

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



**FILING OF ANNUAL TARIFF PETITION FOR FY 2026-27
FOR TRANSMISSION BUSINESS**

November, 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) vide **Annual Tariff petition for FY: 2026-27 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) (ANNUAL TARIFF PETITION) FOR FY: 2026-27 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.

Amil Bhaskar
DEPONENT

VERIFICATION:

I, the above named Deponent solemnly affirm at Hyderabad on this 27th day of November, 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.

Amil Bhaskar
DEPONENT

Solemnly affirmed and signed before me.

[Signature]
COMPANY SECRETARY
TGTRANSCO/HYDERABAD
RAVI KUMAR SULOVA
BCA, FCS
COMPANY SECRETARY, TGTRANSCO
VIDYUT SOUDA, HYDERABAD-500 08

**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 Tariff petition for FY: 2026-27 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: -

1. This filing for Aggregate Revenue Requirement (ARR) and Filing for Proposed Tariff (FPT) for the FY:2026-27 is filed in terms of the TGERC Multi Year Tariff (MYT) 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 11thJuly, 2014 and other Guidelines and Regulations including the regulations pertaining to Transmission, SLDC, Open Access, etc., issued by the Hon'ble Commission till date.
2. While filing the present petition under MYT frame work for filing Aggregate Revenue Requirement and Filings for Proposed Tariff vide Annual Tariff Petition for FY: 2026-27 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.

3. 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 reserves the right to file such additional information and consequently amend / revise this application.

4. TG TRANSCO submits the following in this petition:

(I) True up Analysis of Performance for FY 2024-25 of 5th Multi Year Tariff Control Period as per Regulation 2 of 2023;

(II) Aggregate Revenue Requirement (ARR) for Transmission Business for FY 2026-27 as per Regulation 2 of 2023.

(III) Proposal of Transmission Tariff and Charges for FY 2026-27 as per Regulation 2 of 2023 (Annexed the MYT Regulatory Forms 1 to 15).

5. **True up Analysis for FY 2024-25:**

a) TGTRANSCO has been providing Transmission Service in the State of Telangana and collecting the Transmission Charges from the Customers vide Tariff Order issued for 5th Multi Year Tariff Control Period by Hon'ble TGERC from FY 2024-25 to FY 2028-29 and as per the Annual Tariff Orders issued by Hon'ble TGERC from time to time.

b) In accordance with Regulation No. 2 of 2023, TRANSMISSION CORPORATION OF TELANGANA LIMITED (TGTRANSCO) has filed the True up for corrections for Controllable and Uncontrollable items as well as sharing of gains/losses for the FY 2024-25:

c) The licensee is submitting the following as part of the correction filings for FY 2024-25:

- Statement of variance comparing Tariff Order vs Actuals for each item in the Aggregate Revenue Requirement and reasons for variation.
- Actual Aggregate Revenue Requirement (ARR) for FY 2024-25, computed based on actual investments, actual interest and other costs.
- The Surplus/Deficit for FY 2024-25, arrived based on actual revenue for the respective year.

d) Aggregate Revenue Requirement (ARR) and Surplus for FY:2024-25:

The Total Aggregate Revenue Requirement (ARR) approved by Hon'ble Commission for the year is Rs. 3138.99 Crores, against actual ARR of Rs.2603.65 Crores. Whereas, the company has received Rs.3994.41 Crores by way tariff revenue. Thereby the company has earned a Surplus of Rs.1390.76 Crores during FY.2024-25.

TRANSMISSION BUSINESS TRUE-UP SUMMARY for FY 2024-25

S. No.	Particulars	Units	2024-25		Variation
			Tariff Order Approved	Apr - Mar Actuals	
I	Aggregate Revenue Requirement				
1	Operation & Maintenance Expenses	Rs. Crs.	1,299.52	1,135.02	(164.50)
2	Depreciation	Rs. Crs.	818.35	542.60	(275.75)
3	Interest and finance charges on loan	Rs. Crs.	978.43	781.61	(196.82)
4	Interest on Working Capital	Rs. Crs.	75.09	58.20	(16.89)
5	Return on Equity	Rs. Crs.	432.30	541.41	109.11
6	Less:				-
6.1	Non-Tariff Income	Rs. Crs.	464.70	455.19	(9.51)
7	Less:				-
7.1	Impact of special appropriation for prior period	Rs. Crs.	-		-
	Aggregate Revenue Requirement	Rs. Crs.	3,138.99	2,603.65	(535.34)
II	Revenue Received	Rs. Crs.	3,138.99	3994.41	(855.42)
	Total Surplus (I-II)				(1,390.76)

- It could be seen from the above that, the net expenditure of the Company has been decreased by Rs. 535.34 Crores mainly due to decrease in O&M expenses, depreciation and interest and finance charges. Whereas the total revenue of the company increased by Rs. 855.42 Crores on account of receipt of ISTS – POC charges of Rs. 431.08 crores and excess transmission tariff revenue of Rs. 376.03 Crores collected at old tariff rates as per the interim order of Hon'ble TGERC vide I.A. No. 8 of 2024 dated 15.03.2024 due to delay in filing of MYT petition for FY 2024-25 of 5th MYT control period and balance is on account of open access revenue. In view of the above, the Company has earned a surplus of Rs.1390.76 Crores for FY 2024-25.

e) **Impact of True-Up for prior period:**

- Based on the Audited Annual Accounts of the FY 2024-25, the Pass-through (revenue surplus) of the year by comparing with MYT Tariff Order Approved for the FY 2024-25 is arrived at Rs. 1,390.76 crores.
- Out of the above surplus an amount of Rs.700 crores is now proposed to be adjusted in the proposed Tariff for the FY 2026-27 and the balance is proposed to be adjusted in the next financial year of the Control Period.

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

a) Actual Transmission Loss during FY:2024-25 of 5th Control Period (in %)

Particulars		FY:2023-24	FY:2024-25
Transmission Loss (%)	Approved	2.50	2.48
	Actual	2.30	2.19

b) Actual Transmission Network Availability during FY:2024-25 of 5th Control Period (in %)

Particulars		FY:2023-24	FY:2024-25
Transmission System availability	Approved	99.9	99.9
	Actual	99.9	99.9

6. **Aggregate Revenue Requirement for FY 2026-27:**

TGTRANSCO submits its Aggregate Revenue Requirement (ARR) for Annual Transmission Charges for FY 2026-27 of the 5th Control Period as per the methodology notified by Telangana State Electricity Regulatory Commission Multi Year Tariff Regulation No.2 of 2023 dated 30.12.2023.

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 FY 2026-27 of 5th Control period are as follows:

Form-3: Summary of Capital Expenditure and Capitalisation for FY 2026-27:

(Rs. in Crores)

Sl. no.	Particulars	FY 2025-26			FY 2026-27		
		ATP Order	Apr - Mar	variation	MYT/ Tariff Order	Projected	Variation
1	Opening Capital Works in Progress	2,991.73	3,593.86	602.13	2,251.86	3,301.13	1,049.27
2	Capital Expenditure during the year	1,029.73	1,780.02	750.29	727.27	4,432.61	3,705.34
3	Capitalisation during the year	1,769.60	2,072.75	303.15	1,312.51	4,949.18	3,636.67
4	Closing Capital Works in Progress	2,251.86	3,301.13	1,049.27	1,666.62	2,784.56	1,117.94

Note: Capital Expenditure for FY 2025-26 and FY 2026-27 is inclusive of Interest during construction (IDC) & O&M Expenses capitalized for respective years.

Aggregate Revenue Requirement (ARR) and Surplus for FY:2024-25:

TRANSMISSION BUSINESS TRUE-UP SUMMARY for FY 2026-27

(Rs. in crores)

Particulars	FY 2025-26			FY 2026-27		
	ATP Tariff Order	Apr-Mar	Variation	MYT/Tar iff Order	Projected	Variation
Operation & Maintenance Expenses	1,532.24	1,241.67	-290.57	1,456.47	1,424.57	-31.90
Depreciation	772.54	955.34	182.80	898.11	1,082.33	184.22
Interest and finance charges on loan	835.40	846.57	11.17	970.28	953.84	-16.44
Interest on Working Capital	82.42	55.32	-27.10	85.10	77.51	-7.59
Return on Equity	533.20	597.82	64.62	669.15	711.24	42.09
Less: Non-Tariff Income	306.66	328.48	21.82	580.46	325.27	-255.19
Income from Open Access Charges	-	-	0.00	-	-	0.00
Income from Other Business	-	-	0.00	-	-	0.00
Less: Surplus pass-through	-1,608.23	1,608.23	0.00	-	700.00	700.00
Aggregate Revenue Requirement	1,840.91	1,760.00	-80.91	3,498.65	3,224.21	-274.44

b. Projected Transmission Losses (in %) for the FY 2025-26 & FY 2026-27

Particulars	2025-26 (Proj)	2026-27 (Proj)
Transmission Loss Range	2.46	2.44
	+/- 0.2	+/- 0.2

c. Projected Transmission System Availability (in %) for the FY 2025-26 & FY 2026-27 of 5th Control Period:

Particulars	2025-26 (Proj)	2026-27 (Proj)
Transmission System Availability	99.9	99.9

d. Proposal of Revised Transmission Tariff for FY 2026-27:

The Transmission charges are computed by dividing the net ARR of FY 2026-27 with the total contracted capacity of the year. As such, the following is the Transmission Charges Proposed for FY 2026-27.

Transmission Charges Proposed for FY 2026-27:

Particulars	FY 2026-27
	(n+1)
ARR of Transmission Business (Rs. in crores)	3,224.21
Transmission Contracted Capacity (MW)	22,510.68
Transmission Tariff for Long-term & Medium Term Users (Rs/kW/month)	119.36
Transmission Tariff for Short Term Users (Rs/kW/hr)	0.17

7. The current ARR, FPT for FY 2026-27 of the fifth control period (FY 2024-25 to FY 2028 - 29) being filed vide this for Annual Tariff petition, 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 Annual Tariff Petition for FY:2026-27 on behalf of TGTransco. Accordingly, this Annual Tariff Petition for FY:2026-27 is verified and signed by and backed by the affidavit of Sri D. Krishna Bhaskar, Chairman and Managing Director.

8. In the aforesaid facts and circumstances, the Applicant prays to the Hon'ble Commission for favorable consideration of the following matters:

1. Advance Against Depreciation (AAD):

- Advance against depreciation is a regulatory provision by the Central Electricity Regulatory Commission (CERC) allowing electricity transmission licensees to collect more tariff than the projected depreciation, but only when the loan repayment installments exceed the calculated depreciation, and the shortfall is capped. This mechanism provides an advance against future depreciation by allowing recovery up to a certain limit (often 1/10th or 1/12th of the loan) if loan repayments outpace depreciation, effectively acting as a timing adjustment to ensure sufficient cash flow for loan servicing.

- If the annual loan repayment amount is significantly higher than the annual depreciation allowed, and the difference is within the permitted ceiling, the company can claim an Advance Against Depreciation for that period. This allows recovering more capital early on, ensuring the Company to meet its loan obligations. In later years, when the loan balance decreases, the depreciation recovery will be higher because the AAD amount has already been recovered.
 - Hon'ble Commission is humbly prayed to consider the above and allow Advance Against Depreciation to enable the Company to discharge the repayment commitment without shortage of funds.
2. to consider the Return on Equity @14% for FY 2024-25 as per the Reg.2 of 2023 without any reduction in RoE on account of penalty for delay in filing of MYT petition in view of the huge impact on cash flows due to:
 - ❖ imposing of penalty by reduction RoE and
 - ❖ decrease in depreciation due to implementation of new regulation 2 of 2023.
 3. to consider the Revised Estimates submitted in the current filings in finalizing the Transmission tariff for FY 2026-27 as there is huge variation in investment plan filed in MYT and this Annual Tariff Petition based on existing conditions;
 4. to consider adjustment of the impact of true down of FY 2024-25 in two installments in the ensuing Annual Tariff Orders for FY 2026-27 and FY 2027-28;
 5. to take the accompanying Annual Tariff Petition for filing Aggregate Revenue Requirement and Filings for Proposed Tariff for the FY 2026-27 of 5th control period for Transmission business by TGTransco on record;
 6. to grant suitable opportunity to TGTransco within a reasonable time frame to file additional material information, if required;
 7. 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;
 8. to treat the filing as complete in view of substantial compliance as also the specific requests for waivers with justification placed on record;

9. to consider and approve TGTransco's ARR, FPT for Annual Tariff Petition including all requested regulatory treatments in the filing;
10. 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: 27th NOVEMBER, 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, TGTRANSCO 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 2026-27. Accordingly, TGTRANSCO is filing its ARR before the Commission in the methodology prescribed by the Commission for FY:2026-27 consisting of the following as per Regulation No.2 of 2023.

- I) True up Analysis of performance for FY 2024-25 of 5th Multi Year Tariff Control Period**
- II) Annual Tariff Petition (ATP) for Transmission Business for FY 2026-27**
- III) Proposal of Transmission Tariff and Charges for FY 2026-27**

I) True up Analysis for FY 2024-25:

TGTRANSCO has been providing Transmission Service in the State of Telangana and collecting the Transmission Charges from the Customers vide Tariff Order issued for 5th Multi Year Tariff Control Period by Hon'ble TGERC from FY 2024-25 to FY 2028-29 and as per the Annual Tariff Orders issued by Hon'ble TGERC from time to time.

In accordance with Regulation No. 2 of 2023, TRANSMISSION CORPORATION OF TELANGANA LIMITED (TGTRANSCO) has filed the True up for corrections for Controllable and Uncontrollable items and as well as sharing of gains/losses for the FY 2024-25:

The licensee is submitting the following as part of the correction filings for FY 2024-25:

- Statement of variance comparing Tariff Order vs Actuals for each item in the Aggregate Revenue Requirement and reasons for variation.
- Actual Aggregate Revenue Requirement (ARR) for FY 2024-25, computed based on actual investments, actual interest and other costs.
- The Surplus/Deficit for FY 2024-25, arrived based on actual revenue for the respective year.

i) Operation and Maintenance (O&M) Expenses: The O&M Expenses include Employees Cost, Administrative & General Expenses, Repairs & Maintenance Expenses.

(i.a). Variance in O&M Expenses:

(Rs. in crores)

Particulars	FY 2024-25		
	Tariff Order	Actuals	Deviation
Net Employee Cost	1123.60	1005.50	(118.10)
A&G Expenses	64.78	74.50	9.72
R & M Expenses	111.14	55.01	(56.13)
Net O&M Expenses	1299.52	1135.01	(164.51)

- Net O&M Expenses for FY 2024-25 have been decreased by Rs. 164.50 crores due to following reasons:
 - a) Decrease in Employee Terminal benefits provision as per Actuarial Valuation.
 - b) Actual R&M expenses incurred being lower than the amount permitted by Hon'ble Commission.

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 useful life specified in regulation 2 of 2023.

(ii.a) Variance in Depreciation:

(Rs. in crores)

Particulars	FY 2024-25		
	Tariff Order	Actuals	Deviation
Depreciation	818.35	542.60	(275.75)

- Actual depreciation amount has been decreased due to i) Change in Depreciation methodology and ii) Comparatively lower Capitalisation during the year relative to capitalisation approved in 5th MYT order.

(ii.b) Request for Issue of orders on the useful life of Transmission Lines:

- During the Financial Year 2024-25, Company has adopted depreciation methodology by considering useful life of the Transmission Assets as specified in Annexure-I of TGERC Regulation No.2 of 2023.
- Further, it is to submit that the useful life of the Transmission lines is considered as 35 years specified under Definitions 2 (69) instead of 25 years mentioned under Annexure-I (depreciation schedule) due to lack of uniformity. Thereby, Company has arrived a total depreciation amount of Rs.542.49 Crores (As per audited accounts). In case, if the Company would have considered useful life of the Transmission lines as 25 years the total depreciation would have been Rs.681.33 Crores. (Annexure- I enclosed).
- In view of the above, Hon'ble commission is requested to issue specific orders on the useful life of the Transmission lines and consider the depreciation accordingly.

Further to the above, it is to submit that the depreciation allowed by Hon'ble TGERC as per regulation 2 of 2023 for Transmission Business is much less than the long term debt repayment for each year of the 5th MYT period. As such there is a shortage of cash flows in discharging repayments of the project loans. In view of this, the following is submitted for kind consideration;

(ii.c) Request for Advance against Depreciation to have sufficient cash flows for the repayment of long term loans;

1. CERC in their Tariff Regulation 2004, vide clause 21.1 (ii)(a). **Depreciation** – provides “**Depreciation shall be calculated annually based on straight line method over the useful life of the asset and at the rates prescribed.**” Further to this, the regulation also provides for **Advance Against Depreciation** vide clause 21.1 (ii)(a) in case the cumulative repayment up to a particular year exceeds the cumulative depreciation up to that year.
2. Further, the CERC regulation 2009, vide clause 17. **Depreciation** sub clause (4), provides that, the depreciation for initial period of 12 years from date of commercial operation shall be computed as per rates specified under this regulation and the balance depreciation shall be spread over the balance useful life of the assets.
3. Similar provisions w.r.t **Depreciation** were provided in the CERC regulations 2014 and 2019.

4. The depreciation provisions of above tariff regulations from 2004 to 2019, ensured that the licensee recovered sufficient depreciation amount to meet loan repayment obligations on borrowed capital without any negative cash flow impact on the company, wherein (i) the regulation 2004 has provided for **Advance Against Depreciation** incase the claimed depreciation is lower than the actual loan repayment and (ii) the regulation 2009, 2014 and 2019 has provided for higher rate of depreciation during the initial 12 years of asset life, since majority of the loan repayment terms were 10 to 15 years, which enabled the licensee to repay substantial loan portion during the initial 12 years of asset life.
5. Consequent to the above provisions under the CERC regulations from 2004 to 2019, the company was in a position to discharge its long-term debt obligations consistently by way of recovery of sufficient depreciation through tariff revenue until FY 2023-24.
6. However, Hon'ble TGERC has issued regulation 2 of 2023, wherein the Hon'ble commission has changed the methodology of depreciation to uniform straight line method over the useful life of the asset (by specifying the life of assets in Annexure-I) from the existing methodology of CERC followed by the company. According to this, the rate of depreciation in respect of Plant & Machinery and Lines & Towers have been reduced by 50% (approx.) and in transmission business, these assets cover major portion of Asset Block and hence there is a huge variation in allowable depreciation and long-term debt repayment obligation, which is adversely effecting the cash flows of the company from FY 2024-25 onwards.
7. In this regard, company has already raised an objection on depreciation clause during public consultation process while finalizing new tariff regulations of TGERC.
8. Further, TGTRANSCO has filed an objection under clauses 39 & 40 of TGERC Regulation No.2 of 2015 seeking a review of clause 28 (depreciation) of the TGERC MYT Regulation No.2 of 2023 on 24th January, 2024 but the same was not admitted by the Hon'ble TGERC stating that the petition is not maintainable and it cannot revisit the clauses in Regulation through judicial proceedings as it had already undertaken public consultation process.
9. As per clause 28.5 of new tariff regulation no.2 of 2023 it is clearly stated that the **"depreciation allowed for each year of the control period shall be deemed to be equal to the loan repayment, upto the ceiling of 75% of asset cost or actual debt component used for funding such asset"**.

10. In accordance with the clause 28.5 of the Regulation, the Hon'ble commission is humbly prayed to consider the actual repayment of the long term debt used for funding of assets each year duly considering the advance against the depreciation to be adjusted in future, in order to overcome the shortage of cash flows towards repayment of long term loans if the actual depreciation is considered.

11. In this regard, the year wise actual repayment as per the repayment schedule for FY 2024-25 to FY 2026-27 duly comparing with the depreciation (Excluding amortization on Consumer Contribution assets) is submitted below:

(Rs. in Crores)

Financial Year	Depreciation	Repayment	Shortage
2024-25	239.01	1159.91	920.90
2025-26	767.18	1303.57	536.39
2026-27	860.71	978.90	118.19

12. In this regard, the following is submitted to Hon'ble Commission with a request to consider Advance Against Depreciation in true-up filing for FY 2024-25 and also proposed tariff filings for FY 2026-27.

Advance Against Depreciation (AAD):

- Advance Against Depreciation (AAD) is a regulatory provision by the Central Electricity Regulatory Commission (CERC) allowing electricity transmission licensees to collect more tariff than the projected depreciation, but only when the loan repayment installments exceed the calculated depreciation, and the shortfall is capped. This mechanism provides an advance against future depreciation by allowing recovery up to a certain limit (often 1/10th or 1/12th of the loan) if loan repayments outpace depreciation, effectively acting as a timing adjustment to ensure sufficient cash flow for loan servicing.
- If the annual loan repayment amount is significantly higher than the annual depreciation allowed, and the difference is within the permitted ceiling, the company can claim an Advance Against Depreciation for that period. This allows recovering more capital early on, ensuring the Company to meet its loan obligations. In later years, when the loan balance decreases, the depreciation recovery will be higher because the AAD amount has already been recovered.
- The following are few instances where Hon'ble CERC and other State Regulatory Authorities have allowed the Advance Against Depreciation.
 - 1) Hon'ble CERC vide Order dated, 18.10.2005 against Petition No. 47/2005 **In the matter of** Approval of generation tariff of Uri Hydroelectric Project for the period 1.4.2004 to 31.3.2009. And in the matter of

National Hydroelectric Power Corporation Ltd. ...Petitioner

Vs

Punjab State Electricity Board, Patiala and 14 Others ... Respondents

Allowed Advance Against Depreciation to the Petitioner from FY 2004-05 to 2008-09 as per sub-clause (b) of clause (ii) of Regulation 56 of the 2004 regulations, in addition to allowable depreciation, stating that, the transmission licensee is entitled to Advance Against Depreciation, computed in the manner given hereunder:

AAD = Loan repayment amount as per regulation 56 (i) subject to a ceiling of 1/10th of loan amount as per regulation 54 minus depreciation as per schedule.

- 2) The Karnataka Electricity Regulatory Commission has proposed the following amendments to KERC (Tariff) Regulations, 2000 in order to comply with the CERC Tariff Policy 2004 and requested the stakeholders and experts to furnish their views/comments;
- i) To facilitate the Electricity Supply Companies (ESCOMs) to file their ERCs without waiting for the subsidy commitment letter from the Government.
 - ii) To provide return on equity (RoE) to transmission and distribution utilities at the rates notified in CERC (Terms and conditions of Tariff) Regulations 2004 issued on 26.03.04.
 - iii) To adopt rates of depreciation on assets as per CERC (Terms and conditions of Tariff) Regulations 2004 issued on 26.03.04.
 - iv) There should be no need for any advance against depreciation.

The Karnataka Power Transmission Corporation Ltd., regarding rates of depreciation against point (iii) above expressed the following views;

KPTCL has stated that the rates of depreciation as per CERC Regulations are much lower when compared to the rates being presently followed as per MoP notification dated 29.3.1994. The depreciation charged to P&L account in KPTCL and ESCOMs every year is available as an internal resource to the companies for debt servicing. Even with an average 6.5 % rate depreciation (As per MoP notification) the internal resources are not sufficient to meet the requirement of debt servicing and ***the companies are contemplating seeking advance against depreciation while filing ERC.*** Hence KPTCL & ESCOMs request the Commission not to amend the tariff regulation in the matter of depreciation.

Commission's views;

Regarding advance against depreciation, the Commission notes that while the CERC (Terms & Conditions of Tariff) Regulations 2004 notified on 26.03.04 provides for advance against depreciation to cover the debt repayment obligation, the Tariff Policy specifies that "There should be no need for any advance against depreciation".

The Commission notes that with the depreciation rates notified in CERC Regulations, advance against depreciation may be required to meet the debt repayment obligation. However, such advance shall not be allowed for repayment of short-term loans.

Accordingly, the Commission decides to adopt the rates of depreciation as per CERC Regulations for transmission as well as distribution utilities duly providing for advance against depreciation to the extent necessary to meet the debt repayment obligation.

Accordingly, Hon'ble Karnataka Electricity Regulatory Commission (KERC)'s Order No. B/12/01 dated, 29th March 2006 in exercise of the powers conferred on it by section 56 of KER Act, 1999, read with section 181 of Electricity Act, 2003 and all other powers enabling it in this behalf, the Commission approves amendments to KERC (Tariff) Regulations, 2000.

iii) Interest and Finance Charges on Loan:

(iii.a) Variance in Interest and Finance Charges on Loan: Interest and finance Charges on Loans are claimed as per the actual interest cost incurred (excl. interest on short-term/working capital loan) during FY 2024-25.

(Rs. in crores)

Particulars	FY 2024-25		
	Tariff Order	Actuals	Deviation
Interest and Finance Charges on Loan	978.43	781.61	(196.82)

- The decrease in interest and finance charges of Rs.196.82 crores is due to (i) decrease in Capital Investment and (ii) Repayment of loans during the year.

iv) Interest on Working Capital: Interest on Working Capital has been arrived as per methodology specified clause 33.2 of regulation 2 of 2023 duly adopting interest rate of 10.15% p.a as approved in MYT for FY 2024-25.

(iv.a) Variance in Interest on Working Capital:

(Rs. in crores)

Particulars	FY 2024-25		
	Tariff Order	Actuals	Deviation
Interest on Working Capital	75.09	58.20	(16.89)

- v) **Return on Equity:** Return on Equity @14% is allowed on 25% net opening asset block and net additions during the year as per the clause 29.2(d) of regulation no. 2 of 2023.

(v.a) Variance in Return on Equity:

(Rs. in crores)

Particulars	FY 2024-25		
	Tariff Order	Actuals	Deviation
Return on Equity	432.30	541.41	109.11

- (a) The Increase in Return on Equity of Rs.109.11 crores is due to considering RoE at 14% net of tax as per the regulation 2 of 2023.
- (b) As per clause 29.2 of regulation, Hon'ble Commission has reduced return on equity (RoE) by 3.5% for FY 2024-25 due to delay in submission of 5th Multi Year Tariff Petition. The company has already made a request for condonation of delay in filing of above petition.
- (c) In light of the above, Hon'ble Commission is once again prayed for waiver of reduction of RoE for delay in filing of above Multi Year Tariff Petition by considering above condonation request.

- vi) **Non-Tariff Income:** Non-Tariff Income is offered for reduction from ARR for FY 2024-25 as per audited financials.

(vi.a) Variance in Non-Tariff Income:

(Rs. in crores)

Particulars	FY 2024-25		
	Tariff Order	Actuals	Deviation
Non-Tariff Income	464.70	455.19	(9.51)

vii) Aggregate Revenue Requirement (ARR) and Surplus:

The Total Aggregate Revenue Requirement (ARR) approved by Hon'ble Commission for the year is Rs. 3138.99 Crores, against actual ARR of Rs.2603.65 Crores. Whereas, the company has received Rs.3994.41 Crores by way tariff revenue. Thereby the company has earned a Surplus of Rs.1390.76 Crores during FY.2024-25.

TRANSMISSION BUSINESS TRUE-UP SUMMARY for FY 2024-25

S. No.	Particulars	Units	2024-25		Variation
			Tariff Order	Apr - Mar	
			Approved	Actuals	
I	Aggregate Revenue Requirement				
1	Operation & Maintenance Expenses	Rs. Crs.	1,299.52	1,135.02	(164.50)
2	Depreciation	Rs. Crs.	818.35	542.60	(275.75)
3	Interest and finance charges on loan	Rs. Crs.	978.43	781.61	(196.82)
4	Interest on Working Capital	Rs. Crs.	75.09	58.20	(16.89)
5	Return on Equity	Rs. Crs.	432.30	541.41	109.11
6	Less:				-
6.1	Non-Tariff Income	Rs. Crs.	464.70	455.19	(9.51)
7	Less:				-
7.1	Impact of special appropriation for prior period	Rs. Crs.	-		-
	Aggregate Revenue Requirement	Rs. Crs.	3,138.99	2,603.65	(535.34)
II	Revenue Received	Rs. Crs.	3,138.99	3994.41	(855.42)
	Total Surplus (I-II)				(1,390.76)

- It could be seen from the above that, the net expenditure of the Company has been decreased by Rs. 535.34 Crores mainly due to decrease in O&M expenses, depreciation and interest and finance charges. Whereas the total revenue of the company increased by Rs. 855.42 Crores on account of receipt of ISTS – POC charges of Rs. 431.08 crores and excess transmission tariff revenue of Rs. 376.03 Crores collected at old tariff rates as per the interim order of Hon'ble TERC vide I.A. No. 8 of 2024 dated 15.03.2024 due to delay in filing of MYT petition for FY 2024-25 of 5th MYT control period and balance is on account of open access revenue. In view of the above, the Company has earned a surplus of Rs.1390.76 Crores for FY 2024-25.

II. Aggregate Revenue Requirement for FY 2026-27:

TG TRANSCO submits its Aggregate Revenue Requirement (ARR) for Annual Transmission Charges for FY 2026-27 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**.

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 2026-27 of 5th Control period are as follows:

Form-3: Summary of Capital Expenditure and Capitalisation for FY 2026-27:

(Rs. in Crores)

Sl. no.	Particulars	FY 2025-26			FY 2026-27		
		ATP Order	Apr - Mar	variation	MYT/ Tariff Order	Projected	Variation
1	Opening Capital Works in Progress	2,991.73	3,593.86	602.13	2,251.86	3,301.13	1,049.27
2	Capital Expenditure during the year	1,029.73	1,780.02	750.29	727.27	4,432.61	3,705.34
3	Capitalisation during the year	1,769.60	2,072.75	303.15	1,312.51	4,949.18	3,636.67
4	Closing Capital Works in Progress	2,251.86	3,301.13	1,049.27	1,666.62	2,784.56	1,117.94

Note: Capital Expenditure for FY 2025-26 and FY 2026-27 is inclusive of Interest during construction (IDC) & O&M Expenses capitalized for respective years.

The Aggregate Revenue Requirement comprises of following components:

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 and Pay revision which was due as on 01.04.2026 (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,

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

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

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

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

(Rs. in Crores)

Sl. No.	Particulars	2025-26			2026-27		
		ATP Order	Apr - Mar	variation	MYT/Tariff Order	Projected	Variation
1	Employee Expenses	1,341.23	1,099.29	-241.94	1,257.49	1,273.01	15.52
2	A&G Expenses	84.88	78.27	-6.61	71.32	82.22	10.90
3	R & M Expenses	106.13	64.11	-42.02	127.65	69.34	-58.31
Total O&M Expenses		1,532.24	1,241.67	-290.57	1,456.46	1,424.57	-31.89

- The Employee cost for FY 2025-26 has been computed by considering FY 2024-25 as base year and duly escalating at the rate of 4.96% (Average CPI Inflation factor of last 5 years from FY 2020-21 to FY 2024-25). Further, for the FY 2026-27 the Employee cost has been escalated with CPI inflation also considered the Pay revision which was due on 01.04.2026 with provisional rate of 7% (As per the earlier approved fitment order issued vide T.O.O.(Jt.Secy-Per) Ms.No.1637 dated 28.04.2023).
- Repairs and Maintenance (R&M) has been computed as per the regulation No.2 of 2023, where K factor 0.24% is arrived by dividing R&M expenses with Opening GFA of the last 5 years from FY 2020-21 to FY 2024-25 and duly escalating with WPI Inflation at the rate of 5.05%(Average WPI Inflation factor of last 5 years from FY 2020-21 to FY 2024-25).
- Admin & General (A&G) expenses has been computed by considering FY 2025-26 as base year and duly escalating at the rate of 5.05% (Average WPI Inflation factor of last 5 years from FY 2020-21 to FY 2024-25) for FY 2026-27.

- 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:

(Rs. in crores)

Sl. No.	Asset Group	FY 2025-26			FY 2026-27		
		ATP Order	Apr - Mar	variation	MYT/Tariff Order	Projected	variation
1	Land & land right	772.54	-	182.80	898.11	-	184.22
2	Office Buildings		1.95			2.21	
3	Communication Lines		0.98			1.11	
4	Communication Equipment		0.52			0.59	
5	Other Civil Works		32.70			37.05	
6	Plant and Machine		362.42			410.60	
7	Lines & cable network		535.67			606.88	
8	Vehicles		0.52			0.59	
9	Furniture & fixtures		2.43			2.75	
10	IT Equipment		0.16			0.18	
11	Intangible assets		1.14			1.29	
12	Office equipment		16.84			19.08	
Total		772.54	955.34	182.80	898.11	1,082.33	184.22

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

- Opening Net Fixed assets value as on 01.04.2025 has been considered as per books of accounts for FY 2024-25.
- Depreciation for the FY 2025-26 & FY 2026-27 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:

(Rs. in crores)

Sl. No.	Particulars	FY 2025-26			FY 2026-27		
		ATP Tariff Order	Apr - Mar	variation	MYT/ Tariff Order	Projected	variation
1	Opening Balance of Gross Normative Loan	-	14,762.89		-	15,975.86	
2	Cumulative Repayment till the year	-	5,579.44		-	6,346.62	
3	Opening Balance of Net Normative Loan	8,227.73	9,183.45	955.72	9,956.29	9,629.24	-327.05
4	Less: Reduction of Normative Loan due to retirement or replacement of assets	-	0.00		-	0.00	
5	Addition of Normative Loan due to Capitalisation during the year	1,025.09	1,212.96	187.87	391.20	2,798.57	2,407.37
6	Repayment of Normative loan during the year	772.54	767.18	-5.36	898.11	860.71	-37.40
7	Closing Balance of Net Normative Loan	8,480.28	9,629.24	1,148.96	9,449.38	11,567.10	2,117.72
8	Closing Balance of Gross Normative Loan	-	15,975.86		-	18,774.43	
9	Average Balance of Net Normative Loan	-	9,406.35		-	10,598.17	
10	Weighted average Rate of Interest on actual Loans (%)	0.10	0.09		0.10	0.09	
11	Interest	-	846.57		-	953.84	
12	Finance charges	-	0.00		-	0.00	
Total Interest & Finance charges		835.40	846.57	11.17	970.28	953.84	-16.44

The Interest and Finance charges have 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 (excluding Consumer Contributions) to fixed assets during the year.
- Repayment of the normative loan during the year is considered equal to the depreciation amount (Net of amortisation on Consumer Contribution assets).
- The "Average Normative loan" is arrived by considering average of net opening and net closing normative loan.

- Interest rate at 9.00% 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:

(Rs. in crores)

S. No.	Particulars	FY 2025-26			FY 2026-27		
		ATP Tariff Order	Apr - Mar	Variation	MYT/ Tariff Order	Projected	Variation
1	O&M expenses	127.69	103.47	-24.22	121.37	118.71	-2.66
2	Maintenance spares	264.60	254.28	-10.32	318.25	275.01	-43.24
3	Receivables	425.24	216.99	-208.25	431.34	397.50	-33.84
4	Less: Security Deposits	32.58	35.00	2.42	32.58	35.00	2.42
5	Total Working Capital requirement	784.95	539.75	-245.20	838.38	756.23	-82.15
6	Interest rate	10.50%	10.25%	-0.25%	10.15%	10.25%	0.10%
	Interest on working capital	82.42	55.32	-27.10	85.10	77.51	-7.58

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 @10.25% has been considered (SBI MCLR 8.75%+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:

(Rs. in crores)

Sl. No.	Particulars	FY 2025-26			FY 2026-27		
		ATP Tariff Order	Apr-Mar	Variation	MYT/Tariff Order	Projected	Variation
1	Regulatory Equity at the beginning of the year	2,972.38	3,321.88	349.50	3,879.32	3,726.21	-153.11
2	Capitalisation during the year		1,617.29			3,731.43	
3	Equity portion of Capitalisation during the year	341.70	404.32	62.62	130.40	932.86	802.46
4	Reduction in Equity Capital on account of retirement / replacement of assets		0.00	-		0.00	-
5	Regulatory Equity at the end of the year	3,314.08	3,726.21	412.13	4,009.72	4,659.06	649.34
	Rate of Return on Equity						
6	Base rate of Return on Equity	14.000%	14.000%		14.000%	14.000%	
7	Effective Income Tax rate	17.472%	17.472%		17.472%	17.472%	
8	Rate of Return on Equity	16.960%	16.964%		16.960%	16.964%	
	Return on Equity Computation		0.00			0.00	
9	Return on Regulatory Equity at the beginning of the year		563.52			632.11	
10	Return on Regulatory Equity addition during the year		34.29			79.12	
	Total Return on Equity	533.20	597.82	64.62	669.15	711.24	42.09

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 16.964% (Rate of return at 14% with effective Minimum Alternative 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:

(Rs. in crores)

S. No.	Particulars	FY 2025-26			FY 2026-27		
		ATP Tariff Order	Apr - Mar	Variation	MYT/Tariff Order	Apr - Mar	Variation
1	Supervision charges	306.66	19.89	21.82	580.46	15.91	-255.19
2	Contributions & amortisation towards depreciation on LIS and Other than LIS Assets		179.05			179.05	
3	Registration fees		0.93			0.93	
4	Operating and maintenance/annual maintenance charges		10.79			10.79	
5	Interest on staff loans and advances		1.12			1.18	
6	Surcharge		0.00			0.00	
7	Income from investments in bonds and fixed deposits		43.40			43.40	
8	Income from sale of scrap etc.,		2.05			2.05	
9	Fines and penalties collected		11.60			9.28	
10	Interest on investments under contingency reserve		0.00			0.00	
11	Income from Lease rentals		58.64			61.57	
12	Miscellaneous receipts		1.00			1.10	
	Total	306.66	328.48	21.82	580.46	325.27	-255.19

- 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 2025-26 & FY 2026-27 is estimated based on the past trend and future expected receipts.
- Contributions & amortisation towards depreciation on LIS and Other than LIS Assets has been arrived for the FY 2025-26 and FY 2026-27 by considering the Useful life as per the Regulation 2 of 2023.

vii. Impact of True-Up for prior period:

- Based on the Audited Annual Accounts of the FY 2024-25, the Pass-through (revenue surplus) of the year by comparing with MYT Tariff Order Approved for the FY 2024-25 is arrived at Rs. 1,390.76 crores.
- Out of the above surplus an amount of Rs.700 crores is now proposed to be adjusted in the proposed Tariff for the FY 2026-27 and the balance is proposed to be adjusted in the next financial year of the Control Period.

(h) Aggregate Revenue Requirement: The following is the position of Aggregate Revenue Requirement for FY 2026-27:

Form 1: Summary sheet for FY 2026-27:

(Rs. in crores)

Sl. No.	Particulars	FY 2025-26			FY 2026-27		
		ATP Tariff Order	Apr-Mar	Variation	MYT/Tariff Order	Projected	Variation
1	Operation & Maintenance Expenses	1,532.24	1,241.67	-290.57	1,456.47	1,424.57	-31.90
2	Depreciation	772.54	955.34	182.80	898.11	1,082.33	184.22
3	Interest and finance charges on loan	835.40	846.57	11.17	970.28	953.84	-16.44
4	Interest on Working Capital	82.42	55.32	-27.10	85.10	77.51	-7.59
5	Return on Equity	533.20	597.82	64.62	669.15	711.24	42.09
6.1	Less: Non-Tariff Income	306.66	328.48	21.82	580.46	325.27	-255.19
6.2	Income from Open Access Charges	-	-	0.00	-	-	0.00
6.3	Income from Other Business	-	-	0.00	-	-	0.00
7.1	Less: Surplus pass-through	-1,608.23	1,608.23	0.00	-	700.00	700.00
Aggregate Revenue Requirement		1,840.91	1,760.00	-80.91	3,498.65	3,224.21	-274.44

III. Proposal of Revised Transmission Tariff for FY 2026-27:

The Transmission charges are computed by dividing the net ARR of FY 2026-27 with the total contracted capacity of the year. As such, the following is the Transmission Charges Proposed for FY 2026-27.

Transmission Charges Proposed for FY 2026-27:

Particulars	FY 2026-27
	(n+1)
ARR of Transmission Business (Rs. in crores)	3,224.21
Transmission Contracted Capacity (MW)	22,510.68
Transmission Tariff for Long-term & Medium Term Users (Rs/kW/month)	119.36
Transmission Tariff for Short Term Users (Rs/kW/hr)	0.17

**1. Capital Investment Plan for FY 2026-27 of 5th Control Period:
Resource Plan for FY 2024-25 to FY:2028-29 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 TGNPDCL and to handle evacuation from new generation plants.

Telangana State handled 88928MU of energy for the FY: 2024-25 and met Peak Demand of 17162 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.

1.1. Demand Growth and System Expansion & Improvement Requirements

Energy Balance (at Grid level) for 5th control period as on 30.09.2025 as approved at TGERC in DISCOM Resource Plan Versus current data from TGDISCOMs and TGPCC.

DISCOMs	2024-25		2025-26				2026-27	
	Apr-Mar		Apr-Mar	Apr-Sept	Oct-Mar	Apr-Mar		Apr-Mar
	Approved	Actuals	Approved	Actuals	Projected	Projected	Approved	Projected
Energy Requirement	83057.58	88928.32	87563.78	42177.16	49186.48	91363.64	92364.52	98427.60
Energy Available	95753.36	89625.64	106636.81	42974.13	53795.72	96769.85	106157.47	115605.84
Energy Balance	12695.78	697.32	19073.03	796.97	4609.24	5406.21	13792.95	17178.24

***The energy requirement figures are being finalized by the TGDISCOMs & hence the figures given above are subject to change.

1.2 Load/Energy Requirement:

A. REPRESENTATIVE SYSTEM LOAD CURVES

FY: 2024-25

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 2024-25 are as follows :-

For 2024-25

Sl.No	Season	Date
1	Typical weekend day in summer	15 th Mar 2025
2	Typical full load day in summer	20 th Mar 2025
3	Typical weekend day in monsoon	15 th Sept 2024
4	Typical full load day in monsoon	29 th Aug 2024
5	Typical weekend day in winter	22 nd Feb 2025
6	Typical full load day in winter	26 th Feb 2025

The highest system Peak Demand of 17162 MW was recorded on 20.03.2025 @ 16:39 Hrs for the FY 2024-25.

A brief analysis of system demand for all seasons of the year 2024-25 is furnished in the following sections:

For 2024-25

PEAK GRID DEMAND				
SEASON	Max MW	Max Date	Min MW	Min Date
SUMMER	17162	20.03.2025	3546	07.05.2024
MONSOON	15573	29.08.2024	5443	02.09.2024
WINTER	16601	26.02.2025	6061	24.11.2024

**1 Summer season
For 2024-25**

The highest System Peak Demand recorded during summer season is 17162 MW on 20.03.2025. From the system load curve (vide annexure 1.a) on the day when the highest system peak was recorded during summer season, the system load is continuously maintained above 9643 MW (minimum on 20.03.2025) throughout the day and the maximum demand recorded was 17162 MW. The **demand variation in summer was between 3546 MW and 17162 MW**. The minimum system demand met on 07th May 2024 was 3546 MW and is the lowest recorded this season.

**2 Monsoon season
For 2024-25**

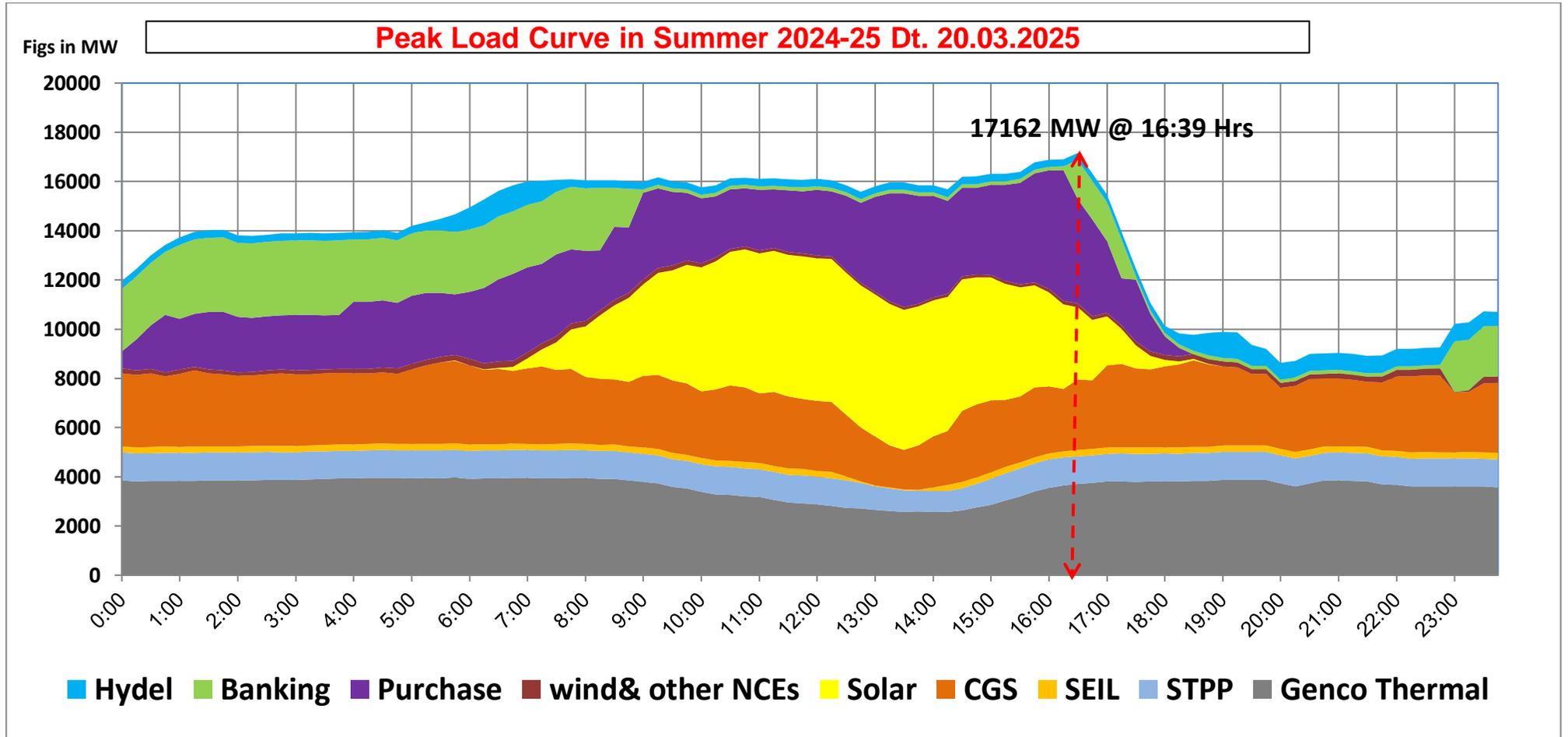
The highest System Peak Demand recorded during monsoon season is 15573 MW on 29.08.2024. From the system load curve (vide annexure 1.b) on the day when the highest system peak was recorded during monsoon season, the system load is continuously maintained above 9287 MW (minimum on 29.08.2024) throughout the day and the maximum demand recorded was 15573 MW. The **demand variation in monsoon was between 5443 MW and 15573 MW**. The minimum system demand met on 02.09.2024 was 5443 MW and is the lowest recorded in this season.

**3 Winter season
For 2024-25**

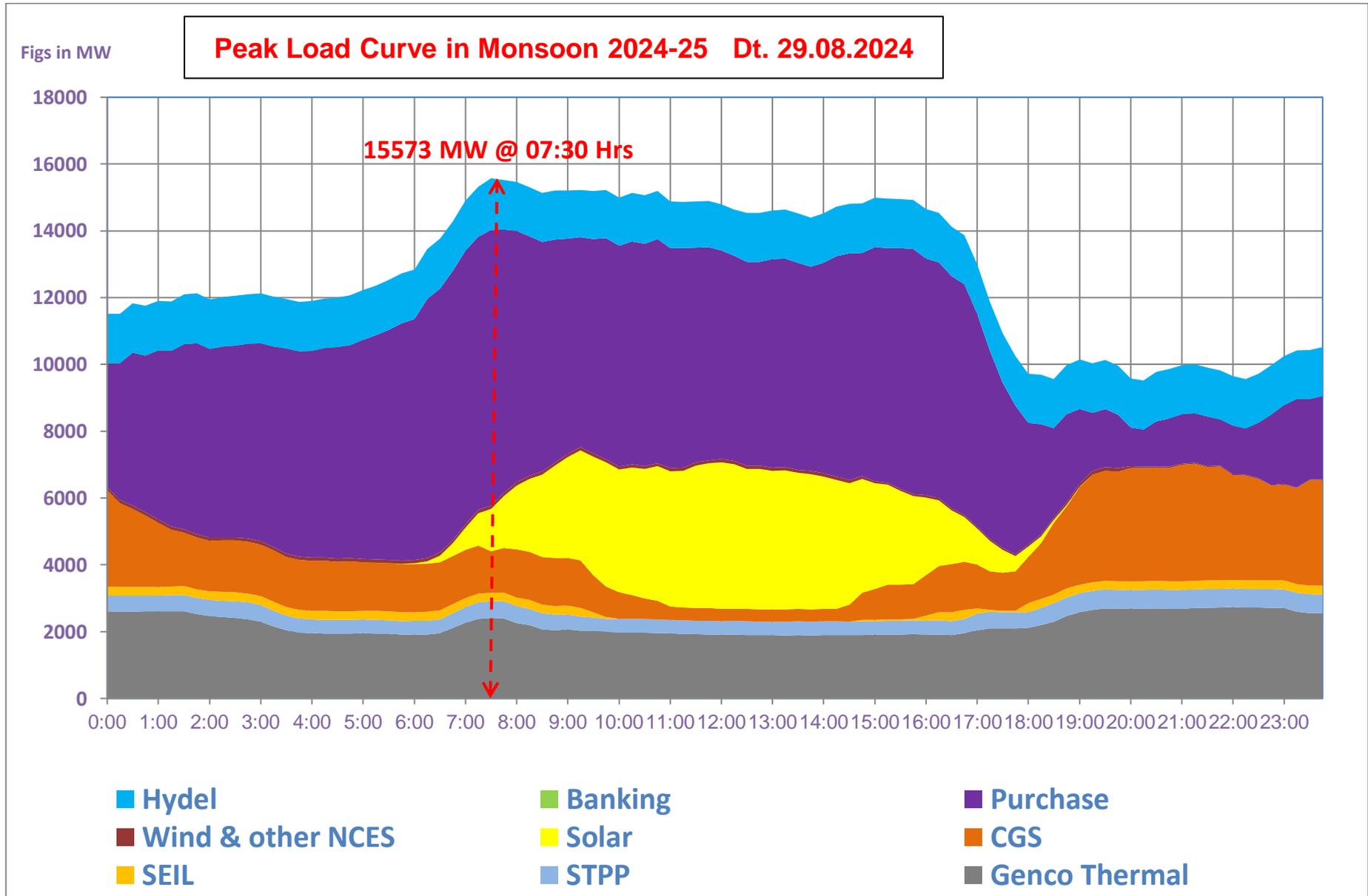
The highest System Peak Demand recorded during winter season is 16601 MW on 26.02.2025. From the system load curve (vide annexure 1.c) on the day when the highest system peak was recorded during winter season, the system load is continuously maintained above 8425 MW (minimum on 26.02.2025) throughout the day and the maximum demand recorded was 16601 MW. The **demand variation in dry winter was between 6061 MW and 16601 MW**. The minimum system demand met on 11th November 2024 was 6061 MW and is the lowest recorded in this season.

The Seasonal TG Demand Curves are enclosed as **Annexures-(a), (b), (c)**.

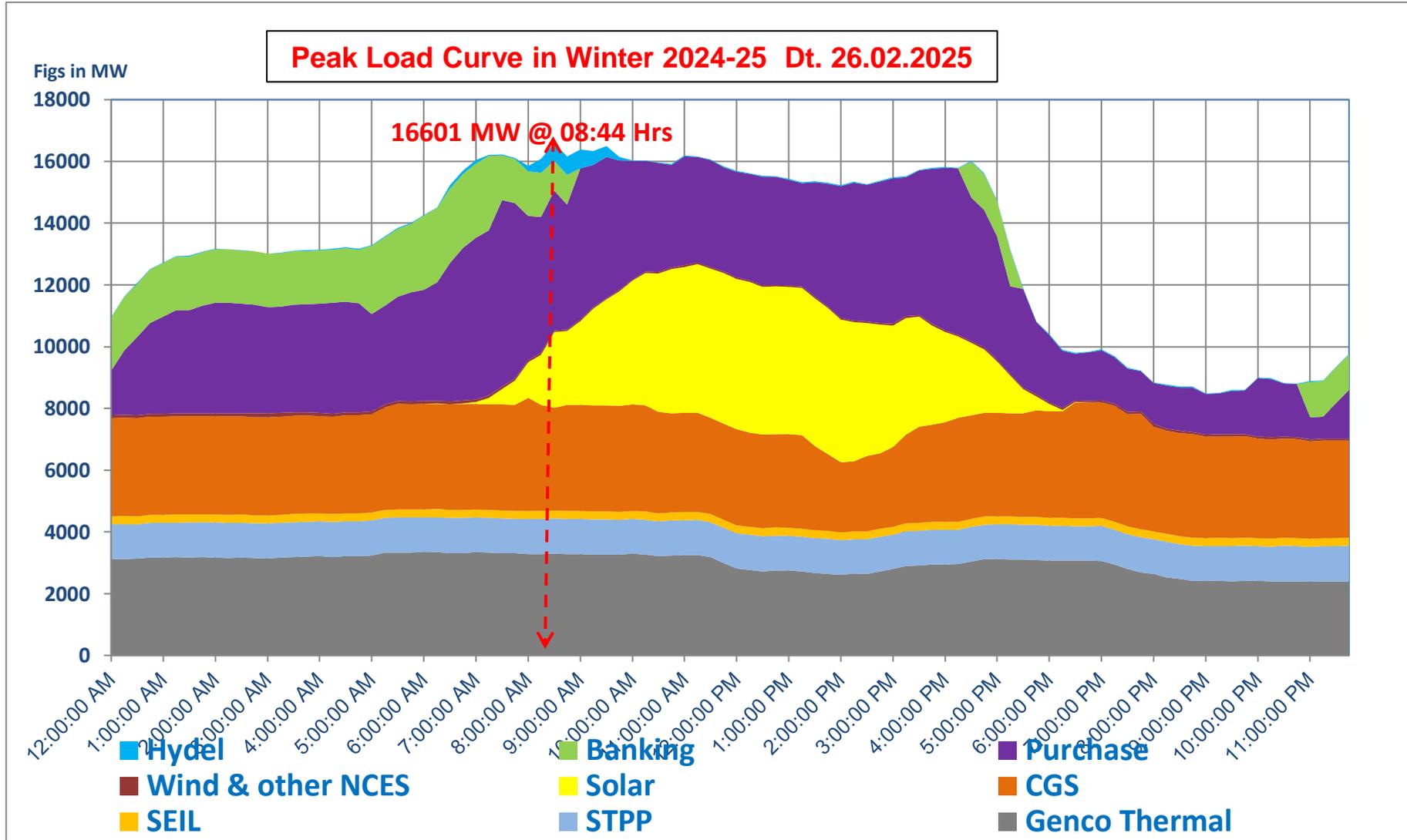
Annexure-(a)



Annexure-(b)



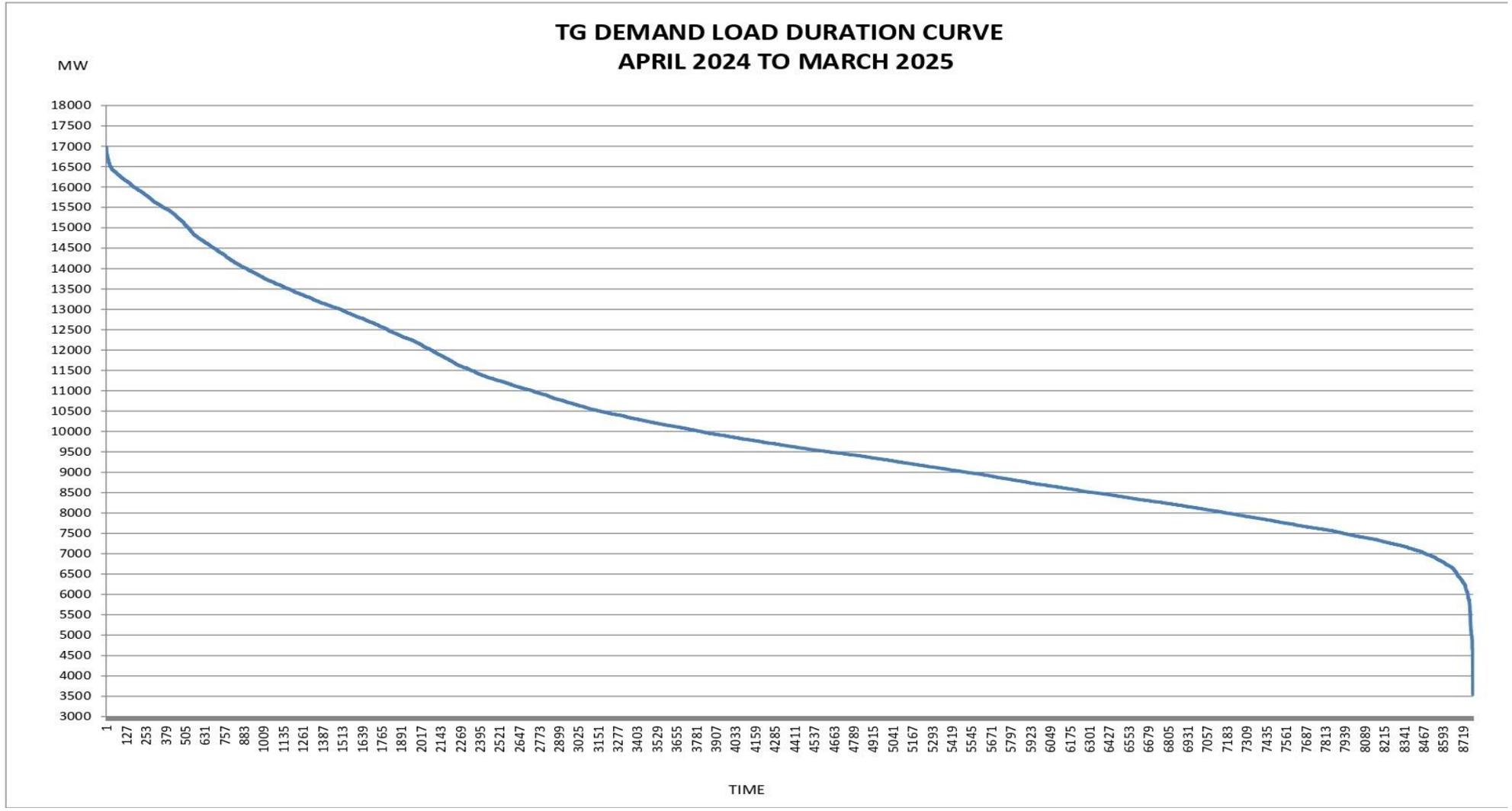
Annexure-(c)



B. LOAD DURATION CURVE

The energy availability in FY 2024-25 is 100% of the total energy requirement. TG Demand Load duration curve for the FY 2024-25

Annexure-(d)

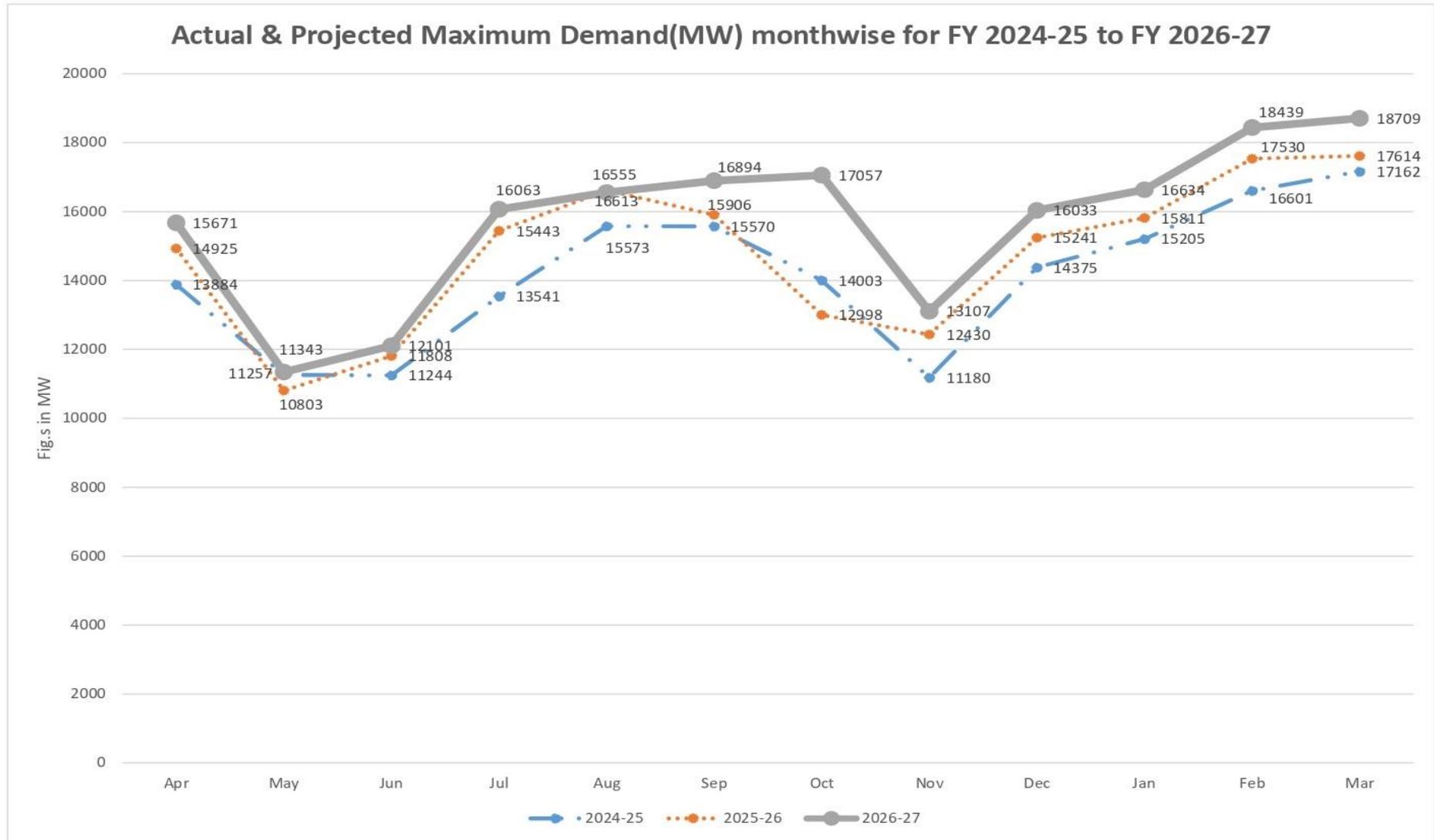


C. Maximum Demand(MW) Curves for FY:2024-25 to FY:26-27

The month wise Actual and Projected Maximum Demands (MW) for FY:2024-25 to FY:2026-27 are as follows and the curves showing Actual and Projected Maximum Demands(MW) for FY:2024-25 to FY:2026-27 are enclosed as **Annexure-(e)**.

Months	FY:2024-25 (Actuals) in MW	FY:2025-26			FY:2026-27 (Projected) in MW
		April-Sep (Actuals) in MW	Oct-Mar (Projected) in MW	April-Mar (Projected) in MW	
April	13884	14925		14925	15671
May	11257	10803		10803	11343
June	11244	11808		11808	12101
July	13541	15443		15443	16063
August	15573	16613		16613	16555
September	15570	15906		15906	16894
October	14003		12998	12998	17057
November	11180		12430	12430	13107
December	14375		15241	15241	16033
January	15205		15811	15811	16634
February	16601		17530	17530	18439
March	17162		17614	17614	18709

Annexure-(e)



1.3 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 DURING 2025-26 and 2026-27 (in MW)

Si. No	Plant owned by	Generating Station	Installed Capacity (in MW)	Contracted Capacity Addition/ TS SHARE (in MW)	FY:2025 -26	FY:2026 -27	COD/ Expected Date of Commissioning (DOC)
1	TGGENCO	Solar Plant at Peddapally MHES	4.6	4.6	2.20	2.4	2.2MW: Dec-2025 2.4MW: April-2026
2	TGGENCO	Yadadri Thermal Power Station	5 x 800	3790.00	2274	0.00	Unit#1 Synchronised on 03.11.2024 Unit#2 Synchronised on 12-09-2024 Expected COD Unit#3 Nov'2025 Unit#4 Nov'2025 Unit#5 Feb'2026
3	NHPC CPSU Phase-II Tranche III	500 MW	500	500	0	500	
4	NLC India Solar PV station, Kutch, Gujarat	200MW	200	200		200	June-2026
5	NTPC-1045 1. Nokh-I Solar Park, Jaisalmer, Rajasthan 2. Nokh-III, Solar Park, Jaisalmer, Rajasthan 3. NTPC REL Khavda Solar PV Station, Gujrat				245.01 245.01 91.30		
	4. NHPC Solar PV station, Khavda village, Kutch, Gujarat				218.71		
6	SECI 1000 MW 1. M/s. Eden Renewable Bercey Pvt Ltd. 2. IB Vogt Solar Seven Pvt Ltd				300.00 300.00		
7	M/s Hyd MSW Energy Solutions Pvt Ltd				24.00		
	TOTAL			4494.6	3700.23	702.40	

1.4 ENERGY AVAILABILITY FROM GENERATING STATIONS TELANGANA GENCO

The below table shows the capacities of the existing/upcoming Thermal, Hydel and other generating stations. The generation in Contracted Capacity (in MW) projected to be available for FY:2026-27 is given below:

Abstract of Generation Contracted Capacities of TGDISCOMs for ATP Filings of Transmission & SLDC Activity for the FY: 2026-27										
Sl. No.	Generating Station/Unit/Source	Installed Capacity in(MW)	Net Capacity telangana State Share in (MW)	Year(n-1) (2024-25)	Current Year "n"(2025-26)			Year(n+1) (2026-27)		
				Apr-Mar	Apr-Sep	Oct-Mar	Apr-Mar	Apr-Mar	TGSPDCL (70.55% share)	TGNPDCL (29.45% share)
				Actual	Actual	Estimated	Estimated	Projected		
				MW	MW	MW	MW	MW		
	TGGenco									
A	Thermal	8042.50	7561.95	4529.95	5989.70	7505.70	7505.70	7505.70	5295.27	2210.43
B	Hydel	2441.76	2299.71	2299.71	2299.71	2299.71	2299.71	2299.71	1622.45	677.27
	Total TGGenco	10484.26	9861.66	6829.66	8289.41	9805.41	9805.41	9805.41	6917.72	2887.69
C	Central Generating Stations	45339.81	3582.87	3517.81	3576.62	3582.87	3582.87	3582.87	2527.71	1055.15
D	IPPs	3520	2347.95	1400.45	1400.45	1400.45	1400.45	1400.45	988.02	412.43
E	Gas Projects	814.08	425.24	0	0	193.41	193.41	193.41	136.45	56.96
F	Inter-state Hydel Projects	141.60	75.55	0	0	0	0	0	0.00	0.00
G	Total DISCOM Contracts (PPAs) without NCE	60299.75	16293.27	11747.93	13266.48	14982.14	14982.14	14982.14	10569.90	4412.24
H	<u>NCE Projects / Renewable Energy</u>									
Ha	NCEs - 132 KV & above	7386.37	7386.37	5242.35	5663.86	6686.37	6686.37	7386.37	5165.53	2220.84
I	Intra-State Open Access	155.386	143.174	116.359	117.524	121.924	119.724	142.174		
	TRANSMISSION Total Generation Contracts (in MW) (G + Ha + I)	67841.50	23822.81	17106.63	19047.86	21790.43	21788.23	22510.68	15735.43	6633.08

Generation Contracted Capacities (in MW) of Transmission for the FY 2026-27										
S.No.	Generating Station/Unit/Source	Installed Capacity (MW)	Net Capacity TG Share (MW)	FY 2024-25	FY 2025-26			FY 2026-27		
				(Actuals)	Apr-Sep (Actual)	Oct-March (Projected)	Apr-March (Projected)	Apr-March (Projected)	TGSPDCL (70.55% share)	TGNPDCL (29.45% share)
(A)	TGGENCO STATIONS									
	GENCO THERMAL:									
1	KTPS-V	500	453.5	453.50	453.50	453.50	453.50	453.50	319.94	133.56
2	KTPS-VI	500	473.75	473.75	473.75	473.75	473.75	473.75	334.23	139.52
3	KTPS-VII	800	758.00	758.00	758.00	758.00	758.00	758.00	534.77	223.23
4	KTPP-I	500	473.75	473.75	473.75	473.75	473.75	473.75	334.23	139.52
5	KTPP-II	600	568.5	568.50	568.50	568.50	568.50	568.50	401.08	167.42
6	RTS-B*	62.5	56.25	56.25	-	-	-	-	-	-
7	BTPS	1080	988.2	988.20	988.20	988.20	988.20	988.20	697.18	291.02
8	YTPS	4000	3790	758	2274	3790.00	3790.00	3790.00	2673.85	1116.16
	Total Thermal (A):	8042.50	7561.95	4529.95	5989.70	7505.70	7505.70	7505.70	5295.27	2210.43
(B)	GENCO HYDEL:									
1	SrisaillamLeft Bank HES	900	889.20	889.20	889.20	889.20	889.20	889.20	627.33	261.87
2	NSPH	815.6	807.44	807.44	807.44	807.44	807.44	807.44	569.65	237.79
3	NSLCPH	60	59.40	59.40	59.40	59.40	59.40	59.40	41.91	17.49
4	Lower Jurala HES	240	237.60	237.60	237.60	237.60	237.60	237.60	167.63	69.97
5	Pulichintala	120	118.80	118.80	118.80	118.80	118.80	118.80	83.81	34.99

S.No.	Generating Station/Unit/Source	Installed Capacity (MW)	Net Capacity TG Share (MW)	FY 2024-25	FY 2025-26			FY 2026-27		
				(Actuals)	Apr-Sep (Actual)	Oct-March (Projected)	Apr-March (Projected)	Apr-March (Projected)	TGSPDCL (70.55% share)	TGNPDCL (29.45% share)
6	Priyadarshini Jurala HES	234	115.83	115.83	115.83	115.83	115.83	115.83	81.72	34.11
7	Pochampad PH (I-IV)	36	35.64	35.64	35.64	35.64	35.64	35.64	25.14	10.50
8	Singur	15	14.85	14.85	14.85	14.85	14.85	14.85	10.48	4.37
9	Nizam Sagar PH	10	9.90	9.90	9.90	9.90	9.90	9.90	6.98	2.92
10	Mini Hydel (Peddapalli)	9.16	9.07	9.07	9.07	9.07	9.07	9.07	6.40	2.67
11	Palair	2	1.98	1.98	1.98	1.98	1.98	1.98	1.40	0.58
	Total Hydel :	2441.76	2299.71	2299.71	2299.71	2299.71	2299.71	2299.71	1622.45	677.27
	Total TGGenco (A):	10484.26	9861.66	6829.66	8289.41	9805.41	9805.41	9805.41	6917.72	2887.69
(C)	CENTRAL GENERATING STATIONS									
1	NTPC (SR)-I & II	2100	297.19	299.58	310.97	297.19	297.19	297.19	209.67	87.52
2	NTPC (SR) Stage-III	500	75.51	76.09	78.88	75.51	75.51	75.51	53.27	22.24
3	NTPC Talcher StageII	2000	192.58	193.49	197.85	192.58	192.58	192.58	135.87	56.72
4	NTPC Simhadri Stage-I	1000	510.61	510.61	510.61	510.61	510.61	510.61	360.23	150.37
5	NTPC Simhadri Stage-II	1000	235.85	236.40	239.05	235.85	235.85	235.85	166.39	69.46
6	Telangana STPP	1600	1298.42	1283.35	1285.60	1298.42	1298.42	1298.42	916.04	382.39

S.No.	Generating Station/Unit/Source	Installed Capacity (MW)	Net Capacity TG Share (MW)	FY 2024-25	FY 2025-26			FY 2026-27		
				(Actuals)	Apr-Sep (Actual)	Oct-March (Projected)	Apr-March (Projected)	Apr-March (Projected)	TGSPDCL (70.55% share)	TGNPDCL (29.45% share)
7	NTPC Kudigi Unit-I, II & III	2400	251.63	220.55	220.55	251.63	251.63	251.63	177.53	74.11
8	NLC Stage-I	580	2.80	0.86	3.80	2.80	2.80	2.80	1.98	0.82
9	NLC Stage-II	790	3.68	1.13	5.00	3.68	3.68	3.68	2.60	1.08
10	NLC Exp-I	420	2.95	0.91	4.00	2.95	2.95	2.95	2.08	0.87
11	NLC Exp-II	500	3.38	1.04	4.58	3.38	3.38	3.38	2.38	0.99
12	New Neyveli Thermal Power plant (NNTPP)	934	58.12	57.90	58.25	58.12	58.12	58.12	41.01	17.12
13	NTECL Vallur Thermal Power Plant	1500	96.28	92.49	98.23	96.28	96.28	96.28	67.92	28.35
14	NLC Tamilnadu (Tuticorn) Unit-I & Unit II	1000	135.78	131.77	137.84	135.78	135.78	135.78	95.79	39.99
15	NPC-MAPS	440	19.16	18.58	19.45	19.16	19.16	19.16	13.52	5.64
16	NPC-Kaiga Unit-I&II	440	58.50	56.40	59.59	58.50	58.50	58.50	41.27	17.23
17	NPC-Kaiga Unit-III & IV	440	62.36	60.25	63.45	62.36	62.36	62.36	44.00	18.37
18	KKNPP (Kudankulam Nuclear Power Plant) Unit-I	1000	2.37	0.73	3.22	2.37	2.37	2.37	1.67	0.70

S.No.	Generating Station/Unit/Source	Installed Capacity (MW)	Net Capacity TG Share (MW)	FY 2024-25	FY 2025-26			FY 2026-27	TGSPDCL (70.55% share)	TGNPDCL (29.45% share)
				(Actuals)	Apr-Sep (Actual)	Oct-March (Projected)	Apr-March (Projected)	Apr-March (Projected)		
19	KKNPP (Kudankulam Nuclear Power Plant) Unit-II	1000	46.10	46.10	46.10	46.10	46.10	46.10	32.52	13.58
20	NSM Bundled Phase -II	25650	186.61	186.61	186.61	186.61	186.61	186.61	131.65	54.96
21	NVVNL Bundled Power(Coal)	45.81	42.99	42.99	42.99	42.99	42.99	42.99	30.33	12.66
	Total CGS (B):	45339.81	3582.87	3517.81	3576.62	3582.87	3582.87	3582.87	2527.71	1055.15
IPPs & Gas Projects										
(D)	IPPs									
1	Singareni Thermal Power Plant	1200	1131.00	1131.00	1131.00	1131.00	1131.00	1131.00	797.92	333.08
2	Atal Bihari Vajpayee thermal Power Plant, Chattisgarh (formerly Marwa Power Plant) **	1000	947.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	Sembcorp Energy India Limited (SEIL) (269.45 MW)	1320	269.45	269.45	269.45	269.45	269.45	269.45	190.10	79.35
	Total IPPs:	3520	2347.95	1400.45	1400.45	1400.45	1400.45	1400.45	988.02	412.43

S.No.	Generating Station/Unit/Source	Installed Capacity (MW)	Net Capacity TG Share (MW)	FY 2024-25	FY 2025-26			FY 2026-27		
				(Actuals)	Apr-Sep (Actual)	Oct-March (Projected)	Apr-March (Projected)	Apr-March (Projected)	TGSPDCL (70.55% share)	TGNPDCL (29.45% share)
(E)	Gas Projects									
1	Vemagiri	370	193.41	0.00	0.00	193.41	193.41	193.41	136.45	56.96
2	Kona seema***	444.08	231.83	0.00	0.00	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	136.45	56.96
	Total IPP & Gas Projects (C)	4334.08	2773.19	1400.45	1400.45	1593.86	1593.86	1593.86	1124.4682	469.39177
(F)	****Inter-State Hydel Projects									
1	Machkund (TG Share)	84	44.82	0.00	0.00	0	0	0	0.00	0.00
2	TB.Dam (TG Share)	57.6	30.73	0.00	0.00	0	0	0	0.00	0.00
	Total Inter-State Hydel (D)	141.6	75.55	0.00	0.00	0	0	0	0	0
(G)	Total DISCOM contracts (PPAs) without NCE (A+B+C+D+E+F)	60299.75	16293.27	11747.93	13266.48	14982.14	14982.14	14982.14	10569.90	4412.24

S.No.	Generating Station/Unit/Source	Installed Capacity (MW)	Net Capacity TG Share (MW)	FY 2024-25	FY 2025-26			FY 2026-27		
				(Actuals)	Apr-Sep (Actual)	Oct-March (Projected)	Apr-March (Projected)	Apr-March (Projected)	TGSPDCL (70.55% share)	TGNPDCL (29.45% share)
(H)	NCE Projects / Renewable Energy (includes RE projects with injection at 132 KV and above)									
i)	Solar	7116.77	7116.77	5016.75	5438.26	6416.77	6416.77	7116.77	4956.63	2160.14
ii)	Bagasse	75.7	75.7	55.7	55.7	75.7	75.7	75.7	15	60.7
iii)	Industrial Waste	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	0
iv)	Municipal Solid Waste	58.3	58.3	34.3	34.3	58.3	58.3	58.3	58.3	0
v)	Wind	128.1	128.1	128.1	128.1	128.1	128.1	128.1	128.1	0
vi)	Mini Hydel	0	0	0	0	0	0	0	0	0
vii)	Biomass	0	0	0	0	0	0	0	0	0
	Total 132 KV NCE	7386.37	7386.37	5242.35	5663.86	6686.37	6686.37	7386.37	5165.53	2220.84
(I)	Open Access	155.386	143.174	116.359	117.524	121.924	119.724	142.174		
(J)	TRANSMISSION Total Generation Contracts (in MW) (G+ H + I)	67841.50	23822.81	17106.63	19047.86	21790.43	21788.23	22510.68	15735.43	6633.08

Note:

1	* Long Term PPA with TGGENCO project RTS-B (62.5 MW) was expired on 03.06.2024
2	** CSPDCL has stopped declaring capacity to TGDISCOMs from April 2022. In March 2025, CSPDCL filed O.P. No. 24 of 2025 before CSERC, seeking directions to TGDISCOMs to pay outstanding dues. Until the dispute w.r.to outstanding amounts is resolved, it is unlikely that CSPDCL will resume power Supply to TGDISCOMs.
3	*** Long Term PPA with M/S. Konaseema Gas Power Ltd was expired on 29.06.2025
4	**** APSLDC has stopped scheduling power from Inter-State Hydel Projects (Machkund & TB Dam) since 11.06.2017 due to pending payments between APGENCO and TGDISCOMs. The PPA of these projects expired on 31.03.2019. The commission has not considered any availability from these projects in the Retail Supply Business of TGDISCOMs for FY 2024-25 to FY 2028-29 as there is no scheduling of power, Contracted Capacities of these projects are not considered for TGTransco & TGSLDC ATP for FY 2026-27.

PLANS FOR RATIONALISATION OF EXISTING MANPOWER

The Short term and long term plan Initiatives for rationalization of manpower for the Period 2025-27 :

1. 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) In light of the urgent need for rationalizing the manpower, TGTRANSCO issued orders constituting a Committee for revision of workload norms and to study the requirement of additional posts in TGTRANSCO. After a detailed review and field-level analysis, the Committee has submitted its report, proposing an optimal manpower structure and requirement of additional posts for smooth functioning of the transmission network. The said report is under circulation.
- iii) Regular man power is being assessed every year keeping in view the following aspects:
 - Creation of new posts to the newly commissioned SS and lines as per the existing 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.
- iv) Considering all the above measures, Man power Projections in TGTRANSCO for the period from 2025-2027 is arrived as follows:

Sl. No.	FY	Sanctioned	Working Strength	Shortfall
1	2024-25 (Actuals)	5595	3067	2528
2	2025-26 (Projected)	5781	3177	2604
3	2026-27 (Projected)	8742	3950	4792

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 No's Outsourced Personnel as Artisan Grade-I, Grade-II, Grade – III and Grade-IV.
- ii) The Committee constituted for revision of workload norms has recommended that the requirement of Supporting staff can be met by reviving Outsourcing for non-core activities such as typing, housekeeping, Watch & Ward, firefighting etc., Necessary steps will be taken once the report is finalized.

PLANS TO IMPROVE TRANSMISSION SYSTEM PERFORMANCE

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

400 kV lines	1886.60Ckm.
220 kV lines	1800.77Ckm.
132 kV lines	1194.58Ckm.
Total	4881.95Ckm
400 kV sub stations	11 Nos.
220 kV sub stations	23 Nos.
132 kV sub stations	19 Nos.
Total	53 Nos

During the Financial Year i.e., 2024-25 of the 5th Control Period, the following assets were added.

400 kV lines	207Ckm.
220 kV lines	162Ckm.
132 kV lines	194Ckm.
Total	563Ckm
400 kV sub stations	1No.
220 kV sub stations	1No.
132 kV sub stations	1 No.
Total	3 Nos

The transmission system of TGTransco as of March 31, 2025 consists of following:

400 kV lines	7428Ckm.
220 kV lines	10279Ckm.
132 kV lines	12965Ckm.
Total	30672Ckm
400 kV sub stations	29 Nos.
220 kV sub stations	105 Nos.
132 kV sub stations	254 Nos.
Total	388Nos

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.

CAPITAL WORKS COMPLETED DURING FY:2024-25 & ONGOING WORKS

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 400KV,220 KV & 132 KV Sub-stations and connected lines are being executed with the funding from M/s REC, M/s PFC, PSDF (Grant for Reactor), M/S.HUDCO (for Augmentation) 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) 400KV WORKS:

A) Write-up of 400kV Capital Works completed during FY 2024-25

1) KTPP System Improvement Scheme:

- a) 400/220/132kV KTPP (Bhupalapally) Substation - Commissioned with 2x500MVA, 400/220kV ICTs on 19.02.2025.

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

- a) 1 No. 400kV Feeder Bay Extension at 400/220kV Jangaon Substation charged on 20.05.2024.
- b) 1 No. 125MVAR Bus Reactor at 400kV Choutuppall Substation charged on 02.07.2024.
- c) 400kV Yadadri TPP Switchyard - Dindi QMDC Line(103.783KM)-Ckt-I & Ckt-II Commissioned on 30.09.2024 & 01.10.2024 respectively.

3) Reactors Scheme - III :

- a) 1 No. 125MVAR Bus Reactor at 400kV Suryapet Substation charged on 10.04.2024.
- b) 1 No. 125MVAR Bus Reactor at 400kV Narsapur Substation charged on 25.04.2024.
- c) 2 Nos. 125MVAR Bus Reactors at 400kV Dindi Substation charged on 27.04.2024 & 23.10.2024.
- d) 1 No. 80MVAR Bus Reactor at 400kV Asupaka LI Substation charged on 08.05.2024.
- e) 1 No. 125MVAR Bus Reactor at 400kV Jangaon Substation charged on 20.05.2024.
- f) 1 No. 63MVAR Switchable Line Reactor at 400kV Asupaka LI Substation charged on 17.12.2024.

4) Augmentation Scheme-IV (Transformation capacity addition) :

- a) 1 No. 315 MVA, 400/220kV ICT at 400kV Kamalapuram Substation charged on 29.04.2024 (Dismantled ICT from Gajwel 400KV Substation).
- b) 1 No. 315 MVA, 400/220kV ICT at 400kV Asupaka Substation charged on 04.10.2024 (Dismantled ICT from Veltoor 400KV Substation).

B) 400kV On-going Capital Works for 2025-26

1) Yadadri 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 Switchyard - Choutuppal QMDC Line(184.754Ckm) commissioned on 10.09.2025
- b) 400kV Yadadri TPP Switchyard-Jangaon QMDC Line(278 Ckm) : Works are under progress.
 - i) No. of Foundations completed : 397 / 402
 - ii) No. of Towers Erected : 301 / 402
 - iii) Stringing completed (in ckm) : 43.834 / 278

c) 1 No. 400kV Feeder Bay Extension (2nd Bay) at 400kV Jangaon Substation – All works completed and 400kV bay is ready for charging.

2) KTPP System Improvement Scheme :

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

KTPP (Bhupalapally) 400/220/132kV Substation: At present it is decided for erection of 2x100MVA, 220/132kV PTRs (instead of 2x160MVA as originally approved) and 1 No. 100MVA, 220/132kV PTR diverted from 220kV Siddipet Substation is erected and programmed for charging in November, 2025.

1 No. 125 MVAR Bus Reactor at KTPP 400kV Substation – All works completed and programmed for charging in November, 2025.

II) 220/132KV Construction Works:

A. Write up of completed works of 220kV & 132kV Schemes during FY:2024-25

1. 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.
- Funding tie up with M/s PFC Ltd.
- Date of commissioning of line is: 27.02.2025
- Date of commissioning of Substation is: 04.03.2025

2. 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– 16.5kMs
 - (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 Sub station 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 .
- Date of commissioning : 30.12.2024

3. 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, T.O.O amount: Rs.2354.35Crores and the amount for the above work is Rs.65.72 Crores.
- The scheme envisages the following works:
 - (i) 220kV SMDC line from proposed 400/220kV SS Damarcherla 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.
- Date of commissioning: 25.08.2024

4. 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.
- Funding tie up is with M/s.HUDCO Ltd.
- Date of commissioning: 06.01.2025

5. 2nd circuit stringing on existing 132 kV DC/SC line from 132/33 kV Shaligowraram SS to 132/33 kV Mothkur SS in Nalgonda District

- The scheme is formulated for providing second source of supply to 132/33 kV SS Mothkur as 132/33 KV SS Mothkur is being fed by the 132 KV Mothkur - Shaligowraram DC/SC line which is the only source for the sub-station and to maintain reliable and quality of power supply to the consumers in that area of Nalgonda District.
- The administrative approval was accorded vide T.O.O (CE-Construction) Ms. No.1271, Dated:20.12.2021, Amount: Rs.6.53Crores
- The scheme envisages the following works:
 - (i) 2nd circuit stringing on existing 132 kV DC/SC line from 132/33 kV Shaligowraram SS to 132/33 kV SS Mothkur with Panther ACSR conductor-22KM
 - (ii) 132kV Bay Extensions (1 No at 132kV SS Shaligowraram, 1 No at 132/33 kV SS Mothkur
- Funding tie up is with TGTRANSCO funds.
- Date of commissioning : 06.01.2025

6. Making LILO of 132 kV Dharmaram - Godur line to 220/132 KV SS Jagityal in Jagityal District

- The scheme is formulated as the Chief Engineer, Karimnagar Zone has submitted the proposal for making LILO of 132KV Dharmaram-Godur line to 220/132KV SS Jagityal in Jagityal District as the construction of 220 KV SS Kathalapur and making LILO of Godur-Dharmaram line to 220KV SS Kathalapur may take some time and augmentation of PTR capacities at 132/33 kV SS Dharmaram and 132/33 kV SS Godur was approved and works at these substations are under taken. This will further increase load on 132KV RSS - Dharmaram line. The load on 132 KV RSS - Dharmaram line can be limited to safe operating limits if loads of Godur SS are fed from 220KVSS Jagityal. Augmentation of PTR capacities from 3x100 MVA to 3x100 MVA+1x160 MVA was approved at 220KVSS Jagityal. Increased PTR capacity at 220KVSS Jagityal will make feeding loads of 132 KVSS Godur is feasible. For this, making LILO of 132 KV Dharmaram-Godur line to 220KVSS Jagityal is required. Further, 220KV Siddipet-Gajwel lines are now commissioned and if 220 KV Siddipet loads are completely fed from 400/220/132 KV SS Gajwel the power drawal from NTPC to RSS will decrease and power can be drawn to 220KV SS Jagityal to meet 132 KVSS Godur loads even if power cannot be drawn on 220KV Nirmal- Jagityal feeders "to mitigate overloading on 132 kV Gajwel – Chegunta DC line".
- The administrative approval was accorded vide T.O.O (CE-Construction) Ms. No.1590, Dated:14.03.2023, Amount: Rs.5.12 Crores
- The scheme envisages the following works:
 - (i) LILO of 132kv Dharmaram-Godur line to 220/132 KV SS Jagityal in Jagityal District on multi circuit tower with panther ACSR -1KM
 - (ii) 132kv Bay Extensions (2 No's at 220/132 kV SS Jagityal.)
 - (iii) Dismantling of TNS,TND,BOOM & Re-stringing of 132KV Jagityal-Gangadara, Jagityal-Pudur, Jagityal-Jagityal, Jagityal-Korutla line near TT Tower at 220KV SS Jagityal
- Funding : TGTRANSCO funds.
- Date of commissioning : 21.01.2025

7. 132 kV LILO of existing 132 kV Maddur – Makthal DC/SC line to existing newly charged 132/33 kV Narayanpet Sub-Station in Mahaboobnagar District – to meet N -1 Contingency.

- The scheme is formulated "to meet (N-1) Contingency in the Network for ensuring satisfactory Power Supply and to provide an alternate source to 132 KV SS Narayanpet".

- The administrative approval was accorded vide T.O.O (CE-Construction) Ms. No.12, Dated:20.04.2018, Amount: Rs.5.67Crores
- The scheme envisages the following works:
 - (i) LILO of existing 132 kV Maddur – Makthal DC/SC line to existing newly charged 132/33 kV Narayanpet SS with Panther ACSR Conductor-1KM
 - (ii) Erection of 132 KV feeder bays at 132/33 KV SS Narayanpet - 2Nos.
- Funding tie up is with M/s.REC Ltd.
- Date of commissioning : 22.02.2025

B. Write up of Works under progress (ongoing) of 220kV & 132kV Schemes

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.
- Funding tie up is with M/s. REC Ltd.

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 is TST/TS/132 kV SS-Kandukuru/ F-INVST-05/2015.Dt.08.10.2014.
- Funding tie up is with M/s. REC Ltd.

1. 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.
- 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-4KM
 - (iii) 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 is with M/s REC Ltd .

2. 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:

- (i) 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) -13.4KM
 - (ii) 132kV Bay Extensions (1 No at 220/132/33 kV SS Shadnagar & 1 No at 132/33 kV SS Srirangapur)
- Funding from TGTransco funds.

3. 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.
- Funding tie up is with M/s REC Ltd.

4. 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, T.O.O amount: Rs.1412.53Crores and amount for the above work is rs.75.15 crores.
- The scheme envisages the following works:
 - (i) Erection of 220/132/33kV SS Husnabad with 2X100MVA + 2X50 MVA PTRs.
 - (ii) 220kV DC line from 400/220kV Substation Jangon to proposed 220/132/33kV SS Husnabad-60Kms.
 - (iii) 132kV LILO from 132kV Palamakula-Husnabad DC/SC line to proposed 220/132/33kV Substation Husnabad in Siddipet District.-(2Kms.)
- Funding tie up is with M/s PFC Ltd.

5. Erection of 220KV DC line with single Moose conductor from 220/132kVSS Indravelly (Utnoor) 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,T.O.O amount: Rs.1151.05Crores and amount for the above work is Rs.61.86 Crores.
- The scheme envisages the following works
 - (i) 220kV SMDC line from 220/132kV SS Indravelly (Utnoor) to the existing 132/33kV SS Asifabad.-74KMs.
 - (ii) 132kV Bay extensions at /132/33kV SS Asifabad -2No's
- Funding tie up is with M/s REC Ltd.

6. 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 is with M/s REC Ltd.
- 2nd circuit 132 KV Chennur-Kataram line is commissioned on 26.07.2024 and remaining works are in progress.

7. 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 Substation at Koutala(V) & (M) of Komaram Bheem Asifabad District. Approval No.02/2021-22
- Funding tie up is with M/s.HUDCO Ltd.

8. 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.
- Funding tie up is with M/s REC Ltd.

9. Stringing of 2nd circuit from 220/132 KV Kamareddy SS to 132 KVSS Domakonda and from 132 KVSS Domakonda to 132 KVSS Biknur under the program for providing 9.00 Hrs Day Time Supply for Agriculture.

- The scheme is formulated "To overcome the over loading on existing 220/132 kVSS Kamareddy-132/33 kVSS Domakonda line and 132 kV Domakonda - Yellareddypet, it is proposed to provide alternate source of supply to 132 kV SS Domakonda under the program of providing 9 Hrs supply during day time for Agriculture.
- The administrative approval was accorded vide T.O.O (CE-Transmission) Ms. No.162, Dated:26.08.2015. Amount: Rs.8.55 Crores
- The scheme envisages the following works:
 - (i) Stringing of 132 kV 2nd Circuit from 220/132 kV SS Kamareddy to Loc No 33-34 of existing new 132 kV DC/SC line of 132 kV SS Chippapally.
 - (ii) Erection of 132 kV DC/SC line from loc 33-34 of existing new 132 kV DC/SC line of 132 kV SS Chippapally to 132/33 kV SS Domakonda.
 - (iii) Stringing of 132 kV 2nd Circuit from 132/33 kV SS Domakonda to 132/33 kV SS Biknur.

- (iv) Erection of 132 kV Bays (Domakonda - 2 Nos, Kamareddy - 1No and Biknoor - 1 No)
 - Funding tie up is with M/s REC Ltd.
 - Stringing of 2nd circuit on 132 KV Kamareddy-Chippapally line is commissioned on 25.01.2025 and remaining works are in progress.

10. 2nd circuit stringing on existing 132 kV DC/SC line from 220/132/33 kV Kalwakurthy SS to 132/33 kV SS Achampet in Nagarkurnool District

- The scheme is formulated for "providing of 2nd source of supply to the existing 132/33 kV Sub-Station at Achampet to meet N-1 contingency and to reduce overloading on the existing 132 kV Kalwakurthy – Achampet SC line.
- The administrative approval was accorded vide T.O.O (CE-Construction) Ms. No.1151, Dated:13.08.2021.
- The scheme envisages the following works
 - (i) 2nd circuit Stringing on existing 132 kV DC/SC line from 220/132/33 kV Kalwakurthy SS to 132/33 kV SS Achampet.
 - (ii) 132kV Bay Extensions (1 No at 220kV SS Kalwakurthy, 1 No at 132kV SS Achampet)
- Funding tie up is with M/s REC Ltd.

III) AUGMENTATION WORKS:

A. Write up of Works completed and works under Progress (ongoing) during 2024-25 under Augmentation of PTRs:

Sl. No	Name of the substation	Existing PTRs Capacity (in MVA)	Enhancement of PTRs capacity (in MVA)	Increased PTR capacity in MVA	TOO	Estimated cost in Lakhs (Rs.)	Status/ Charged	Remarks
220/132 KV PTRs								
1	220/33 KV HIAL	1x20+1x50	2x50	30			PTR Charged on 1.07.2024	The scheme is formulated to meet the increasing power requirement for Rajiv Gandhi International Airport Hyderabad. Executed as DC
2	400/220/132 KV Narsapur	1x100+1x160	2x100+1x160	100	TOO 792 Dt:26.06.2020	363.69	After construction of 3rd PTR bay, 160MVA PTR was commissioned on 21.10.2024 as per TOO 2031.	The scheme is formulated to meet the expected additional load and also to meet the (N-1) contingency criteria.
		2x100+1x160	3x160	120	TOO 2031 Dt:20.07.2024	1858.13		The scheme is formulated to meet the expected additional load and also to meet the (N-1) contingency criteria.
3	220KV Jurala	3x100	1x100+2x160	120	TOO 1803 Dt:29.09.2023	1868.15	PTRs Charged on 02.02.2025 & 20.06.2025	The scheme is formulated to meet present loads and also to meet future loads.

Sl. No	Name of the substation	Existing PTRs Capacity (in MVA)	Enhancement of PTRs capacity (in MVA)	Increased PTR capacity in MVA	TOO	Estimated cost in Lakhs (Rs.)	Status/ Charged	Remarks
4	220KV Nirmal	3x100	1x100+2x160	120	TOO 1887 Dt:17.01.2024	1858.45	1st 160MVA PTR Charged on 03.02.2025. 2nd 160MVA PTR has to be allotted.	The PTR Maximum loadings have exceeded 80% of capacity and the existing Transformers capacity is not sufficient to meet upcoming loads. Hence, the PTR Augmentation Scheme is formulated.
5	220 KV Mahabubabad	2x100	3x100	100	TOO 1209 Dt:04.10.2021	582.9	PTR Charged on 13.03.2025	The scheme is formulated to avoid over loading of Power Transformers, to meet the future load growth and to maintain high efficiency of power Transformers
6	220/132 KV Shivarampally SS	2x100+2x160	4x160	60	TOO 2272 Dt:18.03.2025	2396.87	PTR Charged on 12.04.2025	The scheme is formulated based on the load conditions and considering future growth
7	220/132KV SS Wanaparthy	2x160	3x160	160	TOO 2001 Dt:18.06.2024	1326.7	3rd 160MVA PTR charged on 01.05.2025	The scheme is formulated to meet upcoming loads

Sl. No	Name of the substation	Existing PTRs Capacity (in MVA)	Enhancement of PTRs capacity (in MVA)	Increased PTR capacity in MVA	TOO	Estimated cost in Lakhs (Rs.)	Status/Charged	Remarks
8	220/132 KV Siddipet SS	2x100+1x160	1x100+2x160	60	TOO 2171 Dt:06.01.2025	1122.97	PTR Charged on 06.07.2025	The scheme is formulated to meet the increase in demand and to meet the future load growth and to avoid overloading of Power Transformers.
9	220/132 KV Banswada SS	2x100	3x100	100	TOO 2000 Dt:18.06.2024	198.33		The scheme is formulated to meet present and upcoming loads.
10	220/132/33KV Peddagopathi SS	2x100	2x160	120	TOO 2002 Dt:18.06.2024	1832.30		The scheme is formulated to meet present & upcoming loads and also to meet (N-1) contingency criteria.
11	220/132 KV Yeddumailaram SS	1x100+2x160	1x100+3x160	160	TOO 2032 Dt:20.07.2024	1229.71		The scheme is formulated to meet upcoming loads and also to meet the (N-1) contingency criteria.

Sl. No	Name of the substation	Existing PTRs Capacity (in MVA)	Enhancement of PTRs capacity (in MVA)	Increased PTR capacity in MVA	TOO	Estimated cost in Lakhs (Rs.)	Status/Charged	Remarks
12	400/220/132/33 KV Raidurg SS	2x160	3x160	160	TOO 2130 Dt:26.11.2024	3582.71		The scheme is formulated in order to meet the contingency and to meet the future load growth.
13	220/132/33 KV Fabcity SS	2x100	3x100	100	TOO 2127 Dt:26.11.2024	279.30		The scheme is formulated to meet the future load growth and to avoid overloading of Power Transformers.
14	220/33 KV Hayathnagar SS	2x100	3x100	100	TOO 2169 Dt:06.01.2025	994.30		The scheme is formulated to meet the future load growth and to avoid overloading of Power Transformers.
15	220/132 KV Bellampally SS	3x100	1x100+2x160	120	TOO 2169 Dt:06.01.2025	2373.79		The scheme is formulated to meet the future load growth and to avoid overloading of Power Transformers.

Sl. No	Name of the substation	Existing PTRs Capacity (in MVA)	Enhancement of PTRs capacity (in MVA)	Increased PTR capacity in MVA	TOO	Estimated cost in Lakhs (Rs.)	Status/Charged	Remarks
16	220/132/33KV Nagarkurnool SS	2x100	3x100	100	TOO 2170 Dt:06.01.2025	379.48		The scheme is formulated to meet the future load growth and to avoid overloading of Power Transformers.
17	220/132 KV Sadasivapet SS	1x100+1x160	2x160	60	TOO 2170 Dt:06.01.2025	1192.24		The scheme is formulated to meet the future load growth and to avoid overloading of Power Transformers.
18	220/132 KV Jangoan SS	2x100+1x160	3x160	120	TOO 2170 Dt:06.01.2025	2373.79		The scheme is formulated to meet the future load growth and to avoid overloading of Power Transformers.
19	220/132 KV Miyapur SS	2x160	3x160	160	TOO 2171 Dt:06.01.2025	1415.25		The scheme is formulated to meet the increase in demand and to meet the future load growth and to avoid overloading of Power Transformers.

Sl. No	Name of the substation	Existing PTRs Capacity (in MVA)	Enhancement of PTRs capacity (in MVA)	Increased PTR capacity in MVA	TOO	Estimated cost in Lakhs (Rs.)	Status/Charged	Remarks
20	220/132 KV Kosigi SS	2x100	2x100+1x160	160	TOO 2171 Dt:06.01.2025	1415.25		The scheme is formulated to meet the increase in demand and to meet the future load growth and to avoid overloading of Power Transformers.
21	220/132 KV Jagityal SS	3x100+1x160	2x100+2x160	60	TOO 2261 Dt:11.03.2025	1224.81		The scheme is formulated in order to meet the existing and upcoming loads and to maintain high efficiency of power Transformers.
22	220/132 KV Siricilla SS	3x100	1x100+2x160	120	TOO 2261 Dt:11.03.2025	2352.82		The scheme is formulated in order to meet the existing and upcoming loads and to maintain high efficiency of power Transformers.

Sl. No	Name of the substation	Existing PTRs Capacity (in MVA)	Enhancement of PTRs capacity (in MVA)	Increased PTR capacity in MVA	TOO	Estimated cost in Lakhs (Rs.)	Status/Charged	Remarks
132/33 KV PTRs								
1	132/33 KV Dharmaram	2x31.5	1x16+2x31.5	16	TOO 856, Dt:03102020	114.67	PTR Charged on 06.04.2024	The scheme is formulated to avoid the overloading of existing Transformers to avoid load relief / avoid power cuts and to meet the growing load demand
2	132/33 KV Mamidipally	1x31.5+1x50	1x31.5+2x50	50	TOO 1053, Dt:07.05.2021	272.8	PTR Charged on 10.05.2024	The scheme is formulated to avoid the overloading of Existing Transformers and to meet the (N-1) contingency criteria
3	220/132/33 KV Bheemgal	1x50+1x80	2x80	30	TOO 1878, Dt:10.01.2024	540.92	PTR charged on 22.06.2024	This scheme is formulated in order to meet the increase in demand and to meet the future load growth and to avoid overloading of Power Transformers.

Sl. No	Name of the substation	Existing PTRs Capacity (in MVA)	Enhancement of PTRs capacity (in MVA)	Increased PTR capacity in MVA	TOO	Estimated cost in Lakhs (Rs.)	Status/Charged	Remarks
4	132/33 KV Lingampet	2x31.5	1x31.5+1x50	18.5	TOO 1879, Dt10.01.2024	16.11	PTR charged on 24.06.2024	This scheme is formulated in order to meet the increase in demand and to meet the future load growth and to avoid overloading of Power Transformers.
5	132/33 KV Sirikonda	1x31.5+1x50	2x50	18.5	TOO 1879, Dt10.01.2024	16.11	PTR charged on 03.07.2024	This scheme is formulated in order to meet the increase in demand and to meet the future load growth and to avoid overloading of Power Transformers.
6	132/33 KV LGM Pet	2x50	1x50+1x80	30	TOO 1879, Dt10.01.2024	540.09	PTR charged on 10.07.2024	This scheme is formulated in order to meet the increase in demand and to meet the future load growth and to avoid overloading of Power

Sl. No	Name of the substation	Existing PTRs Capacity (in MVA)	Enhancement of PTRs capacity (in MVA)	Increased PTR capacity in MVA	TOO	Estimated cost in Lakhs (Rs.)	Status/Charged	Remarks
7	132/33 KV Padmajiwadi	1x16+1x31.5	2x31.5	15.5	TOO 1211, Dt07.10.2021	154.22	PTR charged on 12.07.2024	This scheme is formulated in order to avoid over loading of Power Transformers, to meet the future load growth and to maintain high efficiency of power Transformers.
8	132/33 KV Ganganpally	1x16+1x31.5	1x31.5+1x50	34	TOO 1878, Dt10.01.2024	34.72	PTR charged on 25.07.2024	This scheme is formulated in order to meet the increase in demand and to meet the future load growth and to avoid overloading of Power Transformers.
9	132/33 KV Bhikanoor	1x16+1x31.5	2x31.5	15.5	TOO 1878, Dt10.01.2024	16.11	PTR charged on 26.07.2024	This scheme is formulated in order to meet the increase in demand and to meet the future load growth and to avoid overloading of Power Transformers.

Sl. No	Name of the substation	Existing PTRs Capacity (in MVA)	Enhancement of PTRs capacity (in MVA)	Increased PTR capacity in MVA	TOO	Estimated cost in Lakhs (Rs.)	Status/Charged	Remarks
10	132/33 KV Kothur	3x50	2x50+1x80	30	TOO 1879, Dt:10.01.2024	540.09	PTR charged on 29.08.2024	This scheme is formulated in order to meet the increase in demand and to meet the future load growth and to avoid overloading of Power Transformers.
11	132/33 KV Mustyal	2x50	3x50	50	TOO 1581, Dt:01.03.2023	126.62	PTR charged on 01.10.2024	This scheme is formulated in order to avoid over loading of Power Transformers, to meet the future load growth and to maintain high efficiency of Power Transformers.
12	132/33 KV Ieeza	3x31.5	2x31.5+1x50	18.5	TOO 1879, Dt:10.01.2024	16.11	PTR charged on 05.10.2024	This scheme is formulated in order to meet the increase in demand and to meet the future load growth and to avoid overloading of Power Transformers.
13	132/33KV Huzurabad	2x31.5	1x31.5+1x50	18.5	TOO 2168 Dt:06.01.2025	1112.38	PTR charged on 28.12.2024	Swapping of PTR from 132/33KV SS Manthani.
14	220/132/33KV Janagaon	1x31.5+1x50	2x50	18.5			PTR charged on 28.12.2024	Swapping of PTR from 132/33KV SS Musthyala.

Sl. No	Name of the substation	Existing PTRs Capacity (in MVA)	Enhancement of PTRs capacity (in MVA)	Increased PTR capacity in MVA	TOO	Estimated cost in Lakhs (Rs.)	Status/Charged	Remarks
15	132/33KV Husnabad	3x31.5	2x31.5+1x50	18.5	TOO 2127 Dt:26.11.2024	142.86	PTR charged on 03.01.2025	Swapping of PTR from 220/132/33KV SS Kallur.
16	132/33KV Godur	1x31.5+1x50	2x50	18.5	TOO 2241 Dt:24.02.2025	1193.74	PTR charged on 03.01.2025	Swapping of PTR from 132/33KV SS Jagityal
17	132/33KV Padmanagar	1x16+1x31.5	1x16+1x50	18.5	TOO 2262 Dt:11.03.2025	1718.57	PTR charged on 07.01.2025	Swapping of PTR from 220/132/33KV SS Kallur.
18	132/33KV ZTS Moulali	2x50	1x50+1x80	30			PTR charged on 08.01.2025	Swapping of PTR from 132/33KV GIS Hussain Sagar
19	132/33KV RC Puram	2x50+1x80	1x50+2x80	30	TOO 2133 Dt:26.11.2024	668.41	PTR charged on 09.01.2025	Swapping of PTR from 132/33KV GIS Patigadda
20	132/33KV Siddipet	1x16+1x31.5+1x50	1x16+2x50	18.5			PTR charged on 21.01.2025	Swapping of PTR from 132/33KV SS Thukkapur
21	132/33KV Patancheru	1x16+1x31.5	1x31.5+1x50	34	TOO 2164 Dt:28.12.2024	1077.32	PTR charged on 04.02.2025	Swapping of PTR from 132/33KV SS Medak

Sl. No	Name of the substation	Existing PTRs Capacity (in MVA)	Enhancement of PTRs capacity (in MVA)	Increased PTR capacity in MVA	TOO	Estimated cost in Lakhs (Rs.)	Status/Charged	Remarks
22	132/33KV Sirpurkagaznagar	1x16+1x31.5	2x31.5	15.5	TOO 2133 Dt:28.11.202 4	35.57	PTR charged on 13.02.2025	This scheme is formulated in order to meet the increase in demand and to meet the future load growth and to avoid overloading of Power Transformers.
23	132/33KV DP Pally	1x31.5+1x50	1x31.5+1x50	18.5	TOO 2262 Dt:11.03.202 5	1439.12	PTR charged on 22.02.2025	Swapping of PTR from 132/33KV SS Kodad

B. AUGMENTATION OF LINES

Write up for Strengthening of EHT Lines

(Strengthening of overloaded lines with HTLS Conductor)

Enhancing the power transmission capability of existing overloaded EHT lines on the same towers by replacement of existing ACSR Deer/Zebra/Panther Conductors with equivalent HTLS Conductor along with hardware & accessories and replacements of existing CTs & Isolators at both ends of the line at connected substations. The list of overloaded EHT lines are submitted to NLDC for sanction of grant under Power System Development Fund (PSDF) for which 75% of accepted estimate cost will be sanctioned as grant under PSDF, for this grant no ARRs shall be claimed. Balance portion of scheme expenditure shall be met from TGTRANSCO funds for which ARRs can be filed.

ARRs shall be filed for strengthening of EHT lines executed with TGTRANSCO funds.

IV) LIFT IRRIGATION SCHEMES

Lift Irrigation Scheme Works taken up by TGTRANSCO

under Deposit Contribution Works (FY 2024-25)

TGTRANSCO has taken up construction of Transmission lines and Substations at 132kV, 220kV and 400kV level for extension of power supply to Pumping stations under various Lift Irrigation Schemes which are **funded by I&CAD Department, Govt. of Telangana.**

The Transmission system established under extension of power supply to LI Schemes is included in the Transmission system of TGTRANSCO.

The addition of Transmission network in respect of LI Schemes for FY 2024-25 is as detailed below

Description	2024-25
400kV Lines (CKM)	0
220kV Lines (CKM)	0
132kV Lines (CKM)	0
400kV SS	0
220kV SS	0
132kV SS	0

The addition of Bays in respect of LI Schemes for FY 2024-25 are as detailed below:

Description	2024-25
400kV	4 PGCIL
220kV	0
132kV	0

A) Details of commissioned Sub Stations and Connected Transmission Lines at 400 kV, 220 kV and 132 kV voltage levels under Lift Irrigation Scheme works for FY 2024-25

List of Lines completed during FY 2024-25				
Sl. No	Name of the LIS	Name of the Line	Length (CKM)	Date of Commissioning
-NIL-				

List of Substations completed during FY 2024-25				
Sl. No	Name of the LIS	Sub-station	Date of Commissioning	Remarks
-NIL-				

List of Bays completed during FY 2024-25					
Sl. No.	Name of the work	No. of Bays			Remarks
		400kV	220kV	132kV	
Kaleshwaram Lift Irrigation Project					
1	400 kV Bays at 765/400 kV Nizamabad ss (For 400 kV QMDC Line from Nizamabad to Chandulapur)	4 (PGCIL)	0	0	
	Total	4	0	0	

(B) Details of Ongoing works during FY 2024-25 (Progress as on 31.03.2025)

The ongoing Transmission Lines and Substations in respect of LI Schemes for FY 2024-25 is as detailed below:

Sl. No.	Description	Status
Kaleshwaram Lift Irrigation Schemes		
1.	220/11 kV Manchippa SS & connected 220 kV DC line from Dichpally to Manchippa (48.352 CKM)	Substation: Works are under progress. Line: Tower Foundation: 89/89 Completed Tower Erection: 89/89 Completed Stringing: 24.176 Completed
2.	220/11 kV Yacharam Thanda SS & connected 220 kV DC line from Dichpally to Yacharam Thanda (53.7 CKM)	Substation: Works are under progress. Line: Tower Foundation: 97/97 Completed Tower Erection: 97/97 Completed Stringing: 26.902/26.902 Completed
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)	Substation: Works are under progress. Line: 33 KV Line Tower Foundation: 0/0 Completed Tower Erection: 0/0 Completed Stringing: NIL

Kaleshwaram Lift Irrigation Scheme-Additional TMC Works		
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)	Substation: Works are under progress. Line: Tower Foundation: 62/63 Completed Tower Erection: 0/63 Completed Stringing: 0/20.172 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)	Substation: Works are under progress. Line: Tower Foundation: 132/155 Completed Tower Erection: 118/155 Completed Stringing: 0/40.494 Completed

Sl. No.	Description	Status
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: Works are under progress. Line: Tower Foundation: 18/30 Completed Tower Erection: 0/30 Completed Stringing: 0/9.52 Completed
	(ii) 400kV QMDC Line from 400kV Kachapur Switching station to 400/220/132kV Gajwel SS of line length 9 KM (18 CKM)	Substation: Works are under progress. Line: Tower Foundation: 14/23 Completed Tower Erection: 0/23 Completed Stringing: 0/7.228 Completed
	(iii) LILO of 400kV QMDC Line from Telangana STPP NTPC (2x800MW)- 400/220/132kV Narsapur SS of line length 2 X 2.5 KM (5 CKM)	Substation: Works are under progress. Line: Tower Foundation: 7/13 Completed Tower Erection: 0/13 Completed Stringing: 0/3.908 Completed
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: Works are under progress. Line: Tower Foundation: 0/6 Completed Tower Erection: 0/6 Completed Stringing: 0/2.13 Completed
	(ii) 400kV QMDC Line from 400kV Kachapur Switching station to 400/11kV Namapur (Pegadapally) SS of Line length 19.3 Km. (38.6 CKM)	Substation: Works are under progress. Line: Tower Foundation: 35/46 Completed Tower Erection: 0/46 Completed Stringing: 0/15.14 Completed
	(iii) 400kV QMDC Line from 400kV Velgatoor Switchyard to 400/11kV Namapur (Pegadapally) SS of line length 22.5 Km (45 CKM)	Substation: Works are under progress. Line: Tower Foundation: 58/70 Completed Tower Erection: 0/70 Completed Stringing: 0/21.74 Completed

Sl. No.	Description	Status
5.	400/11KV Velgatoor Substation & connected 400kV QMDC Line from Velgatoor Switchyard to Transformer deck of 3.712CKM.	Substation: Works are under progress. Line: Tower Foundation: 0/13 Completed Tower Erection: 0/13 Completed Stringing: 0/2.1 Completed
b.	400kV QMDC Line from 400kV Kachapur Switching station to 400/11kV Velgatoor SS of Line length 26 Km. (52 CKM)	Substation: Works are under progress. Line: Tower Foundation: 67/76 Completed Tower Erection: 66/76 Completed Stringing: 0/24.70 Completed
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: Works are under progress. Line: Tower Foundation: 18/18 Completed Tower Erection: 16/18 Completed Stringing: 0/5.1 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: Works are under progress. Line: Tower Foundation: 30/30 Completed Tower Erection: 30/30 Completed Stringing: 9.548/9.548 Completed
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)	Substation: Works are under progress. Line: Tower Foundation: 211/278 Completed Tower Erection: 0/278 Completed Stringing: 0/93.998 Completed
9.	New Tukkapur 400/11KV SS	Substation: Works are under progress.

V) PRLI SCHEMES

Completed works and works under progress during 2024-25 under PRLIS:

Palamuru – Rangareddy Lift Irrigation Scheme Works taken up by TGTRANSCO under Deposit Contribution Works (FY 2024-25):

TGTRANSCO has taken up construction of Transmission lines and Substations at 400kV level for extension of power supply to Pumping stations under Palamuru-Rangareddy Lift Irrigation schemes which are **funded by I&CAD Department, Govt. of Telangana.**

The Transmission system established under extension of power supply to LI Schemes is included in the Transmission system of TGTRANSCO.

(A) The addition of Transmission network in respect of PRLIS Schemes for FY 2024-25 is as detailed below:

Description	2024-25
400kV Lines (CKM)	0
220kV Lines (CKM)	0
132kV Lines (CKM)	0
400kV SS	0
220kV SS	0
132kV SS	0

The addition of Bays in respect of PRLIS Schemes for FY 2024-25 are as detailed below:

	TSTRANSCO	LIS
Description	2024-25	
400kV	0	1
220kV	0	0
132kV	0	0

(B) Details of Ongoing works during FY 2024-25

The ongoing Transmission Lines and Substations in respect of PRLI Schemes for FY 2024-25 is as detailed below:

Substations & Bays:

SI.No	Scheme	Name of the Substation	Status of works
1	PRLIS	400/11kV Narlapur LISS	80% of the works completed and Substation charged on 12.09.2023. Balance 20% of erection works are in progress.
2	PRLIS	2Nos.400kV Bays at Veltoor SS.	All erection works are completed and SAS integration works are in progress.

SI.No	Scheme	Name of the Substation	Status of works
3	PRLIS	400/11kV Uddandapur SS	Site handed over to the Contractor on 10.12.2022 but due to severe ROW issue and protests from Villagers due to non-payment of compensation and R&R, the works were held up since 07.11.2023. The works have recommenced on 07.12.2024 after partially resolving the ROW and are in progress.
4	PRLIS	2Nos.400kV Bays at Vattem SS.	All works are nearing completion

Transmission Lines:

SI.No	Scheme	Line	Distance (CKM)	Status of works
1	PRLI Scheme	400kV QMDC line from Veltoor to Yedula.	93.602	All works are completed and ready for charging.
2	PRLI Scheme	400kV QMDC line from Maheswaram to Uddandapur.	120.49	All works completed except stringing of line from TT to Gantry at Uddandapur SS.
3		400kV QMDC line from Vattem to Uddandapur.	68.279	All works completed except stringing of line from TT to Gantry at Uddandapur SS.

(C) Details of Completed works during FY 2024-25

The completed Transmission Lines and Substations in respect of PRLI Schemes for FY 2024-25 is as detailed below:

Substations & Bays:

Sl.No	Scheme	Name of the Substation
1	PRLIS	1no.25MVA,400/11kV Station Transformer (Toshiba Make) charged at 400/11kV Vattem LI Substation on 05.10.2024

VI) RMI SCHEMES

Write up for RMI Works

- 1) 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: 2024-25 for an amount of Rs.48.00 Crores vide T.O.O.CE(Transmission) Ms.No.2244, Dt.28.02.2025 was issued
- 2) 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.
- 3) Following works have been included under RMI 2024-25 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.

VII) NON-PLAN WORKS

Write up for Non-Plan Works

- 1.The Capital works which were not covered in the investment plan but necessary to carrying out are proposed in the Non-Plan Budget
2. Certain de-centralized material defined as capital in SAP is proposed to procure under non plan capital Budget

PERFORMANCE MEASURES

A) NUMBER AND DURATION OF SUPPLY INTERRUPTIONS

Number and duration of supply interruptions on transmission networks during FY:2024-25 (for 400kV, 220 kV and 132 kV):

Year	EHT line voltage	No. of interruptions	Total time of interruptions (Hrs)	Avg. Duration Per Interruption (Hrs)
2024-25	400kV	22	233.933	Beyond 2 Hrs. (10.171)
	220kV	54	641.633	Beyond 2 Hrs. (11.88)
	132kV	110	1116.467	Beyond 2 Hrs. (10.14)

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 year 2024-25 works out at 99.98%.

B). **Transmission System Availability during 2024-25:**

The details of the line availability for the year 2024-25 are shown in the table below.

Sl. No.	Financial year	Transmission System Availability
1	2024-25	99.98%

Target Transmission System Availability projected for FY 2025-26& FY 2026-27 :

Sl. No.	Financial year	Target System Availability
1	2025-26	99.9%
2	2026-27	99.9%

C) Major Grid Disturbances / Incidents occurred during the year 2024-25.

I. Major Grid Disturbance(s)/Incident(s)occurred during the year 2024-25

Complete outage of 400/11kV Medaram LIS on 10-03-2025 at 16:02 Hrs.

Prior to the incident, 400KV Medaram-Ramadugu-2 feeder is under L/C for relay testing at 400/11KV Medaram SS. No pumps are running during the tripping incident.

At 16:02 Hrs,400KV Medaram-Ramadugu-I feeder tripped at Medaram end only on operation of 86 Master trip relay.

Master trip relay operated during the opening of relay panel door due to loose wiring, causing extension of DC supply to master trip relay. Thereby there was complete outage of 400/11KV Medaram substation.

Performance Measures:

Loose wiring is rectified after the tripping incident on 10-03-2025

D) PERIODS WHEN FREQUENCY WAS BEYOND PRESCRIBED LIMITS DURING FY:2024-25

The details of frequency in Average, Maximum, Minimum and % time experienced during FY-2024-25 is shown below

Month	Average	Maximum		Minimum	
	HZ	HZ	Date	HZ	Date
Apr-24	50.00	50.43	18 th	49.56	06 th
May-24	50.01	50.46	07 th	49.72	11 th
Jun-24	50.00	50.67	17 th	49.63	16 th
Jul-24	50.00	50.37	06 th	49.64	22 nd
Aug-24	50.01	50.45	27 th	49.56	13 th
Sep-24	50.00	50.39	14 th	49.46	18 th
Oct-24	50.00	50.39	25 th	49.59	16 th
Nov-24	50.00	50.32	02 nd	49.55	27 th
Dec-24	50.00	50.42	15 th	49.49	22 nd
Jan-25	50.00	50.31	26 th	49.6	05 th
Feb-25	50.00	50.34	24 th	49.55	19 th
Mar-25	50.00	50.46	05 th	49.62	30 th
Year	50.00	50.67	17.06.2024	49.46	18.09.2024

Month	<49.90 Hz	IEGC BAND (49.90-50.05 Hz)	>50.05 Hz
Apr-24	5.25	78.56	16.19
May-24	2.46	80.29	17.24
Jun-24	4.50	79.18	16.32
Jul-24	6.41	78.42	15.17
Aug-24	4.66	75.01	20.33
Sep-24	6.09	77.12	16.78
Oct-24	4.86	80.27	14.87
Nov-24	5.15	80.8	14.05
Dec-24	5.58	76.45	17.97
Jan-25	5.27	76.22	18.51
Feb-25	6.25	75.34	18.41
Mar-25	5.32	77.89	16.79
Average	5.15	77.96	16.89

E. VOLTAGES OF TS SYSTEM FOR 2024-25 AS PER SCADA DATA

Voltages recorded at some of the Generating Stations, Grid sub-stations and Tail-end sub-stations on 20.03.2025, the date on which the State Peak Demand Met i.e.,17162 MW are as tabulated below.

Voltages profile at various Generating Stations as on 20.03.2025

400kV Level

S.NO	STATION NAME	00:00	08:00	19:00	Max	Min
1	Bhoopalapally (KTPS)	412.86	408.28	417.56	419.44	404.86
2	BTPS	409.80	410.02	415.00	415.95	406.13
3	KTPS-VI	415.61	415.89	422.77	424.31	410.85
4	KTPS-VII	412.12	411.60	418.26	419.96	407.12
5	SINGARENI	415.78	413.23	416.44	418.03	409.98
6	SRSALLAM	412.58	411.71	417.40	419.83	406.91

220kV Level

S.NO	STATION NAME	00:00	08:00	19:00	Max	Min
1	KTPS-V	230.29	228.33	232.79	234.43	226.45
2	Lower Jurala	220.88	209.87	225.67	228.81	205.33
3	U.Jurala	218.17	205.68	222.56	226.20	201.02

132kV Level

S.NO	STATION NAME	00:00	08:00	19:00	Max	Min
1	N'Sagar	138.32	135.97	141.60	142.47	133.30

Voltages profile at various 400kV Substations as on 20.03.2025

S.NO	STATION NAME	00:00	08:00	19:00	Max	Min
1	Asupaka	413.02	410.77	418.44	420.25	406.37
2	Chandlapur	410.16	406.96	417.01	418.99	400.43
3	Dichipally	414.94	408.23	422.89	424.97	399.93
4	Dindi	407.97	408.77	414.83	418.05	403.16
5	Gajwel	412.62	404.95	418.96	418.96	400.15
6	Jangaon	413.33	407.53	420.56	420.56	403.68
7	Julurupadu	416.56	415.14	421.13	421.32	410.26
8	Kethireddypalli	410.09	410.09	410.09	410.09	410.09
9	Mahboobnagar	408.45	402.52	414.92	419.16	396.38
10	Maheshwaram	408.57	408.20	415.37	418.72	400.62
11	Mamidipally	406.68	406.28	413.57	418.33	398.30
12	Malkaram	418.1	414.5	420.00	424.1	404.3
13	Medaram	413.17	408.43	417.52	419.47	403.65
14	Narsapur	410.39	405.31	416.05	418.13	400.17
15	Nirmal	416.38	407.48	422.24	424.18	400.81
16	Ramadugu	413.75	408.78	418.09	419.97	404.02
17	Shankarpally	406.71	405.20	413.73	417.15	397.06

S.NO	STATION NAME	00:00	08:00	19:00	Max	Min
18	Sundila	415.60	412.96	417.26	418.71	408.31
19	Suryapet	414.92	413.24	411.51	420.73	408.41
20	Tukkapur	410.82	407.81	417.24	420.05	400.63
21	Tippapur	412.27	408.52	417.65	420.03	402.57

Voltages profile at various 220kV Major substations as on 20.03.2025

S.NO	STATION NAME	00:00	08:00	19:00	Max	Min
1	Bonglur	224.59	225.83	226.56	228.84	216.81
2	Bommakal	227.45	214.13	231.37	232.80	211.37
3	Bheemgal	222.85	222.85	228.76	230.77	215.46
4	Bheemghanapur	226.69	214.27	230.74	232.38	211.74
5	Bhongir	221.34	217.08	226.37	228.44	213.54
6	Bellampally	231.38	221.32	234.05	235.84	217.52
7	Bramahmanakotkur	223.81	223.11	223.11	224.08	220.1
8	Budidampad	228.35	223.71	231.91	233.16	221.41
9	Chalakurthy SS	228.47	226.19	231.73	233.32	220.72
10	Dichpally	228.77	219.83	233.44	234.96	215.40
11	Dindi	233.06	218.6	217.25	231.87	214.6
12	Durshed	226.19	211.56	230.94	232.34	208.83
13	Erragadda	224.59	222.17	226.19	229.12	213
14	Fabcity	223.05	220.85	225.87	220.17	215.60
15	Hial	221.18	219.26	224	226.26	214.17
16	Hayathnagar	225.08	223.35	228.52	230.93	218.19
17	Huzurabad	230.17	211.43	232.87	232.87	211.43
18	Ghanapur	225.63	223.22	228.32	230.68	216.84
19	Gangaram	226.07	213.49	215.27	231.53	211.04
20	Imlibun	223.40	220.82	225.77	227.95	215.44
21	Jagityal	234.18	220.30	237.73	239.02	217.25

S.NO	STATION NAME	00:00	08:00	19:00	Max	Min
22	Jurala	214.55	202.79	219.14	222.59	197.13
23	Kalwakurthy	218.60	211.77	226.89	229.74	206.96
24	Kollur	227.52	222.75	229.74	229.74	222.70
25	Kompally	214.34	211.63	223.85	226.13	205.75
26	Kamareddy	219.92	204.82	227.66	227.93	199.32
27	Kondapaka	221.73	211.8	229.17	230.82	207.32
28	Madugula	219.37	216.16	224.18	226.32	212.66
29	Mahabubnagar	220.79	210.99	226.2	229.02	206.98
30	Medchal	218.87	225.64	222.41	224.67	209.84
31	Medaram	232.33	236.95	235.67	237.16	220.65
32	Mamidipally	234.08	222.74	227.38	250.01	217.27
33	Miyapur	223.45	219.24	224.41	225.67	213.66
34	Malyalapally	230.08	222.43	233.41	234.99	219.29
35	Manuguru	228.27	226.81	231.4	233	224.09
36	Miryalaguda	223.83	223.05	224.35	225.5	217.12
37	Minpur	220	220	220	220	220
38	Moulali	220.79	222.38	227.73	230.24	216.24
39	Murmur	230.79	221.73	234.11	235.35	218.24
40	Nagole	224.23	221.35	231.83	230.54	210.05
41	Nagaram	228.23	216.61	231.83	233.55	206.48
42	Narketpally	218.27	216.20	228.13	230.09	211.70
43	Nirmal	229.33	218.67	232.88	234.06	214.79
44	Osmania	225.93	222.96	228.75	231.14	217.01
45	Parigi	218.46	211.14	222.06	225.60	200.03
46	Peddagopathi	226.86	221.70	229.34	229.34	220.39
47	Pullakurthy	231.10	218.33	234.96	237.12	215.67
48	Pulyathanda	225.21	222.99	228.70	229.86	218.03
49	Puttangadi Thanda	226.19	223.76	229.52	230.67	218.82

S.NO	STATION NAME	00:00	08:00	19:00	Max	Min
50	Shadnagar	217.60	214.63	220.88	223.14	207.71
51	Shamshabad	221.71	219.19	224.28	227.09	212.74
52	Salivagu	228.58	216.29	232.27	234.04	213.58
53	Siricilla	229.59	213.86	232.97	234.61	210.73
54	Sadasivapet	204.60	201.42	211.91	214.16	195.14
55	Sithapuram	221.60	220.3	226.80	228.19	216.14

F. BOUNDARY METERS:

List of boundary points as on 31.07.2025:

A)

T-D				
SI.No.	DISCOM	Metering Point Type	No. of metering points	Discom Total
1	TGSPDCL	PTR LVs	380	692
2		EHT Consumers	138	
3		G-D	15	
4		D-D	4	
5		PDs (33kV, 11kV)	155	
6	TGSPDCL	PTR LVs	276	455
7		EHT Consumers	109	
8		G-D	16	
9		D-D	17	
10		PDs (33kV, 11kV)	37	
T-D Total (A)				1147

B)

G - T		
SI.No.	Metering Point Type	No. of Metering Points
1	TGGENCO -TGTRANSCO	66
2	CTU	90
3	CPPs	26
4	IPPs	4
5	132kV EHT PDs	59
G-T Total (B)		245
Grand Total (A+B)		1392

G. FATAL AND NON-FATAL ACCIDENTS DURING FY:2024-25

Number of reported fatal and non-fatal accidents, differentiating between accidents involving humans and those involving animals.

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.

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

ACCIDENTS	2019-20	2020-21	2021-22	2022-23	2023-24	Total
FATAL						
Humans	1	2	0	2	2	7
Animals/Others	0	0	0	0	0	0
NON FATAL						
Humans	7	3	1	4	1	16
Animals/Others	0	0	0	0	0	0

The Details of Accidents recorded on EHT System in TGTRANSCO for FY 2024-25 of 5th control period are given in Table-II and details of accidents are given in Table-III

Table-II):

ACCIDENTS	Hyderabad Metro Zone	Hyderabad Rural Zone	Warangal Zone	Karimnagar Zone	Total
FATAL					
Human	0	0	1	0	1
Animals/Others	0	0	0	0	0
NON FATAL					
Human	0	0	3	0	3
Animals/Others	0	0	0	0	0

Total 1 No. Fatal accident and 03 Nos. non-fatal accidents were reported in FY 2024-25.

Table-III:**Details of Fatal/Non-fatal electrical accidents (Departmental/Non-Departmental) in TGTRANSCO for FY 2024-25**

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			
FATAL:									
1	Warangal	132/33KV SS Narsampet Warangal District	21.11.2024	Dept.	Fatal	Human	At 132KV Narsampet Substation, after D. Ravinder, Artisan Gr-II, finished scrubbing the rusted portion of the CT bottom, G. Krishna, Artisan Gr-I, unknowingly climbed the structure. While descending, he entered the induction zone of an adjacent bay ie., 33KV Nallabelly feeder, which resulted a fatal accident to G. Krishna, Artisan Gr-I accident.	He was immediately taken into MGM Hospital, Warangal for first aid then to Yashoda hospital, Malakpet for further treatment.	*Rs. 14,41,050/- sanctioned vide T.O.O(Jt.Secy-per) Ms.No.2197, Dt:30.01.2025 under workmen compensation act, 1923. * Rs.20,000/- sanctioned vide Memo.No.SE/OM C/Wgl/AO/AAO/J AO/D.No.1664/24, Dt:21.12.2024 for funeral charges

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			
NON-FATAL									
2	Warangal	220/132/33KV SS Warangal Warangal District	04.05.2024	Dept.	Non-Fatal	Human	At 220KV Warangal Substation, K. Anusha, JLM/SMG/Warangal, was cleaning the 220V Battery Bank set-A. During this task, a metal bangle/bracelet she was wearing came into contact with cell No. 9 of the battery bank, causing sparks. As a result, she sustained burns on her right hand palm and wrist.	She was immediately taken into MGM Hospital, Warangal for first aid then to Blue line hospital, Hanamkonda for further treatment.	---
3	Warangal	220KV Jnagaon-Waddekothapally ckt-III line at Loc.No.360 At Edunuthala(Vill) , Jangaon (District)	06.05.2024	Dept.	Non-Fatal	Human	While attending breakdown works on 220KV Jangaon-Waddekothapally Ckt-III at Loc.No.360(CP) T. Ashok, JLM/CBD gang, was injured. He was working to remove a snapped earth wire under high tension between towers when the wire suddenly broke and fell, striking him and causing a fractured shoulder.	He was immediately taken into Palakurthy Haritha Hospital, Warangal for first aid then to Vinuthna hospital, Jangaon for further treatment.	---

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			
4	Khammam	220 ASUPAKA - LSR line near Chennapuram village B/W loc nos:386-387 (i.e dense forest area)	19.11.2024	Dept.	Non-Fatal	Human	On 19/11/2024 , while performing tree cutting between location numbers between Loc.No's. 386-387 (a dense forest area) on the 220 ASUPAKA - LSR line near Chennapuram village, Line Gang observed a tree close to the line and they began cutting the tree with four team members and a wood-cutting machine, taking all necessary precautions. As the tree fell, the attached creepers and bushes entered the induction zone. All gang members immediately moved away from the work spot. Unfortunately, a creeper slightly touched the left arm of Sri P. Saran Kumar, ID No: 1073782, JLM/CBD gang/ASUPAKA, causing him to lose consciousness.	Due to this impact he was unconscious. After some time he regained consciousness shortly after and was immediately transported to the Government Hospital, Palwancha. The doctor examined him, provided treatment, and confirmed his health condition was normal.	---

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 from 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 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.

H) 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.,