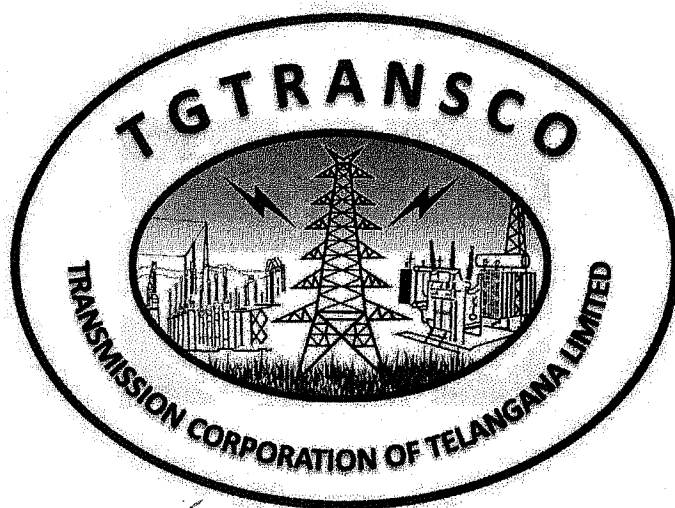


**Transmission Corporation of Telangana Limited
(State Transmission Utility)**



**Aggregate Revenue Requirement (ARR) Filing for
Proposed Tariff (FPT) under Multi Year Tariff (MYT)
Frame Work for Annual Tariff Petition for
FY: 2025-26**

January, 2025

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**BEFORE THE HONOURABLE TELANGANA STATE ELECTRICITY
REGULATORY COMMISSION**

AT IT'S OFFICE AT VIDYUT NIYANTRAN BHAVAN, GTS COLONY, HYDERABAD

FILING NO. _____/2025

CASE NO. _____/2025

In the matter of:

Filing of the Aggregate Revenue Requirement (ARR), Filing for Proposed Tariff (FPT) under Multi-Year Tariff Framework (MYT) for Annual petition for FY: 2025-26 for its Transmission Business under Section 26(5) of the Andhra Pradesh Electricity Reform Act, 1998 and under Part VII (Section 61 to Section 64) of the Electricity Act, 2003 (hereinafter referred to as 'the Act') read with the TGERC Multi Year Tariff (MYT) Regulation No. 2 of 2023 and relevant Guidelines as adopted by TGERC till date, by the Transmission Corporation of Telangana Limited ('TGTransco' or 'the Licensee') as the Transmission Licensee and as SLDC operator.

In the matter of:

TRANSMISSION CORPORATION OF TELANGANA LIMITED

... Applicant

**AFFIDAVIT OF APPLICANT VERIFYING THE APPLICATION
ACCOMPANYING FILING OF AGGREGATE REVENUE REQUIREMENT
(ARR), FILING FOR PROPOSED TARIFF (FPT) UNDER THE MULTI-YEAR
TARIFF FRAMEWORK (MYT) FOR ANNUAL PETITION FOR FY: 2025-26
FOR TRANSMISSION BUSINESS OF TGTRANSCO**

I, D.Krishna Bhaskar, S/o Sri V.Bhaskar, working for gain at the Transmission Corporation of Telangana Limited do solemnly affirm and say as follows:

1. I am the Chairman and Managing Director of TGTransco, the licensee company operating and controlling the Transmission business & SLDC Activity of electricity in Telangana pursuant to the license granted by the Hon'ble Commission. I am competent and duly authorized by TG Transco to affirm, swear, execute and file this affidavit in the present proceedings.
2. I have read and understood the contents of the accompanying Filing of Aggregate Revenue Requirement. The statements made in the paragraphs of the accompanying application now shown to me are true to my knowledge, derived from the official records made available to me and are based on information and advice received which I believe to be true and correct.


DEPONENT

VERIFICATION:

I, the above named Deponent solemnly affirm at Hyderabad on this day of 16th January, 2025 that the contents of the above affidavit are true to my knowledge, no part of it is false and nothing material has been concealed there from.


DEPONENT

Solemnly affirmed and signed before me.



COMPANY SECRETARY
TGTRANSCO/HYDERABAD
RAVI KUMAR SULUVA
BCA, FCS
COMPANY SECRETARY, TGTRANSCO,
VIDYUT SOUDHA, HYDERABAD-500 082

**BEFORE THE HONOURABLE TELANGANA STATE ELECTRICITY
REGULATORY COMMISSION**

AT IT'S OFFICE AT VIDYUT NIYANTRAN BHAVAN, GTS COLONY, HYDERABAD

FILING NO. _____/2025

CASE NO. _____/2025

In the matter of:

Filing of the Aggregate Revenue Requirement (ARR), Filing for Proposed Tariff (FPT) under the Multi-Year Tariff Framework (MYT) for Annual petition for FY: 2025-26 for its Transmission Business under Section 26(5) of the Andhra Pradesh Electricity Reform Act, 1998 and under Part VII (Section 61 to Section 64) of the Electricity Act, 2003 (hereinafter referred to as 'the Act') read with the TGERC Multi Year Tariff (MYT) Regulation No. 2 of 2023 and relevant Guidelines as adopted by TGERC till date, by the Transmission Corporation of Telangana Limited ('TGTransco' or 'the Licensee') as the Transmission Licensee and as SLDC operator.

In the matter of:

TRANSMISSION CORPORATION OF TELANGANA LIMITED ... Applicant

The Applicant respectfully submits as under: -

With the enactment of Andhra Pradesh Reorganization Act 2014, the Telangana State has been carved out from the undivided Andhra Pradesh State as the 29th state of the Republic India on 02.06.2014.

1. Consequently, Transmission Corporation of Telangana Limited was established as TRANSCO for Telangana State, vide G.O Ms. No 26 dt. 29.05.2014 by Government of Andhra Pradesh. As such, TGTRANSCO was declared as the deemed transmission licensee, by the erstwhile APERC (i.e., the Joint State

Electricity Regulatory Commission to AP & TS) vide proceedings No. APERC/Secy/160/2014, dt. 11.07.2014 under Licence No. 1 of 2014 with effective from 23.06.2014, the date of notification of Transco by the Govt. of TG as the State Transmission Utility (STU) for Telangana State.

2. The erstwhile APERC issued Regulation No. 3 of 2014 (Reorganization) Regulation, 2014 on 26.05.2014 consequent to notification of the Andhra Pradesh Reorganization Act, 2014 by Government of India on 01.03.2014, where in clause 3 of the Regulation says that, 'All the regulations as well as their supplementary regulations / amendments, rules, orders, proceedings, guidelines, memos, notifications, other instruments issued immediately before 2nd June 2014 by the APERC for the conduct of business and other matters shall fully and completely apply to the whole of the states of Telangana and Andhra Pradesh and shall similarly apply in relation to all matters falling within the jurisdiction of the Commission until they are altered, repealed or amended by the respective State Electricity Regulatory Commissions'.
3. In accordance with the above regulation, all the regulations framed by erstwhile APERC will continue to apply for the state of Telangana. Subsequently, TGERC vide Telangana Official Gazette has issued its first regulation, Regulation No. 1 of 2014 (adoption of previously subsisting Regulations, Decisions, Directions, or Orders, Licenses and Practice Directions) wherein clause 2 says that, " All regulations, decisions, directions or orders, all the licenses and practice directions issued by the erstwhile Andhra Pradesh Electricity Regulatory Commission (Regulatory Commission for States of Andhra Pradesh and Telangana) as in existence as on the date of the constitution of the Telangana State Electricity Regulatory Commission and in force, shall mutatis-mutandis apply in relation to the stakeholders in electricity in the State of Telangana including the Commission and shall continue to have effect until duly altered, repealed or amended, any of Regulation by the Commission with effect from the date of notification as per Notification issued by the Government of Telangana in G.O.Ms. No. 3 Energy (Budget) Department, dt. 26-07-2014 constituting the Commission".

4. This filing for Aggregate Revenue Requirement (ARR) and Filing for Proposed Tariff (FPT) under Multi Year Tariff (MYT) period FY:2024-25 to FY: 2028-29 (i.e. 5th control period, filed in terms of the TGERC MYT (Multi Year Tariff) Regulation No. 2 of 2023 dated 30.12.2023 and in accordance with the provisions of the Andhra Pradesh Electricity Reforms Act, 1998, the Electricity Act, 2003, the License No. 1 of 2000 granted by the Hon'ble APERC to APTransco on 31st January, 2000 and License No. 1 of 2014 granted by the Hon'ble TGERC to TGTransco on 11th July, 2014 and other Guidelines and Regulations including the regulations pertaining to Transmission, SLDC, Open Access, etc., issued by the Hon'ble Commission till date.
5. The APERC in the MYT Tariff Order dated 09.05.2014 issued for 3rd Control Period directed that the same Tariff Order will be applicable for both States post bifurcation till new Tariff Order issued for Telangana by the new State ERC. Accordingly, TGTRANSCO adopted the APERC Order dt. 09.05.2014, from FY:2014-15 to FY:2016-17, on the basis of power allocation ratio @53.89% to TSDISCOMs, notified by GoAP vide G.O.Ms.No.20, Dt.08.05.2014, till this Hon'ble Commission issued Tariff Order Dt. 01.05.2017 (for FY:2017-18 & FY: 2018-19) in mid-term review of 3rd Control Period based on filings and annual accounts and statutory/A.G. Audit remarks on TGTRANSCO during the period FY:2014-15 (02.06.2014 to 31.03.2015) & FY:2015-16.
6. The Hon'ble TGERC issued a) MYT order dated 20.03.2020 for 4th Control Period (FY:2019-20 to FY:2023-24), b) Orders in TGTRANSCO's filings for Annual Performance Review (True up) filed for FY:2019-20, FY:2020-21 FY:2021-22 and FY:2022-23 in compliance to Directive No. 3 issued by the Hon'ble Commission in the 4th MYT Order issued above and c) MYT order dated 28.10.2024 for 5th Control period (FY:2024-25 to FY:2028-29) for Transmission Business for TGTransco filings for ARR& FPT.
7. While filing the present petition under MYT for filing Aggregate Revenue Requirement and Filings for Proposed Tariff for Annual petition for FY: 2025-26 for Transmission business, TGTransco has endeavored to comply with the

various applicable legal and regulatory directions and stipulations including the directions of the Hon'ble Commission in terms of the TGERC Multi Year Tariff (MYT) Regulation No. 2 of 2023 and relevant Guidelines as adopted vide TGERC (Adoption) Regulation No. 1 of 2014.

8. Based on the information available, the Applicant has made bonafide efforts to comply with the directions of the Hon'ble Commission and discharge its obligations to the best of its abilities. However, should any further material become available in the near future, the Applicant reserve the right to file such additional information and consequently amend / revise this application.
9. TG TRANSCO submits the following in this petition:
 - (I) True up Analysis of Performance for FY 2023-24 of 4th Multi Year Tariff Control Period as per Regulation 5 of 2005;
 - (II) Aggregate Revenue Requirement (ARR) for Transmission Business for FY 2025-26 as per Regulation 2 of 2023.
 - (III) Proposal of Transmission Tariff and Charges for FY 2025-26 as per Regulation 2 of 2023 (Annexed the MYT Regulatory Forms 1 to 15).

9 (I) True up Analysis of Performance for FY 2023-24:

- a) TGTRANSCO has been providing Transmission Service in the State of Telangana and collecting the Transmission Charges from the Customers as per the Tariff Order issued for 5th Multi Year Tariff Control Period by Hon'ble TGERC for FY 2024-25 to FY 2028-29.
- b) In accordance with Regulation No. 5 of 2005, TRANSMISSION CORPORATION OF TELANGANA LIMITED (TG TRANSCO) has filed the True up for corrections for Controllable and Uncontrollable items and as well as sharing of gains/losses for FY 2023-24 of the 4th MYT control period.
- c) The licensee is submitting the following as part of the correction filings for FY 2023-24:

- Statement of variance with the Tariff Order for each item in the Aggregate Revenue Requirement and reasons for variation.
- Actual Aggregate Revenue Requirement (ARR) for the year computed based on actual investments, actual interest and other costs.
- The Surplus/Deficit for the year arrived based on actual revenue for the respective year.

Aggregate Revenue Requirement (ARR) and Surplus/ (Deficit):

The Total Aggregate Revenue Requirement (ARR) approved by Hon'ble Commission for the year is Rs.4286.14 Crores, against actual ARR of Rs.3476.80 Crores. Whereas, the company has received Rs.4558.37 Crores by way revenue including other Income. Thereby the company has earned a Surplus of an amount of Rs.1081.56 Crores during FY.2023-24.

Table a

(Rs. in Crores)

Particulars	FY 2023-24		
	Tariff Order	Actuals	Deviation
Expenditure	2696.53	2481.10	-215.43
O&M Costs	1197.51	1325.34	127.83
O&M Carrying Costs	0.00	0.00	0.00
Depreciation	1378.79	1073.34	-305.45
Taxes	120.23	82.42	-37.81
Special Appropriation	0.00	0.00	0.00
Other Expenses	0.00	0.00	0.00
Expenses Capitalized	176.98	189.28	12.30
O&M Expenses Capitalized	176.98	189.28	12.30
Net Expenditure	2519.55	2291.82	-227.73
RoCE	1766.59	1184.99	-581.60
Gross ARR	4286.14	3476.80	-809.34
Non-Tariff Income	477.71	440.69	-37.02
Revenue from Tariff	3808.43	4117.68	309.25
Total Revenue	4286.14	4558.37	272.23
Surplus/(Deficit)	0.00	1081.56	1081.56

As can be seen from above statement :

- a) Reasons for Increase in the O&M Expenses for FY 2023-24 are as follows:

The O&M cost as per Tariff Order is estimated amount computed based O&M approved norms. Whereas, Company has submitted the actual O&M cost as per audited accounts of FY 2023-24.

Capitalisation of Expenses have been decreased due to decrease in Capitalisation during the year.

- b) Actual depreciation amount has been decreased due to i) Change in Depreciation methodology and ii) less Capitalisation during the year.

Depreciation has been arrived as per the CERC depreciation rates under straight line method on the opening assets and also on additions to OCFA during the year proportionately in accordance with CERC regulations 2019.

Hon'ble Commission is further requested to consider the depreciation on the addition during the Year from the date of Capitalisation as per CERC Regulation No.33, Vide notification No.L-1/236/2018/CERC dt: 07.03.2019

- c) The Hon'ble Commission is humbly prayed to consider the actual Income Tax amount of Rs.41.12 Crores for FY 2022-23 and adjust the same in the total true-up amount to be approved for the next Control Period.
- d) The net increase in revenue of Rs. 272.84 crores mainly due to revenue from inter-state transmission Charges (ISTS) of Rs. 265.58 crores approved by CERC.
- e) It could be seen from the above that, (i) the net expenditure of the Company has been decreased by Rs. 227.73 Crores mainly due to decrease in depreciation on change of methodology from MoP to CERC rates. (ii) ROCE has been decreased by Rs.581.60 due to reduction in RRB and thereby the Gross ARR decreased to the extent of Rs. 809.34 Crores. (iii) the total revenue of the Company increased by Rs.272.23 Crores on account of revenue from Inter-State Transmission charges for Rs. 265.58 crores. In view of the above, the Company has earned a surplus of Rs.1081.56 Crores for FY 2023-24.
- f) The Total Aggregate Revenue Requirement (ARR) approved by Hon'ble Commission for the year is Rs.4286.14 Crores, against actual ARR of Rs.3476.80 Crores. Whereas, the company has received Rs.4558.37 Crores by way revenue including other Income. Thereby the company has earned a Surplus of an amount of Rs.1081.56 Crores during FY.2023-24. Further, the Licensee has considered total surplus of Rs.1608.87 Crores for 4th MYT Control period, duly accepting the Surplus/Deficit as per the APR Orders for the FY 2019-20, FY 2020-21, FY 2021-22 and FY 2022-23 and FY 2023-24. The licensee has proposed for adjustment of Rs.1608.87 Crores in FY 2025-26 as a Special Appropriation towards balance amount of True up for 4th MYT Control Period (FY 2019-20 to FY 2023-24), the difference passed on to the customers .

- g) **Impact of True-Up for prior period:** Based on the Annual Performance Review orders and Audited Accounts, Pass-through for 4th Control Period is as follows:

Table b

(Rs. in crores)

SI.No	Financial Year	Particulars	Amount
1	2019-20	Deficit as per APR order dated 02.09.2021	(64.88)
2	2020-21	Surplus as per APR order dated 07.04.2022	173.94
3	2021-22	Deficit as per APR order dated 26.05.2023	(160.80)
4	2022-23	Surplus as per APR order dated 07.06.2024 (Note.1)	579.05
5	2023-24	Surplus (as per Audited Accounts)	1081.56
Total			1608.87

It could be seen from the above that the net pass through for the 4th MYT Control Period is arrived at Rs. 1608.87 crores and the same was considered as special appropriation for FY 2025-26.

The True-Up for 4th Control period is arrived at Rs. 1,608.87 Crores. The impact of True-Up above for 4th Control Period has been arrived before adjustment of disallowed income tax of Rs. 41.12 Crores as per APR for FY 2022-23. The disallowed income tax is now being claimed as per para iii(b) of true-up for FY 2023-24 under the heading “Taxes on Income for FY 2022-23” of this petition.

- ii) **Technical Performance Analysis:** A brief analysis of the key elements of licensee’s business is as follows:

- a) **Loss Reduction:** The licensee has undertaken a number of loss reduction measures such as system improvement, reactive power compensation etc., and would continue to do so with an aim to further reduce the transmission losses. The true up of transmission losses approved vs actuals is given below:

Table: c Actual Transmission Loss during 4th Control Period (in %)

Particulars		2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
Transmission Loss (%)	Approved	3.09	2.78	2.71	2.64	2.57	2.50
	Actual	2.85	2.65	2.57	2.47	2.52	2.30

- b) **Transmission Network Availability:** The transmission network availability has been maintained at 99.9% throughout the 4th Control Period i.e., in FY:2019-20, FY:2020-21, FY:2021-22, FY 2022-23 and FY:2023-24.

9(II).Aggregate Revenue Requirement (ARR) for Transmission Business for Annual petition for FY: 2025-26 as per Regulation 2 of 2023.

a) Capital Investment plan during the Control Period:

Capital Investments proposed for execution of 400kV Schemes including evacuation schemes, schemes consisting of 220kV & 132kV Sub Stations and Lines, Lift Irrigation Schemes and Renovation and modernization schemes during 5th Control period are as follows:

Capital Expenditure and Capitalisation for FY 2025-26:

Table: d **(Rs. in Crores)**

Sl. no	Particulars	FY 2024-25			FY 2025-26		
		MYT/Tariff Order	Apr - Mar	variation	MYT/Tariff Order	Projected	Variation
1	Opening Capital Works in Progress	2,475.03	4,223.33	-	2,991.73	3,801.51	809.78
2	Capital Expenditure during the year	2,864.16	2,179.43	-684.73	1,029.73	5,032.55	4,002.82
3	Capitalisation during the year	2,347.46	2,601.25	253.79	1,769.60	7,120.66	5,351.06
4	Closing Capital Works in Progress	2,991.73	3,801.51	-	2,251.86	1,713.39	-538.47

Note: Capital Expenditure for FY 2024-25 and FY 2025-26 is inclusive of Interest during construction (IDC) & O&M Expenses capitalized for respective years.

b) The following is the position of Aggregate Revenue Requirement for Annual petition for FY: 2025-26:

Aggregate Revenue Requirement: The following is the position of Aggregate Revenue Requirement for FY 2025-26:

Summary sheet for the control period:

Table : e

(Rs. in crores)

S. No.	Particulars	FY 2024-25			FY 2025-26		
		MYT/Tariff Order	Apr-Mar	Variation	MYT/Tariff Order	Projected	Variation
1	Operation & Maintenance Expenses	1,299.52	1,232.58	-66.94	1,377.19	1,303.41	-73.78
2	Depreciation	818.35	773.2	-45.15	863.33	920.9	57.57
3	Interest and finance charges on loan	978.43	939.71	-38.72	986.85	1,137.49	150.64
4	Interest on Working Capital	75.09	73.33	-1.76	81.67	83.34	1.67
5	Return on Equity	432.30	545.26	112.96	628.71	687.51	58.80
6.1	Less: Non-Tariff Income	464.70	389.03	-75.67	515.70	443.27	-72.43
6.2	Income from Open Access Charges		-			-	
6.3	Income from Other Business		-			-	
7.1	Less: Impact of surplus pass-through for 4 th Control Period					1,608.87	1,608.87
Aggregate Revenue Requirement		3,138.99	3,175.04	36.05	3,422.05	2,080.50	-1,341.55

c) Projected Transmission Losses(in %) for the FY 2025-26 of 5th Control Period:

As per the MYT framework, the licensee's forecast of loss reduction trajectory over the five-year Control Period of 5th Control Period is as shown below.

Table: f Projected Transmission Losses (in %) for the FY 2025-26 of 5th Control Period

Particulars	2024-25 (Proj)	2025-26 (Proj)
Transmission Loss Range	2.48	2.46
	+/- 0.2	+/- 0.2

d) Projected Transmission System Availability (in %) for FY 2025-26 of the 5th Control Period :

Table: g Projected Transmission System Availability (in %) for the FY 2025-26 of 5th Control Period

Particulars	2024-25 (Proj)	2025-26 (Proj)
Transmission System Availability	99.9	99.9

III. Proposal of Revised Transmission Tariff for FY 2025-26:

The Transmission charges are computed by dividing the net ARR of FY 2025-26 with the total contracted capacity of the year. As such, the following is the Transmission Charges Proposed for FY 2025-26.

Transmission Charges Proposed for FY 2025-26:

Table : h

Particulars	FY 2025-26
	(Rs.)
ARR of Transmission Business (Rs. in crores)	2,080.50
Transmission Contracted Capacity (MW)	23,544.83
Transmission Capacity ^{charges} (Rs/kW/month)	73.64

10. The current ARR, FPT for Annual Tariff petition for FY 2025-26 of the fifth Control Period (FY 2024-25 to FY 2028 -29) being filed has been discussed and approved by the Board of Directors of TGTransco and Sri D. Krishna Bhaskar, Chairman and Managing Director of TGTransco has been authorized to execute and file the said ARR & FPT for Annual Tariff Petition on behalf of TGTransco. Accordingly, the current ARR& FPT for Annual Tariff Petition is verified and signed by and backed by the affidavit of Sri D. Krishna Bhaskar, Chairman and Managing Director.
11. In the aforesaid facts and circumstances, the Applicant requests the Hon'ble Commission:
 - a. to take the accompanying Annual Tariff petition for filing Aggregate Revenue Requirement and Filings for Proposed Tariff for the FY 2025-26 of 5th control period i.e., FY: 2024-25 to FY:2028-29 for Transmission business by TGTransco on record,
 - b. the Hon'ble TGERC for kind consideration of Income Tax paid for the FY:2022-23, in line with previous APR Orders, and adjust the True-up accordingly in ensuing ATP Orders for 5th Control Period, as prayed for in the Review Petition to O.P. no. 02 of 2024;
 - c. to grant suitable opportunity to TGTransco within a reasonable time frame to file additional material information, if required;

- d. to grant the waivers prayed for with respect to such filing requirements as TGTRANSCO is unable to comply with at this stage, as more specifically detailed and for the reasons set out in the present ARR, FPT for Annual Tariff Petition filing;
- e. to treat the filing as complete in view of substantial compliance as also the specific requests for waivers with justification placed on record;
- f. to consider and approve TGTransco's ARR, FPT for Annual Tariff Petition including all requested regulatory treatments in the filing;
- g. to pass such order, as the Hon'ble Commission may deem fit and proper in the facts and circumstances of the case.

TRANSMISSION CORPORATION OF TELANGANA LIMITED

(APPLICANT)

Through

Place: HYDERABAD

Dated: 16th JANUARY, 2025


D. KRISHNA BHASKAR

CHAIRMAN AND MANAGING DIRECTOR

2 INTRODUCTION

With the enactment of Andhra Pradesh Reorganization Act 2014, the Telangana State has been carved out from the undivided Andhra Pradesh State as the 29th state of the Republic India on 02.06.2014.

Consequently, Transmission Corporation of Telangana Limited was established as TRANSCO for Telangana State, vide G.O Ms. No 26 dt. 29.05.2014 by Government of Andhra Pradesh. As such, TGTRANSCO was declared as the deemed transmission licensee, by the erstwhile APERC (i.e., the Joint State Electricity Regulatory Commission to AP & TS) vide proceedings No. APERC/Secy/160/2014, dt. 11.07.2014 under Licence No. 1 of 2014 with effect from 23.06.2014, the date of notification of Transco by the Govt. of TG as the State Transmission Utility (STU) for Telangana State.

The erstwhile APERC issued Regulation No. 3 of 2014 (Reorganization) Regulation, 2014 on 26.05.2014 consequent to notification of the Andhra Pradesh Reorganization Act, 2014 by Government of India on 01.03.2014, where in clause 3 of the Regulation says that, 'All the regulations as well as their supplementary regulations / amendments, rules, orders, proceedings, guidelines, memos, notifications, other instruments issued immediately before 2nd June 2014 by the APERC for the conduct of business and other matters shall fully and completely apply to the whole of the states of Telangana and Andhra Pradesh and shall similarly apply in relation to all matters falling within the jurisdiction of the Commission until they are altered, repealed or amended by the respective State Electricity Regulatory Commissions'.

In accordance with the above regulation, all the regulations framed by erstwhile APERC will continue to apply for the state of Telangana. Subsequently, TGERC vide Telangana Official Gazette has issued its first regulation, Regulation No. 1 of 2014 (adoption of previously subsisting Regulations, Decisions, Directions, or Orders, Licenses and Practice Directions) wherein clause 2 says that, " All

regulations, decisions, directions or orders, all the licenses and practice directions issued by the erstwhile Andhra Pradesh Electricity Regulatory Commission (Regulatory Commission for States of Andhra Pradesh and Telangana) as in existence as on the date of the constitution of the Telangana State Electricity Regulatory Commission and in force, shall mutatis-mutandis apply in relation to the stakeholders in electricity in the State of Telangana including the Commission and shall continue to have effect until duly altered, repealed or amended, any of Regulation by the Commission with effect from the date of notification as per Notification issued by the Government of Telangana in G.O.Ms. No. 3 Energy (Budget) Department, dt. 26-07-2014 constituting the Commission”.

The APERC in the MYT Tariff Order dated 09.05.2014 issued for 3rd Control Period directed that the same Tariff Order will be applicable for both States post bifurcation till new Tariff Order issued for Telangana by the new State ERC. Accordingly, TGTRANSCO adopted the APERC Order dt. 09.05.2014, from FY: 2014-15 to FY: 2016-17, on the basis of power allocation ratio @53.89% to TSDISCOMs, notified by GoAP vide G.O.Ms.No.20, Dt.08.05.2014, till this Hon’ble Commission issued Tariff Order Dt. 01.05.2017 (for FY:2017-18 & FY: 2018-19) in mid-term review of 3rd Control Period based on filings and annual accounts and statutory/A.G.Audit remarks on TGTRANSCO during the period FY:2014-15 (02.06.2014 to 31.03.2015) & FY:2015-16.

Transmission licensee, TG TRANSCO has to file its Annual Tariff Petition (ATP) before Hon’ble TG ERC as per the Provisions of **Telangana State Electricity Regulatory Commission (Multi Year Tariff) Regulation No.2, 2023** for determining the Transmission Tariff for FY 2025-26. Accordingly, TGTRANSCO is filing its ARR before the Commission in the methodology prescribed by the Commission covering its Capital Investment Plan and ATP for FY 2025-26 as per Regulation No.2 of 2023.

TGTRANSCO submits the following in this petition:

- (I) **True up Analysis of Performance for FY 2023-24 of 4th Multi Year Tariff Control Period vide Regulation 5 of 2005;**
- (II) **Annual Tariff Petition (ATP) for Transmission Business for FY 2025-26 vide Regulation 2 of 2023.**

(III) Proposal of Transmission Tariff and Charges for FY 2025-26 vide Regulation 2 of 2023.

I) True up Analysis of Performance for FY 2023-24:

TG TRANSCO has been providing Transmission Service in the State of Telangana and collecting the Transmission Charges from the Customers as per the Tariff Order issued for 4th Multi Year Tariff Control Period by Hon'ble TGERC for FY 2019-20 to FY 2023-24.

In accordance with Regulation No. 5 of 2005, TRANSMISSION CORPORATION OF TELANGANA LIMITED (TG TRANSCO) has filed the True up for corrections for Controllable and Uncontrollable items and as well as sharing of gains/losses for the FY 2023-24:

The licensee is submitting the following as part of the correction filings for FY 2023-24:

- Statement of variance with the Tariff Order for each item in the Aggregate Revenue Requirement and reasons for variation.
- Actual Aggregate Revenue Requirement (ARR) for FY 2023-24, computed based on actual investments, actual interest and other costs.
- The Surplus/Deficit for FY 2023-24, arrived based on actual revenue for the respective year.

i) Operation and Maintenance (O&M) Expenses: The O&M Expenses includes Employees Cost, Administrative & General Expenses, Repairs & Maintenance Expenses. The O&M Expenses of the licensee are driven by the length of lines in Circuit Kilometers and No. of Sub-Station Bays. The total O&M Expenditure was allocated to Lines and Sub-Stations in the ratio of 30:70.

i. Variance in O&M Expenses:

Table - I

(Rs. in crores)

Particulars	FY 2023-24		
	Tariff Order	Actuals	Deviation
Gross O&M Costs	1197.51	1325.34	127.83
Less: O&M Expenses Capitalised	176.98	189.28	12.30
Net O&M Expenses	1020.53	1136.05	115.52

- Net O&M Expenses for FY 2023-24 have been increased by Rs. 115.52 crores.
- Reasons for Increase in the O&M Expenses for FY 2023-24 are as follows:

- The O&M cost as per Tariff Order is estimated amount computed based O&M approved norms. Whereas, Company has submitted the actual O&M cost as per audited accounts of FY 2023-24.
- Capitalisation of Expenses have been decreased due to decrease in Capitalisation during the year.

ii) **Depreciation:** Depreciation is a claim towards replacement of fixed assets. Depreciation has been calculated for each year on all the fixed assets on straight line method considering the rates notified by CERC for FY 2023-24.

ii. Variance in Depreciation:

Table - II

(Rs. in crores)

Particulars	FY 2023-24		
	Tariff Order	Actuals	Deviation
Depreciation	1378.79	1073.34	(305.45)

- Actual depreciation amount has been decreased due to i) Change in Depreciation methodology and ii) less Capitalisation during the year.
- Depreciation has been arrived as per the CERC depreciation rates under straight line method on the opening assets and also on additions to OCFA during the year proportionately in accordance with CERC regulations 2019.
- Hon'ble Commission is further requested to consider the depreciation on the addition during the Year from the date of Capitalisation as per CERC Regulation No.33, Vide notification No.L-1/236/2018/CERC dt: 07.03.2019.

iii) **Taxes on Income:**

iii(a). Variance in Taxes:

(Rs. in crores)

Table - III

Particulars	FY 2023-24		
	Tariff Order	Actuals	Deviation
Taxes on Income	120.23	82.42	(37.81)

Tax on income was calculated at current rate of Minimum

Alternate Tax (MAT) on the Return on Equity (ROE) @14% on 25% of actual Regulated Rate Base.

In this connection, it is to submit that, Company has paid Income Tax on Profits for an amount of Rs.39.72 crores for FY 2023-24 under MAT Provisions and the same was transferred to MAT Tax Credit Entitlement Account (MAT Asset) and hence it was not appeared in P&L Account. The Company is paying Income Tax as per MAT provisions and the same is being claimed in all the MYTs/APR filings submitted to TGERC (Copy of acknowledgement towards ITR filed for the year is attached herewith).

iii(b). Taxes on Income for FY 2022-23:

- Hon'ble TSERC has passed Annual Performance Order for FY 2022-23 on 07.06.2024 vide. O.P.No.2 of 2024 in respect of Transmission Business and approved Revenue surplus of Rs.579.05 Crores as against Revenue surplus of Rs.252.33 Crores filed by TSTRANSCO based on audited values of FY 2022-23. Wherein, Hon'ble Commission has not allowed **"Taxes on Income"** paid by the Company stating that, the actual income tax paid for FY 2022-23 is nil for current year as per audited account for FY 2022-23.
- As against APR orders passed by Hon'ble TSERC vide O.P.No.2 of 2024, dt.07.06.2024 as per clause-32 of TSERC Regulation No.2 of 2015, Company has filed a review petition in accordance with clause 16.2 of the Regulation No.5 of 2005 before Hon'ble TSERC vide O.P. No.2 of 2024 dated, 22nd July, 2024 stating that, **"During the Financial year 2022-23 the Company has paid income tax of Rs.41,11,82,472/- as per Income Tax Return under section 115JB of Income Tax Act 1961 as Minimum Alternative Tax and the same will be available for adjusting against Tax payables in the future years. Hence, the same as taken as asset in the Audited Books of Accounts. Therefore, in Profit and Loss Account statement as per Audited Books the Tax paid for the year is shown as "Nil".**
- Consequently, Hon'ble Commission vide R.P.No.3 of 2024 dated, 18th October, 2024 has disposed the Review Petition without considering the above claim on the reason that, the Licensee has not submitted the documents while filing the "Annual Performance Review Petition" for FY 2022-23 filed during December,2023. The Hon'ble Commission further at Para (11) of the Review Petition Order stated that, **"it does not restrict the petitioner from claiming the said amount in appropriate proceedings setting out the proper evidence in support of the claim and the way forward in treating the amount in the subsequent control period"**.
- In this connection, Company hereby submit the following documents in proof of payment of income tax for an amount of Rs.41.12 Crores for the FY 2022-23 as per Income Tax Returns filed.
 - a) ITR Filings of FY 2022-23 in support of income tax payable and actual payment.
 - b) Copies of challan towards advance tax paid by the Company
 - c) Form 26 AS towards TDS payments made against Company Revenues.
- In view of the above, the Hon'ble Commission is humbly prayed to consider the actual Income Tax amount of Rs.41.12 Crores for FY 2022-23 and adjust the same in the total true-up amount to be approved for the next Control Period.

iv) Return on Capital Employed (RoCE):

Return on Capital Employed (RoCE) is to cover the interest charges on the debt portion towards Regulated Rate Base and Return on Equity on the investment of TG TRANSCO. The licensee has computed the actual Return on Capital Employed (RoCE) for FY 2023-24 as per the methodology prescribed by the Hon'ble Commission vide Regulation 5 of 2005.

iv. Variance in RoCE:

Table –IV (Rs. in Crores)

Particulars	FY 2023-24		
	Tariff Order	Actuals	Deviation
Assets		24146.45	
Original Cost of Fixed Assets (OCFA)		22900.11	
Additions to OCFA		1246.34	
Depreciation		9000.35	
Opening Balance		7927.01	
Depreciation during the year		1073.34	
Consumer Contributions		4383.60	
Opening Balance		3769.01	
Additions during the year		614.59	
Working Capital		140.06	
Change in Rate Base		-220.79	
Regulated Rate Base (RRB)	16225.85	11123.35	-5102.50
Cost of Debt (Interest & Finance Charges)	1198.68	795.67	-403.01
Return on Equity @ 14% on 25% of RRB	567.90	389.32	-178.59
Return on Capital Employed (ROCE)	1766.59	1184.99	-581.60

- The depreciation for the year has been calculated on straight line method considering the depreciation rates as notified in CERC (Terms and Conditions of Tariff) Regulations, 2019.
- In the Regulated Rate Base(RRB) calculation, Company has considered the actual asset addition to Fixed assets tallying with the books of accounts. Hon'ble TSERC is requested to allow the entire capitalization amount in RRB computation.
- Addition to OCFA as per the audited accounts for F.Y.2023-24 is Rs.1246.34 Crores which is after adjustment of Asset withdrawal of Rs. 21.26 Crores during the Year.
- The Return on Capital Employed (ROCE) for the year is computed by considering the net interest expenditure at actual and, Return on Equity (ROE) @14% on 25% of actual Regulated Rate Base as per Regulation No. 5 of 2005.

v) Revenue: The following is the position of Revenue for FY 2023-24:

v. Variance in Revenue:

Table V

(Rs. in crores)

Particulars	FY 2023-24		
	Tariff Order	Actuals	Deviation
Revenue from Transmission Charges	3808.43	4117.68	309.25
Other Income	477.71	440.69	-37.02
Total:	4286.14	4558.37	272.23

- The net increase in revenue of Rs. 272.84 crores mainly due to revenue from inter-state transmission Charges (ISTS) of Rs. 265.58 crores approved by CERC.

vi) Aggregate Revenue Requirement (ARR) and Surplus/ (Deficit):

The Total Aggregate Revenue Requirement (ARR) approved by Hon'ble Commission for the year is Rs.4286.14 Crores, against actual ARR of Rs.3476.80 Crores. Whereas, the company has received Rs.4558.37 Crores by way revenue including other Income. Thereby the company has earned a Surplus of an amount of Rs.1081.56 Crores during FY.2023-24.

Table VI

(Rs. in Crores)

Particulars	FY 2023-24		
	Tariff Order	Actuals	Deviation
Expenditure	2696.53	2481.10	-215.43
O&M Costs	1197.51	1325.34	127.83
O&M Carrying Costs	0.00	0.00	0.00
Depreciation	1378.79	1073.34	-305.45
Taxes	120.23	82.42	-37.81
Special Appropriation	0.00	0.00	0.00
Other Expenses	0.00	0.00	0.00
Expenses Capitalized	176.98	189.28	12.30
O&M Expenses Capitalized	176.98	189.28	12.30
Net Expenditure	2519.55	2291.82	-227.73
RoCE	1766.59	1184.99	-581.60
Gross ARR	4286.14	3476.80	-809.34
Non-Tariff Income	477.71	440.69	-37.02
Revenue from Tariff	3808.43	4117.68	309.25
Total Revenue	4286.14	4558.37	272.23
Surplus/(Deficit)	0.00	1081.56	1081.56

- It could be seen from the above that, (i) the net expenditure of the Company has been decreased by Rs. 227.73 Crores mainly due to decrease in depreciation on change of methodology from MoP to CERC rates. (ii) ROCE has been decreased by Rs.581.60 due to reduction in RRB and thereby the Gross ARR decreased to the extent of Rs. 809.34 Crores. (iii) the total revenue of the Company increased by Rs.272.23 Crores on account of revenue from Inter-State Transmission charges for Rs. 265.58 crores. In view of the above, the Company has earned a surplus of Rs.1081.56 Crores for FY 2023-24.

II. Aggregate Revenue Requirement for FY 2025-26:

TG TRANSCO submits its Aggregate Revenue Requirement (ARR) for Annual Transmission Charges for FY 2025-26 of the 5th Control Period as per the methodology notified by **Telangana State Electricity Regulatory Commission** vide **(Multi Year Tariff) Regulation No.2 of 2023**.

The Aggregate Revenue Requirement comprises of following components:

Capital Investment plan during the Control Period:

Capital Investments proposed for execution of 400kV Schemes including evacuation schemes, schemes consisting of 220kV & 132kV Sub Stations and Lines, Lift Irrigation Schemes and Renovation and modernization schemes during FY 2025-26 of 5th Control period are as follows:

Form-3: Summary of Capital Expenditure and Capitalisation for FY 2025-26:

Table VII (Rs. in Crores)

Sl. no .	Particulars	FY 2024-25			FY 2025-26		
		MYT/Tariff Order	Apr - Mar	variation	MYT/Tariff Order	Projected	Variation
1	Opening Capital Works in Progress	2,475.03	4,223.33	-	2,991.73	3,801.51	809.78
2	Capital Expenditure during the year	2,864.16	2,179.43	-684.73	1,029.73	5,032.55	4,002.82
3	Capitalisation during the year	2,347.46	2,601.25	253.79	1,769.60	7,120.66	5,351.06
4	Closing Capital Works in Progress	2,991.73	3,801.51	-	2,251.86	1,713.39	-538.47

Note: Capital Expenditure for FY 2024-25 and FY 2025-26 is inclusive of Interest during construction (IDC) & O&M Expenses capitalized for respective years.

i. Operation and Maintenance expenses (O&M Expenses):

The O&M Expenses of the licensee shall comprise of (i) Employee cost including unfunded past liabilities of pension and gratuity (ii) Repairs and Maintenance expenses and (iii) Administrative and General expenses. The O&M expenses are computed as per the following formula as per clause 71.2 of approved Regulation No.2 of 2023;

$$O\&M_n = EMP_n + R\&M_n + A\&G_n$$

Where,

$$EMP_n = (EMP_{n-1}) \times (CPI \text{ Inflation})$$

$$R\&M_n = K \times (GFA_n) \times (WPI \text{ Inflation}) \text{ and}$$

$$A\&G_n = (A\&G_{n-1}) \times (WPI \text{ Inflation}).$$

Form 2: Operation and Maintenance expenses (O&M Expenses):

Table VIII(Rs. in Crores)

S. No.	Particulars	2024-25			2025-26		
		MYT/Tariff Order	Apr - Mar	variation	MYT/Tariff Order	Projected	Variation
1	Employee Expenses	1,123.60	1,061.61	-61.99	1,188.66	1,116.82	-71.84
2	A&G Expenses	64.78	82.79	18.01	67.97	88.92	20.95
3	R & M Expenses	111.14	88.17	-22.97	120.56	97.67	-22.89
Total O&M Expenses		1,299.52	1,232.58	-66.94	1,377.19	1,303.41	-73.78

- The Employee cost has been computed by considering FY 2024-25 as base year and duly escalating at the rate of 5.20% (monthly average of CPI Inflation for FY 2023-24) for FY 2025-26.
- Repairs and Maintenance (R&M) has been computed as per the regulation No.2 of 2023, where K factor 0.34% is arrived by dividing R&M expenses with Opening GFA of the respective year from FY 2019-20 to FY 2023-24 and duly escalating with WPI Inflation at the rate of 7.4%.
 - Where, K factor is the average % of R&M expenses on Opening GFA from FY 2019-20 to FY 2023-24 worked out to 0.34%.
 - WPI Inflation is considered as average inflation from FY 2019-20 to FY 2023-24, and arrived at 7.4%.
 - K factor for FY 2025-26 is worked out to 0.37%.

- Admin & General (A&G) expenses has been computed by considering FY 2024-25 as base year and duly escalating at the rate of 7.4% (average inflation from FY 2019-20 to FY 2023-24) for FY 2025-26.

ii. **Depreciation:** The claim of depreciation is meant for repayment of long term loans. Depreciation has been calculated based on useful life as approved by TGERC vide regulation no. 2 of 2023. The following is the position of year wise depreciation claimed:

Form 4: Depreciation:

Table IX (Rs. in crores)

Sl.No	Asset Group	FY 2024-25			FY 2025-26		
		MYT/Tariff Order	Apr - Mar	variation	MYT/Tariff Order	Projected	variation
1	Land & land right	818.35	-	-45.15	863.33	-	57.57
2	Buildings		21.05			25.07	
3	Other civil works		13.92			16.58	
4	Plant and Machine		349.91			416.75	
5	Lines & cable network		367.52			437.72	
6	Vehicles		0.47			0.56	
7	Furniture & fixtures		1.88			2.23	
8	Intangible assets		2.52			3.00	
9	Office equipment		15.94			18.98	
Total		818.35	773.20	-45.15	863.33	920.90	57.57

Depreciation for the Control period is calculated as per the Regulation No.2 of 2023, clause 28 in the following manner:

- Balance depreciable value as on 01.04.2024 has been considered as per books of accounts for FY 2023-24.
- Further, regarding the additions for FY 2024-25 & FY 2025-26, depreciation is calculated as per the Regulation No.2 of 2023, clause 28 & Annexure I.

iii. **Interest and Finance Charges on Loan:**

Interest and Finance Charges on loan: The Interest and Finance charges has been computed as per the Regulation 2 of 2023, clause 31 at the weighted average interest rate applied on the Normative average loan for the year arrived as per clause 27 of Regulation 2 of 2023.

Form 5: Interest and Finance Charges on Loan:

Table X

(Rs. in crores)

S. No.	Particulars	FY 2024-25			FY 2025-26		
		MYT/Tariff Order	Apr - Mar	variation	MYT/Tariff Order	Projected	variation
1	Opening Balance of Gross Normative Loan	-	14,629.34			15,535.79	
2	Cumulative Repayment till the year	-	5,439.95			5,931.01	
3	Opening Balance of Net Normative Loan	9,787.90	9,189.39	-598.51	9,780.67	9,604.78	-175.89
4	Less: Reduction of Normative Loan due to retirement or replacement of assets		-			-	
5	Addition of Normative Loan due to Capitalisation during the year	811.12	906.45	95.33	1,038.95	4,124.85	3,085.90
6	Repayment of Normative loan during the year	818.35	491.06	-327.29	863.33	584.51	-278.82
7	Closing Balance of Net Normative Loan	9,780.67	9,604.78	-175.89	9,956.29	13,145.12	3,188.83
8	Closing Balance of Gross Normative Loan	-	15,535.79			19,660.64	
9	Average Balance of Net Normative Loan	-	9,397.09			11,374.95	
10	Weighted average Rate of Interest on actual Loans (%)	10.00	10.00		10.00	10.00	
11	Interest	978.43	939.71			1,137.49	
12	Finance charges						
Total Interest & Finance charges		978.43	939.71	-38.72	986.85	1,137.49	150.64

The Interest and Finance charges has been computed on the following basis:

- Opening balance of Net normative loan has been arrived on 75% of the Opening Net Fixed Assets (Excluding Consumer Contributions).
- Addition of normative loan during the year is considered as 75% of Additions to fixed assets during the year.
- Repayment of the normative loan during the year is considered equal to the depreciation amount.
- The “Average Normative loan” is arrived by considering average of net opening and net closing normative loan.
- Interest rate at 10.00% is considered as the weighted average rate of Interest on Actual long term loan portfolio at the beginning of each year.

iv. Interest on Working Capital: The Interest on working capital for the control period has been computed as per the Regulation No.2 of 2023, clause 33.2 as follows:

- 1) One month of O&M expenses.
- 2) 1% of Opening Gross Fixed Assets as maintenance spares
- 3) Receivables for 45 Days of Aggregate Revenue Requirement.
- 4) Security deposits as per Books of Accounts.

Form 6: Interest on Working Capital:

Table XI (Rs. in crores)

S. No.	Particulars	FY 2024-25			FY 2025-26		
		MYT/Tariff Order	Apr - Mar	Variation	MYT/Tariff Order	Projected	Variation
1	O&M expenses	108.29	102.71	-5.58	114.77	108.62	-6.15
2	Maintenance spares	277.08	241.46	-35.62	300.56	267.48	-33.08
3	Receivables	387.00	391.45	4.45	421.90	454.86	32.96
4	Less: Security Deposits	32.58	37.24	4.66	32.58	37.24	4.66
5	Total Working Capital requirement	739.79	698.39	-41.40	804.65	793.71	-10.94
6	Interest rate	10.15	10.5		10.15	10.5	
Interest on working capital		75.09	73.33	-1.76	81.67	83.34	1.67

The Interest on Working Capital for the control period is arrived by considering the following:

- 1) One month of O&M expenses
- 2) 1% of Opening Gross Fixed Assets as maintenance spares
- 3) Receivables for 45 days of Aggregate Revenue Requirement

The above has been reduced to the extent of security deposits as per books of Accounts. On the resultant working capital requirement, interest @10.50% has been considered (SBI MCLR 9.00%+150 Basis Points).

- v. Return on Equity:** The Return on Equity has been computed as per the Regulation No.2 of 2023, clause 29 and grossed up with Tax as per clause 30.

Form 7: Return on Equity:

Table XII (Rs. in crores)

S. No.	Particulars	FY 2024-25			FY 2025-26		
		MYT/Tariff Order	Apr - Mar	Variation	MYT/Tariff Order	Projected	Variation
1	Regulatory Equity at the beginning of the year	3,262.63	3,063.13	-199.50	3,533.01	3,365.28	-167.73
2	Capitalisation during the year		1,208.60			5,499.80	
3	Equity portion of Capitalisation during the year	270.37	302.15	31.78	346.32	1,374.95	1,028.63
4	Reduction in Equity Capital on account of retirement / replacement of assets	3.50%	-	-	-	-	-
5	Regulatory Equity at the end of the year	3,533.01	3,365.28	-167.73	3,879.32	4,740.23	860.91
	Rate of Return on Equity						
6	Base rate of Return on Equity	14.00%	14.00%		14.00%	14.00%	
7	Effective Income Tax rate	17.47%	17.47%		17.47%	17.47%	
8	Rate of Return on Equity	12.72%	16.96%		16.96%	16.96%	
	Return on Equity Computation						
9	Return on Regulatory Equity at the beginning of the year		519.63			570.88	
10	Return on Regulatory Equity addition during the year		25.63			116.62	
Total Return on Equity		432.3	545.26	112.96	628.71	687.51	58.80

The Return on Equity has been considered at 14% on equity portion, arrived as follows:

- 1) Opening regulated equity has been arrived by considering 25% of net block of fixed assets of previous year excluding Consumer Contribution Assets.
- 2) Additions to equity for the year has been considered as 25% of fixed asset addition during the year excluding Consumer Contribution Assets.
- 3) Return on Equity has been arrived at 16.96% (Rate of return at 14% with effective normal tax rate) on opening regulated equity and on the 50% of equity addition during the year.

vi. Non-Tariff Income: The Non-Tariff Income for the Control Period has been computed as per the Regulation No.2 of 2023, clause 72.

Form 8: Non-Tariff Income:

Table XIII

(Rs. in crores)

S. No.	Particulars	FY 2024-25			FY 2025-26		
		MYT/Tariff Order	Apr-Mar	Variation	MYT/Tariff Order	Projected	Variation
1	Supervision charges	464.70	58.1	-75.67	515.70	58.1	-72.43
2	Contributions & amortisation towards depreciation on LIS and Other than LIS Assets		282.14			336.38	
3	Registration fees		0.63			0.63	
4	Operating and maintenance/annual maintenance charges		5.32			5.32	
5	Interest on staff loans and advances		1.24			1.24	
6	Interest on Income Tax refund		0			0	
7	Income from investments in bonds and fixed deposits		9.02			9.02	
8	Income from sale of scrap etc.,		4.78			4.78	
9	Gain on fair value changes - investments classified at FVTPL		0			0	
10	Fines and penalties collected		15.34			15.34	
11	Interest on investments under contingency reserve		-			-	
12	Income from Lease rentals		12.01			12.01	
13	Miscellaneous receipts		0.44			0.44	
Total		464.70	389.03	-75.67	515.70	443.27	-72.43

- The major components of Non-Tariff income includes interest income on staff loans and advances, income from investments, supervision charges, amortization consumer grants, Lease rentals etc.,. The Non-Tariff Income for FY 2024-25 & FY 2025-26 is estimated based on the past trend.

(g) Impact of True-Up for prior period: Based on the Annual Performance Review orders and Audited Accounts, Pass-through for 4th Control Period is as follows:

Table XIV (Rs. in crores)

Sl.No	Financial Year	Particulars	Amount
1	2019-20	Deficit as per APR order dated 02.09.2021	(64.88)
2	2020-21	Surplus as per APR order dated 07.04.2022	173.94
3	2021-22	Deficit as per APR order dated 26.05.2023	(160.80)
4	2022-23	Surplus as per APR order dated 07.06.2024 (Note.1)	579.05
5	2023-24	Surplus (as per Audited Accounts)	1081.56
Total			1608.87

It could be seen from the above that the net pass through for the 4th MYT Control Period is arrived at Rs. 1608.87 crores and the same was considered as special appropriation for FY 2025-26.

The True-Up for 4th Control period is arrived at Rs. 1,608.87 Crores. The impact of True-Up above for 4th Control Period has been arrived before adjustment of disallowed income tax of Rs. 41.12 Crores as per APR for FY 2022-23. The disallowed income tax is now being claimed as per para iii(b) of true-up for FY 2023-24 under the heading “Taxes on Income for FY 2022-23” of this petition.

(h) Aggregate Revenue Requirement: The following is the position of Aggregate Revenue Requirement for FY 2025-26:

Form 1: Summary sheet for the control period:

Table XV

(Rs. in crores)

S. No.	Particulars	FY 2024-25			FY 2025-26		
		MYT/Tariff Order	Apr-Mar	Variation	MYT/Tariff Order	Projected	Variation
1	Operation & Maintenance Expenses	1,299.52	1,232.58	-66.94	1,377.19	1,303.41	-73.78
2	Depreciation	818.35	773.2	-45.15	863.33	920.9	57.57
3	Interest and finance charges on loan	978.43	939.71	-38.72	986.85	1,137.49	150.64
4	Interest on Working Capital	75.09	73.33	-1.76	81.67	83.34	1.67
5	Return on Equity	432.30	545.26	112.96	628.71	687.51	58.80
6.1	Less: Non-Tariff Income	464.70	389.03	-75.67	515.70	443.27	-72.43
6.2	Income from Open Access Charges		-			-	
6.3	Income from Other Business		-			-	
7.1	Less: Impact of surplus pass-through for 4 th Control Period					1,608.87	1,608.87
Aggregate Revenue Requirement		3,138.99	3,175.04	36.05	3,422.05	2,080.50	-1,341.55

III. Proposal of Revised Transmission Tariff for FY 2025-26:

The Transmission charges are computed by dividing the net ARR of FY 2025-26 with the total contracted capacity of the year. As such, the following is the Transmission Charges Proposed for FY 2025-26.

Transmission Charges Proposed for FY 2025-26:

Table XVI

Particulars	FY 2025-26
	(n+1)
ARR of Transmission Business (Rs. in crores)	2,080.50
Transmission Contracted Capacity (MU)	23,544.83
Transmission Charges (Rs/kW/month)	73.64

5 Capital Investment Plan for FY 2025-26 of 5th Control Period:

Resource Plan for FY 2024-25 & 2025-26 of Fifth Control Period

The Objective of transmission planning to develop new transmission network suitably to handle the necessary demand due to load growth in both TGSPDCL and TGSPDCL and to handle evacuation from new generation plants.

Telangana State handled 85477 MU of energy for the FY:2023-24 and met Peak Demand of 15623 MW. The total energy requirement at state periphery is likely to increase to 87563.78 MU and energy availability is likely to reach 106636.81 MU by the end of FY 2025-26 of the 5th Control Period.

The Capital Investment plan for the 5th Control Period (FY:2024-25 to FY:2028-29) was filed by TGTRANSCO vide the Resource Plan submitted in August, 2023. The same was approved by the Hon'ble TGERC vide its' order dt. 29-12-2023.

The details of the works completed and ongoing schemes are given at page 56 (Plans for Capital Expenditure).

5.1 Generation Capacity Additions for 2024-25 & 2025-26 during 5th Control Period

In order to effectively evacuate the power from these Generating Stations, TGTransco needs to invest on the evacuation schemes

Table below summarizes the anticipated Generation Capacity Additions during the Fifth Control Period.

GENERATION CAPACITY ADDITIONS

GENERATION CAPACITY ADDITIONS

Table XVII

Plant owned by	Generating Station	Installed Capacity (in MW)	Contracted Capacity Addition (in MW)	TS SHARE (in MW)	FY: 2024-25	FY: 2025-26	COD/ Expected Date of Commissioning (DOC)
TGGENCO	Solar Plant at Peddapally MHES	4.6	4.6	4.60	0.00	4.60	FY 2025-26
TGGENCO	Yadadri Thermal Power Station	5 x 800	3744.00	3744.00	3744.00	0.00	Unit#1 Synchronised on 03.11.2024 Unit#2 Synchronised on 12-09-2024 Unit#3 31-03-2025 Unit#4 17-02-2025 Unit#5 28-02-2025
NTPC	Telangana Super Thermal Power Project (NTPC), Phase-I	2 x 800	1302.99	1302.99	0.00	0.00	Unit#1 28-09-2023 Unit#2 01-03-2024
TOTAL				5395.413	2400.00	4.60	

5.2. Demand Growth and System Expansion & Improvement Requirements

Energy Balance Statement of TS DISCOMS: The energy requirement approved by the Commission for 5th Control Period from FY 2024-25 to FY 2025-26 is as shown in the following Table:

Energy Balance for FY 2025-26 of 5th Control Period of TSDISCOMs (MU)

Table XVIII

SI No	Particular	FY 2024-25	FY 2025-26
1.	Energy Requirement	83,058	87,564
2.	Energy Availability	95,753	106,637
	Surplus/(Deficit)	12,696	19,073

TOTAL DISCOMs Energy Requirement for 5th Control Period:

Table: XIX Energy Requirement for FY 2025-26 of approved for 5th Control Period (MU)

Particular	FY 2024-25	FY 2025-26
TSNPDCL at State Periphery	23,659	24,747
TSSPDCL at State Periphery	59,398	62,817
Total Energy Requirement at State Periphery	83,058	87,564

5.3 ENERGY AVAILABILITY FROM GENERATING STATIONS

TELANGANA GENCO

The below tables show the capacities of the existing/upcoming Thermal and Hydel generating stations.

Table: XX Energy Availability from Telangana GENCO stations (in MW)

Energy Source	Plant Capacity (MW)	FY 2024-25	FY 2025-26
State Thermal Projects			
KTPS V	500	455.00	455.00
KTPS VI	500	462.50	462.50
RTS-B	62.5	56.25	56.25
KTPP Stage-I	500	462.50	462.50
KTPP Stage-II	600	558.00	558.00
KTPS Stage-VII	800	758.00	758.00
BTPS(4x270 MW)	1080	988.20	988.20
YTPS (5x800 MW)	4000	3744.00	3744.00
Total Thermal	8042.5	7484.45	7484.45
NSHP	815.6	807.44	807.44
NSLCPH	60	59.40	59.40
Pulichintala	120	118.80	118.80
Pochampad	36	35.64	35.64
Nizamsagar	10	9.90	9.90
Palair	2	1.98	1.98
Mini Hydels (Peddapalli)	9.16	9.07	9.07
Singur	15	14.85	14.85
Srisailem LBH ES	900	889.20	889.20
Priyadarshini Jurala (TS Share)	234	115.83	115.83
Lower Jurala	240	237.60	237.60
Total Hydel	2441.76	2299.71	2299.71
Solar PV at Jurala	1	1	1
Total Capacity	10485.26	9785.16	9785.16

Central Generating Stations

The share of the Telangana in the total capacity of the Central Generating Stations is provided below:

Table: XX1 Energy Availability from CGS stations (in MW)

Name of the Station	Capacity (MW)	TS Share (MW)	Percentage %
NTPC (SR)-I & II	2100	327.43	15.59
NTPC (SR)Stage-III	500	82.79	16.56
NTPC Talcher Stagell	2000	203.54	10.18
NLC Stage-I	580	4.89	0.84
NLC Stage-II	790	6.43	0.81
NPC-MAPS	440	19.78	4.49
NPC-KaigaUnit-I&II	440	60.77	13.81
NPC-KaigaUnit-III & IV	440	64.63	14.69
NTPC Simhadri Stage-I	1000	507.91	50.79
NTPC Simhadri Stage-II	1000	241.89	24.19
NTECL Vallur Thermal Power Plant	1500	99.81	6.65
NLC Tamilnadu (Tuticorn) Unit-I & Unit II	1000	139.35	13.93
KudigiUnit-I, II & III	2400	262.71	10.95
New Neyvelli Thermal Power plant	934	58.07	6.22
NLC Exp-I	420	5.18	1.23
NLC Exp-II	500	6.06	1.21
KKNPP (Kudankulam Nuclear Power Plant) Unit-I	1000	4.14	0.41
KKNPP (Kudankulam Nuclear Power Plant) Unit-II	1000	46.10	4.61
NTPC NSM Bundled Phase -II (Coal 200MW)	25650	186.83	0.73
NVVNL Bundled Power (Coal 85 MW)	45.81	42.92	93.69
Telangana STPP	1600	1302.99	81.44
Total CGS	45339.81	3674.22	8.10

Independent Power Producers (IPPs)

The share of Telangana from the following IPPs:

Table: XXII Energy Availability from Independent Power Producers (IPPs)(in MW)

Project Name	Plant Capacity (MW)	TS Share (MW)	Remarks
GVK	220	115.43	The Natural gas supplies from RIL KG D-6 fields to these IPPs became zero from 01.03.2013 onwards and hence at present there is no Generation from these 4 IPPs. The PPAs of GVK, Gouthami & Konaseema expire in 2024 and Vemagiri in 2029.
Vemagiri	370	193.03	
Gouthami	464	242.50	
Konaseema	444.08	231.83	
Total	1498.08	782.79	

Inter-State Hydel projects:

The share of Telangana from the following IPPs:

Table: XXIII Energy Availability from Inter-State Hydel stations(in MW)

Project Name	Plant Capacity (MW)	TS Share (MW)	Remarks
Machkund	84.00	44.82	120 MW (84 MW for combined AP)
T B Dam	57.60	30.73	72 MW (57.6 MW for combined AP)
Total	141.60	75.55	

Other Sources

The following Generation capacities are available from other sources:

Table: XXIV Energy Availability from Other Sources(in MW)

Name of the Station	Capacity (MW)	TS Share (MW)
Thermal Power Tech (Unit-I)	1320	269.45
Thermal Power Tech (Unit-II)		570.00
Singareni Thermal Power Plant Stage-I	1200	1131.00
Chattisgarh Power Purchase	1000	947.50
Total	3520	2917.95

ANNEXURE – I PLANS FOR SYSTEM PERFORMANCE

REPRESENTATIVE SYSTEM LOAD CURVES

1 Requirement in the Guidelines:

Representative system load curves for weekdays and weekends for various seasons (such as summer, winter and monsoon). Indicate in case if any load restriction was imposed. Also provide expected system load curves for the ensuing year and indicate the expected supply curves in each case. (Guidelines – 10a).

2023-24

Typical Full load details along with curves for three seasons representing Peak demand met day and Peak demand met on weekend day for the year 2023-24 are as follows:-

For 2023-24

Sl. No	Season	Date
1	Typical week end day in summer	2 nd Mar'24
2	Typical full load day in summer	8 th Mar'24
3	Typical week end day in monsoon	14 th Oct'23
4	Typical full load day in monsoon	20 th Sept'23
5	Typical full load day in winter	28 th Feb'24
6	Typical week end day in winter	11 th Feb'24

The highest system peak demand of 15623 MW was recorded on 08.03.2024 @ 10:00 AM for the FY 2023-24.

A brief analysis of system demand for all seasons of the year 2023-24 is furnished in the following sections:

For 2023-24

PEAK GRID DEMAND				
SEASON	Max MW	Max Date	Min MW	Min Date
SUMMER	15623	08.03.2024	4841	01.05.2023
MONSOON	15370	20.09.2023	4493	27.07.2023
WINTER	15164	28.02.2024	5476	05.12.2023

1 Summer season

For 2023-24

The highest System Peak Demand recorded during summer season is 15623 MW on 08.03.2024. From the system load curve (vide annexure 1.a) on the day when the highest system peak was recorded during summer season, it can be seen that the system load is continuously maintained above 8091 MW (minimum on 08.03.2024) throughout the day and the maximum demand recorded was 15623 MW. The **demand variation in summer was between 4841 MW and 15623 MW**. The minimum system demand met on 01st May 2023 was 4841 MW and is the lowest recorded in this season.

2 Monsoon season

For 2023-24

The highest System Peak Demand recorded during monsoon season is 15370 MW on 20.09.2023. From the system load curve (vide annexure 1.b) on the day when the highest system peak was recorded during monsoon season, it can be seen that the system load is continuously maintained above 8957 MW (minimum on 20.09.2023) throughout the day and the maximum demand recorded was 15370 MW. The **demand variation in monsoon was between 4493 MW and 15370 MW**. The minimum system demand met on 27th July 2023 was 4493 MW and is the lowest recorded in this season.

3 Winter season

For 2023-24

The highest System Peak Demand recorded during winter season is 15164 MW on 28.02.2024. From the system load curve (vide annexure 1.c) on the day when the highest system peak was recorded during winter season, it can be seen that the system load is continuously maintained above 7960 MW (minimum on 28.02.2024) throughout the day and the maximum demand recorded was 15164 MW. The **demand variation in dry winter was between 5476 MW and 15164 MW**. The minimum system demand met on 05th December 2023 was 5476 MW and is the lowest recorded in this season.

LOAD DURATION CURVES

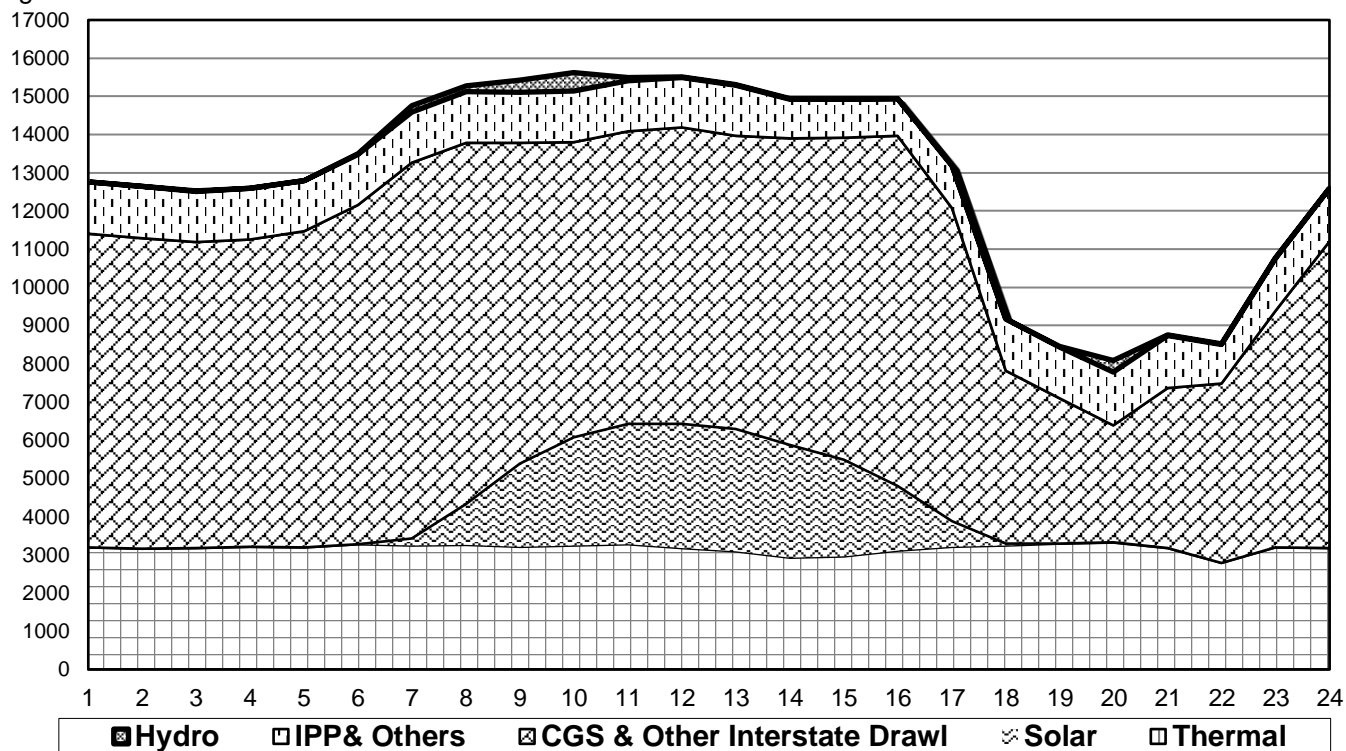
The energy availability in FY 2023-24 is 100% of the total energy requirement.

Load duration curve for the FY 2023-24 is enclosed as Annexure 2(e).

Annexure – 1.m

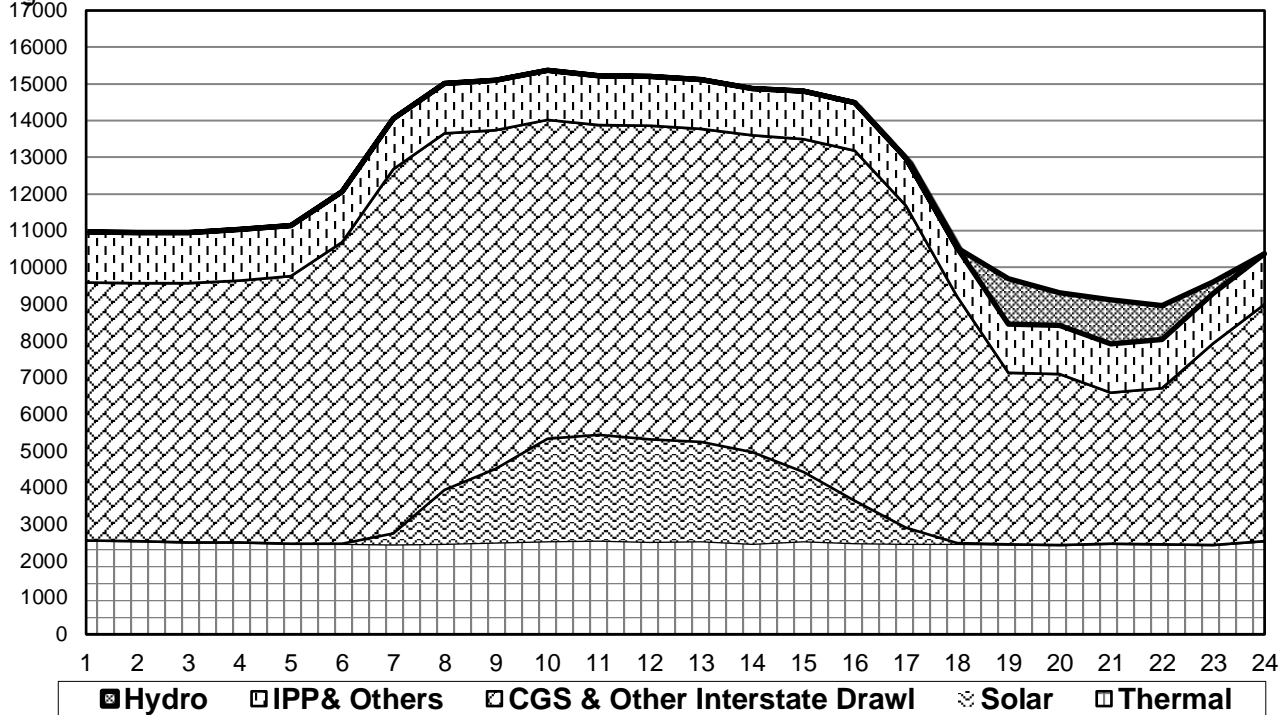
TS Demand Curve On 8th March-2024 during Summer Season for the F.Y-2023-24

Fig in MW



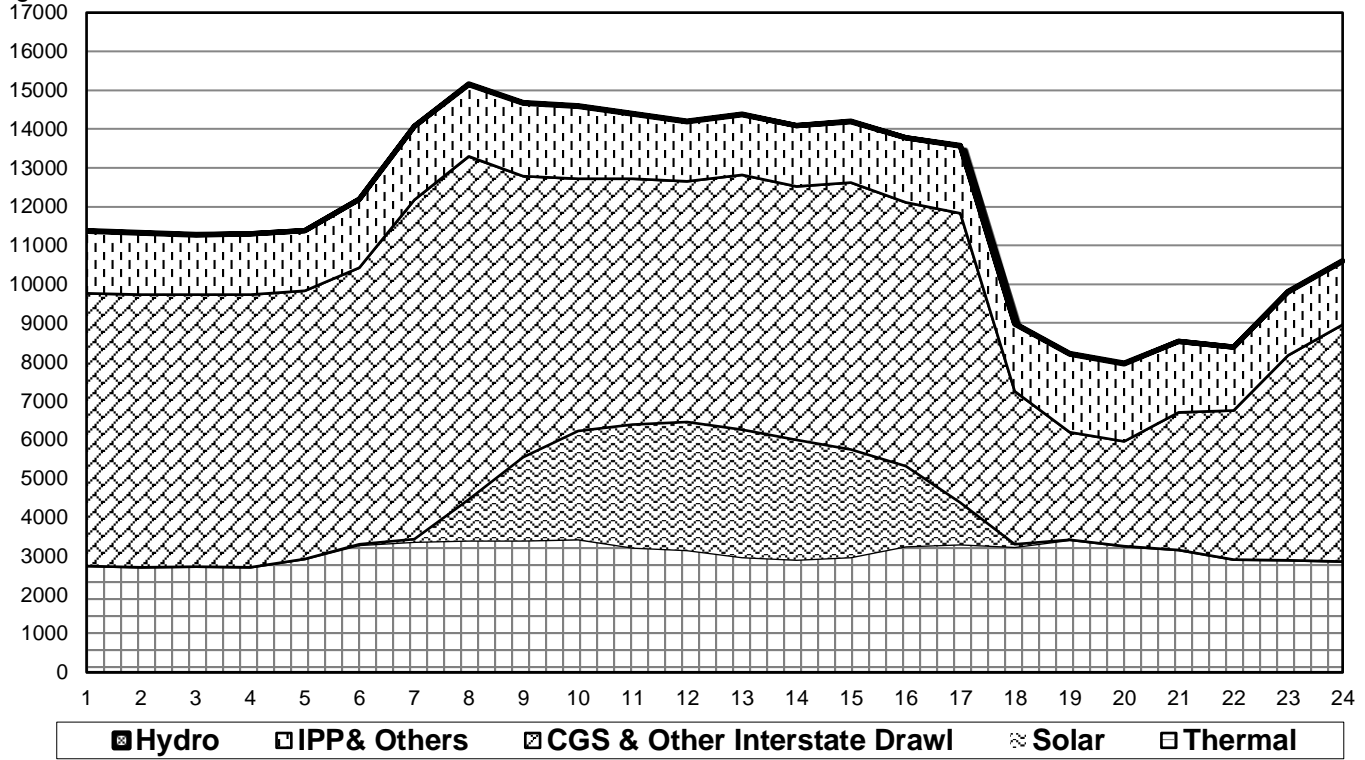
Annexure – 1.n

TS Demand Curve On 20th Sep-2023 during Monsoon Season for the F.Y-2023-24
Fig in MW



Annexure – 1.o

Fig in MW TS Demand Curve On 28th Feb-2024 during Winter Season for the F.Y-2023-24



LOAD DURATION CURVES

1. Requirement in the guidelines

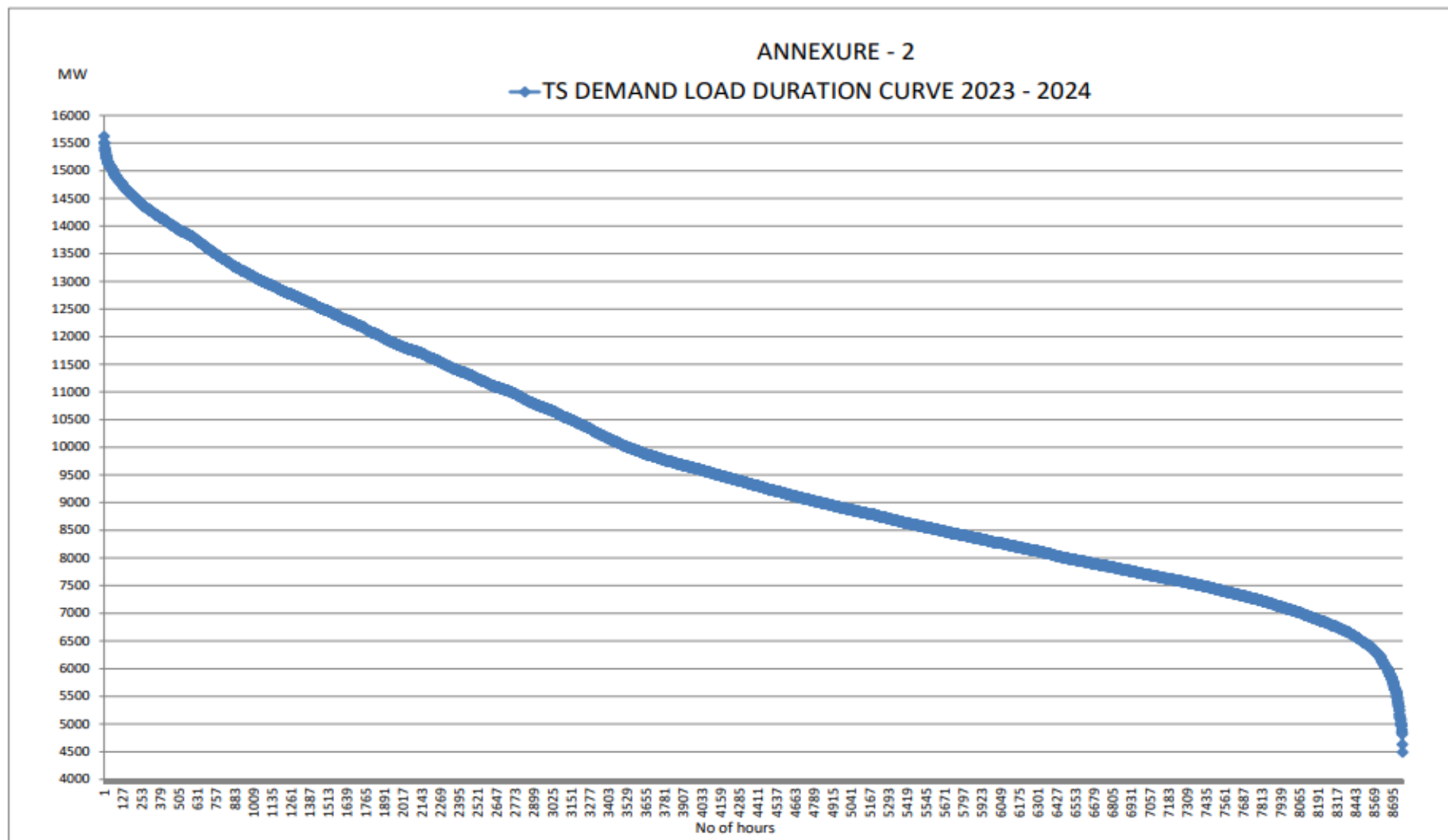
Load duration curves for the past year and current year and expected load duration curve for the ensuing year. Indicate energy unserved on the load duration curves. (Guidelines – 10b)

2. TGTRANSCO's Response:

The load duration curves for the years 2023-2024 and monsoon 2024-2025 , and expected load duration curves for 2024-25 and 2025-26 are enclosed as Annexures -2(a) to 2(d).

The load duration curves for the year 2023-24

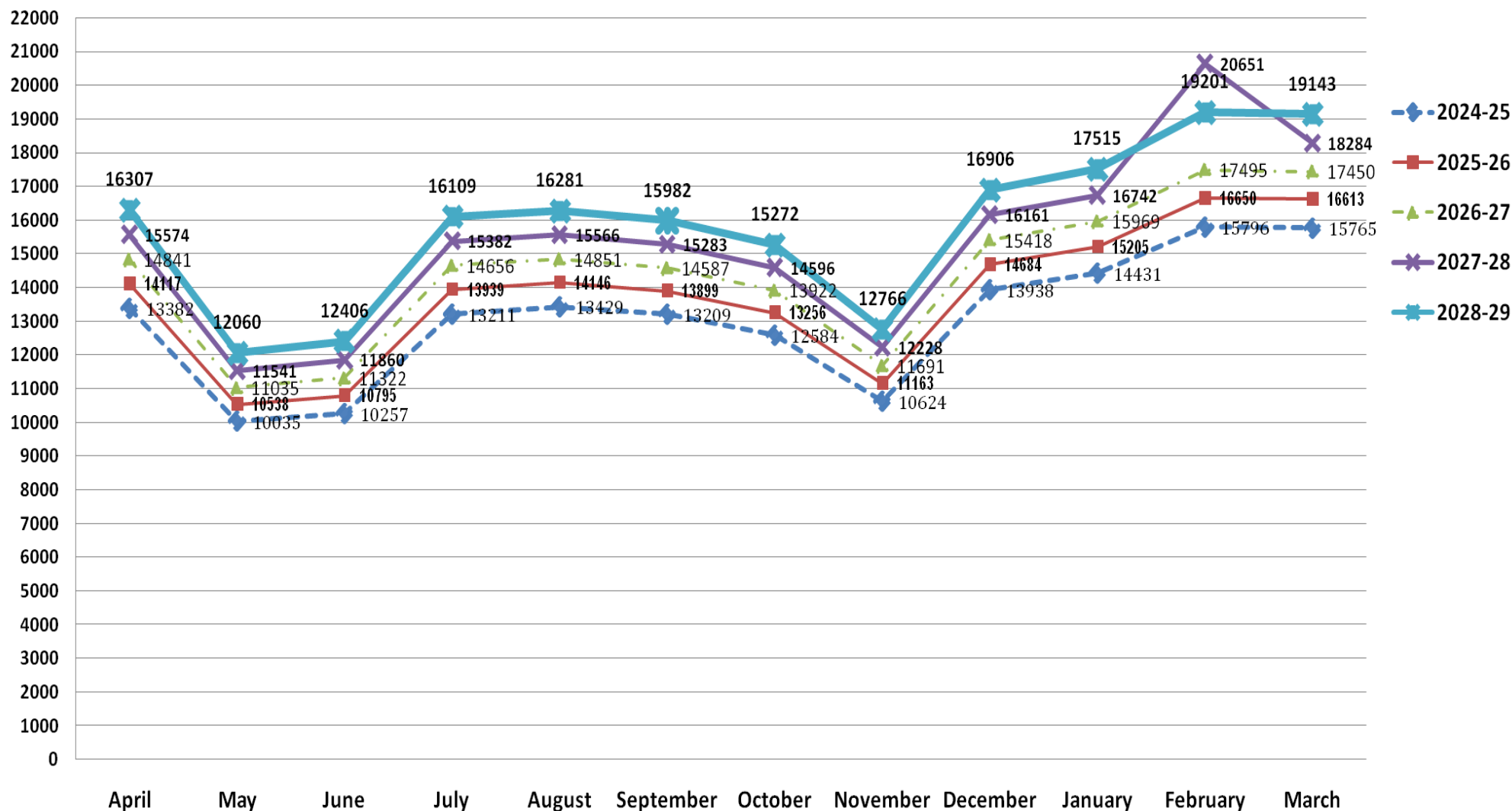
Annexure -2



Based on Discom load forecast data, the Demand curves for the 4th Control Period (FY2019-20 to FY2023-24) are enclosed as Annexure (3).

Annexure (3)

Maximum Demand (MW) month wise for FY2024-25 to FY 2028-29



PLANS FOR RATIONALISATION OF EXISTING MANPOWER

1. Requirement in the Guidelines:

Plans both short term and long term for rationalization existing manpower (Guide lines-10c)

2. TGTRANSCO's Response :

Initiatives for rationalization of manpower for 5th Control Period from FY2024-25 to FY2028-29 for both short term and long term plan & measures taken while arriving regular man power on permanent basis:

- i. Staff pattern norms are being followed as per B.P. Ms.No.94 & 95, Dt.31.05.1994 and the technical Committee report dt.09.09.2005.
- ii. TGTRANSCO has issued orders engaging the services of Administrative Staff College of India, Hyderabad for conducting a comprehensive study of Organization structure /manpower requirement and furnishing of a report. Accordingly, M/s ASCI has submitted the draft report which is under finalization. Upon completion of the final report necessary steps will be taken for rationalization of manpower/ re-organization of in TGTRANSCO.
- iii. The Details of EHT Sub-stations & connected lines programmed for commissioning during the period 2024-29 are obtained from CE/Power Systems.
- iv. Regular man power is being assessed every year keeping in view of the following aspects:
 - Creation of new posts to the newly commissioned SS and Lines as per the norms.
 - Retirements.
 - Filling up of initial cadres, such as AE, Sub-Engineer, JAO, JPO & JLM, is being taken up as per the requirement and rules duly following regulations in vogue.
 - Promotions.
- v. Considering all the above measures, Man Power Projections in TGTRANSCO for the period from 2023-2029 is arrived as follows:

Sl. No.	FY	Sanctioned	Filled	Vacant
1	2023-24	5595	3139	2457
2	2024-25	7093	3737	3356
3	2025-26	7168	4356	2812

2. Measures taken while arriving outsourcing man power on temporary basis:

- i) TGTRANSCO issued orders vide T.O.O. No. (Jt. Secy.-Per) Ms.No.130, Dt.30.08.2017 and T.O.O. No. (Jt.Secy.Per) Ms.No.131, Dt.30.08.2017 duly absorbing 4359 Nos Outsourced personnel as Artisan Grade-I, Grade-II, Grade-III & Grade- IV.
- ii) TGTRANSCO has also taken decision to meet the requirement of personnel by direct recruitment, instead of engaging by outsourcing through Private Agencies.

PLANS TO IMPROVE TRANSMISSION SYSTEM PERFORMANCE

1. Requirement in the Guidelines:

Plans to improve Transmission System Performance. (Guidelines – 10d)

2. TGTransco's Response:

The transmission system of TGTransco as of March 31, 2024 consists of 7221 Circuit KMs of 400 kV lines, 10117 Circuit KMs of 220 kV lines, 12771 Circuit KMs of 132 kV lines, 28 Nos. 400 kV sub-stations, 104 Nos. 220 kV sub-stations and 253 Nos. 132 kV sub-stations

During 2019-24, the following assets were added to the transmission network of TGTRANSCO (up to 31/03/2024).

400 kV lines	2543Ckm.
220 kV lines	2440Ckm.
132 kV lines	1609Ckm.
400 kV sub stations	11 Nos.
220 kV sub stations	23 Nos.
132 kV sub stations	19 Nos.

During 2022-23, a sum of Rs.1931.30Crs. was incurred by TGTRANSCO towards strengthening of Transmission network, which resulted in the addition of the following assets (incl. LIS).

(Incl. LIS)

400 kV lines	44 Ckm.
220 kV lines	259 Ckm.
132 kV lines	171 Ckm.
400 kV sub-stations	2 Nos.
220 kV sub-stations	3 Nos.
132 kV sub-stations	3 Nos.

During the Financial Year i.e., 2023-24 of the 4th Control Period, the following assets were added, which includes the XLPE cable and GIS sub-stations in the twin cities.

400 kV lines	864Ckm.
220 kV lines	802Ckm.
132 kV lines	594Ckm.
400 kV sub stations	3Nos.
220 kV sub stations	3Nos.
132 kV sub stations	3 Nos.

During FY 2025-26 , it is proposed to strengthen the Transmission System by adding the following assets which includes the XLPE cable and GIS sub-stations in the twin cities.

400 kV lines	577Ckm.
220 kV lines	1006Ckm.
132 kV lines	871.87Ckm.
400 kV sub stations	7 Nos
220 kV sub stations	8Nos
132 kV sub stations	22Nos.

With the above strengthening measures of the Transmission system, it is expected that the transmission system would greatly improve and the voltage profile of the system will improve to a considerable extent.

Electrical substations and lines are critical infrastructure components that play a vital role in transmitting, transforming, and distributing electricity throughout the power grid. These facilities are indispensable for modern society, enabling homes, businesses, and industries to function reliably and efficiently. Their importance is projected to grow further in the future due to several key trends:

1. **Increasing electricity demand:** The demand for electricity is expected to continue to grow steadily in the coming decades, driven by population growth, urbanization, and technological advancements. This surge in demand will necessitate the expansion and modernization of the electrical grid, including the construction of new substations and lines.
2. **Improving reliability and grid stability:** Substations and lines are critical components of the electricity grid, and their condition can have a significant impact on the reliability and stability of the grid. Older substations and lines may be more prone to outages, and upgrading them can help to improve the overall reliability of the grid.
3. **Renewable Energy Integration:** The transition towards a sustainable energy future will rely heavily on renewable energy sources, such as solar and wind power. However, these sources are intermittent and require integration with the existing grid to ensure a reliable supply of electricity. Substations and lines play a crucial role in connecting renewable energy generators to the grid and managing the fluctuations in their output.
4. **Distributed Energy Resources:** The rise of distributed energy resources (DERs), such as rooftop solar panels and microgrids, is transforming the power landscape. These

decentralized sources of electricity generation require intelligent grid management systems and robust transmission and distribution infrastructure, including substations and lines, to effectively integrate them into the grid.

5. **Expanding the grid into new areas:** As cities and towns grow, new substations and lines may need to be constructed to provide electricity to new developments.
6. **Replacing aging infrastructure:** Substations and lines have a finite lifespan, and they eventually need to be replaced. This is an ongoing process that is essential for maintaining the reliability of the electricity grid.
7. **Smart Grid Technologies:** The development of smart grid technologies, such as advanced sensors, communication systems, and data analytics, is paving the way for a more intelligent and resilient electrical grid. Substations and lines are essential components of the smart grid, enabling real-time monitoring, control, and optimization of the power system.
8. **Electrification of Transportation:** The transition towards electric vehicles (EVs) is expected to significantly increase electricity demand in the transportation sector. This growth will necessitate the expansion of the grid infrastructure, including substations and lines, to provide the necessary capacity for EV charging.
9. **Grid Reliability and Resilience:** Electrical substations and lines are critical for maintaining the reliability and resilience of the power grid. Upgrading and modernizing these facilities can help to prevent outages, reduce downtime, and ensure a more stable and secure electricity supply.
10. **Cyber security Threats:** The increasing reliance on digital technologies in the power sector makes electrical substations and lines vulnerable to cyber attacks. Enhancing cyber security measures for these facilities is crucial for protecting the grid from potential disruptions and ensuring its continued operation.
11. **Meeting environmental regulations:** In some cases, substations and lines may need to be constructed or upgraded in order to meet new environmental regulations. For example, new substations may be required to use cleaner technologies, and older lines may need to be upgraded to reduce their environmental impact.
12. **Preparing for natural disasters:** Substations and lines are vulnerable to damage from natural disasters, such as hurricanes, earthquakes, and wildfires. Constructing new substations and lines that are more resilient to these events can help to protect the

electricity grid and ensure that it can continue to provide power in the aftermath of a disaster.

In summary, electrical substations and lines are essential infrastructure components that will play a critical role in shaping the future of the power grid. Their importance is evident in supporting renewable energy integration, distributed energy resources, smart grid technologies, and electrification of transportation, grid reliability, and cyber security. As the world transitions towards a more sustainable and electrified future, the need for these facilities will only continue to grow, ensuring a reliable and resilient electricity supply for generations to come.

LOAD PROFILES

1. Requirement in the Guidelines

Submit load profiles for sub-stations segregated by voltage levels and supplied parties. (Guidelines – 10e).

2. TGTransco's response

Load curves for peak load days during summer, monsoon and winter seasons have been enclosed as Annexures 1(a) to 1(c). These curves represents hourly demand in MW recorded at various voltage levels, on the days of the highest system peak was recorded for the respective seasons at various representative grid sub-stations.

At this stage, TGTRANSCO has provided the above data for representative sub-stations. It is respectfully submitted that providing such data for all the sub-stations in voltage levels and supplied parties would be a very voluminous and time-consuming process. In the event that the Hon'ble Commission requires such data for any other specific sub-station, TGTRANSCO would be glad to provide such data as may be directed.

PLANS FOR DETERMINING LOAD PROFILES

1. Requirement in the Guidelines

If information in (e) above is incomplete or non-existent, submit plans for determining load profiles on grid sub-stations and to determine system peak at different voltage levels. (Guidelines – 10f)

2. TGTransco's response

SCADA System:

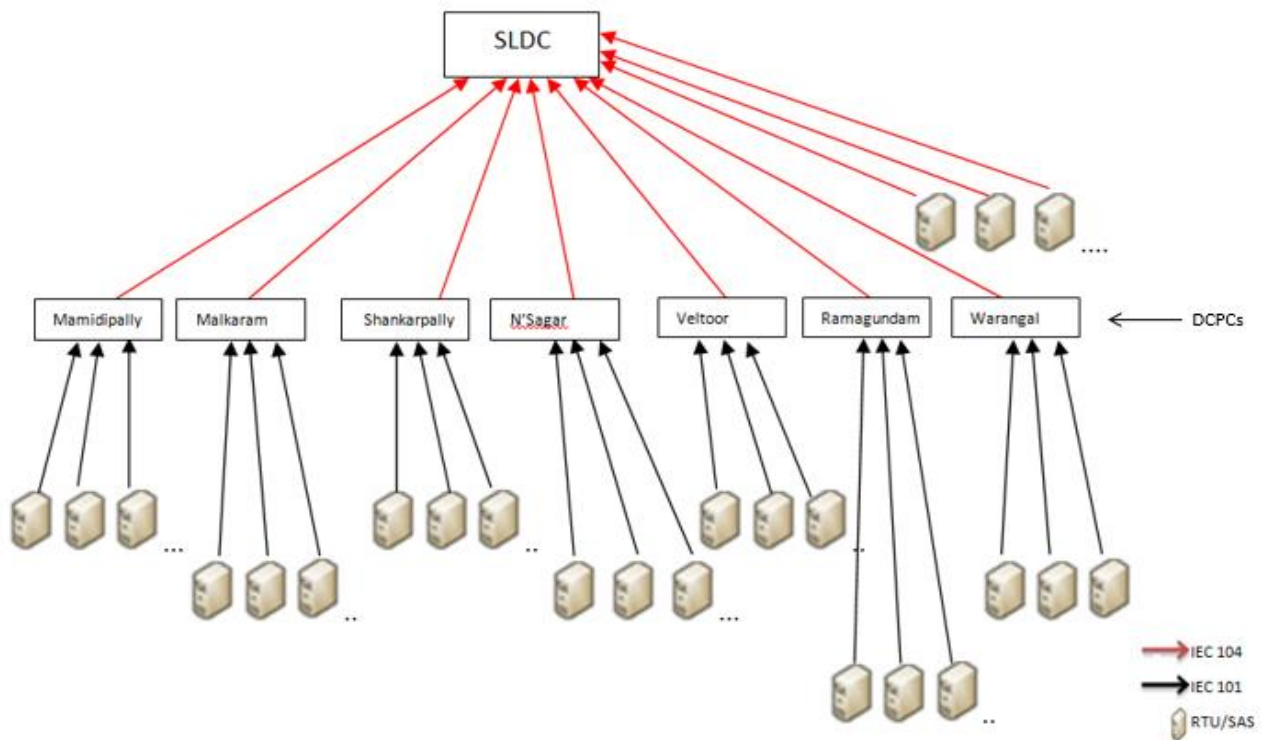
The SCADA/ EMS systems at SLDC, Hyd are upgraded with GE System (Formerly M/s.Alstom T& D Ltd) during the year October, 2015.

The Upgraded SCADA/EMS system consists of 7 Data Concentrator Cum Protocol Converter (DCPC's) located at Wide band stations namely Mamidipally, Ramagundam, Warangal, Velloor, Shankarpally, Nagarjunsagar& Malkaram.

Each DCPC receives data from nearest RTU stations using IEC 60870-5-101 protocol, processes them and then transmits the real time data to SLDC through IEC 60870-5-104 protocol for monitoring, controlling, storage and reporting. All the Real time data to DCPC is received through PLCC/Fiber communication medium. Whereas the data from DCPC's to control center is received through Fiber optic communication.

The SCADA architecture is as shown below:

SCADA ARCHITECTURE AT SLDC

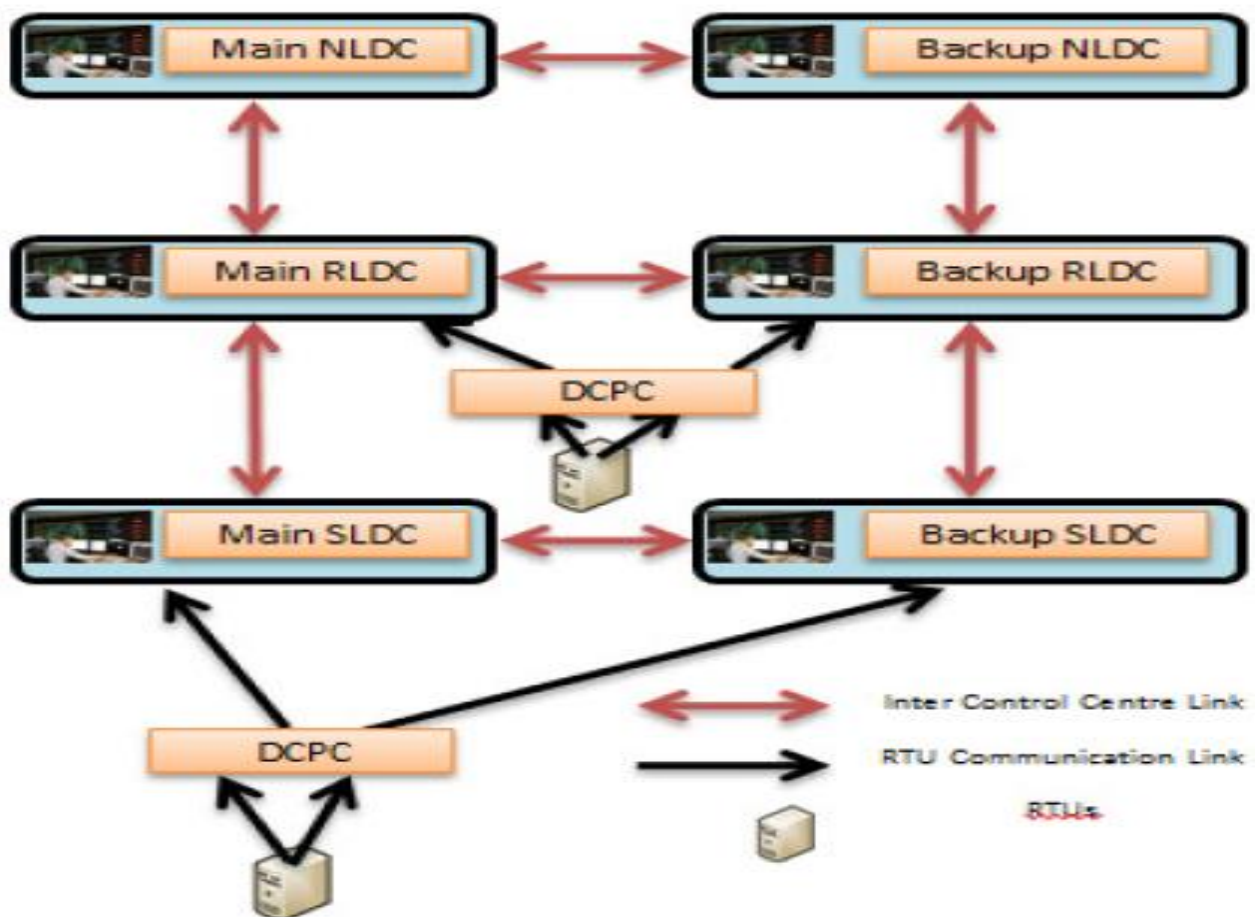


DCPC – Data Concentrator-Cum-Protocol Convertor

The details of RTU reporting To DCPCs is as shown below.

Sl. No	DCPC Location	No of RTU's Stations
1	Malkaram	17
2	Mamidipally	20
3	Nagarjunsagar	11
4	Ramagundam	18
5	Shankarpally	21
6	Veltloor	13
7	Warangal	15
8	Vidyutsoudha (SLDC)	60

Main SLDC is further integrated to SRLDC (Main & back up) on ICCP link. SRLDC in turn is integrated to NLDC also on ICCP link. The Backup SLDC proposed at Warangal will be integrated to Main SLDC and backup SRLDC over ICCP link. The data connectivity network will be as shown below.



The Backup SLDC shall be a fully functional replica of the Main SLDC (with minor changes) so that it can function as a full fledged SLDC in case of any disaster. During normal course, it shall share the duties of main SLDC also.

PLANS FOR CAPITAL EXPENDITURE

1. Requirement in the Guidelines.

Plans for all Capital Expenditure. (Guidelines – 10g)

2. TGTransco's Response

A. PLANS FOR CAPITAL EXPENDITURE for 220KV and 132KV Schemes

Capital works are being taken up for Power System improvements and for evacuation of power from the up-coming Generating Stations. Strengthening of the Transmission System is being planned to meet the existing and upcoming load demand, to improve the system voltage profile, to enhance the reliability of the system. The construction of new 220 KV & 132 KV Sub-stations and connected lines are being executed with the funding from M/s REC, M/s PFC and internal (TGTransco) funding.

The capital investment plan for the 5th control period (FY:2024-25 to FY:2028-29) filed by TGTRANSCO vide Resource Plan petition submitted in August, 2023 was approved by the Hon'ble Commission vide its' order dt. 29-12-2023.

The details of ongoing schemes that spill over into the 5th Control Period and new projects which will commence in each year of the control period are enclosed vide Annexure-A (Capital expenditure plan) as approved by the Hon'ble TGERC vide Annexure – I to the Resource Plan order dt. 29-12-2023.

However, as and when new unplanned projects come up, the Hon'ble TGERC will be approached for investment approvals on a case to case basis.

I. Write up of completed works of 220kV & 132kV Schemes during FY:2023-24

1. 132/33kV SS at Padmanagar in Karimnagar District

- The scheme is formulated “to meet the existing & upcoming load demand in the Karimnagar town.”
- The revised administrative approval was accorded vide T.O.O (CE-Construction) Ms. No.1565, Dated:04.02.2023. Amount: Rs.29.00 Crores
- The scheme envisages the following works:
 - (i) Erection of 132/33 kV Sub-Station Padmanagar (V) in Karimnagar District with 2x31.5 MVA capacity

- (ii) LILO of 132 KV Line (one circuit) from 220/132 KV SS Durshed to the 132/33 KV SS Siricilla to proposed 132/33 KV SS Padmanagar-6 KM & 132 kV DC line erection on 400 kV DD Type Towers- 1 KM
- The investment approval No.CRN TGT/TG/Erection of 132/33 KV SS at Padmanagar in Karimnagar District. Approval/No.02/2024-25, date. 01.06.2024 Amount.Rs.29.00Cr
- Funding tie up with M/s PFC Ltd & amount Rs. 14.20 Crores.
- Date of commissioning: 15.05.2023.

2. 132/33kV SS at Pammy in Khammam District.

- The scheme is formulated “to feed the supply to existing 6Nos 33/11KV Substations.”
- The administrative approval was accorded vide T.O.O (CE-Construction) Ms. No.14, Dated:20.01.2018. Amount: Rs.23.39 Crores
- The scheme envisages the following works :
 - (i) Erection of 132/33 kV Sub-Station at Pammy in Khammam District with 2 X 31.5 MVA PTRs.
 - (ii) Erection of 132 kV DC line for LILO of 132 kV Kusumanchi-Chilakallu line at the proposed 132/33 kV Pammy Sub- Station -8Km.
- The investment approval No. CRN No. TST/TS/Erection of 132/33 KV SS at Pammy in Khammam Dist. Approval/No.03/2018-19, date.01.06.2018 Amount.Rs.23.39 Cr
- Funding tie up with M/s REC Ltd& amount Rs. 20.64Crores
- Date of commissioning: 29.02.2024

3. Erection of 132kV DC line from proposed 400/220/132kV SS Choutuppal to 132kV SS Choutuppal.

- The scheme is formulated under Yadadri Thermal Power (5X800MW) Evacuation Scheme.
- The administrative approval was accorded vide T.O.O (CE-400KV) Ms. No.451, Dated:10.10.2019, Amount: Rs.2354.35Crores
- The scheme envisages the following works:
 - (i) 132kV DC line from 400/220/132kV SS Choutuppal to 132kV SS Choutuppal.-9.961KM on Multi circuit towers & 4.732KM on DC towers.
 - (ii) 132kV Bay extensions at /132/33kV SS Choutuppal-2No.s
- Funding tie up with M/s PFC Ltd. & amount Rs.1102.26 Crores.

- Date of commissioning: 20.10.2023

4. Erection of 33 KV features at 132 KV Railway Traction Switching Station, Kothagudem, KothagudemBhadradi District.

- The scheme is formulated “to provide quality, reliable & uninterrupted power supply to the consumers and also to meet the future demand”.
- The administrative approval was accorded vide T.O.O (CE-Construction) Ms. No.217, Dt:25.09.2018, Amount: Rs.9.92Crores
- The scheme envisages the following work:
 - (i) 33 KV features at 132 KV Railway Traction Switching Station, Kothagudem, KothagudemBhadradiDistrict with 2 X 10/16 MVA PTRs.
- Funding tie up with M/s PFC Ltd. & amount Rs.7.35 Crores.
- Date of commissioning: 21.11.2023

5. Erection of 220kV Twin Moose DC line by making LILO of existing 220kV Salivagu-Bheemghanpur line at Ramappapoint(Loc.No.66) to proposed 400/220/132kV KTPP SS in Jayashankar Bhupalapally District.

- The scheme is formulated under 400 kV KTPP system improvement scheme
- The administrative approval was accorded vide T.O.O (CE-400 kV) Ms. No.297, Dt:09.02.2019, Amount: Rs.454.23 Crores.
- The scheme envisages the following work:
 - (i) 220kV Twin Moose DC line by making LILO of existing 220kV Salivagu-Bheemghanpur line at Ramappa point (Loc.No.66) to proposed 400/220/132kV KTPP SS- 22KMs.
- Funding tie up with M/s PFC Ltd. & amount Rs.405 Crores.
- Date of commissioning: 16.09.2023

6. Erection of 220kV Twin Moose DC line by making LILO of existing 220kV Palakurthy-Bhimghanapur SC line to proposed 400/220/132kV KTPP SS at Ramappapoint in Jayashankar Bhupalapally District.

- The scheme is formulated under 400 kV KTPP system improvement scheme
- The administrative approval was accorded vide T.O.O (CE-400 kV) Ms. No.297, Dt:09.02.2019, Amount: Rs.454.23 Crores.
- The scheme envisages the following work:

- (ii) 220kV Twin Moose DC line by making LILO of existing 220kV Palakurthy-Bhimghanapur SC line to proposed 400/220/132kV KTPSS at Ramappa point 25KMs.

- Funding tie up with M/s PFC Ltd. & amount Rs.405 Crores.
- Date of commissioning : 22.06.2023

7. Erection of 220/132kV SS Ammavaripet & LILO one circuit of 220kV Manoharabad-Warangal DC line to proposed 220/132kV SS Ammavaripet in Warangal District.

- The scheme is formulated under “System Improvement Transmission Scheme to feed the upcoming industrial corridor at Madikonda and a Textile Park at Geesugonda”.
- The administrative approval was accorded vide T.O.O (CE-Construction) MS.No.294, Dt:29.01.2019, Amount: Rs.126.86 Crores
- The scheme envisages the following works:
 - (i) Erection of 220/132 kV Sub-Station at Ammavaripet with 2X100 MVA PTR Capacity in Warangal Dist
 - (ii) Erection of 220 kV DC Line on Galvanized Towers with Moose ACSR Conductor for LILO of one circuit of 220 kV Mahabubabad - Warangal line to proposed 220 kV Ammavaripet SS- 31KM
 - (iii) Erection of 132 kV DC Line on Galvanized Towers with Panther ACSR Conductor from the proposed 220/132 kV Sub-station Ammavaripet to the existing 132/33 kV Sub-Station, Geesukonda- 23KM
 - (iv) Erection of 132 kV Line on Multi-circuit Towers with Panther ACSR Conductor for accommodation of 132 KV Line to 132KV SS Inavole and 132KV Line to 132KV SS Wardhannapet from the proposed 220/132 kV Sub-station Ammavaripet to AP 8- 6.98KM
 - (v) Erection of 132 kV DC/SC Line on Galvanized Towers with Panther ACSR Conductor from the AP.8 to the 132/33 kV SS Inavole-2.32KM
 - (vi) Erection of 132 kV DC/SC Line on Galvanized Towers with Panther ACSR Conductor from the AP.8 to the 132/33 kV SS Wardhannapet- 16.25KM
 - (vii) Erection of 132 kV Bays (2 Nos at 132 kV Geesukonda, 1 No at 132 KV Wardannapet & 1 No at 132 kV Inavole)- 4Nos.
 - (viii) The investment approval No. CRN No: TST/TS/Erection of 220/132 kV Substation at Ammavaripet, Kazipet(M) in Warangal Urban District. Approval/ No.02/2019-20, Date. 10.08.2018, Amount.Rs.126.91 Cr
- Funding tie up with M/s PFC Ltd & amount Rs.87.24Crores.
- Date of commissioning: 31.03.2024

II. Works under progress (ongoing) of 220kV & 132kV Schemes

as on 31-03-2024

1. 132 kV DC line from the proposed 220/132/33 kV SS Parigi to 132/33 kV SS Dharmasagar

- The work is covered in 132KV SS Donthanpally.
- The administrative approval was accorded vide T.O.O.(CE-Construction) Ms.No.82, Dt:18.04.2018, Amount: 3215.00 Lakhs
- The scheme envisages the following work:
132 kV DC line from the proposed 220/132/33 kV SS Parigi to 132/33 kV SS Dharmasagar- 36KM (Rs.1836.00 Lakhs)
- The investment approval No.CRN.No.TST/TS erection of 132 kV SS at Donthanpalli in Rangareddy District /F-Revised approval/ INVST-12/18/2018-19, dt.10.09.2018, Amount in Rs.3215.00 Lakhs
- Funding tie up with M/s. REC Ltd & amount Rs.1926.27 Lakhs.

2. 132 kV SS Kandukuru& connected lines in Rangareddy District

- The scheme is formulated under “System Improvement Transmission Scheme to meet increased load on 33/11 kV substations and also to reduce 33 kV line losses”.
- The administrative approval was accorded vide T.O.O (CE-Construction-I) Ms.No. 347, Dated: 13.02.2013, Amount: Rs. 2275 Lakhs
- The scheme envisages the following works:
 - (i) 132/33 kV Substation at Kandukuru with 1x31.5 + 1 x 16 MVA(Released) PTR Capacity
 - (ii) 132 kV DC/SC line from proposed 220/132 kV Fab city substation to the proposed 132/33 kV Kandukuru substation on narrow based towers and Normal towers- 18KM
 - (iii) 132KV Bay extension at 132/33KV SS Fabcity- 1No.
- The investment approval No TST/TS/132 kV SS-Kandukuru/ F-INVST-05/2015.Dt.08.10.2014, Amount in Rs.22.74 Cr
- Funding tie up with M/s. REC Ltd.& amount Rs.2005.78 Lakhs

3. 220/132/33 kV Substation at Borampet in Ranga Reddy district

- The scheme is formulated “for evacuation of power from 2 X 800 MW Telangana STPP to be established by NTPC at Ramagundam”.
- The administrative approval was accorded vide T.O.O (CE-Transmission) Ms. No. 72 Dated: 13.05.2016, Amount: Rs.212.20Crores
- The scheme envisages the following works
 - (i) Erection of 220/132/33 kV Sub-Station at Borampet with 2 X 160 MVA + 2 X 80 MVA PTR Capacities.
 - (ii) 220 kV Multi Circuit OH line on MC Towers with Moose ACSR from 400 kV Narsapur SS to proposed 220 kV Borampet SS-38 KM
 - (iii) 220 kV DC line with UG Cable from 400 kV Narsapur SS to proposed 220 kV Borampet SS – 5 KM.
 - (iv) Erection of 220 kV Bays at 400 kV Narsapur-2 Nos.
- The investment approval CRN No. TST/TS/ 220/132/33 kV SS, Borampet RR District/ INVST- No. 07/16 - 2016-17.date.19.10.2016, Amount.Rs.21.22 Cr
- Funding tie up with M/s PFC Ltd & amount Rs. 182.98 Crores.

4. 132/33 kV Gas Insulated Sub-Station (GIS) at Seetharambagh in Hyderabad District

- The scheme is formulated to (i) reduce overloading of PTRs at 220/132/33 kV Shivarampally Sub-Station & 132/33 kV Imlibun Sub-Station, (ii) reduce the length of 33 kV lines feeding the scheme area, thereby reducing the time taken in locating faults, attending breakdowns & restoration of supply (iii) to provide reliable & uninterrupted power supply, (iv) reduce the overall energy losses in the system and (iv) to cater to the upcoming loads which are increasing multi-fold due to the vertical growth of the city and increase in commercial establishments.
- The administrative approval was accorded vide T.O.O (CE-Transmission) Ms. No. 28 Dated: 27.02.2017, Amount: Rs.63.63 Crores.
- The scheme envisages the following works:
 - (i) Erection of 132/33 kV GIS substation at Seetharambagh with 2X80 MVA PTR Capacities.
 - (ii) Erection of 132 kV DC line with 630 Sqmm 132 kV UG cable from Asifnagar Sub-Station to the proposed 132/33 kV GIS substation at Seetharambagh 132 kV Bay extensions at Asifnagar substation

- The investment approval CRN TS/TST/132/33 KV, GIS, Seetharambagh/Invest.Approval No.6/17-2017-18 , Amount.Rs.63.63 Cr
- Funding tie up with M/s REC Ltd & amount Rs. 57.26 Crores

5. 2nd circuit stringing on existing 132 kV DC/SC line from 220/132/33 kV Shadnagar SS to 132/33 kV SS Srirangapur in Ranga Reddy District

- The scheme is formulated under “System Improvement Transmission Scheme and as the 132/33 KVSS Srirangapur is being fed by the 132 KV Shadnagar - Srirangapur DC/SC line which is the only source for the sub-station i.e., radial feeder and to maintain reliable and quality power supply to the consumers in that scheme area.
- The administrative approval was accorded vide T.O.O (CE-Construction) MS.No.1461,Dt:19.08.2022, Amount: Rs.5.79 Crores
- The scheme envisages the following works:
 - (ix) 2nd circuit stringing on existing 132 kV DC/SC line from 220/132/33 kV Shadnagar SS to 132/33 kV SS Srirangapur with Panther ACSR conductor (including 2 Nos Narrow Base Towers)
 - (x) 132kV Bay Extensions (1 No at 220/132/33 kV SS Shadnagar& 1 No at 132/33 kV SS Srirangapur)
- Funding from TGTransco funds.

6. 132 kV features at 220 kV Thimmajipet Switching Station in Mahaboobnagar District and extending connectivity to 132 kV Jadcherla Sub-Station from Thimmajipet

- The scheme is formulated as part of “Comprehensive Transmission Requirement Scheme for the years 2012-2017”
- The administrative approval was accorded vide T.O.O(CE-Construction) MS.No.103 Dated:11.07.2017, Amount:Rs.29.32 Cr.
- The scheme envisages the following works:
 - (i) Erection of 132kV features at 220 kV Thimmajipet Switching Station in Mahaboobnagar District with 2x100 MVA PTRs.
 - (ii) Erection of 132 kV DC line on Galvanised Towers with Panther ACSR from the existing proposed 220/132 kV Thimmajipet Sub-Station, to the existing 132/33 kV Jadcherla Sub-Station -18kM.
 - (iii) 132 kV Bay extensions at 132/33 kV Sub-Station, Jadcherla- 2 No.s

- The investment approval No. CRN/TS/TST/220/Switching Station/ Mahaboobnagar / 132 KV Features /InvestApproval No.14/17-2017-18. date. December-2017,Amount.Rs.29.32 Cr
- Funding tie up with M/s REC Ltd & amount Rs.26.39 Cr.

7. 132 kV DC line from 400/220/132 kV SS Narsapur to 132/33 kV SS Yeldurthy in Medak District

- The scheme is formulated “to mitigate overloading on 132 kV Gajwel – Chegunta DC line”.
- The administrative approval was accorded vide T.O.O (CE-Construction) Ms. No.1208, Dated:04.10.2021, Amount: Rs.30.58Crores.
- The scheme envisages the following works:
 - (i) Erection of 132kV DC line on Galvanized Towers with Panther ACSR conductor from 400/220/132 kV SS Narsapur to 132/33 kV SS Yeldurthy.– 23kM.
 - (ii) Erection of 132 kV feeder bays (2 Nos at Narsapur& 2 Nos at Yeldurthy)
- The investment approval CRN/TST/TS/Erection of 132 KV DC line from 400/220/132 KV SS Narsapur to 132/33 KV SS Yeldurthy in Medak District. Approval No.04/2021-22, dt:05.02.2022, amount-30.58 Crores.
- Funding tie up is with M/s.HUDCO Ltd.

8. 132/33 kV Sub-Station at Nuthankal (V) & (M) in Suryapet District instead of 132/33 kV Aipoor SS in Suryapet District

- The scheme is formulated “to overcome the low voltage problems, to cater to the upcoming loads and also to provide quality power supply to the consumers”.
- The administrative approval was accorded vide T.O.O (CE-Construction) Ms. No.1330, Dated:10.03.2022, Amount: Rs.30.55Crores.
- The scheme envisages the following works:
 - (i) Erection of 132/33kV Sub-station at Nuthankal in Suryapet District with PTRs capacity of (2x50 MVA) + (1x10/16 MVA Released.)
 - (ii) Stringing of 2nd circuit from Loc.No.16 to Loc.No.75 (Tapping Tower) on existing 132kV DC/SC line from 400/220/132 kV SS Suryapet to 132/33kV SS Thungathurthy towers– 16.5kM
 - (iii) Erection of 132kV DC/SC line from Loc.No.75 (Tapping tower) to proposed to 132/33kV SS Nuthankal on Galvanised towers – 9.5kM
 - (iv) 132 kV Bay extension at 400/220/132kV SS Suryapet-1No.

- The investment approval No: TST/TS/ Erection of 132/33kV Substation at Nuthankal (V) & (M) in Suryapet District instead of 132/33 kV Aipoor SS in Suryapet district. Approval No. 02/2022-23.
- Funding tie up with M/s REC Ltd. & TGTransco funds

9. Erection of 220/132/33KV Substation at Husnabad in Siddipet District.

- The scheme is formulated under KTPS VII Stage power Transmission Scheme.
- The administrative approval was accorded vide T.O.O (CE-400KV) Ms. No.139, Dt:11.09.2017, Amount: Rs.1412.53Crores
- The scheme envisages the following works:
 - (i) Erection of 220/132/33kV SS Husnabad with 2X100MVA + 2X50 MVA PTRs.
 - (ii) 220kV DC line from 400/22kV Substation Jangon to proposed 220/132/33kV SS Husnabad-42Kms.
 - (iii) 132kV LILO from 132kV Palamkula-Husnabad DC/SC line to proposed 220/132/33kV Substation Husnabad in Siddipet District.-(2Kms.)
- Funding tie up with M/s PFC Ltd. & amount Rs.1077.12 Crores.

10. Erection of 220kV SMDC line from proposed 400/220kV SS Damaracherla to existing 220/132/33kV SS Huzurnagar in Nalgonda District.

- The scheme is formulated under Yadadri Thermal Power (5X800MW) Evacuation Scheme.
- The administrative approval was accorded vide T.O.O (CE-400KV) Ms. No.451, Dated:10.10.2019, Amount: Rs.2354.35Crores
- The scheme envisages the following works:
 - (i) 220kV SMDC line from proposed 400/220kV SS Damaracherla to existing 220/132/33kV SS Huzurnagar-45 KM.
 - (ii) 220kV Bay extensions at 220/132/33kV SS Huzurnagar-2No's
- Funding tie up with M/s PFC Ltd. & amount Rs.1102.26 Crores.

11. Erection of 220KV DC line with single Moose conductor from 220/132kV SS Indravelly (Uttoor) to existing 132/33kV SS Asifabad.(To be charged at 132kV Level).

- The scheme is formulated under Nirmal power transmission Scheme.
- The administrative approval was accorded vide T.O.O (CE-400KV) Ms. No.07, Dated:09.01.2018, Amount: Rs.1151.05Crores

- The scheme envisages the following works
 - (i) 220kV SMDCL line from 220/132kV SS Indravelly(Utnoor) to the existing 132/33kV SS Asifabad.-71KMs.
 - (ii) 132kV Bay extensions at /132/33kV SS Asifabad -2No's
- Funding tie up with M/s REC Ltd. & amount Rs.843.16 Crores.

12. Providing of alternate supply to 132/33 kV SS Chennur and 132/33 kV SS Kataram from 220/132 kV SS Manthani in Karimnagar District.

- The scheme is formulated under the program for providing 9.00 Hrs Day Time Supply for Agriculture.
- The administrative approval was accorded vide T.O.O (CE-Transmission) Ms. No.210, Dt:06.11.2015, Amount: Rs.12.13Crores
- The scheme envisages the following works
 - (i) Stringing of two circuits on already approved (under construction) 132 KV Multi circuit towers from 220/132 KV SS Manthani upto Loc. No. 19 of existing 132Kv Manthani – Kataram line.
 - (ii) Erection of 132 kV DC line (5.00 KM) from existing Loc. No. 19 upto Loc.No. 34A, of 132 kV Manthani – Kataram line.
 - (iii) Stringing of 2nd circuit from newly proposed DC line (from Loc No. 34A of 132 kV Manthani – Kataram) to 132/33 kV Chennur SS on the existing DC/SC line.
 - (iv) Stringing of 2nd circuit from Loc. No. 34A of existing 132 kV Manthani – Kataram line to 132/33 kV SS Kataram.
 - (v) Erection of 132 KV bay (at 220/132 KVSS Manthan - 2 Nos., at 132 kV SS kataram - 1No.at 132 kV SS Chennur - 1 No. Total-4Nos.
- Funding tie up with M/s REC Ltd. & amount Rs.10.92 Crores.

13. Erection of 132/33 KV Sub-Station at Koutala (V) in Koutala (M) of Komaram Bheem Asifabad District.

- The scheme is formulated under system improvement scheme to avoid power interruption and to give better supply to the area.
- The administrative approval was accorded vide T.O.O (CE-Construction) Ms. No.981, Dt: 22.02.2021, Amount: Rs.56.56Crores.
- The scheme envisages the following works

- (i) Erection of 132/33 kV Sub-Station at Koutala in Komaram Bheem Asifabad Dist with 2 X 10/16 MVA PTRs (Released).
- (ii) 132 KV DC/SC line from existing 132 KV Sirpur Kagaznagar SS to proposed 132 KV SS Koutala.-43.40KMs.
- (iii) 132 KV feeder bay at existing 132 KV SS Sirpur Kagaznagar-1no's
- The investment approval No. (CRN) TST/TS/ Erection of 132/33kV Sub-station at Koutala(V) & (M) of Komaram Bheem Asifabad District .Approval No.02/2021-22
- Funding tie up is with M/s.HUDCO Ltd.

14.132/33 kV SS at Peechara in Warangal Dist.

- The scheme is formulated “to meet the load demand and to improve the voltage profile”
- The administrative approval was accorded vide T.O.O (CE-Construction) Ms. No.43, Dated:06.03.2018. Amount: Rs.43.92 Crores
- The scheme envisages the following works
 - (i) Erection of 132/33 kV Sub-Station at Peechara, Warangal Dist with 2 X 31.5 MVA PTRs.
 - (ii) Erection of 132 kV DC line with HTLS Conductor on Galvanised Towers by making LILO of existing 132 kV line from 220/132/33KV Waranagal SS to 132/33KV Jangaon SS at proposed 132/33KV Peechara SS-12 KM
- The investment approval No. CRN No.TST/TS/Erection of 132/33 KV Substation at Peechara in Warnagal District. Approval No. 05/2018-19.date. 19.07.2018, Amount.Rs.43.92 Cr
- Funding tie up with M/s REC Ltd.& amount Rs. 39.11 Crores

B. PLANS FOR CAPITAL EXPENDITURE for 400KV Schemes

i. 400kV Capital Works completed during FY 2023-24:

- 1) Yadradri Thermal Power (5x800 MW) Evacuation Scheme :
 - a) Choutuppal 400/220/132kV Substation is commissioned with 1x500 MVA ICT on 16.03.2023 and the following ICT/PTRs are charged during 2023-24:
 - i) 2nd 500 MVA, 400/220kV ICT charged on 03.11.2023,
 - ii) 1st 160 MVA, 220/132kV PTR charged on 08.01.2024
 - iii) 2nd 160 MVA, 220/132kV PTR charged on 15.02.2024

- b) 2 Nos. 400kV Feeder Bay Extensions (YTPP-I & 2) charged at Dindi 400/220kV Substation on 11.07.2023
- 2) Reactors Scheme-III :
- a) 125MVAR Bus Reactor charged on 04.03.2024 at Maheshwaram 400/220kV Substation.
- b) 125MVAR Bus Reactor charged on 19.03.2024 at Kethireddypally 400/220/132 kV Substation.
- 3) Augmentation Scheme-IV (Transformation capacity addition) :
- a) 1 No. 500 MVA, 400/220 kV ICT charged on 04.08.2023 (in place of 315MVA ICT) at the existing Veltoor 400/220 kV Substation.
- b) 1 No. 500 MVA, 400/220 kV ICT charged on 30.12.2023 at the existing Suryapet 400/220/132 kV Substation.
- c) 1 No. 500 MVA, 400/220 kV ICT charged on 21.02.2024 at the existing Dichpally 400/220 kV Substation.
- 4) **400kV LI Scheme : Sita Rama Lift Irrigation Scheme:**
- 1) 220/11 kV V.K.Ramavaram LI Substation charged on 28.04.2023.
- 2) 220kV LILO of KTS - Asupaka Line to V.K. Ramavaram 220/11 kV LI Substation (2.832 ckm) charged on 28.04.2023

ii. Capital Works in progress as on 31.03.2024 :

1) KTPP System Improvement Scheme :Bhupalapally 400/220/132kV Substation

[CRN : TST/TS/KTPP SIS/ Approval No.03/2019-20]

All Tower Foundations & Erection and Equipment Structure Foundation works completed. Equipment Erection works nearing completion. Testing of Control & Relay Panels are under progress.

2 Nos of 500 MVA, 400/220kV ICTs pre-commissioning tests completed and HVWS works in progress. Reactor placed on plinth and erection works are in progress.

Status of Works completed at 400/220/132kV Bhupalapally Substation:

Voltage level of switchyard	No. of Towers	Tower Foundations completed	Total No. of Equipment Locations	Works completed status		
				Foundations	Support Structure Erection	Equipment Erection
400kV	27	27	207	207	204	200
220kV	55	55	232	232	232	232
132kV	14	14	58	58	48	40
Total	96	96	497	497	484	472

2) Yadradri Thermal Power (5x800 MW) Evacuation Scheme :

[CRN : TST/TS/Yadadri Thermal Power Evacuation/Approval No.09/2019-20,
dated 27.01.2020]

a) 400kV Yadadri TPP - Dindi QMDC Line : Statutory Inspection remarks are being attended.

- i) No. of Foundations completed : 290 / 290
- ii) No. of Towers Erected : 290 / 290
- iii) Stringing completed (in ckm) : 207.566 / 207.566

b) 400kV Yadadri TPP - Choutuppal QMDC Line : Works are under progress.

- i) No. of Foundations completed : 259 / 259
- ii) No. of Towers Erected : 258 / 259
- iii) Stringing completed (in ckm) : 66.21 / 184.75

c) 400kV Yadadri TPP - Jangaon QMDC Line : Works are under progress.

- i) No. of Foundations completed : 367 / 402
- ii) No. of Towers Erected : 290 / 402
- iii) Stringing completed (in ckm) : 43.834 / 278

d) 2 Nos. 400kV Feeder Bay Extensions at 400kV Jangaon Substation : Testing & Commissioning works under progress.

e) 125 MVAR Bus Reactor at Choutuppal commissioned in July, 2024.

3) Reactor Scheme-III [CRN:TST/TS/Reactor Scheme-III/ Approval No.04/2019-20]
Supply of all the balance 6 Nos. Reactors completed and the status is as below:

a) 125 MVAR Bus Reactor at Suryapet 400/220/132 kV Substation: commissioned in April, 2024.

b) 125 MVAR Bus Reactor at Narsapur 400/220kV Substation : commissioned in April, 2024.

c) 125 MVAR Bus Reactors at Dindi 400/220kV Substation :

Reactor Equipment Bays charged on 03.03.2023.

1st 125 MVAR Bus Reactor commissioned in April, 2024.

2nd 125 MVAR commissioned in October, 2024.

d) 125 MVAR Bus Reactor at Jangaon 400/220kV Substation: commissioned in May, 2024.

e) 80 MVAR Bus Reactor & 63 MVA Line Reactor at Asupaka 400/220kV Substation : All the Erection works of Reactor & Reactor Bay Equipment completed. Testing and commissioning works are under progress. Both the Reactors are programmed for commissioning during May/ June, 2024.

4) Augmentation Scheme-IV :

[CRN : TST/TS/Augmentation Scheme-IV/ Erection of 315/500MVA ICT's at 400kV Suryapet, Asupaka, Veltoor,Dichpally&Gajwel Substations Approval No.01/2022-23]

- a) 1x315 MVA ICT at Kamlapuram 400/220kV Substation: The dismantled 315 MVA ICT at 400kV Gajwel SS is transported to Kamalapuram 400kV SS and the ICT charged on 29.4.2024.
- b) 1x315 MVA ICT at Asupaka 400/220kV Substation: The dismantled 315 MVA ICT at 400kV Veltoor SS is transported to Asupaka 400kV SS and the ICT charged on 4.10.2024.

C. PLANS FOR CAPITAL EXPENDITURE for RMI Schemes

- i) The Administrative approval for Replacement of aged/obsolete equipment & strengthening/improvement works in EHT sub-stations and Transmission lines under Renovation & Modernization Scheme during the FY:2023-24 for an amount of Rs. 67.90 Crore vide T.O.O.CE(Transmission) Ms.No.1810, Dt. 07-10-2023 was issued as per the approval of Hon'ble TSERC.
- ii) Procurement under progress for replacing the old and obsolete equipment under RMI Scheme, so that outages of substation equipment have been reduced, improving reliability and stability of transmission system.
- iii) Due to implementation of RMI Scheme, outages of substation equipment have been reduced, improving reliability and stability of Transmission System and able to implement the Government of Telangana prestigious flagship programme "24 Hrs Agriculture Supply" to farming sector.
- iv) Following works have been included under RMI 2023-24 Scheme in the State.
 - Replacement of old & obsolete substation equipment viz Electrical and Telecom
 - Shifting of 33KV Equipment and 33KV Feeders from underneath of the Bus
 - Metal Spreading works and water supply arrangements to earth pits in the EHT Substations.
 - Strengthening of Transmission lines, replacement of conductor works.

D. PLANS FOR CAPITAL EXPENDITURE for Lift Irrigation Schemes

I. Palamuru Lift Irrigation Scheme

i. List of 400kV lines and Substations commissioned during FY2023-24

- i) 400/11kV Narlapur LI Sub-Station (incl.1No.125MVAR Bus Reactor).
 - Charged on 12.09.2023
- ii) 400/11kV Vattam LI Sub-Station (incl.1No.125MVAR Bus Reactor).
 - Charged on 20.10.2023
- iii) 400/11kV Yedula LI Sub-Station (incl.1No.125MVAR Bus Reactor).
 - Charged on 12.09.2023
- iv) 2Nos.400kV QMDC Bays at 400/220kV Dindi Sub-Station
 - Charged on 10.06.2023
- v) 400kV QMDC Line from proposed 400/11kV Yedula LISS to proposed 400/11kV Narlapur LISS(27.737 kM).
 - Circuit –II charged on 12.09.2023
 - Circuit-I charged on 27.09.2023
- vi) 400kV QMDC Line from 400/220kV Dindi SS to proposed 400/11kV Yedula LISS(55.32kM).
 - Circuit –II charged on 12.09.2023
 - Circuit-I charged on 27.09.2023
- vii) 400kV QMDC Line from 400/11kV Yedula LI SS to 400/11kV Vattam LI SS (30.363 kM),
 - Circuit –I charged on 20.10.2023
 - Circuit-II : All works completed and ready for charging.

ii. work progress as on 31.03.2024

- i) 400/11kV Narlapur LI Sub-Station (incl.1No.125MVAR Bus Reactor).

The substation was charged on 12.09.2023 and finishing civil works such as Roads, Drains, Cable trench, Control room building, Firefighting room etc are under progress.
- ii) 400/11kV Vattam LI Sub-Station (incl.1No.125MVAR Bus Reactor).

The substation was charged on 20.10.2023 and finishing civil works such as Roads, Drains, Cable trench, Control room building, Firefighting room etc are under progress.

- iii) 400/11kV Yedula LI Sub-Station (incl.1No.125MVAR Bus Reactor).
The substation was charged on 12.09.2023 and finishing civil works such as Roads, Drains, Cable trench, Control room building, Firefighting room etc are under progress.
- iv) 2Nos.400kV QMDC Bays at 400/220kV Veltoor Sub-Station
All works are completed and equipment testing is under progress.
- v) 400kV QMDC Line from 400/220kV Veltoor SS to 400/11kV Yedula LI SS (46.801kM)
All works completed and statutory inspection in under progress.
- vi) 400/11kV Uddandapur LI Sub-Station (incl.1No.125MVAR Bus Reactor).
Works stopped due to severe ROW issues since November-2023.
- vii) 400kV QMDC Line from 400/11kV Vatterm LISS to 400/11kV Uddandapur LI SS (34.139kM).
All works completed except gantry connections.
- viii) 400kV QMDC Line from 400/220kV Maheswaram SS to 400/11kV Uddandapur LI SS (60.245kMs).
All works completed except gantry connections.

II. Kaleshwaram Lift Irrigation Scheme :

i. Works completed during FY:2023-24 :

- a. The addition of Transmission network in respect of LI Schemes for FY 2023-24 is as detailed below.

Description	FY 2023-24
400kV Lines (CKM)	0
220kV Lines (CKM)	110.00
132kV Lines (CKM)	0
400kV SS	0
220kV SS	1
132kV SS	0

- b. Details of Sub Stations and Connected Transmission Lines commissioned under Lift Irrigation Scheme works during FY 2023-24

<u>List of Lines completed during FY 2023-24</u>				
Sl. No	Name of the LIS	Name of the Line	Length (CKM)	Date of Commissioning
1.	J.Chokka Rao Devadula Godavari LIS Phase-III	220kV DC line from 400/220kV Jangaon SS to Devannapeta	110	19.06.2023

<u>List of Substations completed during FY 2023-24</u>			
Sl. No	Name of the LIS	Sub-station	Date of Commissioning
1.	J.Chokka Rao Devadula Godavari LIS Phase-III	220/11kV Devannapeta Sub-Station in Hanumakonda Dist., (formerly Warangal(Urban) Dist.,)	19.06.2023

<u>List of Bays completed during FY 2023-24</u>				
Sl. No.	Name of the work	No. of Bays		
		400kV	220kV	132kV
NIL				

ii. Details of Ongoing works during FY 2023-24 (Progress as on 31.03.2024)

The ongoing Transmission Lines and Substations in respect of LI Schemes for FY 2023-24 is as detailed below:

Sl. No.	Description	Status
Kaleshwaram Lift Irrigation Scheme:		

Sl. No.	Description	Status
1.	220/11 kV Manichippa SS & connected 220kV DC line from Dichpally to Manichippa (48 CKM)	<p>Substation: Tower Foundations : 40/40 No's completed, Tower Erection : 40/40No's completed, Equipment Foundation : 114/126 No's completed, Structure Erection : 106/126 No's completed, Works are under progress.</p> <p>Line: Survey :89/89 ,24.176 Km completed Foundations :89/89 No's completed, Erections : 89/89 No's completed, Stringing :24.176/24.176 KM.</p> <p>The 220KV DC line from 400/220KV Dichpally SS to 220/11KV SS Mentrajpally at loc.No.20 charged.</p> <p>Erection of 2No. 220kV bay extensions at 400/220kV Dichpally substation in Nizambad District Bay charged on 31.03.2023</p>
2.	220/11 kV Yacharam Thanda SS & connected 220 kV DC line from Dichpally to YacharamThanda (53.7 CKM)	<p>Substation: Tower Foundations : 37/38 completed, Tower Erection : 37/38 completed, Equipment Foundations : 158/159 completed, Equipment Erection: 154/154 completed,</p> <p>Line: Survey :26.902/26.902 kM completed Tower Foundations :97/97 Nos Completed, Tower Erection :95/97 Nos completed, Stringing :21.224/26.902kM Balance Erection and Stringing work will be taken up after crop cutting.</p>
3.	220/11 kV New Manchippa SS & connected 33 kV DC Line (4 kM) from 220/33 kV Manchippa SS to 33/11 kV Ghadkol (New Manchippa) Substation (8 CKM)	<p>Substation: Tower Foundations : 9/9 No's completed, Tower Erection : 9/9No's completed, Equipment Foundation : 39/39No's completed, Structure Erection : 39/39 No's completed, Works at 33/11KVSS Ghadkol are not started as the Site is yet to be handed over by I&CADD.</p> <p>Line: 33 KV Line Survey : 4/ 4KM completed, Foundations : 0/100No.s, Erections : 0/100 No.s, Stringing : 0/4 KM.</p> <p>DC Line from 220/33 kV New Manchippa SS to 33/11kV Ghadkol SS of Line length 4 Km is not yet started due to ROW issues.</p>
Kaleshwaram Lift Irrigation Scheme-Additional TMC Works:		

Sl. No.	Description	Status
1.	400/220 KV Annaram Substation & connected 400 KV QMDC line (approx. 22.5 KM) from STPP(Jaipur) to proposed 400 KV SS at Annaram pump house in Peddapally District (40.344 CKM)	400/220kV Sub-Station Works: Tower Foundations :65/70 No's Completed, Tower Erection :0/70 No's Completed, Equipment Foundation:211/676 No's Completed, Structure Erection :0/676 No's Completed, Line: Survey :20.172/20.172 KM Completed, Foundations :62/63 No's Completed, Erections :0/63 No's Completed, Stringing :0/20.172 KM Completed,
2.	TMDC Line from 400/220 KV Annaram SS to 220/11 KV SS at Medigadda - 48 KM and 2 Nos Bay extensions at existing 220/11 KV Medigadda LI SS. (96 CKM)	Line: Survey : 40.494/40.494 KM completed Tower Foundations :129/155 Nos completed, Tower Erection :118/155 Nos completed, Stringing : 0/40.494 Km completed,
3.	400 KV Switching Station at Kachapur & connected (i)LILO of 400kV QMDC Line from STPP Jaipur- 400/220/11kV Ramadugu SS of line length 2 X 3.5 KM (7 CKM)	Substation: Tower Foundations : 0/76 No's completed Tower Erection : 0/76No's completed Equipment Foundation : 0/1074No's completed, Structure Erection : 0/1074 No's completed, Line: Survey : 9.57/9.57 Km completed Foundations : 18/30 No's completed, Erections : 0/30 No's completed Stringing : 0/9.57 Km
	(ii)400kV QMDC Line from 400kV Kachapur Switching station to 400/220/132kV Gajwel SS of line length 9 KM (18 CKM)	Survey : 7.228/7.228 Km completed Foundations :14/23 No's completed, Erections : 0/23 No's completed, Stringing : 0/7.228 Km,
	(iii) LILO of 400kV QMDC Line from Telangana STPP NTPC (2x800MW)- 400/220/32kV Narsapur SS of line length 2 X 2.5 KM (5 CKM)	Survey : 3.908/3.908 Km completed Foundations : 07/13 No's completed, Erections : 0/13 No's completed, Stringing : 0/3.908 Km,
4.	400/11KV Namapur (Pegadapally) Substation & connected (i)400 KV TMDC line from Namapur Substation Switchyard to Transformer Deck of Pump House of length 2 Km (4 CKM)	Substation: Tower Foundations : 44/44 No.s completed Tower Erection : 0/44 No.s completed, Equipment Foundation: 564/705No.s completed, Structure Erection : 0/705 No.scompleted, Line: Tower Foundation : 0/6Completed Tower Erection : 0/6Completed Stringing : 0/2.13Completed
	(ii) 400kV QMDC Line from 400kV Kachapur Switching station to 400/11kV Namapur (Pegadapally) SS of Line length 19.3 Km. (38.6 CKM)	Line: Survey : 15.14/15.14 Km completed Foundation : 35/46 No.s completed, Erection : 0/46 No.s completed, Stringing : 0/15.14 Km

Sl. No.	Description	Status
	(iii)400kV QMDC Line from 400kV Velgatoor Switchyard to 400/11kV Namapur (Pegadapally) SS of line length 22.5 Km (45 CKM)	Line: Survey : 21.74/21.74 Km completed Foundations : 58/70 No.s completed, Erections : 0/70 No.s completed, Stringing : 0/21.74 Km,
5.	400/11KV Velgatoor Substation & connected 400kV QMDC Line from Velgatoor Switchyard to Transformer deck of 3.712CKM.	Substation: Tower Foundations : 56/58 No's completed. Tower Erection : 56/58 No's completed. Equipment Foundation : 745/787No's completed. Structure Erection : 550/787 No's completed, Equipment Erection : 177/787 No's completed, Line: Tower Foundation :0/13Completed Tower Erection : 0/13Completed Stringing : 0/3.712Completed
	400kV QMDC Line from 400kV Kachapur Switching station to 400/11kV Velgatoor SS of Line length 26 Km. (52 CKM)	Line: Survey : 24.70/24.70 Km completed Foundations : 67/76 No's completed, Erections : 66/76 No's completed, Stringing : 0/24.70 Km,
6.	400/11kV Veljipur Sub-Station & connected 400KV QMDC Line from existing 400/11KV Tippapur SS to proposed 400/11KV SS Veljipur of line length of 5.5 Kms (11 CKM)	Substation: Tower Foundations : 23/27 No's completed, Tower Erection : 30/39 No's completed, Equipment Foundation : 176/185 No's completed, Structure Erection : 156/176 No's completed, Equipment Erection : 156/185 No's completed, Line: Survey : 5.1/5.1 Km completed Foundations : 18/18 No's completed, Erections : 17/18 No's completed, Stringing : 0/5.1 Km completed,
7.	400/11KV Yellaipally Substation & connected 400 KV QMDC Line from Existing 400/13.8/11 KV Chandlapur SS to proposed Yellaipally 400/11 KV Substation 9.548 Km. (19.01 CKM)	Substation: Tower Foundations :21/21 completed Tower Erection :21/21 completed, Equipment Foundations :369/459 completed, Structure Erection :202/317 completed Line: Survey: 9.548/9.548kM completed Foundations: 30/30 Nos completed. Tower Erection: 29/30Nos completed, Stringing: 9.229/9.548 kM,
8.	400 kV QMDC line from existing 765/400 kV Nizamabad SS (PGCIL) to existing 400/13.8/11 kV Chandulapur SS (Approx. length 94 kM) on turnkey basis. (188 CKM)	Line: Survey : 93.998/93.998 Km completed Foundations : 211/278No.s completed, Erections : 0/278 No.s completed, Stringing : 0/93.998 Km.

Sl. No.	Description	Status
9.	New Tukkapur 400/11KV SS	Substation: Tower Foundations : 0/18 No.s completed Tower Erection : 0/18 No.s completed Equipment Foundation : 68/542No.s completed, Structure Erection : 0/542 No.s completed.

Description	2023-24
400kV Lines (CKM)	431.66
220kV Lines (CKM)	205.7
132kV Lines (CKM)	0
33kV Lines (CKM)	8
400kV SS	7
220kV SS	2
132kV SS	0

ANNEXURE – II PERFORMANCE MEASURES

NUMBER AND DURATION OF SUPPLY INTERRUPTIONS

1. Requirement in the Guidelines:

Number and duration of supply interruptions on transmission networks, separately for 400kV, 220 kV and 132 kV. Details of steps proposed to improve performance and monitoring. (Guidelines – 11a)

2. TGTransco's Response:

Interruptions on EHT lines during 2019-20,2020-21, 2021-22, 2022-23& 2023-24

Most of the feeders have alternative supply. Hence, whenever there is any interruption to one feeder, then supply is provided from the alternate source and interrupted feeder is restored immediately by taking necessary steps. All transmission line breakdowns are logged and recorded. The data sheets maintain information such as circuit name and number, date and time of occurrence, date and time of restoration, any remedial measures taken for alternate supply, and a brief description of the cause. As the data is voluminous, and manually entered, all the log sheets have not been included in this filing. However, any data requested by the Commission can be made available as and when requested. Considering the vast extent of the transmission system and the number of transmission circuits, the average availability factor of EHT lines of TGTransco for the years 2019-20 to 2023-2024 works out at 99.98%. The details of the line availability for the years 2019-20,2020-21, 2021-22, 2022-23& 2023-24 are shown in the tables below.

Interruptions on EHT lines during 2023-24

Year	EHT line voltage	No. of interruptions	Total time of interruptions (Hrs)	Avg. Duration Per Interruption (Hrs)
2023-24	400kV	17	194.05	Beyond 2 Hrs. (11.41)
	220kV	62	707.58	Beyond 2 Hrs. (10.92)
	132kV	96	1266.07	Beyond 2 Hrs. (10.22)

Transmission System Availability during 2023-24:

Sl. No.	Financial year	Transmission System Availability
1	2023-24	99.98%

Target Transmission System Availability for FY 2025-26 :

Sl. No.	Financial year	Target System Availability
1	2024-25	99.9%
2	2025-26	99.9%

Steps implemented /proposed to improve performance and monitoring of Transmission System

The following steps have been implemented to improve the performance and monitoring.

- Replacement of aged conductors in a phased manner, since conductor snapping and jumper failures are found to be the major causes for interruptions.
- Replacement of old and failed insulators on existing lines.
- Reinforcement of the conductor of overloaded lines, periodical tree cutting work to prevent falling of branches with conductor, conducting quarterly inspection of lines and timely rectification of defects noticed.
- Breakdown staff attending supply interruptions is arranged round the clock.
- Emergency vehicles are kept ready for breakdown staff round the clock to facilitate quick and timely deployment of staff and minimize the duration of interruptions.
- Safety appliances such as gloves, safety shoes, helmets, earthing rods are also provided to the breakdown staff with necessary T&P.
- Use of off line signature preventive maintenance and line fault locators for locating the fault on lines during breakdowns.
- TGTRANSCO is carrying out the hot line works very effectively in the live line maintenance from 132kV to 400kV lines and Sub-Stations by adopting hot stick method - using insulated sticks, bare hand technique – using conductive suit along with insulated ladder. Like replacement of damaged insulators, tightening of bolts and nuts of jumpers, shoe clamp, tension clamp and bay to bay jumpers connection etc.,

Major Grid Disturbances / Incidents occurred during the years 2023-24.

I. Major Grid Disturbance(s)/Incident(s)occurred during the year 2023-24

- a) Complete outage of 400/220kV Dhamarcherla SS on 08-06-2023 at 08:20 Hrs.
 - i. On the day of incident i.e., 08-06-2023 at 08:20Hrs there was severe DC leakage i.e., +ve to ground is 5V and –ve to ground is 225V on DC Source-1 near the line isolator Marshalling box of 220kV Miryalaguda-1 feeder.
 - ii. Due to the above DC leakage, under voltage relay in the DCDB of Source-1 has tripped the incomer of DC Source-1.

- iii. As the DC source change over in DCDB was in Auto mode, all the feeders on DC source-1 was connected to DC Source-2 through DC Bus coupler. Due to this, incomer of DC Source-2 also tripped on operation of Under Voltage relay.
- iv. As the substation was newly commissioned, CTDs were in service on all the ICTs and feeders. All the elements i.e., 500MVA ICT-1 & 2 , 400kV YTPP-1 & 2 feeders and 220kV Miryalaguda-1 & 2 feeders tripped on operation of CTD protection due to DC (Source-1 & 2) failure.

Performance Measures:

CTDs on all the feeders and ICTs were removed and also DC Earth Leakage was rectified after the tripping incident.

- b) Complete Outage of 220kV/11kV BG Kothur LIS SS of TGTRANSCO on 27-07-2023 at 16:10Hrs.
 - i. 220/11kV B.G.Kothur lift irrigation substation was commissioned on 08.06.2022 which is being operated in coordination with I & CAD officials where in DC sources-1& 2 are under the control of TGTRANSCO and I & CAD respectively due to space limitations at site.
 - ii. I & CAD officials switched off the incomer of DCDB –II as the DC source-II is under their control and operated without any coordination and prior information Consequently the loads were fed from DC source-I.
 - iii. On 27.07.2023 DC source-1 was also switched off without any coordination with TGTRANSCO field officials. Due to this, at 16:11 hrs, 220kV Manuguru, 220kV Chintoor, 220kV KTS O&M and 220kV KTS -V stage feeders and bus coupler got tripped on CTD.

Performance Measures:

- CTDs on 220kV Manuguru, 220kV Chintoor, 220kV KTS O&M and 220kV KTS -V stage feeders and bus coupler were removed and charged the feeders.
- Informed I & CAD officials to avoid any unauthorised operations of AC and DC sources without coordinating with TGTRANSCO officials to avert such incidents in future.

PERIODS WHEN VOLTAGE AND FREQUENCY WAS BEYOND PRESCRIBED LIMITS

1. Requirement in the Guidelines

Periods when voltage and/or frequency was beyond the prescribed limits on Transmission (400 kV, 220 kV, 132 kV) networks. Details of steps proposed to improve performance and monitoring. (Guidelines – 11b).

2. TGTransco's Response:

I. FY: 2023-24

a. PERIODS WHEN FREQUENCY WAS BEYOND PRESCRIBED LIMITS DURING FY:2023-24

The details of frequency in Average, Maximum, Minimum and % time experienced during FY-2023-24 is shown below.

Month	Average	Maximum		Minimum	
	HZ	HZ	Date	HZ	Date
Apr-23	49.99	50.33	23 rd	49.49	15 th
May-23	49.99	50.43	18 th	49.48	15 th
Jun-23	50.01	50.41	14 th	49.51	15 th
Jul-23	50.01	50.42	30 th	49.58	3 rd
Aug-23	50.00	50.29	2 nd	49.51	31 st
Sep-23	50.00	50.30	18 th	49.53	1 st
Oct-23	49.99	50.30	27 th	49.47	16 th
Nov-23	50.00	50.39	27 th	49.55	25 th
Dec-23	49.99	50.42	17 th	49.53	7 th
Jan-24	50.00	50.33	21 st	49.52	17 th
Feb-24	50.00	50.35	1 st	49.57	18 th
Mar-24	50.00	50.43	17 th	49.59	28 th
Year	49.72	50.43	18.05.2023	49.47	16.10.2023

Month	<49.90 Hz	IEGC BAND (49.90-50.05 Hz)	>50.05 Hz
Apr-23	10.54	67.90	21.55
May-23	9.83	68.48	21.69
Jun-23	6.47	67.83	25.70
Jul-23	4.60	74.96	20.44
Aug-23	7.11	77.25	15.64
Sep-23	5.26	77.90	16.84
Oct-23	8.87	74.42	16.71
Nov-23	6.83	74.36	18.81
Dec-23	7.83	75.21	16.96
Jan-24	6.79	75.83	17.37
Feb-24	6.32	74.42	19.26
Mar-24	6.02	77.51	16.46
Average	7.21	73.84	18.95

b. VOLTAGES OF TS SYSTEM FOR 2023-24 AS PER SCADA DATA

Voltages recorded at some of the Generating Stations, Grid sub-stations and Tail-end sub-stations on 08.03.2024, the date on which the State Peak Demand Met i.e., 15623 MW are as tabulated below.

Voltages profile at various Generating Stations as on 08.03.2024

400kV Level						
S.NO	STATION NAME	00:00	08:00	19:00	Max	Min
1	BHUPALAPALLY(KTPP)	412.73	410.98	419.84	423.07	403.99
2	BTPS	407.82	407.68	412.96	415.49	401.67
3	KTPS-VI	416.04	414.77	423.05	425.72	406.93
4	KTPS-VII	413.27	412.51	420.72	424.7	404.16
5	SINGARENI	415.87	416.31	419	423.15	411.66
6	SRISAILAM	417.79	418.75	425.47	432.58	401.59

220kV Level						
S.NO	STATION NAME	00:00	08:00	19:00	Max	Min
1	KTPS-V	229.53	227.94	234.11	236.04	223.57
2	LOWER JURALA	216.08	215.42	229.04	231.26	208.16
3	U.JURALA	215.21	214.51	229.22	232.45	206.85
4	N'SAGAR MAIN	225.42	223.72	236.59	238.92	216.08

132kV Level						
S.NO	STATION NAME	00:00	08:00	19:00	Max	Min
1	N'SAGAR	134.3	133.39	141.53	142.78	129.08

Voltages profile at various 400kV substations as on 08.03.2024

S.NO	STATION NAME	00:00	08:00	19:00	Max	Min
1	ASUPAKA	423.56	422.17	430.72	436.72	410.07
2	CHANDULAPUR	409.12	409.53	421.63	425.01	401.9
3	DICHPALLY	413.76	413.64	423.63	432.17	402.14
4	DINDI	413.56	413.67	424.42	429.49	401.53
5	GAJWEL	410.59	408.24	424.54	427.4	401
6	JANGAON	413.66	410.33	426.52	428.99	405.42
7	JULURUPADU	415.38	415.47	425.02	427.43	408.22
8	KETHIREDDY PALLI	411.71	414.49	423.54	430.28	401.35
9	MAHABOONNAGAR	408.98	412.93	419.19	428.75	396.45
10	MAHESWARAM	412.18	414.33	422.12	428.72	399.79
11	MAMIDIPALLY	409.11	410.86	420.82	426.1	396.8
12	MALKARAM	416.00	419.5	427.3	434.5	406
12	MEDARAM	412.98	412.09	422.57	426.28	405.33
13	NARSAPUR	409.74	411.63	424.27	427.15	403.35
14	NIRMAL	415.17	413.33	425.43	429.99	404.63
15	RAMADUGU	412.5	411.45	422.28	425.84	404.76
16	SHANKARPALLY	409.21	411.33	421.14	427.07	398.88
17	SUNDILA	414.87	416.13	419.14	423.46	409.89
18	SURYAPET	416.56	416.71	425.59	430.53	404.61
19	TUKKAPUR	411.23	411.71	423.38	427.36	403.15
20	TIPPAPUR	411.28	412.04	423.28	426.23	404.39

Voltages profile at various 220kV Major substations as on 08.03.2024

S.NO	STATION NAME	00:00	08:00	19:00	Max	Min
1	BONGULUR	224.65	224.62	231.59	234.12	216.75
2	BOMMAKAL	223.5	214.08	233.8	235.34	210.12
3	BHEEMGAL	218.55	215.65	230.47	232.73	210.17
4	BHEEMGHAPUR	225.95	215.65	233.56	235.19	211.03
5	BHONGIR	223.17	221.37	230.92	233.48	215.34
6	BELLAMPALLY	228.19	224.9	236.89	238.83	220.72
7	BRAMHANAKOTKUR	224.21	224.33	228.67	232.03	212.43
8	BUDIDAMPAD	227.57	224.03	233.69	235.95	218.55
9	CHALAKURTHY SWS	220.13	218.45	226.66	230.86	211.16
10	DICHPALLY	223.43	222.11	235.42	236.83	216.77
11	DINDI	225.4	224.14	234.45	237.32	217.42
12	DURSHED	221.77	212.1	232.08	233.37	208.56
13	ERRAGADDA	226.19	225.04	232.05	235.07	215
14	FABCITY	224.76	224.16	230.94	233.69	216.23
15	HIAL	223.04	222.91	229.2	231.9	214.98
16	HAYATHNAGAR	227.82	226.74	233.23	236.6	218.89
17	HUZURABAD	226.37	212.94	236.91	236.91	210.27
18	GHANAPUR	227.58	226.39	233.05	236.19	219.01
19	GANGARAM	225.92	215.45	233.39	235.12	210.87
20	IMLIBUN	224.98	224.7	231.42	233.64	217.03
21	JAGITYAL	230.91	221.65	240.64	242.1	217.97
22	JURALA	211.82	211.42	225.28	227.82	203.69
23	KALWAKURTHY	220.65	219.32	231.57	234.36	211.4
24	KALLUR	226.7	224.39	233.49	233.49	222
25	KONDAMALLEPALLY	220.6	219.05	230.81	233.48	212.09
26	KAMAREDDY	210.74	207.76	231.97	233.68	203.79
27	KONDAPAKA	216.04	213.56	232.85	234.44	209.09

S.NO	STATION NAME	00:00	08:00	19:00	Max	Min
28	MADGULA	221.16	220.53	229.75	232.24	213.15
29	MAHABUBNAGAR	218.55	218.55	231.76	234.02	209.53
30	MEDCHAL	219.84	219.19	227.57	229.83	212.43
31	MEDARAM	226.56	224.99	237.31	240.8	218.99
32	MAMIDIPALLY	223.38	223.38	229.5	232.08	215.65
33	MIYAPUR	223.74	222.57	230.51	232.92	215.54
34	MALYALAPALLY	228.59	227.74	236.22	238	223.31
35	MANUGURU	224.98	222.65	229.52	230.73	219.17
36	MIRYALAGUDA	215.67	213.34	227.23	230.74	203.75
37	MINPUR	195.07	192.44	230.07	231.98	188.72
38	MOULALI	226.67	226.1	232.72	235.78	218.67
39	MURMUR	227.82	225.02	236.64	238.12	220.4
40	NAGOLE	226.47	225.26	232.08	235.01	217.74
41	NAGARAM	226.61	216.81	234.09	235.68	212.25
42	NARKETPALLY	215.75	214.75	230.35	232.95	207.24
43	NIRMAL	227.88	222.43	235.45	236.98	217.95
44	OSMANIA	226.75	225.78	233.33	235.85	218.32
45	PARGI	217.76	215.13	230.29	233.06	210.68
46	PEDAGOPATHI	227.2	225	232.58	234.69	220.08
47	PULAKURTHY	228.53	218.44	236.07	237.75	213.83
48	PULIYATANDA	222.62	220.34	232.22	233.56	214.44
49	PUTTAGANDITHANDA	223.51	221.17	233.32	234.56	215.42
50	RAMAGIRI	229.24	228.17	231.73	234.46	211.54
51	SHADNAGAR	220.5	219.55	226.94	229.55	212.52
52	SHAMAHABAD	223.53	222.81	229.55	232.11	214.49
53	SALIVAGU	227	216.76	234.53	236.11	212.17
54	SIRICILLA	222.24	214.76	236.02	237.98	212.4
55	SADASHIVAPET	216.48	214.64	224.65	226.84	208.47
56	SITAPURAM	215.24	212.76	224.85	226.94	202.61
57	SEETHARAMPATNAM	228.42	226.63	232.65	234.58	222.4

S.NO	STATION NAME	00:00	08:00	19:00	Max	Min
58	SIDDIPET	215.81	211.54	233.09	234.69	207.12
59	SINGOTAM	219.94	220.97	231.7	234.21	211.66
60	SHANKARPALLY	222.78	221.95	230.67	233.09	214.94
61	SHAPURNAGAR	226.96	225.3	233.7	236.2	217.59
62	SURYAPET	221.93	221.03	233.07	235.19	214.02
63	THIMMAJIPET	220.51	217.87	231.29	233.94	212.52
64	TANDUR	228.15	220.46	236.72	240.11	215.76
65	VEMANUR	229.24	224.4	237.78	239.46	220.27
66	WADDEKOTHAPALLY	225.74	218.47	236.6	238.56	214.05
67	WARANGAL	227.25	215.65	235.3	236.92	210.82
68	WANPARTHY	217.77	218.99	229.6	231.65	209.9

ACCIDENTS

1. Requirement in the Guidelines

Number of reported fatal and non-fatal accidents, differentiating between accidents involving humans and those involving animals. An analysis of steps to reduce such accidents must also be provided. (Guidelines - 11c)

2. TGTransco's response

Total 7 Nos. Fatal accidents and 16 Nos. non-fatal accidents were reported in 2019-20 to 2023-24 upto 31st Mar'2024 during the 4th Control Period.

TGTransco constantly reviews the existing safety practices and procedures with an endeavor to minimize and achieve a zero accident record. The statistics for 2019-20 to 2023-24 upto 31st Mar'2024 are shown in the Table-I & II and the reasons for causing the accidents are summarized in Table-III.

Table-I: Summary of Electrical Accidents occurred during 4th Control Period

ACCIDENTS	2023-24
FATAL	
Humans	2
Animals/Others	0
NON FATAL	
Humans	1
Animals/Others	0

Table-II (e): Details of Accidents recorded on EHT System in TGTRANSCO for FY 2023-24

ACCIDENTS	Hyderabad Metro Zone	Hyderabad Rural Zone	Warangal Zone	KarimNagar Zone	Total
FATAL					
Human	2	0	0	0	2
Animals/Others	0	0	0	0	0
NON FATAL					
Human	1	0	0	0	1
Animals/Others	0	0	0	0	0

Table-III:

Details of Fatal/Non-fatal electrical accidents (Departmental/Non-Departmental) in TGTRANSCO for the period from FY: 2019-20 to FY: 2023-24(till date).

Sl. No.	Name of the Circle	Place at which accident occurred	Date	Type			Reasons	Remedial actions/ Remarks	Compensation paid, if any
				Dept., / Non - Dept.,	Fatal / Non - Fatal	Human / Others			
FY 2023 - 24 (up to 31 Mar’2024)									
	Hyderabad/ OMC/ Metro-Central Circle	132KV SS Asifnagar	11.04.2023	Dept.	Non-Fatal	Human (Sri.S.Suraj Kumar Artisan Gr.I & Sri.P.Suresh , Artisan Gr.II)	At 132KV SS Asifnagar, (a) 33KV Gudimalkapur feeder breaker limb got blasted at 13:25 hrs on 11.04.2023. The broken porcelain piece hit the radiator pipe of 100KVA Station transformer, a small hole formed & transformer oil gushed out from radiator, hence complete oil drained out from drain pipe. Simultaneously both 80MVA PTR’s I & II pulled out. (b) 80MVA PTR I charged at 13:40 Hrs. (c) 80MVA PTR II charged at 13:50 Hrs. (d) All the 33KV feeders charged except 33KV Gudimalkapur feeder & station transformer. Later, after rectification works carried out on station transformer and oil filled back. While closing 33KV Bus isolator of station transformer, 100KVA Station transformer main tank got blasted and oil gushed out at 20:56Hrs and hot oil & flames fallen on shift operators i.e., Grade I & II (i.e., S.Suraj Kumar, Artisan Grade -I and P. Suresh Artisan Grade -I I) causing burns. The fire was extinguished by using available extinguishers.	The fire was extinguished by using fire extinguishers. Immediately both the injured artisans were moved to Yashoda Hospital, Malakpet Hyderabad and treatment provided to the Artisans.	a).Treatment expenditure paid by TGTRANSCO. b). Salary paid during their treatment period till they join back to their duties after complete recovery & fit to resume their duties because accident was taken place while they were performing duties at 132KV Asifnagar.
Sl.	Name of	Place at	Date	Type			Reasons	Remedial	Compensation

No.	the Circle	which accident occurred		Dept., / Non - Dept.,	Fatal / Non - Fatal	Human / Others		actions/ Remarks	paid, if any
2	Hyderabad / OMC/Metro-West Circle	220KV Shapurnagar-Erragadda-Raidurg DC line (Between Loc.No.131 & 132), HMT Sathavahan Nagar Mainroad, Kukkatpally.	27.09.2023 @ 12:22 Hrs	Dept.	Fatal	Human (Sri.G.Naresh, Artisan Gr.III,)	While carrying out tree cutting work on 220KV Shapurnagar – Erragadda – Raidurg double circuit line, unforeseen heavy winds blown across the site caused some of the branches of Tree enter into induction zone of Line, thereby leading to an electric shock to Sri.G.Naresh, Artisan Grade-III on 27.09.2023 and died at 13:27 Hrs.	Immediately rushed to Hospital for treatment and doctors declared that he is expired.	Workmen compensation paid for an amount of Rs.14,59,800/- to legal heir of Sri.G.Naresh as per Workmen compensation act 1923
3	Medchal-Malkajgiri Dist./ Metro East Circle	220/132/33KV SS Moulali	09.11.2023	Dept.	Fatal	Human (Sri.T.Verraju , JLM)	JLM/Shift closed the bus sectionalizer which is under LC instead of opening 33KV feeder isolator due to which supply extended to bus section-IV resulted in electrocution of 2 members (1No. JLM and 1No. Artisan) working on bus section-IV. The JLM succumbed to death during treatment. The other member (Artisan) has been discharged after treatment.	Immediately rushed to Hospital for treatment.	For the deceased JLM, Rs.5,00,000/- sanctioned towards self funding scheme. Rs.13,60,275/- sanctioned towards workmen compensation act 1923.

Main reasons for Accidents and Remedial action to reduce accidents:

The fatal and Non-fatal accidents occurred for human beings mainly due to the induction to the adjacent live parts and slipping from the structure while carrying out the maintenance works due to anxiety/confusion.

Remedial action to reduce accidents:

For any lapse, suitable prompt action is taken against the concerned public or staff to discourage their negligence or casual approach.

The concerned superior staff takes deterrent action against all the erring field staff who fails to take safety precautions while working on lines and also ensure that adequate quantity of safety appliances are made available to all the concerned staff members. Safety training courses are regularly conducted.

Schedules for preventive maintenance of all CTs and PTs in the EHT Sub-Stations are given preventive maintenance schedules are also generated from the ERP system. It is also proposed to replace all aged CTs and PTs & PTRs sets with new sets through renovation and modernization schemes.

Classes are being conducted for the workmen on payday or any suitable working day to enlighten them on safety measures and to avoid electrical accidents by proper utilization of safety devices and precautions as per the safety rules.

Preventive steps:

- Standard construction practice is ensured whenever new lines are laid and energized.
- Clearances for O/H lines as specified in IE rules 77, 78, 79, 80 and 81 to be strictly maintained and verified at the time of statutory inspections of lines & sub-stations, before charging.
- Cradle Guards are provided under the O/H lines as required under IE Rules Nos. 66 and 91, regarding safety and protective devices, in order to render the lines electrically harmless in case it breaks.
- All metal supports of O/H lines and attached metallic fittings are permanently earthed as per I.E. Rule No.90.
- Danger Boards to be affixed wherever necessary in the local language.
- Anti-climbing devices to be provided to prevent people from scaling towers or poles.

BOUNDARY METERS (Status of Metering at Interface Points) :

1. Requirement in the Guidelines

Number of inadequate or defective meters. Program and phasing of investment for replacement. (Guidelines – 11d)

2. TGTransco's response

List of boundary points as on 31.03.2024

Sl.No.	DISCOM	Metering Point Type	No. of metering points	Discom Total
1	TGSPDCL	PTR LVs	370	659
2		EHT Consumers	118	
3		G-D	14	
4		D-D	4	
5		PDs (33kV, 11kV)	153	
6	TGNDPCL	PTR LVs	271	439
7		EHT Consumers	99	
8		G-D	15	
9		D-D	17	
10		PDs (33kV, 11kV)	37	
T-D Total (A)				1098

G - T		
Sl.No.	Metering Point Type	No. of Metering Points
1	TGGENCO -TGTRANSCO	63
2	CTU	79
3	CPPs	26
4	IPPs	4
5	132kV EHT PDs	59
G-T Total (B)		231
Grand Total (A+B)		1329

ANNEXURE - III

Contracted Capacities of Transmission for FY 2025-26								
Sl. No	Generating Station/Unit/Source	Installed Capacity (MW)	Net Capacity TG Share (MW)	FY 2023-24	FY 2024-25			FY 2025-26
				(Actuals)	Apr-Sep (Actua)	Oct-March (Projected)	Apr-March (Projecte d)	(Projecte d)
(A)	TGGENCO STATIONS							
	GENCO THERMAL:							
1	KTPS-V	500	453.5	455.00	453.50	453.50	453.50	453.50
2	KTPS-VI	500	473.75	462.50	473.75	473.75	473.75	473.75
3	KTPS-VII	800	758.00	758.00	758.00	758.00	758.00	758.00
4	KTPP-I	500	473.75	462.50	473.75	473.75	473.75	473.75
5	KTPP-II	600	568.5	558.00	568.50	568.50	568.50	568.50
6	RTS-B	62.5	-	56.25	56.25	-	-	-
7	BTPS	1080	988.2	988.20	988.20	988.20	988.20	988.20
8	YTPS	4000	3790	-	-	3032.00	3032.00	3790.00
	Total Thermal (A):	8042.50	7505.70	3740.45	3771.95	6747.70	6747.70	7505.70
	GENCO HYDEL:							
1	SrisaillamLeft Bank HES	900	889.20	889.20	889.20	889.20	889.20	889.20
2	NSPH	815.6	807.44	807.44	807.44	807.44	807.44	807.44
3	NSLCPH	60	59.40	59.40	59.40	59.40	59.40	59.40
4	Lower Jurala HES	240	237.60	237.60	237.60	237.60	237.60	237.60
5	Pulichintala	120	118.80	118.80	118.80	118.80	118.80	118.80
6	Priyadarshini Jurala HES	234	115.83	115.83	115.83	115.83	115.83	115.83
7	Pochampad PH (I-IV)	36	35.64	35.64	35.64	35.64	35.64	35.64
8	Singur	15	14.85	14.85	14.85	14.85	14.85	14.85
9	Nizam Sagar PH	10	9.90	9.90	9.90	9.90	9.90	9.90
10	Mini Hydel (Peddapalli)	9.16	9.07	9.07	9.07	9.07	9.07	9.07
11	Palair	2	1.98	1.98	1.98	1.98	1.98	1.98
	Total Hydel :	2441.76	2299.71	2299.71	2299.71	2299.71	2299.71	2299.71
	Total TGGENCO (A):	10484.26	9805.41	6040.16	6071.66	9047.41	9047.41	9805.41

(B)	CENTRAL GENERATING STATIONS							
1	NTPC (SR)-I & II	2100	322.42	327.43	326.60	322.42	322.42	322.42
2	NTPC (SR) Stage-III	500	81.69	82.79	82.71	81.69	81.69	81.69
3	NTPC Talcher Stagell	2000	202.23	203.54	203.82	202.23	202.23	202.23
4	NTPC Simhadri Stage-I	1000	510.61	507.91	510.61	510.61	510.61	510.61
5	NTPC Simhadri Stage-II	1000	241.71	241.89	242.68	241.71	241.71	241.71
6	Telangana STPP	1600	1287.80	1302.99	1288.60	1287.80	1287.80	1287.80
7	NTPC Kudigi Unit-I, II & III	2400	256.72	262.71	261.63	256.72	256.72	256.72
8	NLC Stage-I	580	3.31	4.89	4.26	3.31	3.31	3.31
9	NLC Stage-II	790	4.35	6.43	5.60	4.35	4.35	4.35
10	NLC Exp-I	420	3.48	5.18	4.48	3.48	3.48	3.48
11	NLC Exp-II	500	3.99	6.06	5.13	3.99	3.99	3.99
12	New Neyvelli Thermal Power plant (NNTPP)	934	58.19	58.07	58.30	58.19	58.19	58.19
13	NTECL Vallur Thermal Power Plant	1500	97.26	99.81	99.11	97.26	97.26	97.26
14	NLC Tamilnadu (Tuticorn) Unit-I & Unit II	1000	136.82	139.35	138.78	136.82	136.82	136.82
15	NPC-MAPS	440	19.31	19.78	19.59	19.31	19.31	19.31
16	NPC-Kaiga Unit-I&II	440	59.05	60.77	60.08	59.05	59.05	59.05
17	NPC-Kaiga Unit-III & IV	440	62.91	64.63	63.94	62.91	62.91	62.91
18	KKNPP (Kudankulam Nuclear Power Plant) Unit-I	1000	2.80	4.14	3.61	2.80	2.80	2.80
19	KKNPP (Kudankulam Nuclear Power Plant) Unit-II	1000	46.10	46.10	46.10	46.10	46.10	46.10
20	NVVNL Bundled Power(Coal)	25650	186.83	186.83	186.83	186.83	186.83	186.83

21	NSM Bundled Phase -II	45.81	42.83	42.83	42.83	42.83	42.83	42.83
	Total CGS (B):	45339.81	3630.41	3674.13	3655.29	3630.41	3630.41	3630.41
(C)	IPPs & Gas Projects							
	IPPs							
1	Singareni Thermal Power Plant	1200	1131.00	1131.00	1131.00	1131.00	1131.00	1131.00
2	Atal Bihari Vajpayee thermal Power Plant, Chattisgarh (formerly Marwa Power Plant)	1000	947.5	0.00	0.00	947.5	947.5	947.5
3	Sembcorp Energy India Limited (SEIL) (269.45 MW)	1320	269.45	269.45	269.45	269.45	269.45	269.45
4	Sembcorp Energy India Limited (SEIL) (570 MW)		-	570.00	-	-	-	-
	Total IPPs:	3520	2347.95	1970.45	1400.45	2347.95	2347.95	2347.95
	Gas Projects							
1	Vemagiri	370	193.41	0.00	0.00	193.41	193.41	193.41
2	Kona seema	444.08	231.83	0.00	0.00	0.00	0.00	0.00
	Total Gas projects	814.08	425.24	0.00	0.00	193.41	193.41	193.41
	Total IPP & Gas Projects (C)	4334.08	2773.19	1970.45	1400.45	2541.36	2541.36	2541.36
(D)	Inter-State Hydel Projects							
1	Machkund (TG Share)	84	44.82	0.00	0.00	44.82	44.82	44.82
2	TB.Dam (TG Share)	57.6	30.73	0.00	0.00	30.73	30.73	30.73
	Total Inter-State Hydel (D)	141.6	75.55	0.00	0.00	75.55	75.55	75.55

(E)	NCE Projects							
1	NCE Capacity 132 KV & above	7362.35	7362.35	4462.00	4860.40	6062.34	6062.34	7362.35
2	NCE Capacity 11 KV & 33 KV	1040	1040	1035.00	1035.00	1040.00	1040.00	1040.00
	Total NCE projects (E)	8402.3475	8402.3475	5497.00	5895.40	7102.34	7102.34	8402.35
	Total Capacity of TGDISCOMs (MW) (A+B+C+D+E)	68702.10	24686.91	17181.75	17022.80	22397.07	22397.07	24455.08
	Open Access (F)	129.75	129.75	113.50	113.00	112.50	113.00	129.75
	TRANSCO TOTAL Contracts(A+B+C+D+E+F) – E(2)	67791.85	23776.66	16260.25	16100.80	21469.57	21470.07	23544.83

Note:

- (i) Long Term PPA with TGGENCO project RTS-B (62.5 MW) was expired on 03.06.2024
- (ii) Long Term PPA with Sembcorp Energy India Limited (SEIL) (570 MW) was expired on 29.03.2024
- (iii) Long Term Gas PPAs with GVK Extension (118.56 MW) & GVK Gouthami (250.05) were expired on 13.04.2024 & 14.06.2024 respectively

ANNEXURE – IV COMPLIANCE WITH DIRECTIVES GIVEN IN TARIFF ORDER Dt.20.03.2020

Sl. No.	Directive	Subject of Directive	Compliance
1	Segregation of assets and liabilities between APTransco and TGTransco	The Commission directs the petitioner to submit a compliance report on the segregation of assets and liabilities between APTransco and TGTransco by 30.06.2020	Complied with vide APR FY:2020-21
2	Transmission works relating to LI Schemes	The Commission directs the petitioner to execute the Transmission works relating to LIS duly co-ordinating with the Irrigation Department.	Complied with since FY 2019-20.
3	Annual Performance Review	The Commission directs the petitioner to file the Performance Review (true up) for each year of the 4 th Control Period before 31 st December of the following year. As a first step, the petitioner shall file the Annual Performance Review for FY 2019-20 by 31.12.2020.	Complied with in the APR for FY 2019-20.
4	Capitalization details for 3 rd Control Period from FY 2014-15 to FY 2018-19	The Commission directs the petitioner to submit the complete details sought regarding the capitalization for the 3 rd Control Period, in the Petition to be filed for the Annual Performance Review for FY 2019-20.	Complied with since FY 2019-20.
5	Computations of Depreciation in accordance with CERC (Terms and Conditions of Tariff) Regulations, 2019	The Commission directs the petitioner to submit the computations of depreciation for 4 th Control period in accordance each year of the with the provisions of the CERC (Terms and Conditions of Tariff) Regulations, 2019 in Annual Performance Review for each year of the 4 th Control Period	Complied with since FY 2019-20.
6	Capital Investments	<p>Considering the importance of capitalisation of works, the Commission lays down the following requirements to be fulfilled before accepting inclusion of the value of the capitalised work in the OCFA:</p> <p>a) On completion of a capital work, a physical completion certificate (PCC) to the effect that the work in question has been fully executed, physically, and the assets created are put in use, to be issued by the concerned engineer not below the rank of Superintending Engineer.</p> <p>b) The PCC shall be accompanied or followed by a financial completion certificate (FCC) to the effect that the assets created have been fully entered in the fixed assets register by transfer from the CWIP register to OCFA. The FCC shall have to be issued by the concerned finance officer not below the rank of Senior Accounts Officer.</p> <p>c) The above mentioned certificates have to be submitted to the Commission within 60 days of completion of work, at the latest.</p>	Complied with. PCCs & FCCs FY2023-24 are being submitted.

Appendix 3: Tariff Filing Forms (Transmission)

TRANSMISSION CORPORATION OF TELANGANA LIMITED
Tariff Filing Formats - Transmission
Checklist

S. No.	Form	Title	Tick
1	Form 1	Summary Sheet	✓
2	Form 2	Operation and Maintenance Expenses	✓
3	Form 2.1	Employee Expenses	✓
4	Form 2.2	Administration & General Expenses	✓
5	Form 2.3	Repair & Maintenance Expenses	✓
6	Form 3	Summary of Capital Expenditure and Capitalisation	✓
7	Form 3.1	Statement of Additional Capitalisation after COD	NA
8	Form 3.2	Financing of Additional Capitalisation	NA
9	Form 4	Fixed Assets & Depreciation	✓
10	Form 5	Interest and finance charges on loan	✓
11	Form 6	Interest on working capital	✓
12	Form 7	Return on Equity	✓
13	Form 8	Non-Tariff Income	✓
14	Form 9	Income from Open Access Charges	NA
15	Form 10	Income from Other Business	NA
16	Form 11	Planned & Forced Outages	✓
17	Form 12	Energy Handled	✓
18	Form 13	Revenue from Transmission Charges	✓
19	Form 14	Summary of true-up	✓
20	Form 15	Contracted Capacity	✓
		Capital Cost Approval*	
21	Form 16.1	Project Schedule	NA
22	Form 16.2	Breakup of Capital Cost	NA
23	Form 16.3	Breakup of Construction/Supply/Services/Packages	NA
24	Form 16.4	Financial Package	NA
25	Form 16.5	Details of Loans	NA
26	Form 16.6	Phasing of Expenditure, Debt and Equity upto COD	NA
27	Form 16.7	Interest During Construction and Finance Charges upto COD	NA
28	Form 1.1d	Capitalisation 2023-24	
29	Form 1.1d	Capex 2023-24	
30	Form 1.1d	Capex 2025-26	

Note: * Applicable only for new Transmission Schemes for which final capital cost approval is being sought after COD

TRANSMISSION CORPORATION OF TELANGANA LIMITED
Form 1: Summary Sheet

(Rs. In Crores)															
S. No.	Particulars	Units	Reference	2023-24			2024-25						2025-26		Remarks
				MYT/Tariff Order	Apr-Mar	Variation	MYT/Tariff Order	Apr-Sep	Oct-Mar	Apr - Mar	Variation	MYT/Tariff Order	Apr - Mar	Variation	
				Approved	Audited	Actuals	Approved	Actual	Estimated	Estimated	Estimated	Approved	Projections		
1	Operation & Maintenance Expenses	Rs. Crore	Form 2	1,020.53	1,136.05	115.52	1,299.52	596.15	636.43	1,232.58	-66.94	1,377.19	1,303.41	-73.78	
2	Depreciation	Rs. Crore	Form 4	1,378.79	1,073.34	-305.45	818.35			773.20	-45.15	863.33	920.90	57.57	
3	Interest and finance charges on loan	Rs. Crore	Form 5	1,886.82	1,267.42	-619.40	978.43	-	939.71	939.71	-38.72	986.85	1,137.49	150.64	
4	Interest on Working Capital	Rs. Crore	Form 6				75.09	-	73.33	73.33	-1.76	81.67	83.34	1.67	
5	Return on Equity	Rs. Crore	Form 7				432.30	-	545.26	545.26	112.96	628.71	687.51	58.80	
6	Less:														
6.1	Non-Tariff Income	Rs. Crore	Form 8	477.71	440.69	-37.02	464.70	42.24	346.79	389.03	-75.67	515.70	443.27	-72.43	
6.2	Income from Open Access Charges	Rs. Crore	Form 9	-	-	-	-	-	-	-	-	-	-	-	
6.3	Income from Other Business	Rs. Crore	Form 10	-	-	-	-	-	-	-	-	-	-	-	
7	Less:														
7.1	Impact of true-down for prior period	Rs. Crore	Form 14										1,608.87	1,608.87	
8	Aggregate Revenue Requirement	Rs. Crore		3,808.43	4,117.68	309.25	3,138.99	553.92	1,847.93	3,175.04	36.05	3,422.05	2,080.50	-1,341.55	
9	Total Contracted Capacity	MW	Form 15			Net Surplus-1081.56				21,470.07			23,544.83		
10	Transmission tariff for long-term and medium-term users	Rs./kW/month					115.40	123.24	123.24	123.24		127.42	73.64		
11	Transmission tariff for short-term users	Rs./kW/hr													
12	Transmission Loss	%													

Note-1 : The RoCE as per MYT order & Actuals for FY 2023-24 is inclusive of taxes on income arrived as per methodology specified in the regulation 5 of 2005.

Note-2: The True-Up for 4th Control period is arrived at Rs. 1,608.87 Crores. The impact of True-Up in Sl.No.7.1 above for 4th Control Period has been arrived before adjustment of disallowed income tax of Rs. 41.12 Crores as per APR for FY 2022-23. The disallowed income tax is now being claimed as per para no.11 of RP No. 3 of 2024 Dated.18.10.2024 in this tariff petition duly enclosing relevant documents.

TRANSMISSION CORPORATION OF TELANGANA LIMITED
Form 2: Operation and Maintenance Expenses

(Rs. In Crores)

S. No.	Particulars	Reference	2023-24				2024-25					Annual Tariff 2025-26		
			MYT/Tariff Order	Apr-Mar	True-Up requirement	Variation	MYT/Tariff Order	Apr-Sep	Oct-Mar	Apr - Mar	Variation	MYT/Tariff Order	Claim	Variation
			Approved	Audited	Claimed		Approved	Actual	Estimated	Estimated		Approved	(n+1)	(n+1)
1	Employee Expenses	Form 2.1	1,020.53	1,009.14	1,009.14	115.52	1,123.60	542.52	519.09	1,061.61	-61.99	1,188.66	1,116.82	-71.84
2	A&G Expenses	Form 2.2		77.09	77.09		64.78	32.68	50.11	82.79	18.01	67.97	88.92	20.95
3	R & M Expenses	Form 2.3		49.82	49.82		111.14	20.95	67.22	88.17	-22.97	120.56	97.67	-22.89
4	Total O&M Expenses		1,020.53	1,136.05	1,136.05	115.52	1,299.52	596.15	636.43	1,232.58	-66.94	1,377.19	1,303.41	-73.78

Note:

1 The projections for the Control Period to be supported by detailed computations

TRANSMISSION CORPORATION OF TELANGANA LIMITED
Form 2.1: Employee Expenses

(Rs. In Crores)

S.No.	Particulars	2023-24	2024-25			2025-26
		Apr-Mar	Apr-Sep	Oct-Mar	Apr - Mar	Apr - Mar
		Audited	Actual	Estimated	Estimated	Projected
1	Basic Salary	659.57	376.64	317.22	693.87	729.95
2	Dearness Allowance (DA)	53.09	24.31	31.54	55.85	58.75
3	House Rent Allowance	22.56	10.18	10.05	20.23	21.28
4	Conveyance Allowance	8.27	4.07	4.62	8.70	9.15
5	Leave Travel Allowance	0.00	0.00	-	-	-
6	Earned Leave Encashment	131.11	72.70	65.23	137.92	145.10
7	Other Allowances	138.64	58.93	82.53	141.46	148.82
8	Medical Reimbursement	11.28	5.24	6.63	11.87	12.49
9	Overtime Payment	0.00	0.00	-	-	-
10	Bonus/Ex-Gratia Payments	0.00	0.00	-	-	-
11	Paid Holidays	2.43	0.84	1.71	2.55	2.69
12	Staff welfare expenses	2.69	1.22	1.61	2.83	2.98
13	VRS Expenses/Retrenchment Compensation	0.00	0.00	-	-	-
14	Commission to Directors	0.00	0.00	-	-	-
15	Training Expenses	0.00	0.00	-	-	-
16	Payment under Workmen's Compensation Act	0.15	0.26	0.10	0.36	0.38
17	Terminal Benefits	0.00	0.00	-	-	-
18	Provident Fund Contribution	50.13	25.38	27.35	52.73	55.47
19	Provision for PF Fund	75.89	52.26	27.58	79.84	83.99
20	Pension Payments	0.00	0.00	-	-	-
21	Gratuity Payment	5.88	10.05	3.82	13.87	14.59
22	Unfunded past liabilities of pension and gratuity	36.55	0.00	38.45	38.45	40.45
23	Others	0.19	-0.02	0.21	0.20	0.21
24	Gross Employee Expenses	1198.42	642.08	618.66	1,260.74	1,326.30
25	Less: Expenses Capitalised	189.28	99.56	99.56	199.13	209.48
26	Net Employee Expenses	1009.14	542.52	519.09	1,061.61	1,116.82

Note: CPI inflation has been arrived at 5.20 based on average inflation of FY 2023-24 as per Labour Bureau.

TRANSMISSION CORPORATION OF TELANGANA LIMITED
Form 2.2: Administration & General Expenses

(Rs. In Crores)

S. No.	Particulars	2023-24	2024-25		2025-26	
		Apr-Mar	Apr-Sep	Oct-Mar	Apr - Mar	Annual Tariff
		Audited	Actual	Estimated	Estimated	Projected
1	Rent Rates & Taxes	2.27	2.21	0.23	2.43	2.61
2	Insurance	0.16	0.08	0.10	0.17	0.19
3	Telephone & Postage, etc.	1.28	0.81	0.56	1.37	1.47
4	Legal charges & Audit fee	0.62	0.24	0.43	0.67	0.72
5	Professional, Consultancy, Technical fee	0.79	0.43	0.42	0.85	0.91
6	Conveyance & Travel	5.19	2.04	3.53	5.58	5.99
7	Electricity charges	1.92	1.01	1.05	2.06	2.21
8	Water charges	0.44	0.17	0.30	0.48	0.51
9	Security arrangements	0.00	0.00	-	-	-
10	Fees & subscription	0.11	0.53	0.10	0.63	0.68
11	Books & periodicals	0.09	0.02	0.08	0.10	0.11
12	Computer Stationery	0.00	0.00	-	-	-
13	Printing & Stationery	0.61	0.50	0.16	0.66	0.71
14	Advertisements	0.41	0.34	0.10	0.44	0.47
15	Purchase Related Advertisement Expenses	0.00	0.00	-	-	-
16	Contribution/Donations	0.44	0.43	0.04	0.47	0.50
17	License Fee and other related fee	4.39	4.38	0.34	4.71	5.06
18	Vehicle Running Expenses Truck / Delivery Van	0.83	0.35	0.54	0.89	0.96
19	Vehicle Hiring Expenses Truck / Delivery Van	21.09	8.77	13.37	22.14	23.78
20	Incidental Stores Expenditure	0.08	0.01	0.07	0.08	0.09
21	Outsourcing of metering and billing system	0.82	0.53	0.35	0.88	0.95
22	Freight On Capital Equipments	0.00	0.00	-	-	-
23	CSR Expenditure	6.42	0.00	6.89	6.89	7.40
24	Training	0.36	0.15	0.24	0.39	0.42
25	Staff Recruitment Charges	0.03	0.00	0.03	0.03	0.03
26	Miscellaneous Expenses	2.18	0.68	1.67	2.34	2.51
27	Office Expenses	0.00	0.00	-	-	-
28	Others	26.57	9.01	19.53	28.53	30.65
29	Gross A & G Expenses	77.09	32.68	50.11	82.79	88.92
30	Less: Expenses Capitalised	-	-	-	-	-
31	Net A & G Expenses	77.09	32.68	50.11	82.79	88.92

A&Gn = A&Gn-1 x WPI Inflation

A&G FY 24-25 = 77.09 x 107.4% = 82.79 Crores

A&G FY 25-26 = 82.79 x 107.4% = 88.92 Crores

Note: A&G expenses for Base Year 2024-25 has been arrived by taking the WPI as 7.4% by averaging inflation rates of FY 2019-20 to FY 2023-24.

TRANSMISSION CORPORATION OF TELANGANA LIMITED
Form 2.2: Administration & General Expenses

(Rs. In Crores)

S. No.	Particulars	2023-24	2024-25			Annual Tariff
		Apr-Mar	Apr-Sep	Oct-Mar	Apr - Mar	2025-26
		Audited	Actual	Estimated	Estimated	Projected
1	Rent Rates & Taxes	2.27	2.21	0.23	2.43	2.61
2	Insurance	0.16	0.08	0.10	0.17	0.19
3	Telephone & Postage, etc.	1.28	0.81	0.56	1.37	1.47
4	Legal charges & Audit fee	0.62	0.24	0.43	0.67	0.72
5	Professional, Consultancy, Technical fee	0.79	0.43	0.42	0.85	0.91
6	Conveyance & Travel	5.19	2.04	3.53	5.58	5.99
7	Electricity charges	1.92	1.01	1.05	2.06	2.21
8	Water charges	0.44	0.17	0.30	0.48	0.51
9	Security arrangements	0.00	0.00	-	-	-
10	Fees & subscription	0.11	0.53	0.10	0.63	0.68
11	Books & periodicals	0.09	0.02	0.08	0.10	0.11
12	Computer Stationery	0.00	0.00	-	-	-
13	Printing & Stationery	0.61	0.50	0.16	0.66	0.71
14	Advertisements	0.41	0.34	0.10	0.44	0.47
15	Purchase Related Advertisement Expenses	0.00	0.00	-	-	-
16	Contribution/Donations	0.44	0.43	0.04	0.47	0.50
17	License Fee and other related fee	4.39	4.38	0.34	4.71	5.06
18	Vehicle Running Expenses Truck / Delivery Van	0.83	0.35	0.54	0.89	0.96
19	Vehicle Hiring Expenses Truck / Delivery Van	21.09	8.77	13.37	22.14	23.78
20	Incidental Stores Expenditure	0.08	0.01	0.07	0.08	0.09
21	Outsourcing of metering and billing system	0.82	0.53	0.35	0.88	0.95
22	Freight On Capital Equipments	0.00	0.00	-	-	-
23	CSR Expenditure	6.42	0.00	6.89	6.89	7.40
24	Training	0.36	0.15	0.24	0.39	0.42
25	Staff Recruitment Charges	0.03	0.00	0.03	0.03	0.03
26	Miscellaneous Expenses	2.18	0.68	1.67	2.34	2.51
27	Office Expenses	0.00	0.00	-	-	-
28	Others	26.57	9.01	19.53	28.53	30.65
29	Gross A & G Expenses	77.09	32.68	50.11	82.79	88.92
30	Less: Expenses Capitalised	-	-	-	-	-
31	Net A & G Expenses	77.09	32.68	50.11	82.79	88.92

A&Gn = A&Gn-1 x WPI Inflation

A&G FY 24-25 = 77.09 x 107.4% = 82.79 Crores

A&G FY 25-26 = 82.79 x 107.4% = 88.92 Crores

Note: A&G expenses for Base Year 2024-25 has been arrived by taking the WPI as 7.4% by averaging inflation rates of FY 2019-20 to FY 2023-24.

TRANSMISSION CORPORATION OF TELANGANA LIMITED
Form 2.3: Repair & Maintenance Expenses

(Rs. In Crores)

S. No.	Particulars	2023-24	2024-25			2025-26
		Apr-Mar	Apr-Sep	Oct-Mar	Apr - Mar	Apr - Mar
		Audited	Actual	Estimated	Estimated	Projected
1	Plant & Machinery	36.24	12.32	51.81	64.13	71.04
2	Buildings	2.93	1.39	3.79	5.18	5.74
3	Civil Works	3.52	2.09	4.13	6.23	6.90
4	Hydraulic Works	0.00	0.00	-	-	-
5	Lines & Cable Networks	4.02	2.97	4.15	7.12	7.89
6	Vehicles	0.11	0.10	0.09	0.19	0.21
7	Furniture & Fixtures	0.07	0.03	0.09	0.12	0.13
8	Office Equipment	2.94	2.05	3.15	5.20	5.76
9	Gross R&M Expenses	49.82	20.95	67.22	88.17	97.67
10	Gross Fixed Assets at beginning of year	22,900.11	-	-	24,146.46	26,747.71
11	R&M Expenses as % of GFA at beginning of year	0.22%			0.37%	0.37%

$R\&M = K \times (GFA) \times WPI \text{ Inflation}$

$R\&M \text{ FY } 24-25 = 0.34\% \times 24,146.46 \times 107.4\% = 88.17 \text{ Crores}$
 $R\&M \text{ FY } 25-26 = 0.34\% \times 26,747.71 \times 107.4\% = 97.67 \text{ Crores}$

Note: R&M expenses for Base Year 2024-25 has been arrived taking 0.34% as K factor being average of 4th control period. Further, the 7.4% WPI has been by averaging inflation rates of FY 2019-20 to FY 2023-24.

TRANSMISSION CORPORATION OF TELANGANA LIMITED
Form 3: Summary of Capital Expenditure and Capitalisation

(Rs. In Crores)

S. No.	Particulars	2023-24				2024-25					2025-26		
		MYT/Tariff Order	Apr-Mar	True-Up requirement	Variation	MYT/Tariff Order	Apr-Sep	Oct-Mar	Apr - Mar	variation	MYT/Tariff Order	Apr - Mar	Variation
		Approved	Audited	Claimed	Actuals	Approved	Actual	Estimated	Estimated	Estimated	Approved	Estimated	Estimated
1	Opening Capital Works in Progress	-	4,029.89	4,029.89	-	2,475.03	-	4,223.33	4,223.33	-	2,991.73	3,801.51	809.78
2	Capital Expenditure during the year	1,397.71	1,461.04	1,461.04	63.33	2,864.16	219.96	1,959.47	2,179.43	-684.73	1,029.73	5,032.55	4,002.82
3	Capitalisation during the year	4,864.66	1,267.60	1,267.60	-3,597.06	2,347.46	-	2,601.25	2,601.25	253.79	1,769.60	7,120.66	5,351.06
4	Closing Capital Works in Progress	-	4,223.33	4,223.33	-	2,991.73	-	3,801.51	3,801.51	-	2,251.86	1,713.39	-538.47

Note-1: Opening CWIP and Closing CWIP of FY 2023-24 is exclusive of Capital Expenditure Provision of Rs. 44.14 Crores and 11.51 Crores respectively.

Note-2: Capital Expenditure for FY 2024-25 and FY 2025-26 is inclusive of Interest during construction (IDC) & O&M Expenses capitalised for respective years.

TRANSMISSION CORPORATION OF TELANGANA LIMITED
Form 3.1: Statement of Additional Capitalisation after COD

(Rs. In Crores)

S. No.	FY	Name of the Transmission Scheme	Name of the work	Total estimated cost* (Rs. Crore)	Capital expenditure during the year (Rs. Crore)	Capitalisation during the year (Rs. Crore)	Asset group under which the capitalisation has been accounted (Land, Buildings, etc.)	Scope of work	Relevant Clause of the TSERC MYT Regulation, 2023 under which the capitalisation has been claimed	Justification
	Year (n-1)									
1										
2										
3										
...										
	Total									
	Current Year 'n'									
1										
2										
3										
...										
	Total									
	Year (n+1)									
1										
2										
3										
...										
	Total									
	Year (n+2)									
1										
2										
3										
...										
	Total									
	Year (n+3)									
1										
2										
3										
...										
	Total									
	Year (n+4)									
1										
2										
3										
...										
	Total									
	Year (n+5)									
1										
2										
3										
...										
	Total									

* Total estimated cost to be supported by documentary evidences like work orders, investment approvals etc.

TRANSMISSION CORPORATION OF TELANGANA LIMITED
Form 3.2: Financing of Additional Capitalisation

(Rs. In Crores)

S. No.	Particulars	Year (n-1)	Current Year 'n'			Control Period				
			Apr-Sep	Oct-Mar	Apr - Mar	n+1	n+2	n+3	n+4	n+5
		Actual	Actual	Estimated	Estimated	Projected	Projected	Projected	Projected	Projected
1	Additional capitalisation									
2	Financing Details									
	Loan 1									
	Loan 2									
									
	Total Loan									
3	Equity									
4	Internal Resources									
5	Others (Please Specify)									
6	Total (2+3+4+5)									

TRANSMISSION CORPORATION OF TELANGANA LIMITED

Form 4: Fixed Assets & Depreciation

(Rs. In Crores)

FY 2023-24

S.No.	Asset Group	A/c Code	Rate of Depreciation	Gross fixed Assets				Provisions for depreciation				Net fixed Assets	
				At the beginning of the year	Additions during the year	Adjust. & deductions	At the end of the year	Cumulative upto the beginning of the year	Additions during the year	Adjust. during the year	Cumulative at the end of the year	At the beginning of the year	At the end of the year
1	LAND & LAND RIGHT		0.00%	53.32	-		53.32	-	-		-	53.32	53.32
2	BUILDINGS		3.34%	623.34	42.47		665.81	111.42	20.69		132.11	511.92	533.70
3	OTHER CIVIL WORKS		3.34%	419.37	20.87		440.24	52.16	14.62		66.78	367.21	373.46
4	PLANT AND MACHINE		5.28%	8,769.45	474.57	21.10	9,222.93	3,781.16	388.53	18.99	4,150.70	4,988.29	5,072.23
5	LINES&CBLE NTRWK		5.28%	12,841.12	720.83		13,561.95	3,914.85	638.32		4,553.17	8,926.27	9,008.78
6	VEHICLES		9.50%	2.43	0.20	0.16	2.47	1.66	0.14	0.14	1.66	0.78	0.81
7	FURNITURE & FIXTU		6.33%	18.49	1.28		19.77	6.95	1.21		8.17	11.54	11.60
8	INTANGIBLE ASSETS		15.00%	11.70	0.24		11.95	0.14	0.17		0.31	11.57	11.64
9	OFFICE EQUIPMENT		6.33%	160.89	7.13		168.02	58.67	9.65		68.33	102.21	99.70
	Total			22,900.11	1,267.60	21.26	24,146.46	7,927.00	1,073.34	19.13	8,981.22	14,973.11	15,165.24

FY 2024-25

S.No.	Asset Group	A/c Code	Rate of Depreciation	Gross fixed Assets				Provisions for depreciation				Net fixed Assets	
				At the beginning of the year	Additions during the year	Adjust. & deductions	At the end of the year	Cumulative upto the beginning of the year	Additions during the year	Adjust. during the year	Cumulative at the end of the year	At the beginning of the year	At the end of the year
1	LAND & LAND RIGHT		0.00%	53.32	5.74		59.06	-	-		-	53.32	59.06
2	BUILDINGS		3.00%	665.81	71.73		737.53	132.11	21.05		153.16	533.70	584.38
3	OTHER CIVIL WORKS		3.00%	440.24	47.43		487.67	66.78	13.92		80.70	373.46	406.97
4	PLANT AND MACHINE		3.60%	9,222.93	993.57		10,216.50	4,150.70	349.91		4,500.61	5,072.23	5,715.89
5	LINES&CBLE NTRWK		2.57%	13,561.95	1,461.00		15,022.96	4,553.17	367.52		4,920.69	9,008.78	10,102.27
6	VEHICLES		18.00%	2.47	0.27		2.74	1.66	0.47		2.13	0.81	0.61
7	FURNITURE & FIXTU		9.00%	19.77	2.13		21.90	8.17	1.88		10.04	11.60	11.86
8	INTANGIBLE ASSETS		20.00%	11.95	1.29		13.24	0.31	2.52		2.83	11.64	10.41
9	OFFICE EQUIPMENT		9.00%	168.02	18.10		186.12	68.33	15.94		84.26	99.70	101.86
	Total			24,146.46	2,601.25	-	26,747.71	8,981.22	773.20	-	9,754.41	15,165.24	16,993.29

FY 2025-26

S.No.	Asset Group	A/c Code	Rate of Depreciation	Gross fixed Assets				Provisions for depreciation				Net fixed Assets	
				At the beginning of the year	Additions during the year	Adjust. & deductions	At the end of the year	Cumulative upto the beginning of the year	Additions during the year	Adjust. during the year	Cumulative at the end of the year	At the beginning of the year	At the end of the year
1	LAND & LAND RIGHT		0.00%	59.06	15.72		74.78	-	-		-	59.06	74.78
2	BUILDINGS		3.00%	737.53	196.34		933.88	153.16	25.07		178.23	584.38	755.65
3	OTHER CIVIL WORKS		3.00%	487.67	129.82		617.49	80.70	16.58		97.27	406.97	520.22
4	PLANT AND MACHINE		3.60%	10,216.50	2,719.79		12,936.29	4,500.61	416.75		4,917.36	5,715.89	8,018.93
5	LINES&CBLE NTRWK		2.57%	15,022.96	3,999.35		19,022.30	4,920.69	437.72		5,358.42	10,102.27	13,663.89
6	VEHICLES		18.00%	2.74	0.73		3.47	2.13	0.56		2.68	0.61	0.78
7	FURNITURE & FIXTU		9.00%	21.90	5.83		27.73	10.04	2.23		12.27	11.86	15.46
8	INTANGIBLE ASSETS		20.00%	13.24	3.52		16.76	2.83	3.00		5.83	10.41	10.93
9	OFFICE EQUIPMENT		9.00%	186.12	49.55		235.67	84.26	18.98		103.25	101.86	132.43
	Total			26,747.71	7,120.66	-	33,868.37	9,754.41	920.90	-	10,675.31	16,993.29	23,193.06

TRANSMISSION CORPORATION OF TELANGANA LIMITED
Form 5: Interest and finance charges on loan

A. Normative Loan

(Rs. Crore)

S. No.	Particulars	2023-24			2024-25					FY 2025-26		
		MYT/Tariff Order	Apr-Mar	True-Up requirement	MYT/Tariff Order	Apr-Sep	Oct-Mar	Apr - Mar	Variation	MYT/Tariff Order	Apr - Mar	Variation
		Approved	Audited	Claimed	Approved	Actual	Estimated	Estimated	Estimated	Approved	(n+1)	Estimated
1	Opening Balance of Gross Normative Loan					14,629.34	-	14,629.34			15,535.79	
2	Cumulative Repayment till the year					2,719.98	2,719.98	5,439.95			5,931.01	
3	Opening Balance of Net Normative Loan				9,787.90	9,189.39		9,189.39	-598.51	9,780.67	9,604.78	-175.89
4	Less: Reduction of Normative Loan due to retirement or replacement of assets					-	-	-			-	
5	Addition of Normative Loan due to capitalisation during the year				811.12		906.45	906.45	95.33	1,038.95	4,124.85	3,085.90
6	Repayment of Normative loan during the year	1,198.69	795.68	-403.01	818.35	245.53	245.53	491.06	-327.29	863.33	584.51	-278.82
7	Closing Balance of Net Normative Loan				9,780.67		9,604.78	9,604.78	-175.89	9,956.29	13,145.12	3,188.83
8	Closing Balance of Gross Normative Loan						15,535.79	15,535.79			19,660.64	
9	Average Balance of Net Normative Loan						9,397.09	9,397.09			11,374.95	
10	Weighted average Rate of Interest on actual Loans (%)				10.00		10.00	10.00		10.00	10.00	
11	Interest						939.71	939.71			1,137.49	
12	Finance charges						-					
13	Total Interest & Finance charges	1,198.69	795.68	-403.01	978.43		939.71	939.71	-38.72	986.85	1,137.49	150.64

TRANSMISSION CORPORATION OF TELANGANA LIMITED
Form 5: Interest and finance charges on loan

B. Actual loan portfolio

S. No.	Particulars	Year (n-1)		Current Year 'n'		Control Period	
		Apr-Mar Audited	Apr-Sep Actual	Oct-Mar Estimated	Apr - Mar Estimated	n+1 Projected	
1	REC Limited						
	Opening Balance of Loan	4,199.62	3,920.39	3,676.49	3,920.39	3,635.85	
	Addition of Loan during the year	289.63	124.00	276.51	400.51	407.27	
	Loan Repayment during the year	568.86	367.90	317.15	685.05	621.45	
	Closing Balance of Loan	3,920.39	3,676.49	3,635.85	3,635.85	3,421.67	
	Average Loan Balance	4,060.01	3,798.44	3,656.17	3,778.12	3,528.76	
	Applicable Interest Rate (%)	9.00% to 9.50%	9.25% to 10.25%	9.25% to 10.25%	9.25% to 10.25%	9.25% to 10.25%	
2	PFC Limited						
	Interest	386.90	193.44	186.34	379.78	356.09	
	Finance charges	-	-	-	0.10	0.10	
	Total Interest & Finance charges	386.90	193.44	186.34	379.88	356.19	
	PFC Limited						
	Opening Balance of Loan	5,335.85	5,196.45	5,075.05	5,196.45	5,734.73	
	Addition of Loan during the year	144.30	22.86	837.13	859.99	2,066.03	
3	NABARD						
	Loan Repayment during the year	283.70	144.26	177.45	321.71	371.44	
	Closing Balance of Loan	5,196.45	5,075.05	5,734.73	5,734.73	7,429.32	
	Average Loan Balance	5,266.15	5,135.75	5,404.89	5,465.59	6,582.03	
	Applicable Interest Rate (%)	9.25% to 9.75%	9.83% to 10.25%	9.83% to 10.25%	9.83% to 10.25%	9.83% to 10.25%	
	Interest	504.75	264.67	275.04	539.71	665.44	
	Finance charges	-	-	-	0.10	0.10	
4	PTC Limited						
	Total Interest & Finance charges	504.75	264.67	275.04	539.81	665.54	
	NABARD						
	Opening Balance of Loan	24.49	20.23	18.10	20.23	15.97	
	Addition of Loan during the year	-	-	-	-	-	
	Loan Repayment during the year	4.26	2.13	2.13	4.26	4.26	
	Closing Balance of Loan	20.23	18.10	15.97	15.97	11.71	
5	Karur Vysya Bank						
	Average Loan Balance	22.36	19.17	17.04	18.10	13.84	
	Applicable Interest Rate (%)	10.30%	10.30%	10.30%	10.30%	10.30%	
	Interest	2.36	1.02	0.90	1.92	1.48	
	Finance charges	-	-	-	-	-	
	Total Interest & Finance charges	2.36	1.02	0.90	1.92	1.48	
	PTC Limited						
6	Canara Bank						
	Opening Balance of Loan	357.50	204.17	173.55	204.17	142.92	
	Addition of Loan during the year	153.93	30.62	30.62	61.25	61.25	
	Loan Repayment during the year	204.17	173.55	142.93	142.92	81.67	
	Closing Balance of Loan	280.84	188.86	158.24	173.55	112.30	
	Average Loan Balance	32.31	12.05%	12.05%	12.05%	12.05%	
	Applicable Interest Rate (%)	9.50% to 9.90%	9.75%	9.75%	9.75%	9.75%	
7	IREDA						
	Interest	10.12	1.82	1.82	1.82	1.82	
	Finance charges	0.02	-	-	-	-	
	Total Interest & Finance charges	10.14	1.82	-	1.82	-	
	Canara Bank						
	Opening Balance of Loan	489.57	364.48	301.96	364.48	239.44	
	Addition of Loan during the year	125.09	62.52	62.52	125.04	125.04	
8	Total						
	Loan Repayment during the year	364.48	301.96	239.44	239.44	114.40	
	Average Loan Balance	427.03	333.22	270.70	301.96	176.92	
	Applicable Interest Rate (%)	9.00% to 10.75%	11.10%	11.10%	11.10%	11.10%	
	Interest	46.67	18.94	15.28	34.22	20.24	
	Finance charges	-	-	-	-	-	
	Total Interest & Finance charges	46.67	18.94	15.28	34.22	20.24	
9	IREDA						
	Opening Balance of Loan	1,000.00	666.67	466.67	666.67	266.67	
	Addition of Loan during the year	-	-	-	-	-	
	Loan Repayment during the year	333.33	200.00	200.00	400.00	266.67	
	Closing Balance of Loan	666.67	466.67	266.67	266.67	266.67	
	Average Loan Balance	833.34	566.67	366.67	466.67	133.34	
	Applicable Interest Rate (%)	10.50%	10.50%	10.50%	10.50%	10.50%	
10	Total						
	Interest	92.14	31.36	20.10	51.46	10.53	
	Finance charges	-	-	-	-	-	
	Total Interest & Finance charges	92.14	31.36	20.10	51.46	10.53	
	Total						
	Opening Balance of Loan	11,529.91	10,437.38	9,711.82	10,437.38	10,035.58	
	Addition of Loan during the year	563.93	146.86	1,113.64	1,260.50	2,473.30	
	Loan Repayment during the year	1,656.46	872.42	789.87	1,662.30	1,450.11	
11	Total						
	Closing Balance of Loan	10,437.38	9,711.82	10,035.59	10,035.58	11,058.77	
	Average Loan Balance	10,983.65	10,042.11	9,873.71	10,203.99	10,547.18	
	Applicable Interest Rate (%)	-	-	-	-	-	
	Interest	1,077.25	521.53	507.33	1,028.86	1,067.63	
	Finance charges	-	-	-	0.20	0.20	
	Total Interest & Finance charges	1,077.27	521.53	507.33	1,029.06	1,067.83	

Opening GFA Particulars	2023-24	2024-25	2025-26
All Assets - Opening Balance of Gross Fixed Assets	22,900.11	24146.46	26747.71
Consumer Contribution & LIS & Opening Balance of GFA (base-year manual entry)	3,769.01	4640.67	6033.32
TRANSCO Assets Opening Balance of GFA	19,131.10	19,505.79	20,714.39

Asset Addition during the year Particulars	2023-24	2024-25	2025-26
Total Assets Addition During the Year	1,246.34	2601.25	7120.66
Consumer Contribution & LIS Assets Addition During the Year (base-year manual entry)	871.66	1392.65	1620.86
TRANSCO Assets Addition During the Year	374.68	1,208.60	5,499.80

Opening Accumulated Depreciation Particulars	2023-24	2024-25	2025-26
Total Opening Accumulated Depreciation	7,927.00	8981.22	9754.41
Consumer Contribution & LIS Assets Accumulated Depreciation (base-year manual entry)	1,470.88	1727.95	2010.09
TRANSCO Assets Accumulated Depreciation	6,456.12	7,253.27	7,744.33

Depreciation Addition During the year Particulars	2023-24	2024-25	2025-26
Total Depreciation Addition During the Year	1,054.21	773.20	920.90
Consumer Contribution & LIS Assets Amortisation During the Year (base-year manual entry)	257.07	282.14	336.38
TRANSCO Assets Depreciation Addition During the Year	797.14	491.06	584.51

Gross Normative Loan Particulars	2023-24	2024-25	2025-26
TRANSCO Assets - Opening Balance of Gross Normative Loan 100%	19,131.10	19,505.79	20,714.39
TRANSCO Assets - Closing Balance of Gross Normative Loan 100%	19,505.79	20,714.39	26,214.19

Details of DC & LIS Amortisation Additions	Year		
Particulars - Year assets	23-24	24-25	25-26
DC Works Amortisation 2023 - 24 (base-year manual entry)	81.17	257.07	257.07
LIS Works Amortisation 2023-24 (base-year manual entry)	175.90		
2024-25	-	25.07	50.14
2025-26	-	-	29.18
DCW Total	257.07	282.14	336.38

TRANSMISSION CORPORATION OF TELANGANA LIMITED
Form 6: Interest on working capital

(Rs. In Crores)

S. No.	Particulars	2023-24			2024-25					FY 2025-26		
		MYT/Tariff Order	Apr-Mar	True-Up requirement	MYT/Tariff Order	Apr-Sep	Oct-Mar	Apr - Mar	Variation	MYT/Tariff Order	Apr - Mar	Variation
		Approved	Audited	Claimed	Approved	Actual	Estimated	Estimated	Estimated	Approved	(n+1)	Estimated
1	O&M expenses for 1 Month	-	-	-	108.29	49.68	53.04	102.71	-5.58	114.77	108.62	-6.15
2	Maintenance spares @1% of Opening GFA	-	-	-	277.08		241.46	241.46	-35.62	300.56	267.48	-33.08
3	Receivables equivalent to 45 days of ARR	-	-	-	387.00		391.45	391.45	4.45	421.90	454.86	32.96
	Less:	-	-	-			-					
4	Security Deposits	-	-	-	32.58		37.24	37.24	4.66	32.58	37.24	4.66
5	Total Working Capital requirement	-	-	-	739.79		698.39	698.39	-41.40	804.65	793.71	-10.94
6	Interest rate (%)	-	-	-	10.15		10.50	10.50		10.15	10.50	
7	Interest on working capital	-	-	-	75.09		73.33	73.33	-1.76	81.67	83.34	1.67

Note: For the purpose of arriving interest on working capital, SBI MCLR One Year Interest rate effective from 15th November 2024 @ 9.00% has been considered. Further, 150 basis points have been added to the above rate in accordance with clause 33.6 of the regulation to arrive at effective interest rate (i.e. 9.00+1.5=10.50%).

TRANSMISSION CORPORATION OF TELANGANA LIMITED
Form 7: Return on Equity

(Rs. In Crores)

S. No.	Particulars	2023-24			2024-25					FY 2025-26		
		MYT/Tariff Order	Apr-Mar	True-Up requirement	MYT/Tariff Order	Apr-Sep	Oct-Mar	Apr - Mar	Variation	MYT/Tariff Order	Apr - Mar	Variation
		Approved	Audited	Claimed	Approved	Actual	Estimated	Estimated	Estimated	Approved	(n+1)	Estimated
1	Regulatory Equity at the beginning of the year	688.13	471.74	-216.39	3,262.63	3,063.13		3,063.13		3,533.01	3,365.28	
2	Capitalisation during the year (100%)						1,208.60	1,208.60			5,499.80	
3	Equity portion of capitalisation during the year				270.37		302.15	302.15		346.32	1,374.95	
4	Reduction in Equity Capital on account of retirement / replacement of assets						-	-			-	
5	Regulatory Equity at the end of the year				3,533.01		3,365.28	3,365.28		3,879.32	4,740.23	
	Rate of Return on Equity						-					
6	Base rate of Return on Equity				14.00%		14.00%	14.00%		14.00%	14.00%	
7	Effective Income Tax rate				17.47%		17.47%	17.47%		17.47%	17.47%	
8	Rate of Return on Equity				12.72%		16.96%	16.96%		16.96%	16.96%	
	Return on Equity Computation						-					
9	Return on Regulatory Equity at the beginning of the year						519.63	519.63			570.88	
10	Return on Regulatory Equity addition during the year						25.63	25.63			116.62	
11	Total Return on Equity	688.13	471.74	-216.39	432.30		545.26	545.26	112.96	628.71	687.51	58.80

TRANSMISSION CORPORATION OF TELANGANA LIMITED
Form 8: Non-Tariff Income

(Rs. In Crores)

S. No.	Particulars	2023-24			2024-25					FY 2025-26		
		MYT/Tariff Order	Apr-Mar	Variation	MYT/Tariff Order	Apr-Sep	Oct-Mar	Apr - Mar	Variation	MYT/Tariff Order	Apr - Mar	Variation
		Approved	Audited	Actual	Approved	Actual	Estimated	Estimated	Estimated	Approved	Estimated	Estimated
1	Supervision charges	477.71	116.20	(37.02)	464.70	8.38	49.72	58.10	-71.90	515.70	58.10	-72.43
2	Contributions & amortisation towards depreciation on LIS and Other than LIS Assets		257.07			0.00	282.14	282.14			336.38	
3	Registration fees		0.63			0.50	0.13	0.63			0.63	
4	Operating and maintenance/annual maintenance charges		5.32			4.32	1.00	5.32			5.32	
5	Interest on staff loans and advances		1.24			0.35	0.89	1.24			1.24	
6	Interest on Income Tax refund		2.30			0.00	0.00	0.00			0.00	
7	Income from investments in bonds and fixed deposits		9.02			0.20	8.82	9.02			9.02	
8	Income from sale of scrap etc.,		4.78			-1.00	5.78	4.78			4.78	
9	Gain on fair value changes - investments classified at FVTPL		2.04			0.00	0.00	0.00			0.00	
10	Fines and penalties collected		30.69			7.68	7.66	15.34			15.34	
11	Interest on investments under contingency reserve		(1.05)			0.00	0.00	0.00			-	
12	Income from Lease rentals		12.01			21.21	-9.20	12.01			12.01	
13	Miscellaneous receipts		0.44			0.59	-0.15	0.44			0.44	
	Total	477.71	440.69	-37.02	464.70	42.24	346.79	389.03	-75.67	515.70	443.27	-72.43

TRANSMISSION CORPORATION OF TELANGANA LIMITED
Form 9: Income from Open Access Charges

(Rs. In Crores)

S. No.	Particulars	2023-24			2024-25				2025-26
		MYT/Tariff Order	Apr-Mar	True-Up requirement	MYT/Tariff Order	Apr-Sep	Oct-Mar	Apr - Mar	Apr - Mar
		Approved	Audited	Claimed	Approved	Actual	Estimated	Estimated	Projected
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
	Total								

TRANSMISSION CORPORATION OF TELANGANA LIMITED
Form 10: Income from Other Businesses

(Rs. In Crores)

S. No.	Particulars	2023-24			2024-25				2025-26
		MYT/Tariff Order	Apr-Mar	True-Up requirement	MYT/Tariff Order	Apr-Sep	Oct-Mar	Apr - Mar	Apr - Mar
		Approved	Audited	Claimed	Approved	Actual	Estimated	Estimated	Projected
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
	Total								

TRANSMISSION CORPORATION OF TELANGANA LIMITED
Form 11: Planned & Forced Outages

(Rs. In Crores)

S.No.	Particulars	Year (n-1)	Current Year 'n'			Control Period				
		April-March	Apr-Sep	Oct-Mar	Apr - Mar	n+1	n+2	n+3	n+4	n+5
		Actual	Actual	Estimated	Estimated	Projected	Projected	Projected	Projected	Projected
1.	Name of the Transmission Element									
A.	Planned Outages				Continued					
	No of days of outage									
	Period of Outage									
	Reasons for Outage									
B.	Forced Outages									
	No of days of outage									
	Period of Outage									
	Reasons for Outage				Continued					
2	Name of the Transmission Element									

Note:
Details of outages should be submitted for each Transmission Element under outage separately

Transmission Corporation of Telangana Limited
Form 12: Energy Handled during the year (in MU)

Year (n-1) FY:2023-24

Actuals (Audited)

Beneficiary	April'23	May'23	June'23	July'23	Aug'23	Sep'23	Oct'23	Nov'23	Dec'23	Jan'24	Feb'24	March'24	Total
Beneficiary 1 : TSSPDCL	5068.30	4177.14	4254.89	4517.08	5401.83	4960.18	5867.79	4451.53	4634.45	5460.12	5647.55	6813.92	61254.81
Beneficiary 2 : TSNPDCL	2085.30	1754.66	1774.78	1881.58	2247.26	2054.41	2459.75	1862.71	1947.52	2284.50	2365.39	2847.72	25565.57
Total :	7153.60	5931.80	6029.67	6398.66	7649.09	7014.59	8327.54	6314.24	6581.97	7744.62	8012.94	9661.64	86820.38

Current Year (n) FY:2024-25

Actuals (Upto September 2024)

Beneficiary	April'24	May'24	June'24	July'24	Aug'24	Sep'24	Oct'24	Nov'24	Dec'24	Jan'25	Feb'25	March'25	Total
Beneficiary 1 : TSSPDCL	5141.93	4428.57	4341.94	5039.90	5825.68	5041.24	6035.05	5829.53	5901.44	6388.43	6439.82	6974.02	67387.55
Beneficiary 2 : TSNPDCL	2144.25	1856.55	1823.97	2096.33	2430.81	2102.15	2518.70	2432.92	2462.93	2666.18	2687.62	2910.57	28132.99
Total :	7286.19	6285.11	6165.91	7136.23	8256.49	7143.39	8553.75	8262.46	8364.37	9054.60	9127.44	9884.59	95520.54

Ensuing Year (n+1) FY:2025-26

Projected

Beneficiary	April'24	May'24	June'24	July'24	Aug'24	Sep'24	Oct'24	Nov'24	Dec'24	Jan'25	Feb'25	March'25	Total
Beneficiary 1 : TSSPDCL	5397.43	4655.85	4567.55	5286.34	6116.20	5291.65	6336.41	6120.62	6196.12	6707.42	6761.38	7322.26	70759.23
Beneficiary 2 : TSNPDCL	2253.07	1943.51	1906.65	2206.70	2553.11	2208.92	2645.03	2554.96	2586.47	2799.91	2822.43	3056.56	29537.34
Total :	7650.50	6599.37	6474.20	7493.04	8669.32	7500.56	8981.44	8675.58	8782.59	9507.33	9583.81	10378.82	100296.57

Transmission Corporation of Telangana Limited
Annexure B to Form 12: Energy Handled
Energy handled (MU) during the year 2023-24 (Actuals)

Current Year 'n' FY2023-24
Actuals

S.No.	Station	April'23	May'23	June'23	July'23	Aug'23	Sep'23	Oct'23	Nov'23	Dec'23	Jan'24	Feb'24	March'24	Total
	Beneficiary 1 : TSSPDCL													
	CGS													
1	NPC Kaiga - I& II	67.15	60.48	56.24	63.55	66.52	66.43	54.44	61.47	68.50	63.36	64.48	68.92	761.55
2	NPC-MAPS	4.66	4.76	4.27	0.00	0.00	2.27	4.10	4.61	4.86	4.81	4.33	4.79	43.46
3	NPC-Kudankulam	19.18	5.42	2.05	7.33	26.39	25.94	27.15	26.40	20.66	26.87	22.77	24.54	234.69
4	NLC ST-I	1.73	1.25	1.74	1.39	1.22	2.24	1.01	1.24	1.12	1.49	1.25	1.84	17.52
5	NLC ST-II	1.72	0.61	0.89	1.51	1.85	2.72	1.54	1.36	1.00	2.05	1.76	2.25	19.26
6	NNTPS	28.71	23.57	26.98	27.17	18.65	16.07	24.83	26.54	29.19	30.09	20.51	30.64	302.97
7	Expn I	2.53	1.84	1.64	3.64	2.36	3.66	1.68	2.16	1.47	3.34	2.54	2.64	29.50
8	Expn II	1.93	1.25	1.44	2.19	0.92	1.97	1.48	1.71	1.05	1.41	0.92	1.49	17.76
9	NTPC(ER) - Farakka-1	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
10	NTPC(ER)-Kahalgaon	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
11	NTPC FGTPS 2 Pushp	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16
12	NTPC NSTPS 1 Pushp	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41
13	NTPC(NER)-Bongaigaon TPS	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.04
14	NTPC(SR) I & II	134.96	110.55	103.73	125.54	128.30	127.75	111.82	109.28	115.88	130.66	108.58	122.67	1429.72
15	NTPC(SR) ST III	36.06	30.23	33.62	33.32	36.72	31.25	35.72	26.27	23.75	32.11	30.74	28.18	377.97
16	NTPC-Simhadri -I	143.54	98.09	168.65	164.16	198.54	222.67	250.15	161.46	98.93	225.10	229.83	225.71	2186.84
17	NTPC-Simhadri -II	78.74	42.72	74.99	37.76	73.78	103.95	104.12	109.90	107.16	112.47	97.37	101.43	1044.39
18	NTPC-Talcher-ST II	99.95	99.75	76.27	84.93	67.69	82.32	111.57	102.38	105.36	105.06	98.84	105.15	1139.28
19	NTPC KUDIGI I	48.78	33.95	61.28	35.12	67.75	66.38	83.08	22.21	30.79	74.14	39.07	28.90	591.42
20	NTPC Telangana TPS St.1	0.00	0.00	0.00	0.00	0.00	6.09	313.11	133.24	141.59	243.56	265.35	763.21	1866.16
21	NTECL - VALLURU	43.84	29.15	34.23	41.42	35.23	25.98	26.50	12.60	7.50	12.44	12.66	16.92	298.48
22	NLC Tamilnadu Power Ltd	52.42	35.38	48.97	38.02	33.62	60.59	70.90	39.64	27.55	41.40	37.64	47.78	533.91
	Sub-TOTAL	765.90	579.57	698.10	667.05	759.55	848.29	1223.26	842.48	786.36	1110.35	1038.64	1577.08	10896.63
	IPPs													
23	Sembcorp Energy India Limited (57	266.29	251.23	266.00	271.23	268.20	251.40	252.51	213.65	169.62	281.99	268.21	258.38	3018.71
24	Sembcorp Energy India Limited (26	131.37	137.09	132.05	137.92	131.74	127.35	119.90	103.43	82.59	130.84	121.16	123.53	1478.97
	Sub-TOTAL	397.66	388.32	398.05	409.15	399.94	378.76	372.41	317.08	252.21	412.82	389.36	381.91	4497.68
25	Trading	888.48	200.23	425.48	732.41	1221.98	921.90	1142.73	729.37	863.09	915.07	1391.24	1857.86	11289.86
26	NCEs- TSSPDCL	787.23	713.85	680.13	555.67	623.49	606.73	658.64	552.48	582.97	607.60	657.88	741.58	7768.24
27	NVVNL B.P-Coal	18.06	16.36	16.16	14.43	15.55	17.03	18.70	16.35	14.99	18.66	23.76	28.16	218.20
28	NSM-Coal Phase II	82.29	82.13	116.28	97.99	107.20	158.00	145.58	145.94	115.77	100.25	96.94	90.35	1338.73
29	KTPS V (D)	181.70	174.76	190.08	183.35	178.04	186.45	189.37	184.75	183.39	185.73	169.85	180.63	2188.09
30	KTPS VI	207.37	215.93	200.86	213.70	182.19	179.41	217.30	109.81	149.30	195.30	188.25	179.84	2239.28
31	KTPS Stage VII	352.15	367.42	376.75	373.30	345.30	272.86	380.88	225.94	357.59	342.39	322.56	344.16	4061.29
32	RTS-B	13.85	17.35	15.01	17.36	16.94	2.45	1.22	13.15	16.22	17.46	14.20	9.34	154.55
33	Kakatiya Stage-I	179.81	206.04	217.87	215.41	205.38	195.89	199.97	211.23	212.26	224.58	203.27	212.57	2484.29
34	Kakatiya Stage-II	262.92	247.95	254.16	192.95	268.57	233.79	248.72	239.97	248.89	268.20	242.01	268.38	2976.51
35	BTPS	361.36	382.46	360.31	283.12	299.23	329.05	378.19	413.01	398.67	436.41	414.39	406.36	4462.56
36	TSGENCO-Hydel	36.53	36.06	38.63	80.83	203.57	104.16	108.88	39.71	65.49	67.96	31.96	19.12	832.89
	TGGENCO-TOTAL	1595.68	1647.96	1653.66	1560.03	1699.22	1504.06	1724.52	1437.58	1631.80	1738.03	1586.49	1620.41	19399.46
37	SINGARENI CCCL unit 1&2	533.01	548.71	267.02	480.34	574.90	525.41	581.96	410.26	387.26	557.35	463.24	516.57	5846.02
	TGSPDCL TOTAL	5068.30	4177.14	4254.89	4517.08	5401.83	4960.18	5867.79	4451.53	4634.45	5460.12	5647.55	6813.92	61254.81

S.No.	Station	April'23	May'23	June'23	July'23	Aug'23	Sep'23	Oct'23	Nov'23	Dec'23	Jan'24	Feb'24	March'24	Total
	Beneficiary 2- TSNPDCL													
	CGS													
1	NPC Kaiga - I & II	28.03	25.25	23.48	26.53	27.77	27.73	22.72	25.66	28.59	26.45	26.91	28.77	317.90
2	NPC-MAPS	1.95	1.99	1.78	0.00	0.00	0.95	1.71	1.92	2.03	2.01	1.81	2.00	18.14
3	NPC-Kudankulam	8.01	2.26	0.86	3.06	11.02	10.83	11.33	11.02	8.62	11.22	9.50	10.24	97.97
4	NLC ST-I	0.72	0.52	0.73	0.58	0.51	0.94	0.42	0.52	0.47	0.62	0.52	0.77	7.31
5	NLC ST-II	0.72	0.25	0.37	0.63	0.77	1.14	0.64	0.57	0.42	0.85	0.73	0.94	8.04
6	NNTPS	11.98	9.84	11.26	11.34	7.79	6.71	10.37	11.08	12.19	12.56	8.56	12.79	126.47
7	Expn I	1.06	0.77	0.68	1.52	0.99	1.53	0.70	0.90	0.61	1.39	1.06	1.10	12.31
8	Expn II	0.81	0.52	0.60	0.91	0.38	0.82	0.62	0.71	0.44	0.59	0.38	0.62	7.42
9	NTPC(ER) - Farakka-1	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
10	NTPC(ER)-Kahalgaoon	0.00	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42
11	NTPC FGTPS 2 Pushp	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07
12	NTPC NSTPS 1 Pushp	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17
13	NTPC(NER)-Bongaigaon TPS	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.02
14	NTPC(SR) I & II	56.34	46.15	43.30	52.40	53.56	53.33	46.68	45.62	48.37	54.54	45.32	51.21	596.81
15	NTPC(SR) ST III	15.05	12.62	14.03	13.91	15.33	13.04	14.91	10.97	9.91	13.40	12.83	11.76	157.78
16	NTPC-Simhadri -I	59.92	40.95	70.40	68.53	82.88	92.95	104.42	67.40	41.30	93.96	95.94	94.22	912.86
17	NTPC-Simhadri -II	32.87	17.83	31.30	15.76	30.80	43.39	43.46	45.88	44.73	46.95	40.65	42.34	435.97
18	NTPC-Talcher-ST II	41.72	41.64	31.84	35.45	28.26	34.36	46.57	42.74	43.98	43.85	41.26	43.89	475.57
19	NTPC KUDIGI I	20.36	14.17	25.58	14.66	28.28	27.71	34.68	9.27	12.85	30.95	16.31	12.07	246.88
20	NTPC Telangana TPS St.1	0.00	0.00	0.00	0.00	0.00	2.54	130.70	55.62	59.10	101.67	110.77	318.59	779.00
21	NTECL - VALLURU	18.30	12.17	14.29	17.29	14.71	10.85	11.06	5.26	3.13	5.19	5.28	7.06	124.60
22	NLC Tamilnadu Power Ltd	21.88	14.77	20.44	15.87	14.03	25.29	29.60	16.55	11.50	17.28	15.71	19.95	222.87
	Sub-TOTAL	319.71	241.93	291.41	278.45	317.06	354.11	510.63	351.68	328.25	463.50	433.57	658.33	4548.63
	IPPs													
23	Sembcorp Energy India Limited (57	111.16	104.87	111.04	113.22	111.96	104.95	105.41	89.18	70.80	117.71	111.96	107.86	1260.11
24	Sembcorp Energy India Limited (26	54.84	57.22	55.12	57.57	54.99	53.16	50.05	43.18	34.48	54.62	50.58	51.57	617.37
	Sub-TOTAL	166.00	162.10	166.16	170.79	166.95	158.11	155.46	132.36	105.28	172.33	162.53	159.42	1877.49
25	Trading	370.88	83.58	177.61	305.74	510.10	384.83	477.02	304.47	360.29	381.98	580.75	775.53	4712.78
26	NCEs- TSNPDCL	298.23	308.97	282.55	227.95	252.61	237.13	285.27	235.11	256.29	258.90	282.52	312.91	3238.44
27	NVVNL B.P-Coal	7.54	6.83	6.75	6.03	6.49	7.11	7.80	6.82	6.26	7.79	9.92	11.76	91.09
28	NSM-Coal Phase II	34.35	34.28	48.54	40.91	44.75	65.96	60.77	60.92	48.33	41.85	40.47	37.72	558.83
29	KTPS V (D)	75.85	72.95	79.34	76.54	74.32	77.83	79.05	77.12	76.55	77.53	70.90	75.40	913.39
30	KTPS VI	86.56	90.14	83.85	89.21	76.05	74.89	90.71	45.84	62.32	81.53	78.58	75.07	934.75
31	KTPS Stage VII	147.00	153.37	157.27	155.83	144.14	113.90	158.99	94.32	149.27	142.92	134.65	143.66	1695.32
32	RTS-B	5.78	7.24	6.26	7.25	7.07	1.02	0.51	5.49	6.77	7.29	5.93	3.90	64.51
33	Kakatiya Stage-I	75.06	86.01	90.95	89.92	85.73	81.77	83.48	88.18	88.61	93.75	84.85	88.73	1037.03
34	Kakatiya Stage-II	109.75	103.50	106.10	80.54	112.11	97.59	103.82	100.17	103.90	111.96	101.02	112.03	1242.50
35	BTPS	150.85	159.65	150.40	118.19	124.91	137.36	157.87	172.40	166.42	182.17	172.98	169.63	1862.83
36	TSGENCO-Hydel	15.25	15.05	16.12	33.74	84.98	43.48	45.45	16.58	27.34	28.37	13.34	7.98	347.68
	TGGENCO-TOTAL	666.09	687.92	690.30	651.21	709.31	627.85	719.88	600.09	681.17	725.51	662.26	676.42	8098.00
37	SINGARENI CCCL unit 1&2	222.50	229.05	111.46	200.51	239.98	219.32	242.93	171.25	161.66	232.66	193.37	215.63	2440.33
	TGNPDCL TOTAL	2085.30	1754.66	1774.78	1881.58	2247.26	2054.41	2459.75	1862.71	1947.52	2284.50	2365.39	2847.72	25565.57
	GRAND TOTAL (INR)	7153.60	5931.90	6829.67	6398.66	7649.09	7014.59	8327.54	6314.24	6581.97	7744.62	8012.94	9661.64	86820.38

Transmission Corporation of Telangana Limited
Annexure B to Form 12: Energy Handled
Energy handled (MU) during the year 2024-25 (Projected)

Current Year 'n' FY2024-25
Actuals

(MU)

Station	April'24	May'24	June'24	July'24	Aug'24	Sep'24	Oct'24	Nov'24	Dec'24	Jan'25	Feb'25	March'25	TOTAL (Apr'24 to Sep'24)
	Energy (MU)	Energy (MU)	Energy (MU)	Energy (MU)	Energy (MU)	Energy (MU)	Energy (MU)	Energy (MU)	Energy (MU)	Energy (MU)	Energy (MU)	Energy (MU)	Energy (MU)
	Actuals	Actuals	Actuals	Actuals	Actuals	Actuals	Projected	Projected	Projected	Projected	Projected	Projected	
Beneficiary 1 : TSSPDCL													
CGS													
NPC Kaiga - I & II	66.12	66.97	62.86	67.42	66.79	59.98	71.81	69.36	70.22	76.01	76.62	82.98	837.13
NPC-MAPS	4.36	4.54	4.33	4.51	4.46	4.26	5.10	4.92	4.98	5.39	5.44	5.89	58.18
NPC-Kudankulam	25.03	11.74	1.81	17.78	26.53	24.66	29.52	28.51	28.86	31.25	31.50	34.11	291.28
NLC ST-I	1.87	1.72	0.93	0.92	0.56	0.93	1.12	1.08	1.09	1.18	1.19	1.29	13.88
NLC ST-II	2.69	2.35	1.24	0.96	1.11	0.82	0.98	0.95	0.96	1.04	1.05	1.13	15.27
NNTPS	29.80	30.77	23.11	14.52	14.23	22.15	26.51	25.61	25.93	28.07	28.29	30.64	299.62
Expn I	2.41	2.88	2.23	2.17	1.71	1.59	1.91	1.84	1.87	2.02	2.04	2.21	24.88
Expn II	1.01	1.08	0.95	0.65	0.25	0.40	0.48	0.47	0.47	0.51	0.52	0.56	7.36
NTPC(Pushp)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NTPC(SR) I & II	109.72	104.49	98.48	104.49	49.74	57.07	68.32	66.00	66.81	72.32	72.90	78.95	949.30
NTPC(SR) ST III	24.00	20.51	23.47	20.51	24.01	15.95	19.09	18.44	18.67	20.21	20.37	22.06	247.30
NTPC-Simhadri -I	146.78	155.50	203.28	155.50	193.01	196.47	235.20	227.19	230.00	248.98	250.98	271.80	2514.69
NTPC-Simhadri -II	71.83	77.36	74.67	77.36	89.33	101.31	121.28	117.15	118.59	128.38	129.41	140.15	1246.80
NTPC-Talcher-ST II	92.66	98.60	71.44	98.60	88.74	82.84	99.17	95.79	96.97	104.97	105.82	114.60	1150.19
NTPC KUDIGI I	49.83	51.85	52.02	51.85	24.30	30.42	36.42	35.18	35.61	38.55	38.86	42.08	486.94
NTPC Telangana TPS	380.35	509.28	419.40	509.28	352.49	382.89	458.37	442.76	448.23	485.21	489.12	529.69	5407.09
NTECL - VALLURU	17.87	19.86	38.89	19.86	42.19	38.34	45.90	44.34	44.89	48.59	48.98	53.05	462.76
NLC Tamilnadu Powe	46.96	39.54	56.00	68.30	68.54	25.64	30.69	29.64	30.01	32.49	32.75	35.46	496.03
Sub-TOTAL	1073.28	1199.03	1135.12	1214.67	1047.99	1045.72	1251.87	1209.24	1224.15	1325.17	1335.83	1446.64	14508.70
IPPs													0.00
M/s Thermal Powertec	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermal Powertech	121.94	131.40	121.85	121.36	104.15	106.78	127.83	123.47	125.00	135.31	136.40	147.71	1503.19
Sub-TOTAL	121.94	131.40	121.85	121.36	104.15	106.78	127.83	123.47	125.00	135.31	136.40	147.71	1503.19
Trading	1168.33	230.21	552.40	1517.11	1719.40	784.65	939.34	907.35	918.54	994.34	1002.34	1085.48	11819.47
NCEs- TGNPDCL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NCEs- TGSPDCL	703.71	734.03	664.46	592.01	584.33	648.23	776.02	749.59	758.84	821.46	828.07	896.76	8757.52
NVVNL B.P-Coal	5.80	18.73	16.31	11.37	7.84	15.67	18.76	18.12	18.35	19.86	20.02	21.68	192.51
NSM-Coal Phase II	80.64	94.16	97.08	79.71	108.47	61.79	73.98	71.46	72.34	78.31	78.94	85.49	982.36
KTPS V (D)	173.80	174.59	120.65	89.02	100.58	98.60	118.04	114.02	115.43	124.95	125.96	136.41	1492.06
KTPS VI	183.77	181.79	159.63	172.95	161.64	146.67	175.59	169.61	171.70	185.87	187.36	202.91	2099.50
KTPS Stage VII	328.68	343.97	342.24	308.45	355.66	256.08	306.57	296.13	299.78	324.52	327.13	354.26	3843.46
RTS-B	6.02	5.21	0.16	-0.15	-0.14	-0.14	-0.16	-0.16	-0.16	-0.17	-0.17	-0.19	9.95
Kakatiya Stage-I	191.82	185.06	164.17	56.34	97.64	162.92	195.03	188.39	190.71	206.45	208.11	225.38	2072.02
Kakatiya Stage-II	240.34	233.35	230.35	195.71	193.02	207.06	247.88	239.44	242.39	262.39	264.50	286.45	2842.88
BTPS	373.07	398.71	368.85	275.91	248.09	206.19	246.84	238.43	241.37	261.29	263.39	285.24	3407.40

Station	April'24	May'24	June'24	July'24	Aug'24	Sep'24	Oct'24	Nov'24	Dec'24	Jan'25	Feb'25	March'25	TOTAL (Apr'24 to Sep'24)
	Energy (MU)	Energy (MU)	Energy (MU)	Energy (MU)	Energy (MU)	Energy (MU)	Energy (MU)	Energy (MU)	Energy (MU)	Energy (MU)	Energy (MU)	Energy (MU)	Energy (MU)
	Actuals	Actuals	Actuals	Actuals	Actuals	Actuals	Projected	Projected	Projected	Projected	Projected	Projected	
Interest on Pension b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TSGENCO-Hydel	5.63	-0.58	-0.88	142.14	849.47	852.19	1020.19	985.45	997.60	1079.93	1088.61	1178.92	8198.68
Water Charges	0.00	0.00	0.00										0.00
TGGENCO-TOTAL	1503.13	1522.11	1385.18	1240.37	2005.95	1929.58	4118.07	3977.83	4026.89	4359.20	4394.26	4758.78	35221.35
SINGARENI CCCL ur	485.11	498.90	369.55	263.30	247.55	448.82	537.29	519.00	525.40	568.75	573.33	620.89	5657.86
	574.95	442.85	341.94	506.50	5825.68	5041.24	6035.05	5829.53	5901.44	6388.43	6439.82	6974.02	

CGS													
NPC Kaiga - I & II	27.60	27.95	26.24	28.14	27.88	25.04	30.00	28.98	29.34	31.76	32.01	34.67	349.61
NPC-MAPS	1.82	1.90	1.81	1.88	1.86	1.78	2.13	2.06	2.08	2.25	2.27	2.46	24.30
NPC-Kudankulam	10.45	4.90	0.76	7.42	11.07	10.29	12.33	11.91	12.06	13.05	13.16	14.25	121.66
NLC ST-I	0.78	0.72	0.39	0.38	0.23	0.39	0.47	0.45	0.46	0.49	0.50	0.54	5.80
NLC ST-II	1.12	0.98	0.52	0.40	0.46	0.34	0.41	0.40	0.40	0.43	0.44	0.47	6.38
NNTPS	12.44	12.84	9.65	6.06	5.94	9.25	11.08	10.70	10.83	11.73	11.82	12.80	125.13
Expn I	1.01	1.20	0.93	0.91	0.71	0.67	0.80	0.77	0.78	0.84	0.85	0.92	10.39
Expn II	0.42	0.45	0.40	0.27	0.11	0.17	0.20	0.20	0.20	0.21	0.22	0.23	3.07
NTPC(Pushp)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NTPC(SR) I & II	45.80	43.62	41.11	43.62	20.76	23.82	28.54	27.57	27.91	30.22	30.46	32.99	396.42
NTPC(SR) ST III	10.02	8.56	9.80	8.56	10.02	6.66	7.98	7.71	7.80	8.44	8.51	9.22	103.27
NTPC-Simhadri -I	61.27	64.91	84.85	64.91	80.57	82.01	98.27	94.92	96.09	104.02	104.86	113.55	1050.24
NTPC-Simhadri -II	29.98	32.29	31.17	32.29	37.29	42.29	50.67	48.94	49.55	53.64	54.07	58.55	520.73
NTPC-Talcher-ST II	38.68	41.16	29.82	41.16	37.04	34.58	41.43	40.02	40.51	43.86	44.21	47.88	480.35
NTPC KUDIGI I	20.80	21.64	21.71	21.64	10.14	12.70	15.21	14.70	14.88	16.11	16.23	17.58	203.35
NTPC Telangana TPS	158.77	212.59	175.07	212.59	147.14	159.83	191.50	184.98	187.26	202.72	204.35	221.30	2258.12
NTECL - VALLURU	7.46	8.29	16.24	8.29	17.61	16.01	19.18	18.52	18.75	20.30	20.46	22.16	193.27
NLC Tamilnadu Powe	19.60	16.51	23.38	28.51	28.61	10.70	12.82	12.38	12.54	13.57	13.68	14.82	207.13
Sub-TOTAL	448.02	500.52	473.84	507.05	437.47	436.52	523.02	505.21	511.44	553.64	558.09	604.39	6059.20
IPPs													
M/s Thrmal Powertech	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermal Powertech	50.90	54.85	50.86	50.66	43.48	44.57	53.40	51.59	52.22	56.53	56.99	61.71	627.77
Sub-TOTAL	50.90	54.85	50.86	50.66	43.48	44.57	53.40	51.59	52.22	56.53	56.99	61.71	627.77
Trading	487.70	96.10	230.59	633.29	717.74	327.54	392.44	379.08	383.76	415.42	418.77	453.50	4935.93
NCEs- TGSPDCL	291.59	314.32	288.86	239.63	242.89	268.35	321.53	310.58	314.41	340.36	343.09	371.56	3647.18
NCEs- TGSPDCL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NVVNL B.P-Coal	2.42	7.82	6.81	4.75	3.27	6.54	7.84	7.57	7.66	8.30	8.36	9.06	80.40
NSM-Coal Phase II	33.66	39.30	40.52	33.27	45.28	25.80	30.91	29.85	30.22	32.72	32.98	35.71	410.23
KTPS V (D)	72.55	72.88	50.36	37.16	41.98	41.16	49.32	47.64	48.23	52.20	52.62	56.99	623.10
KTPS VI	76.71	75.89	66.64	72.19	67.48	61.23	73.36	70.86	71.73	77.65	78.28	84.77	876.79
KTPS Stage VII	137.20	143.59	142.86	128.76	148.46	106.90	128.08	123.72	125.24	135.58	136.67	148.01	1605.07
RTS-B	2.51	2.18	0.07	-0.06	-0.06	-0.06	-0.07	-0.07	-0.07	-0.07	-0.07	-0.08	4.15
Kakatiya Stage-I	80.07	77.25	68.53	23.52	40.76	68.01	81.48	78.71	79.68	86.25	86.95	94.16	865.36

Station	April'24	May'24	June'24	July'24	Aug'24	Sep'24	Oct'24	Nov'24	Dec'24	Jan'25	Feb'25	March'25	TOTAL (Apr'24 to Sep'24)
	Energy (MU)	Energy (MU)	Energy (MU)	Energy (MU)	Energy (MU)	Energy (MU)	Energy (MU)	Energy (MU)	Energy (MU)	Energy (MU)	Energy (MU)	Energy (MU)	Energy (MU)
	Actuals	Actuals	Actuals	Actuals	Actuals	Actuals	Projected	Projected	Projected	Projected	Projected	Projected	Projected
Kakatiya Stage-II	100.33	97.41	96.16	81.70	80.57	86.43	103.56	100.03	101.27	109.63	110.51	119.67	1187.26
BTPS	155.73	166.44	153.97	115.18	103.56	86.07	103.13	99.61	100.94	109.16	110.04	119.17	1422.91
Interest on Pension bonds		0.00	0.00					0.00					
TSGENCO-Hydel	2.35	-0.24	-0.37	59.34	354.60	355.73	426.22	411.71	416.79	451.18	454.81	492.54	3424.66
Water Charges	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TGGENCO-TOTAL	627.46	635.38	578.22	517.77	837.35	805.47	1717.80	1659.30	1679.77	1818.39	1833.01	1985.07	14695.00
SINGARENI CCCL	202.50	208.26	154.26	109.91	103.33	187.35	224.48	216.83	219.51	237.62	239.53	259.40	2362.97
TOTAL	2144.25	1856.55	1823.97	2096.33	2430.81	2102.15	2518.70	2432.92	2462.93	2666.18	2687.62	2910.57	
GRAND TOTAL :	7286.19	6285.11	6165.91	7136.23	8256.49	7143.39	8553.75	8262.46	8364.37	9054.60	9127.44	9884.59	55520.54

Energy Balance for 5th control period as per TSERC DISCOM Resource Plan & Business Plan approval order

(in MU)

Year	DISCOMs	Apr	May	Jun	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Totals
2024-25	Energy Requirement	7797.84	5470.41	5246.05	5493.65	7194.1	7001.66	7195.61	5686.45	6943.57	7706.74	7773.93	9547.57	83057.58
	Energy Available	7201.64	7240.18	6835.05	6974.7	7076.32	7177.45	8553.88	8262.58	8364.5	9054.74	9127.58	9884.74	95753.36
	Energy Balance	-596.2	1769.77	1589	1481.05	-117.78	175.79	1358.27	2576.13	1420.93	1348	1353.65	337.17	12695.78
2025-26	Energy Requirement	8189.85	5767.13	5544.65	5806.04	7578.15	7393.93	7596.15	6032.64	7335.62	8130.82	8179.71	10009.09	87563.78
	Energy Available	8578.43	8661.55	8210.57	8397.35	8502.39	8558.63	9515.54	8741.73	8856.92	9549.82	9152.52	9911.36	106636.81
	Energy Balance	388.58	2894.42	2665.92	2591.31	924.24	1164.7	1919.39	2709.09	1521.3	1419	972.81	-97.73	19073.03
2026-27	Energy Requirement	8604.84	6082.62	5863.11	6139.6	7986.95	7812.68	8023.79	6404.47	7754.79	8583.54	8611.18	10496.95	92364.52
	Energy Available	8531.95	8607.38	8160.23	8353.46	8472.49	8534.3	9488.39	8705.62	8812.17	9519.49	9110.45	9861.54	106157.47
	Energy Balance	-72.89	2524.76	2297.12	2213.86	485.54	721.62	1464.6	2301.15	1057.38	935.95	499.27	-635.41	13792.95
2027-28	Energy Requirement	9044.39	6418.21	6202.93	6495.98	8422.39	8260	8480.68	6804.07	8203.27	9067.16	9070.27	11012.97	97482.32
	Energy Available	8477.98	8537.72	8096.4	8296.24	8422.48	8495.36	9445	8657.31	8758.98	9462.65	9053.93	9802.14	105506.19
	Energy Balance	-566.41	2119.51	1893.47	1800.26	0.09	235.36	964.32	1853.24	555.71	395.49	-16.34	-1210.83	8023.87
2028-29	Energy Requirement	9510.2	6775.36	6565.7	6876.95	8886.5	8738.15	8969.15	7233.78	8683.45	9584.15	9559.09	11559.13	102941.61
	Energy Available	8236.52	8286.42	7885.26	8081.73	8195.95	8276.83	9218.1	8469.35	8540.3	9214.64	8827.76	9550.95	102783.81
	Energy Balance	-1273.68	1511.06	1319.56	1204.78	-690.55	-461.32	248.95	1235.57	-143.15	-369.51	-731.33	-2008.18	-157.80

Energy Balance for 5th control period as per TSERC DISCOM Resorce Plan & Business Plan approval order (in MU)

DISCOMs	2024-25	2025-26	2026-27	2027-28	2028-29
Energy Requirement	83057.58	87563.78	92364.52	97482.32	102941.61
Energy Available	95753.36	106636.81	106157.47	105506.19	102783.81
Energy Balance	12695.78	19073.03	13792.95	8023.87	-157.80

TRANSMISSION CORPORATION OF TELANGANA LIMITED
Form 13: Revenue from Transmission Charges

Financial year - 2023-24

Audited

(Rs. In Crores)

Particulars	Transmission Charge	Contracted Capacity(KW)	Full year revenue
TSSPDCL	145.14	15331580	2,670.28
TSNPDCL	145.14	6466710	1,126.29
BHEL (RAMACHANDRAPURAM)	145.14	1500	0.19
HYDERABAD INSTITUTE OF ONCOLOGY PVT	145.14	1000	0.11
MISHRA DHATU NIGAM LTD	145.14	4000	0.32
THE SINGARENI COLLIERIES COMPANY LTD	145.14	106000	26.92
VALENS	145.14	1000	0.29
INTER TRNS IEX/PXIL			12.10
INTER TRNS INTER REG			15.60
CENTRAL TRANSMISSION UTILITY (ISTS)			265.58
Total			4,117.68

TRANSMISSION CORPORATION OF TELANGANA LIMITED

Form 14: Summary of true-up

Financial Year - 2023-24

(Rs. In Crores)

S. No.	Particulars	APR Order	Normative claimed in true-up	Actual	Deviation	Reasons for Deviation	Controllable	Uncontrollable	Net Entitlement after sharing of gains/(losses)
A	Expenses side summary								
	Operation & Maintenance Expenses	1020.53		1136.06	115.53		Controllable		
	Depreciation	1378.79		1073.34	-305.45		Controllable		
	Interest and finance charges on loan	1198.69		795.67	-403.02		Controllable		
	Interest on Working Capital	0		0	0				
	Return on Equity	688.13		471.74	-216.39		Controllable		
	Less:				0				
	Non-Tariff Income	477.71		440.69	-37.02		Controllable		
	Income from Open Access Charges				0				
	Income from Other Business				0				
	Aggregate Revenue Requirement	3808.43		3036.12	-772.31				
B	Revenue side summary				0				
	Revenue from Transmission Charges	3808.43		4117.68	309.25		Controllable		
	Revenue for true-up	3808.43		4117.68	309.25				
C	Revenue Gap/(Surplus)	0		-1081.56	-1081.56				

Form 15

Contracted Capacities of TGDISCOMs for ATP Filings of Transmission & SLDC Activity for the FY 2025-26

Sl. No.	Details	Installed Capacity (MW)	Net Capacity TG Share (MW)	FY 2023-24	FY 2024-25			FY 2025-26
				Apr-March (Actual)	Apr-Sep (Actual)	Oct-March (Projected)	Apr-March (Projected)	(Projected)
1	TGGENCO THERMAL	8042.50	7505.70	3740.45	3771.95	6747.70	6747.70	7505.70
2	TGGENCO-HYDEL	2441.76	2299.71	2299.71	2299.71	2299.71	2299.71	2299.71
	TGGENCO	10484.26	9805.41	6040.16	6071.66	9047.41	9047.41	9805.41
3	CGS	45339.81	3630.41	3674.13	3655.29	3630.41	3630.41	3630.41
4	IPPs & Gas Projects	4334.08	2773.19	1970.45	1400.45	2541.36	2541.36	2541.36
5	Inter-State Hydel	141.6	75.55	0	0	75.55	75.55	75.55
6	NCEs (132 KV and above)	7362.35	7362.35	4462	4860.40	6062.34	6062.34	7362.35
7	NCEs (11 KV and 33 KV)	1040.00	1040.00	1035.00	1035.00	1040.00	1040.00	1040.00
	NCE Capacity	8402.35	8402.35	5497.00	5895.40	7102.34	7102.34	8402.35
	Open Access	129.75	129.75	113.50	113.00	112.50	113.00	129.75
	TRANSCO TOTAL Contracts	67791.85	23776.66	16260.25	16100.80	21469.57	21470.07	23544.83

Contracted Capacities of TGDISCOMs for ATP Filings of Transmission & SLDC Activity for the FY 2025-26

Sl.No.	Generating Station/Unit/Source	Installed Capacity (MW)	Net Capacity TG Share (MW)	FY 2023-24		FY 2024-25		FY 2025-26
				(Actuals)	Apr-Sep (Actual)	Oct-March (Projected)	Apr-March (Projected)	(Projected)
(A)	TGGENCO STATIONS							
GENCO THERMAL:								
1	KTPS-V	500	453.5	455.00	453.50	453.50	453.50	453.50
2	KTPS-VI	500	473.75	462.50	473.75	473.75	473.75	473.75
3	KTPS-VII	800	758.00	758.00	758.00	758.00	758.00	758.00
4	KTPP-I	500	473.75	462.50	473.75	473.75	473.75	473.75
5	KTPP-II	600	568.5	558.00	568.50	568.50	568.50	568.50
6	RTS-B	62.5	-	56.25	56.25	-	-	-
7	BTPS	1080	988.2	988.20	988.20	988.20	988.20	988.20
8	YTPS	4000	3790	-	-	3032.00	3032.00	3790.00
	Total Thermal (A):	8042.50	7505.70	3740.45	3771.95	6747.70	6747.70	7505.70
(B)	GENCO HYDEL:							
1	SrisaillamLeft Bank HES	900	889.20	889.20	889.20	889.20	889.20	889.20
2	NSPH	815.6	807.44	807.44	807.44	807.44	807.44	807.44
3	NSLCPH	60	59.40	59.40	59.40	59.40	59.40	59.40
4	Lower Jurala HES	240	237.60	237.60	237.60	237.60	237.60	237.60
5	Pulichintala	120	118.80	118.80	118.80	118.80	118.80	118.80
6	Priyadarshini Jurala HES	234	115.83	115.83	115.83	115.83	115.83	115.83
7	Pochampad PH (I-IV)	36	35.64	35.64	35.64	35.64	35.64	35.64
8	Singur	15	14.85	14.85	14.85	14.85	14.85	14.85
9	Nizam Sagar PH	10	9.90	9.90	9.90	9.90	9.90	9.90
10	Mini Hydel (Peddapalli)	9.16	9.07	9.07	9.07	9.07	9.07	9.07
11	Palair	2	1.98	1.98	1.98	1.98	1.98	1.98
	Total Hydel :	2441.76	2299.71	2299.71	2299.71	2299.71	2299.71	2299.71
	Total TGGENCO (A):	10484.26	9805.41	6040.16	6071.66	9047.41	9047.41	9805.41
(B)	CENTRAL GENERATING STATIONS							
1	NTPC (SR)-I & II	2100	322.42	327.43	326.60	322.42	322.42	322.42
2	NTPC (SR) Stage-III	500	81.69	82.79	82.71	81.69	81.69	81.69
3	NTPC Talcher Stagell	2000	202.23	203.54	203.82	202.23	202.23	202.23
4	NTPC Simhadri Stage-I	1000	510.61	507.91	510.61	510.61	510.61	510.61
5	NTPC Simhadri Stage-II	1000	241.71	241.89	242.68	241.71	241.71	241.71
6	Telangana STPP	1600	1287.80	1302.99	1288.60	1287.80	1287.80	1287.80
7	NTPC Kudigi Unit-I, II & III	2400	256.72	262.71	261.63	256.72	256.72	256.72
8	NLC Stage-I	580	3.31	4.89	4.26	3.31	3.31	3.31
9	NLC Stage-II	790	4.35	6.43	5.60	4.35	4.35	4.35

Sl.No.	Generating Station/Unit/Source	Installed Capacity (MW)	Net Capacity TG Share (MW)	Actuals	Apr-Sep (Actual)	Oct-March (Projected)	Apr-March (Projected)	Projected
10	NLC Exp-I	420	3.48	5.18	4.48	3.48	3.48	3.48
11	NLC Exp-II	500	3.99	6.06	5.13	3.99	3.99	3.99
12	New Neyveli Thermal Power plant (NNTPP)	934	58.19	58.07	58.30	58.19	58.19	58.19
13	NTECL Vallur Thermal Power Plant	1500	97.26	99.81	99.11	97.26	97.26	97.26
14	NLC Tamilnadu (Tuticorm) Unit-I & Unit II	1000	136.82	139.35	138.78	136.82	136.82	136.82
15	NPC-MAPS	440	19.31	19.78	19.59	19.31	19.31	19.31
16	NPC-Kaiga Unit-I&II	440	59.05	60.77	60.08	59.05	59.05	59.05
17	NPC-Kaiga Unit-III & IV	440	62.91	64.63	63.94	62.91	62.91	62.91
18	KKNPP (Kudankulam Nuclear Power Plant) Unit-I	1000	2.80	4.14	3.61	2.80	2.80	2.80
19	KKNPP (Kudankulam Nuclear Power Plant) Unit-II	1000	46.10	46.10	46.10	46.10	46.10	46.10
20	NVVNL Bundled Power(Coal)	25650	186.83	186.83	186.83	186.83	186.83	186.83
21	NSM Bundled Phase -II	45.81	42.83	42.83	42.83	42.83	42.83	42.83
	Total CGS (B):	45339.81	3630.41	3674.13	3655.29	3630.41	3630.41	3630.41
(C)	IPPs & Gas Projects							
	IPPs							
1	Singareni Thermal Power Plant	1200	1131.00	1131.00	1131.00	1131.00	1131.00	1131.00
2	Atal Bihari Vajpayee thermal Power Plant, Chattisgarh (formerly Marwa Power Plant)	1000	947.5	0.00	0.00	947.5	947.5	947.5
3	Sembcorp Energy India Limited (SEIL) (269.45 MW)	1320	269.45	269.45	269.45	269.45	269.45	269.45
4	Sembcorp Energy India Limited (SEIL) (570 MW)		-	570.00	-	-	-	-
	Total IPPs:	3520	2347.95	1970.45	1400.45	2347.95	2347.95	2347.95
	Gas Projects							
1	Vemagiri	370	193.41	0.00	0.00	193.41	193.41	193.41
2	Kona seema	444.08	231.83	0.00	0.00	0.00	0.00	0.00
	Total Gas projects	814.08	425.24	0.00	0.00	193.41	193.41	193.41
	Total IPP & Gas Projects (C)	4334.08	2773.19	1970.45	1400.45	2541.36	2541.36	2541.36

Sl.No.	Generating Station/Unit/Source	Installed Capacity (MW)	Net Capacity TG Share (MW)	FY 2023-24		FY 2024-25		FY 2025-26
				(Actuals)	Apr-Sep (Actual)	Oct-March (Projected)	Apr-March (Projected)	(Projected)
(D)	Inter-State Hydel Projects							
1	Machkund (TG Share)	84	44.82	0.00	0.00	44.82	44.82	44.82
2	TB.Dam (TG Share)	57.6	30.73	0.00	0.00	30.73	30.73	30.73
	Total Inter-State Hydel (D)	141.6	75.55	0.00	0.00	75.55	75.55	75.55
(E)	NCE Projects							
1	NCE Capacity 132 KV & above	7362.35	7362.35	4462.00	4860.40	6062.34	6062.34	7362.35
2	NCE Capacity 11 KV & 33 KV	1040	1040	1035.00	1035.00	1040.00	1040.00	1040.00
	Total NCE projects (E)	8402.3475	8402.3475	5497.00	5895.40	7102.34	7102.34	8402.35
Total Capacity of TGD/SCOMs (MW) (A+B+C+D+E)		68702.10	24686.91	17181.75	17022.80	22397.07	22397.07	24455.08
Open Access		129.75	129.75	113.50	113.00	112.50	113.00	129.75
TRANSCO CONTRACT W/O OA		67662.10	23646.91	16146.75	15987.80	21357.07	21357.07	23415.08
TRANSCO TOTAL Contracts		67791.85	23776.66	16260.25	16100.80	21469.57	21470.07	23544.83

Note:

- (i) Long Term PPA with TGGENCO project RTS-B (62.5 MW) was expired on 03.06.2024
- (ii) Long Term PPA with Sembcorp Energy India Limited (SEIL) (570 MW) was expired on 29.03.2024
- (iii) Long Term Gas PPAs with GVK Extension (118.56 MW) & GVK Gouthami (250.05) were expired on 13.04.2024 & 14.06.2024 respectively

ARR- filings For FY 2025-26 - 132KV and above NCE Projects

Sl.No	Station/ Source	Installed Capacity in(MW)	Net Capacity telangana State Share in (MW)	Voltage level of evacuation	Year(n-1) (2023-24)	Current Year "n"(2024-25)				Control period FY 2025-26
						April-March	Apr-Sep	Oct-Mar	Apr-Mar	
						Actual	Actual	Estimated	Estimated	
						MW	MW	MW	MW	
1	Solar			>33KV						
	TGSPDCL	4956.62	4956.62		2915	3191.526	4039.47	4039.47	4956.62	
	TGNPDCL	2160.13	2160.13		1301.53	1423.277	1777.27	1777.27	2160.13	
	Total	7116.75	7116.75		4217	4614.803	5816.74	5816.74	7116.75	
2	Biomass									
	TGSPDCL									
	TGNPDCL									
	Total									
3	Bagasse									
	TGSPDCL	15	15	>33KV	15	15	15	15	15	
	TGNPDCL	60.7	60.7		60.7	60.7	60.7	60.7	60.7	
	Total	75.7	75.7		75.7	75.7	75.7	75.7	75.7	
4	IW									
	TGSPDCL	7.5	7.5	>33KV	7.5	7.5	7.5	7.5	7.5	
	TGNPDCL	NIL	NIL		NIL	NIL	NIL	NIL	NIL	
	Total	7.5	7.5		7.5	7.5	7.5	7.5	7.5	
5	Minihydel									
	TGSPDCL									
	TGNPDCL									
	Total									
6	MSW									
	TGSPDCL	34.3	34.3	>33KV	34.3	34.3	34.3	34.3	34.3	
	TGNPDCL	NIL	NIL		NIL	NIL	NIL	NIL	NIL	
	Total	34.3	34.3		34.3	34.3	34.3	34.3	34.3	
7	Wind									
	TGSPDCL	128.1	128.1	>33KV	128.1	128.1	128.1	128.1	128.1	
	TGNPDCL	NIL	NIL		NIL	NIL	NIL	NIL	NIL	
	Total	128.1	128.1		128.1	128.1	128.1	128.1	128.1	
	Total(1+2+3+4+5+6+7)	7362.35	7362.35		4462	4860.403	6062.34	6062.34	7362.35	

NCE Contracted Capacity of TGSPDCL 132 KV & Above for Transmission Business & TGSCLDC Activity filings For FY 2025-26

Sl No	Station/ Source	Installed Capacity In(MW)	Net Capacity telangana State Share in (MW)	Voltage level of evacuation	Year(n-1) (2023-24)	Current Year "n"(2024-25)				Control period	
						April-March Actual MW	Oct-Mar Estimated MW	Apr-Mar Estimated MW	n-1 Projected MW	n-1 Projected MW	
Solar											
Solar Bidding 2013											
1	M/s Polepally Solar Parks Private Limited	25	25	132KV	25	25	25	25	25	25	25
2	M/s Sunborne Energy Andhra Private Limited	35	35	132KV	35	35	25	25	25	25	25
Sub-total (Sl.No.1-2)		60	60		60	60	60	60	60	60	60
Solar Bidding 2014											
3	Dayakara Solar Power	30	30	132KV	30	30	30	30	30	30	30
4	Grahati Solar Energy	50	50	132KV	50	50	50	50	50	50	50
5	Greenko Solar (Medak) formerly Karvy Solar Power Limited (SPV of M/s Karvy Consultants Limited)	20	20	132KV	20	20	20	20	20	20	20
6	Renew Akshay (Sadaashvpet)	24	24	132KV	24	24	24	24	24	24	24
7	Renew Akshay Urja (MBNR)	100	100	220KV	100	100	100	100	100	100	100
8	Winsol Solar Fields (Karoor)	15	15	132KV	15	15	15	15	15	15	15
9	M/s Cleansolar Renewable Energy Private Limited	30	30	132KV	30	30	30	30	30	30	30
10	Suprasanna Solaire Energy Pvt. Ltd	20	20	132KV	20	20	20	20	20	20	20
11	M/s Winsol Solar Fields (Polepally) Private Limited (SPV of First Solar Power India Private Limited)	50	50	132KV	50	50	50	50	50	50	50
Sub-total (Sl.No.3-11)		339	339		339	339	339	339	339	339	339
Solar Bidding 2015											
12	Dinker Technologies Pvt Ltd	24.94	24.94	132KV	25	24.94	24.94	24.94	24.94	24.94	24.94
13	Vena energy solar India (Sadaashvpet)	50	50	132KV	50	50	50	50	50	50	50
14	Vena energy solar India (Minpur)	50	50	132KV	50	50	50	50	50	50	50
15	M/s SE Solar Ltd	100	100	220KV	100	100	100	100	100	100	100
16	Prathamesh Solarfarms Ltd	50	50	132KV	50	50	50	50	50	50	50
17	SurajKiran Renewable Resources P Ltd	50	50	220KV	50	50	50	50	50	50	50
18	Surajkiran Solar Technologies P Ltd	50	50	132KV	50	50	50	50	50	50	50
19	Transform Sun Energy Pvt Ltd	100	100	220KV	100	100	100	100	100	100	100
20	M/s Mytrah Energy (I) Ltd	50	50	132KV	50	50	50	50	50	50	50
21	Zuka Power Pvt Ltd	48	48	132KV	48	48	48	48	48	48	48
22	Clean Solar Power (Chitradurga) Pvt Ltd	40	40	132KV	40	40	40	40	40	40	40
23	Acme Medak Solar Energy Pvt Ltd	45	45	132KV	45	45	45	45	45	45	45
24	Acme PV Powertech Pvt Ltd	50	50	132KV	50	50	50	50	50	50	50
25	ACME Solar Power	50	50	132KV	50	50	50	50	50	50	50
26	M/s Renew Saur Shakti Private Limited	65	65	132KV	65	65	65	65	65	65	65
27	M/s Mytrah Agniya Power Private Limited	50	50	132KV	50	50	50	50	50	50	50
Sub-total (Sl.No.12-27)		872.94	872.94		873	872.94	872.94	872.94	872.94	872.94	872.94
NTPC Bundled Scheme under INNSM Ph-II (400 MW)											
28	M/s Parampijya Solar Energy Pvt. Ltd., (DCR)	35.28	35.28		35.28	35.28	35.28	35.28	35.28	35.28	35.28
29	M/s Parampijya Solar Energy Pvt. Ltd., (OCR)	35.28	35.28		35.28	35.28	35.28	35.28	35.28	35.28	35.28
30	M/s Renew Wind Energy (TN2) Private Limited (Renew Solar Power Pvt. Ltd.,)	70.55	70.55		70.55	70.55	70.55	70.55	70.55	70.55	70.55
31	M/s Azure Power India Pvt. Ltd.,	70.55	70.55		70.55	70.55	70.55	70.55	70.55	70.55	70.55
32	M/s Achintya , Grinbrit & suvarchas	28.22	28.22		28.22	28.22	28.22	28.22	28.22	28.22	28.22
Sub-total (Sl.No.28-32)		239.88	239.88		239.88	239.88	239.88	239.88	239.88	239.88	239.88
Intra state Sub-total (Sl.No 1-31)		1511.82	1511.82		1512	1511.82	1511.82	1511.82	1511.82	1511.82	1511.82
ISTS Projects											
32	NTPC Bundled INNSM Scheme phase-I	32.32	32.32	ISTS	32.32	32.32	32.32	32.32	32.32	32.32	32.32
Sub-total (Sl.No.32)		32.32	32.32		32.32	32.32	32.32	32.32	32.32	32.32	32.32
SECI 400MW under ISTS Tranche VI											
33	M/s Aavaada Sustainable RuProject Private Limited 140MW	98.77	98.77	ISTS	98.77	98.77	98.77	98.77	98.77	98.77	98.77
34	M/s Masaya Solar Energy Private Limited 130MW	91.715	91.715	ISTS	91.715	91.715	91.715	91.715	91.715	91.715	91.715
35	M/s Renew Solar Urja Private Limited 130 MW	91.715	91.715	ISTS	91.715	91.715	91.715	91.715	91.715	91.715	91.715
Sub-total (Sl.No.33-35)		282.2	282.2		282.2	282.2	282.2	282.2	282.2	282.2	282.2
NTPC 1692 MW Solar (under CPSU Scheme Phase-I, Tranche-I&II)											
36	NTPC CPSU Ph-II Tr I & II (150 MW)	105.825	105.825	ISTS	105.825	105.825	105.825	105.825	105.825	105.825	105.825
37	NTPC CPSU Ph-II Tr I & II (250 MW)	176.37	176.37	ISTS	176.37	176.37	176.37	176.37	176.37	176.37	176.37
38	NTPC CPSU Ph-II Tr I & II (300 MW)	211.65	211.65	ISTS	211.65	211.65	211.65	211.65	211.65	211.65	211.65
39	NTPC CPSU Ph-II Tr I & II (300 MW)	211.65	211.65	ISTS	211.65	211.65	211.65	211.65	211.65	211.65	211.65
40	NTPC CPSU Ph-II Tr I & II (296 MW)	208.82	208.82	ISTS	208.82	208.82	208.82	208.82	208.82	208.82	208.82
41	NTPC CPSU Ph-II Tr I & II (90 MW)	63.495	63.495	ISTS	63.495	63.495	63.495	63.495	63.495	63.495	63.495
42	NTPC CPSU Ph-II Tr I & II (20 MW)	14.11	14.11	ISTS	14.11	14.11	14.11	14.11	14.11	14.11	14.11
43	NTPC CPSU Ph-II Tr I & II (56 MW)	39.508	39.508	ISTS	39.508	39.508	39.508	39.508	39.508	39.508	39.508
44	NTPC CPSU Ph-II Tr I & II (230 MW)	162.265	162.265	ISTS	162.265	162.265	162.265	162.265	162.265	162.265	162.265
Sub-total (Sl.No.36-44)		1193.693	1193.693		1087.868	1157.553	1193.693	1193.693	1193.693	1193.693	1193.693

SECI 1000MW under ISTS Tranche-IX

45	M/s Ayana Renewable Power Three Private Limited	211.65	211.65	ISTS	—	137.093	211.65	211.65	211.65
46	M/s Eden Renewable Bercy Private Limited	211.65	211.65	ISTS	—	—	—	—	211.65
47	M/s IB Vogt Solar Seven Private Limited	211.65	211.65	ISTS	—	—	—	—	211.65
48	M/s AMP Energy Green Five Private Limited	70.55	70.55	ISTS	—	70.55	70.55	70.55	70.55
Sub-total (Sl.No.45-48)		705.5	705.5			207.643	282.2	282.2	705.5
NTPC 1045MW Under CPSU Scheme Phase-I&Tranche-III									
49	Nokh-I, Nokh Solar Park, Pokran, Jaisalmer, Rajasthan	172.8475	172.8475	ISTS	—	—	172.8475	172.8475	172.8475
50	Nokh-II, Nokh Solar Park, Pokran, Jaisalmer, Rajasthan	172.8475	172.8475	ISTS	—	—	172.8475	172.8475	172.8475
51	Nokh-III, Nokh Solar Park, Pokran, Jaisalmer, Rajasthan	172.8475	172.8475	ISTS	—	—	172.8475	172.8475	172.8475
52	NHPC Solar PV Station, Village Khavda, Taluka-Bhuj, Kutch District, Gujarat	218.705	218.705	ISTS	—	—	218.705	218.705	218.705
Sub-total (Sl.No.49-52)		737.2475	737.2475				737.2475	737.2475	737.2475
Under CPSU Scheme Phase-I&Tranche-III									
53	NHPC Solar PV Station, Village Khavda, Taluka-Bhuj, Kutch District, Gujarat	352.75	352.75	ISTS	—	—	—	—	352.75
54	NLC India Solar PV station, Kutch, Gujarat	141.1	141.1	ISTS	—	—	—	—	141.1
Sub-total (Sl.No.53-54)		493.85	493.85						493.85
Inter state Solar (Sl.No.55-54)		3444.8105	3444.8105		1402.388	1679.716	2527.6605	2527.6605	3444.8105
Total Solar (Sl.No.1-54)		4956.6305	4956.6305		291.4	3191.536	4039.4805	4039.4805	4956.6305

Non-Solar Projects

Biomass, Mini Hydel-nill									
Bagasse									
55	M/s Ganpati Sugar Industries Ltd.	15	15	132KV	15	15	15	15	15
Sub-total (Sl.No.55)		15	15		15	15	15	15	15
Industrial Waste									
56	M/s Shrivana Power Pvt Ltd	7.5	7.5	132KV	7.5	7.5	7.5	7.5	7.5
Sub-total (Sl.No.56)		7.5	7.5		7.5	7.5	7.5	7.5	7.5
MSW									
57	M/s Hyderabad MSW Energy Solutions Private Limited	19.8	19.8	132KV	19.8	19.8	19.8	19.8	19.8
58	M/s Dundigal Waste 2 Energy Private Limited	14.5	14.5	132KV	14.5	14.5	14.5	14.5	14.5
Sub-total (Sl.No. 57-58)		34.3	34.3		34.3	34.3	34.3	34.3	34.3
Wind									
59	M/s Mytrah Vayu (Godavari) Private Limited	100.8	100.8		100.8	100.8	100.8	100.8	100.8
60	M/s Clean Wind Power (Anantapur) Private Limited	27.3	27.3		27.3	27.3	27.3	27.3	27.3
Sub-total (Sl.No. 59-60)		128.1	128.1		128.1	128.1	128.1	128.1	128.1
Non-Solar Projects Sub-total (Sl.No.55-60)		184.9	184.9		184.9	184.9	184.9	184.9	184.9
Total Solar +Non-Solar (Sl.No.1-60)		5143.5305	5143.5305		3099	3376.436	4224.3805	4224.3805	5143.5305

NCE Contracted Capacity of TGNPDCL 132 KV & Above for Transmission Business & TGSLDC Activity filings For FY 2025-26

Sl.No	Station/ Source	Installed Capacity In(MW)	Net Capacity telangana State Share In (MW)	Voltage level of evacuation	Year(n-1) (2023-24)	Current Year "n" (2024-25)				Control period	
						April-March Actual MW	Apr-Sep Actual MW	Oct-Mar Estimated MW	Apr-Mar Estimated MW	n-1 Projected MW	
Solar bidding 2014											
1	M/s Ujvalatejas Solaire Urja Pvt Ltd	20	20	132KV	20	20	20	20	20	20	
Sub-total (Sl.No.1)											
		20	20	132KV	20	20	20	20	20	20	
Solar bidding 2015											
2	M/s Sunshakti Solar Power Projects Private Limited (Project Company of Sky Power Southeast Asia III Investments Limited)	50	50	132KV	50	50	50	50	50	50	
3	M/s Renew Solar Energy (Telangana) Private Limited	143	143	220KV	143	143	143	143	143	143	
4	M/s Mytrah Engery (I) Ltd (Kamareddy SS) (50MW)	50	50	132KV	50	50	50	50	50	50	
5	M/s Suryoday Energy Private Limited (Project Company of M/s Shapoorji Pallonji Energy (Gujarat) Private Limited	34	34	132KV	34	34	34	34	34	34	
6	M/s ACME Nizamabad Solar Energy Private Limited (Project Company of Acme Fazilka Power Private Limited)	50	50	132KV	50	50	50	50	50	50	
7	M/s Renew Mega Solar Power Private Limited	48	48	132KV	48	48	48	48	48	48	
8	M/s Divine Solren Private Limited (Project Company of Mahindra Susten Private Limited)	50	50	132KV	50	50	50	50	50	50	
9	M/s ACME Ranga Reddy Solar Power Private Limited	30	30	132KV	30	30	30	30	30	30	
10	M/s Renew Saur Shakti Private Limited (Mulkanoor SS)	30	30	132KV	30	30	30	30	30	30	
11	M/s Sunworld Solar Power Private Limited (Project company of Acme Fazilka Power Private Limited)	30	30	132KV	30	30	30	30	30	30	
12	M/s Neo Solren Private Limited (Project Company of Mahindra Susten Private Limited)	42	42	132KV	42	42	42	42	42	42	
13	M/s Jilesh Power Private Limited (Sun Edison)	45	45	132KV	45	45	45	45	45	45	
Sub-total (Sl.No.2-13)											
		602	602		602	602	602	602	602	602	
Under NTPC Bundled power JNNSM Phase-II											
14	M/s Parampuiya Solar Energy Pvt. Ltd., (DCR)	14.73	14.73	132KV	14.73	14.73	14.73	14.73	14.73	14.73	
15	M/s Parampuiya Solar Energy Pvt. Ltd., (OCR)	14.73	14.73	132KV	14.73	14.73	14.73	14.73	14.73	14.73	
16	M/s Renew Wind Energy (TN2) Private Limited (Renew Solar Power Pvt. Ltd.,)	29.45	29.45	220KV	29.45	29.45	29.45	29.45	29.45	29.45	
17	M/s Azure Power India Pvt. Ltd.,	29.45	29.45	220KV	29.45	29.45	29.45	29.45	29.45	29.45	
19	M/s Achintya , Grinibrit & suvartchas	11.78	11.78	132KV	11.78	11.78	11.78	11.78	11.78	11.78	
Sub-total (Sl.No.14-19)											
		100.14	100.14		100.14	100.14	100.14	100.14	100.14	100.14	
Intra state Sub-total (Sl.No.1 to 19)											
		722.14	722.14		722.14	722.14	722.14	722.14	722.14	722.14	
ISTS Projects											
20	NTPC Bundled Scheme under JNNSM Ph-II	13.49	13.49	ISTS	13.49	13.49	13.49	13.49	13.49	13.49	
Sub-total (Sl.No.20)											
		13.49	13.49		13.49	13.49	13.49	13.49	13.49	13.49	
SECI 400MW under ISTS Tranche VI											
21	M/s Avaada Sustainable R/Project Private Limited	41.23	41.23	ISTS	41.23	41.23	41.23	41.23	41.23	41.23	
22	M/s Masaya Solar Energy Private Limited	38.285	38.285	ISTS	38.285	38.285	38.285	38.285	38.285	38.285	
23	M/s Renew Solar Urja Private Limited	38.285	38.285	ISTS	38.285	38.285	38.285	38.285	38.285	38.285	
Sub-total (Sl.No.21-23)											
		117.8	117.8		117.8	117.8	117.8	117.8	117.8	117.8	
NTPC 1692 MW Solar (Under CPSU Scheme Phase-I, Tranche-I&II)											
24	NTPC Solar PV Station, Devikot, Jaisalmer, Rajasthan	44.17	44.17	ISTS	44.17	44.17	44.17	44.17	44.17	44.17	
25	NTPC Solar PV Station Kolayet, Bikaner, Rajasthan	73.62	73.62	ISTS	73.62	73.62	73.62	73.62	73.62	73.62	
26	NTPC Solar PV Station Shambu-ki-burj, Bikaner, Rajasthan	88.35	88.35	ISTS	44.175	73.26	88.35	88.35	88.35	88.35	
27	NTPC Solar PV Station Nokhra, Bikaner, Rajasthan	88.35	88.35	ISTS	88.35	88.35	88.35	88.35	88.35	88.35	
28	NTPC Solar PV Station Fatehgarh, Jaisalmer, Rajasthan	87.17	87.17	ISTS	87.17	87.17	87.17	87.17	87.17	87.17	
29	NTPC Solar PV Station CPSU Ph-II Tr I & II (90 MW)	26.505	26.505	ISTS	26.505	26.505	26.505	26.505	26.505	26.505	
30	Devikot Village, Jaisalmer, Rajasthan	5.89	5.89	ISTS	5.89	5.89	5.89	5.89	5.89	5.89	
30	NTPC Solar PV Station Gandhar, Bharuch (D), Gujarat	16.492	16.492	ISTS	10.49	16.492	16.492	16.492	16.492	16.492	
31	NTPC Solar PV Station CPSU Ph-II Tr I & II (56 MW)	67.73	67.73	ISTS	67.73	67.73	67.73	67.73	67.73	67.73	
32	Kawas, Surat (D), Gujarat	67.73	67.73	ISTS	67.73	67.73	67.73	67.73	67.73	67.73	
32	NTPC Solar PV Station Navalakapatti, Ettayapuram (T), Tuticorin, Tamil Nadu	67.73	67.73	ISTS	67.73	67.73	67.73	67.73	67.73	67.73	
Sub-total (Sl.No.24-32)											
		498.277	498.277		448.1	483.187	498.277	498.277	498.277	498.277	
SECI 1000MW under ISTS Tranche-IX											

31	M/s Ayana Renewable Power Three Private Limited	88.35	88.35	88.35	ISTS	—	57.22	88.35	88.35	88.35
32	M/s Eden Renewable Bercy Private Limited	88.35	88.35	88.35	ISTS	—	—	—	—	88.35
33	M/s IB Vogt Solar Seven Private Limited	88.35	88.35	88.35	ISTS	—	—	—	—	88.35
34	M/s AMP Energy Green Five Private Limited	29.45	29.45	29.45	ISTS	—	29.45	29.45	29.45	29.45
Sub-total (Sl.No.31-34)		294.5	294.5	294.5			86.67	117.8	117.8	294.5
NTPC 1045MW Under CPSU Scheme Phase-II&Tranche-III)										
35	Nokh-I, Nokh Solar Park, Pokran, Jaisalmer, Rajasthan	72.16	72.16	72.16	ISTS	—	—	72.16	72.16	72.16
36	Nokh-II, Nokh Solar Park, Pokran, Jaisalmer, Rajasthan	72.16	72.16	72.16	ISTS	—	—	72.16	72.16	72.16
37	Nokh-III, Nokh Solar Park, Pokran, Jaisalmer, Rajasthan	72.16	72.16	72.16	ISTS	—	—	72.16	72.16	72.16
38	NTPC REL Khavda Solar PV Station, Kutch, Gujarat	91.3	91.3	91.3	ISTS	—	—	91.3	91.3	91.30
Sub-total (Sl.No.35 - 38)		307.78	307.78	307.78			—	307.78	307.78	307.78
Under CPSU Scheme Phase-II&Tranche-III										
39	NHPC Solar PV Station, Village Khavda, Taluka-Bhuj, Kutch District, Gujarat	147.25	147.25	147.25	ISTS	—	—	—	—	147.25
40	NLCIndia Solar PV station, Kutch, Gujarat	58.9	58.9	58.9	ISTS	—	—	—	—	58.9
Sub-total (Sl.No.39-40)		206.15	206.15	206.15						206.15
Solar (Intra+Inter state)(Sl.No 1-40)		2160.137	2160.137	2160.137		1301.53	1423.287	1777.287	1777.287	2160.14
Non-Solar Projects										
Industrial Waste,Mini Hydel,Biomass,Wind& MSW -NIL										
Bagasse										
41	M/s Gayatri Sugars Ltd. (formerly GSR Sugars)	16.5	16.5	16.5	132KV	16.5	16.5	16.5	16.5	16.5
42	M/s Madhucon Industries Ltd.,	24.2	24.2	24.2	132KV	24.2	24.2	24.2	24.2	24.2
43	M/s Nizam Deccan Sugars Ltd.** (not in operation)	20	20	20	132KV	20	20	20	20	20
Sub-total (Sl.No.41-43)		60.7	60.7	60.7		60.7	60.7	60.7	60.7	60.7
Non-Solar Projects total		60.7	60.7	60.7		60.7	60.7	60.7	60.7	60.7
Total (Solar+ Non-Solar)		2220.837	2220.837	2220.837		1362.23	1483.987	1837.987	1837.987	2220.84

TRANSMISSION CORPORATION OF TELANGANA LIMITED
Annexure to Form 15 : Transmission Contracted Capacity for Annual Petition 2025-26
INTRA STATE LONG TERM OPEN ACCESS CONTRACTED CAPACITIES FOR TRANSMISSION ARR

Sl. No.	Details	Installed Capacity (MW)	Net Capacity TG Share	FY 2023-24	FY 2024-25			FY 2025-26
				Apr-March (Actual)	Apr-Sep (Actual)	Oct-March (Projected)	Apr-March (Projected)	(Projected)
1	M/s. Valens Molecules Pvt. Ltd., Nizamabad District	1.00	1.00	1.00	0.50		0.50	1.00
2	M/s Bharat Electronics Limited, Sangareddy District	16.25	16.25					16.25
3	M/s Mishra Dhatu Nigam Ltd., Hyderabad District	4.00	4.00	4.00	4.00	4.00	4.00	4.00
4	M/s. Singareni Collieries Company Limited, Manuguru, Bhadradi Kothagudem	30.00	30.00	30.00	30.00	30.00	30.00	30.00
5	M/s. Singareni Collieries Company Limited, Yellandu, Bhadradi Kothagudem	39.00	39.00	39.00	39.00	39.00	39.00	39.00
6	M/s. Hyderabad Institute of Oncology Private Limited, Khammam District	1.00	1.00	1.00	1.00	1.00	1.00	1.00
7	M/s. Bharat Heavy Electricals Limited, Medak District	1.50	1.50	1.50	1.50	1.50	1.50	1.50
8	M/s. Singareni Collieries Company Limited, Kothagudem, Bhadradi Kothagudem	37.00	37.00	37.00	37.00	37.00	37.00	37.00
TOTAL		129.75	129.75	113.5	113	112.5	113	129.75

TRANSMISSION CORPORATION OF TELANGANA LIMITED
<Name of the Transmission Scheme>
Form 16.1 - Project Schedule

Particulars	Scheduled Commercial Operation Date	Actual Commercial Operation Date	Reasons for Delay, if any	Liquidated Damages recoverable as per provisions of Contract*

Note: Copies of Contract to be submitted

TRANSMISSION CORPORATION OF TELANGANA LIMITED
<Name of the Transmission Scheme>
Form 16.2 - Break-up of Capital Cost

(Rs. In Crores)

S. No.	Break Down	Break up of Capital Cost							Variation	Reasons for Variation
		Ordering Cost				As on COD				
		Contractor s	Foreign Currency Component (Specify Currency)	Domestic Component	Total Cost	Foreign Currency Component (Specify Currency)	Domestic Component	Total Cost		
A	TRANSMISSION LINE									
1.0	Preliminary works									
1.1	Design & Engineering									
1.2	Priliminary investigation,Right of way, forest clearance, PTCC, general civil works etc.									
1.3	Total Preliminary works									
2.0	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									
	Total Transmission Lines material									
2.8	Spares									
2.9	Erection, Stringing & Civil works including foundation									
3.0	Taxes and Duties									
3.1	Custom Duty									
3.2	Other Taxes & Duties									
	Total Taxes & Duties									
	Total -Transmission lines									
B.	SUBSTATIONS									
4.0	Preliminary works & land									
4.1	Design & Engineering									
4.2	Land									
4.3	Site preparation									
	Total Preliminary works & land									

TRANSMISSION CORPORATION OF TELANGANA LIMITED
<Name of the Transmission Scheme>
Form 16.3 : Break up of Construction / Supply / Services / Package

S. No.	Name / No. of Construction / Supply / Service Package	Scope of works (in line with head of cost break-ups as applicable)	Whether awarded through ICB/DCB/Departmentally	No. of bids recd.	Date of Award	Date of Start of Work	Scheduled date of completion of work	Actual date of completion of work	Value of Award in Rs. Crore	Firm or with Escalation in prices	Total incl. Price Variation	Actual expenditure till the completion or upto COD whichever is earlier (Rs. Crore)

TRANSMISSION CORPORATION OF TELANGANA LIMITED
<Name of the Transmission Scheme>
Form 16.4 : Financial Package

Project Cost as on COD (Rs Crore): _____
Date of Commercial Operation of the Station: _____

	Original Financial Package			Financial Package as on COD of Unit- Name 1			Financial Package as on COD of Unit- Name 2			Financial Package as on COD of Unit-...			Financial Package as on COD (Consolidated)		
	Currency	Amount in foreign currency (for foreign loans)	Equivalent Amount in Rs Crore	Currency	Amount in foreign currency (for foreign loans)	Equivalent Amount in Rs Crore	Currency	Amount in foreign currency (for foreign loans)	Equivalent Amount in Rs Crore	Currency	Amount in foreign currency (for foreign loans)	Equivalent Amount in Rs Crore	Currency	Amount in foreign currency (for foreign loans)	Equivalent Amount in Rs Crore
Loan															
Component 1															
Component 1															
Total Loan															
Equity-															
Foreign															
Domestic															
Internal Accruals															
Total Equity															
Undischarged Liabilities															
Debt : Equity Ratio (Excluding Undischarged Liabilities)															

Note : Please submit copy of sanction letters/Loan Agreements for each loan

TRANSMISSION CORPORATION OF TELANGANA LIMITED

<Name of the Transmission Scheme>

Form 16.5 : Details of Loans

Particulars	Loan Source
Source of Loan/Name of Agency	
Currency	
Amount of Loan sanctioned (Rs. Crore)	
Amount of Gross Loan drawn upto COD (Rs. Crore)	
Interest Type ¹	
Fixed Interest Rate, if applicable	
Base Rate, if Floating Interest ²	
Margin, if Floating Interest ³	
Are there any Caps/Floor ⁴	
If above is yes,specify caps/floor	
Moratorium Period ⁵	
Moratorium effective from	
Repayment Period ⁶	
Repayment effective from	
Repayment Frequency ⁷	
Repayment Instalment ^{8,9,10}	
Base Exchange Rate ¹¹	

1 Interest type means whether the interest is fixed or floating.

2 Base rate means the base as PLR, LIBOR etc. over which the margin is to be added. Applicable base rate on different dates from the date of drawal may also be enclosed.

3 Margin means the points over and above the floating rate.

4 At times caps/floor are put at which the floating rates are frozen. If such a condition exists, specify the limits.

5 Moratorium period refers to the period during which loan repayment is not required.

6 Repayment period means the repayment of loan such as 10 years, 15 years etc.

7 Repayment frequency means the interval at which the debt servicing is to be done such as monthly, quarterly, half yearly, etc

8 Where there is more than one drawal/repayment for a loan, the date & amount of each drawal/repayment may also be given seperately

9 If the repayment instalment amount and repayment date can not be worked out from the data furnished above, the repayment schedule to be furnished seperately.

10 In case of Foreign loan,date of each drawal & repayment alongwith exchange rate at that date may be given.

11 Base exchange rate means the exchange rate prevailing as on COD

TRANSMISSION CORPORATION OF TELANGANA LIMITED
<Name of the Transmission Scheme>
Form 16.6: Phasing of Expenditure, Debt and Equity upto COD

Zero Date:
Scheduled COD:
Actual COD:

(Rs. in Crores)

Financial Year	Quarter	As per Original Schedule/DPR						Actual as executed					
		Capital expenditure	Financing of capital expenditure				Capital expenditure	Financing of capital expenditure					
			Debt	Equity	Internal Resources	Any other (please specify)		Total	Debt	Equity	Internal Resources	Any other (please specify)	Total
FY _____	Q1												
	Q2												
	Q3												
	Q4												
	Sub-total												
FY _____	Q1												
	Q2												
	Q3												
	Q4												
	Sub-total												
												
												
												
Total													

- Note:
- 1 Reasons for variation in quarter wise phasing of expenditure as per Original Schedule and actual as executed to be submitted.
 - 2 The infusion of external Equity to be substantiated with documentary evidences.
 - 3 The infusion of internal resources to be substantiated with availability of free reserves as per the audited accouts for the respective year(s).

TRANSMISSION CORPORATION OF TELANGANA LIMITED
<Name of the Transmission Scheme>
Form 16.7: Interest During Construction and Finance Charges upto COD

Zero Date:
Scheduled COD:
Actual COD:

[illegible]

Summary of year wise Interest During Construction and Finance Charges

S. No.	Particulars	FY _____	FY _____	FY _____	FY _____	FY _____
1	Opening Balance of Loan					
2	Repayment					
3	Closing Balance of Loan					
4	Interest					
5	Finance charges					
6	Total Interest & Finance charges					

Note 1 The details furnished in this Form shall be duly certified by the Auditor

Form 1.1 c - Capital Work in Progress
This form pertains to the Capital Work in Progress

Particulars	FY 2024-25 (Base Year)	FY 2025-26
Opening balance of CWIP	4223.33	3801.51
Add: New Investment	1698.63	4397.24
Add: Overhead & IDC Loaded to CapEx		
(i) Interest During Construction	281.67	425.83
(ii) O&M Expenses Capitalised	199.13	209.48
Total (i)+(ii) :	480.80	635.31
Total Capital Expenditure during year incl. IDC & O&M	2179.43	5032.55
Less : Investment Capitalised (incl O&M & IDC)	2601.25	7120.66
Closing balance of CWIP (incl O&M & IDC)	3801.51	1713.40

Note: Opening CWIP is excluding Provision of Rs.11.51 Crs.

	2023-24	2024-25	2025-26
Opening Balance CWIP			
Lift Irrigation Schemes	756.80	1,010.12	962.40
PRLIS 400KV SS	1,155.16	948.65	-
PRLIS System Improvement Works - Funded by TSTRANSCO	-	-	-
400KV Schemes	1,119.82	1,268.11	1,102.44
400KV Schemes - LIS Works	58.69	12.77	-0.00
400KV Schemes - DC Works	-	-	-
220KV & 132kV Schemes	746.32	716.69	1,506.95
220KV & 132kV Schemes - DC works	156.80	162.86	22.37
Renovation, Modernation & Improvement Schemes	-	-	-
Renovation, Modernation & Improvement Schemes - DC works	-	-	-
Telecom Schemes - TSITranco works	36.29	104.14	-
Telecom Schemes - DC Works	-	-	-
Civil	-	-	-
TSTRANSCO Schemes Total CWIP Opening Balances	1,902.43	2,088.94	2,609.39
DC Works Total CWIP Opening Balances	2,127.45	2,134.40	984.77
Total Opening CWIP Balances	4029.88	4223.33	3594.15
Capital Investment	2023-24	2024-25	2025-26
Lift Irrigation Schemes	374.90	100.87	557.00
PRLIS 400KV SS	80.61	98.74	300.00
PRLIS System Improvement Works - Funded by TSTRANSCO	-	-	-
400KV Schemes	401.44	246.60	535.63
400KV Schemes - LIS Works	-0.57	5.82	97.62
400KV Schemes - DC Works	0.43	-	130.80
220KV & 132kV Schemes	408.10	1,115.30	2,754.70
220KV & 132kV Schemes - DC works	128.37	37.59	14.09
Renovation, Modernation & Improvement Schemes	-	-	-
Renovation, Modernation & Improvement Schemes - DC works	-	-	-
Telecom Schemes - TSITranco works	67.85	93.71	7.40
Telecom Schemes - DC Works	-	-	-
Civil	-	-	-
TSTRANSCO Schemes Capital Investment During the Year Total	877.39	1,455.61	3,297.73
DC Works Capital Investment During the Year Total	583.74	243.02	1,099.51
Capital Investment During the Year Total	1461.13	1698.63	4397.24
Capitalisation	2023-24	2024-25	2025-26
Lift Irrigation Schemes	121.58	148.59	1,384.40
PRLIS 400KV SS	287.12	1,047.39	200.00
PRLIS System Improvement Works - Funded by TSTRANSCO	-	-	-
400KV Schemes	253.15	412.27	1,324.05
400KV Schemes - LIS Works	45.35	18.59	-
400KV Schemes - DC Works	0.43	-	-
220KV & 132kV Schemes	437.73	325.04	3,446.70
220KV & 132kV Schemes - DC works	122.31	178.08	36.46
Renovation, Modernation & Improvement Schemes	-	-	-
Renovation, Modernation & Improvement Schemes - DC works	-	-	-
Telecom Schemes - TSITranco works	-	197.85	7.40
Telecom Schemes - DC Works	-	-	-
Civil	-	-	-
TSTRANSCO Schemes Capitalisation During the Year Total	690.88	935.16	4,778.15
DC Works Capitalisation During the Year Total	576.79	1,392.65	1,620.86
Total Capitalisation During the year	1267.68	2327.81	6399.01
Closing CWIP Balances	2023-24	2024-25	2025-26
Lift Irrigation Schemes	1,010.12	962.40	135.00
PRLIS 400KV SS	948.65	-	100.00
PRLIS System Improvement Works - Funded by TSTRANSCO	-	-	-
400KV Schemes	1,268.11	1,102.44	314.02
400KV Schemes - LIS Works	12.77	-0.00	97.62
400KV Schemes - DC Works	-	-	130.80
220KV & 132kV Schemes	716.69	1,506.95	814.95
220KV & 132kV Schemes - DC works	162.86	22.37	-
Renovation, Modernation & Improvement Schemes	-	-	-
Renovation, Modernation & Improvement Schemes - DC works	-	-	-
Telecom Schemes - TSITranco works	104.14	-	-
Telecom Schemes - DC Works	-	-	-
Civil	-	-	-
TSTRANSCO Closing CWIP During the Year Total	2,088.94	2,609.39	1,128.97
DC Works Closing CWIP During the Year Total	2,134.40	984.77	463.42
Total Closing CWIP During the year	4223.33	3594.15	1592.38

Particulars	2023-24	2024-25	2025-26
Capitalisation (Base-year is incl of IDC & O&M)	1,267.68	2,327.81	6,399.01
IDC Capitalisation	-	74.31	512.17
O&M Capitalisation	-	199.13	209.48
Total	1,267.68	2,601.25	7,120.66

IDC Calculations

Particulars	2023-24	2024-25	2025-26
Opening CWIP	-	2088.939	2609.389
Investment during the year	0	1455.61	3297.73
Opening IDC	0	-	207.36
IDC amount - During the year addition	-	281.67	425.83
Capitalisation - Before IDC	-	935.16	4,778.15
Proportionate IDC Capitalisation	-	74.31	512.17
Total Capitalisation (incl IDC)	-	1,009.47	5,290.32
Closing IDC	-	207.36	121.01
Interest rate	0%	10%	10%

Details of Year-Wise CWIP and Capitalisation Projections from FY 2023-24 to 2025-26				
Particulars		(Rs. in crores)		
	FY 2023-24 (Base Year)	FY 2024-25	FY 2025-26	
Opening balance of CWIP (Note)	4029.89	4223.33	3801.51	
New Investment during the year				
400Kv Schemes	400.87	252.42	633.25	
220/132 KV Schemes	408.10	1115.30	2754.70	
Renovation and modernisation Improvement Schemes	0.00	0.00	0.00	
Lift Irrigation Schemes	455.51	199.61	857.00	
Deposit Contribution Works	128.71	37.59	144.89	
Telecom	67.85	93.71	7.40	
Total Capital Expenditure Addition During the year (Excl: Expenses capitalisation)	1461.04	1698.63	4397.24	
Add: Capitalisation of Expenses				
(i) Interest During Construction	0.00	281.67	425.83	
(ii) Employee Cost Capitalised	0.00	199.13	209.48	
Total (i)+(ii) :	0.00	480.80	635.31	
Total Capital Expenditure Including IDC and O&M Expenses	1461.04	2179.43	5032.55	
Less : Investment Capitalised during the year	1267.60	2601.25	7120.66	
Closing balance of CWIP During the Year	4223.33	3801.51	1713.39	

Note: Opening CWIP and Closing CWIP of FY 2023-24 is exclusive of Capital Expenditure Provision of Rs. 44.14 Crores and Rs. 11.51 Crores respectively.