.85
4	Freehold land	-	-	-	-	-
5	Rate of depreciation	4.22%	4.22%	4.22%	4.22%	4.22%
6	Depreciable value	724.37	724.37	724.37	724.37	724.37
7	Balance useful life at the beginning of the period					
8	Remaining depreciable value	724.37	699.73	665.76	631.80	597.83
9	Depreciation (for the period)	24.64	33.96	33.96	33.96	33.96
10	Depreciation (annualised)	24.64	33.96	33.96	33.96	33.96
11	Cumulative depreciation at the end of the period	24.64	58.61	92.57	126.54	160.50
12	Less: Cumulative depreciation adjustment on account of de-capitalisation	-	-	-	-	-
13	Net Cumulative depreciation at the end of the period	24.64	58.61	92.57	126.54	160.50

P. S. S. S.
(Petitioner)

PART-III
FORM- 10B

Statement of De-capitalisation

80 MVAR Reactor at 765 kV Warangal New Substation

Name of the transmission Asset:

COD :

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



Petitioner

**PART-III
FORM- 11**

Calculation of Interest on Working Capital

Name of the transmission Asset:

80 MVAR Reactor at 765 kV Warangal New Substation

Sl. No.	Particulars	As on 01-04-2024 / as on COD whichever is later	(Amount in Rs. Lakh)				
			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		293	365	365	366	365
1	O & M Expenses - one month		1.45	1.90	1.99	2.09	2.21
2	Maintenance Spares 15% of O&M Expenses		2.61	3.42	3.59	3.77	3.97
3	Receivables equivalent to 45 days of AFC		14.56	19.57	19.30	18.99	18.81
4	Total Working Capital		18.62	24.89	24.89	24.85	24.99
5	Reference rate as on 01.04.2024 or as on 01st April of the COD year, whichever is later.		11.90%	11.90%	11.90%	11.90%	11.90%
6	Interest on Working Capital		2.22	2.96	2.96	2.96	2.97


Prudhvi
(Petitioner)

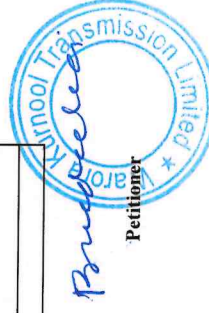
PART-III
FORM- 12

Details of time over run

Name of the transmission Asset: 80 MVAR Reactor at 765 kV Warangal New Substation

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	Months			
1	Notification under Section								
2	Award of Forest Proposal								
3	Land acquisition								
4	Award of tower supply &								
5	Tower Supply, Supply of								
6	Supply of Conductor								
7	Supply of Insulators								
8	Tower Foundation & erection								
9	Stringing								
10	Testing & Commissioning								

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



PART-III
FORM- 12A

Incidental Expenditure during Construction

Name of the transmission Asset: 80 MVAR Reactor at 765 kV Warangal New Substation

Date of Commercial Operation _____

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					

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



**PART-III
FORM- 12B**

Draw Down Schedule for Calculation of IDC & Financing Charges
Name of the Transmission A 80 MVAR Reactor at 765 kV Warangal New Substation

Interest during Construction: Foreign Loan

S. No.	Draw Down	Quarter 1			Quarter 2			Quarter n (COD)		
		Particulars	Quantum in Foreign Currency	Exchange rate on Draw down date	Amount in Indian Rupees (Rs. Lakh)	Quantum in Foreign Currency	Exchange rate on Draw down date	Amount in Indian Rupees (Rs. Lakh)	Quantum in Foreign Currency	Exchange rate on Draw down date
1	Loans									
1.1	Foreign Loans									
1.1.1	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 if any	Capitalised IDC Up to COD
1	Loan 1	Project	Fixed	Quarterly		29-May-23	54.20	8	9	10 = 9 - 6	11	12	13 = 11 - 12
2	Loan 2	Project	Fixed	Quarterly		12-Jan-24	509.20	9.70%	12-Jun-24	152.00	20.57	-	5.47
Total							563.40			532.00			26.04

- 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 :

80 MVAR Reactor at 765 kV Warangal New Substation

Claimed / Admitted COD:

Cut-off Date of the Asset:

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													
GIS/S-Brown field							5.00%						
Communication System							7.00%						
Static Synchronous Compensator							3.50%						
Initial spare as per Books of Account							6.00%						
Un-Discharge liabilities included above													
Total Capitalized initial spare													
Total Un-Discharge liabilities included above													

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.

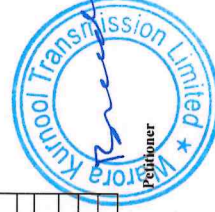
3) Total cost should be excluding IDC and IEDC.

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 cut-off date			plant and machinery cost as on cut-off Date for the purpose of initial spare l = h + i + j + k
		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.



PART-III
FORM-14Non -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						

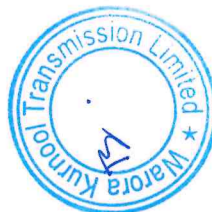
Note: To be submitted at the time of truing up



PART-III
FORM-15

Summary of issue involved in the petition

1	Name of the Petitioner	Warora Kurnool Transmission Limited
2	Petition Category	Transmission
3	Tariff Period	2024-29
4	Name of the Project	80 MVAR Reactor at 765 kV Warangal New
5	Investment Approval date	
6	SCOD of the Project	16-Nov-22
7	Actual COD of the project	12-Jun-24
8	Whether entire scope is covered in the present petition.	Yes
9	No. of Assets covered in instant petition	1
10	No. of Assets having time over run	Nil
11	Estimated Project Cost as per LA	
12	Is there any REC? if so, provide the date	No
13	Revised Estimated Project Cost (if any)	Nil
14	Completion cost for all the assets covered in the instant petition	Yes
15	No. of Assets covered in instant petition and having cost overrun	Yes
16	Prayer in brief	Approval of Tariff for 80 MVAR Reactor
17	Key details and any Specific issue involved	



18	Respondents	
	Name of Respondents	
	Tamil Nadu Generation and Distribution Corporation Limited (TANGEDCO)	
	Southern Distribution Company of Andhra Pradesh Limited (APSPDCL)	
	Eastern Distribution Company of Andhra Pradesh Limited (APEPDCL)	
	Southern Distribution Company of Telangana Limited (TSSPDCL)	
	Northern Distribution Company of Telangana Limited (TSNPDCL)	
	Bangalore Electricity Supply Company Limited (BESCOM)	
	Gulbarga Electricity Supply Company Limited (GESCOM)	
	Hubli Electricity Supply Company Limited (HESCOM)	
	Mangalore Electricity Supply Company Limited (MESCOM)	
	Chamundeshwari Electricity Supply Company Limited (CESCOM)	
	Kerala Electricity Supply Company Limited (KSEB)	
	Electricity Department, Govt. Of Puducherry	
	Electricity Department, Government of Goa	
	Central Transmission Utility of India Limited	



**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

Warora Kurnool Transmission Limited
2024-29

Name of the Transmission Project

80 MVAR Reactor at 765 kV Warangal New Substation
12-Jun-24

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	6/12/2024	3/31/2028	649.92	154.93	-	-	-	-
				Total Capital Cost Claimed					804.85

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	118.06	158.74	156.57	154.47	152.55
Total AFC for all the Assets		118.06	158.74	156.57	154.47	152.55

