



Telangana State Electricity Regulatory Commission

5th Floor, Singareni Bhavan, Red Hills, Lakdi-ka-pul, Hyderabad 500 004

**ORDER
ON**

**Approval of Resource Plan for 5th Control Period for FY 2024-25 to FY
2028-29 and 6th Control Period for FY 2029-30 to FY 2033-34**

FOR

**Transmission Corporation of Telangana Limited
(TSTRANSCO)**

29th December.2023

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LIST OF ABBREVIATIONS

4 th Control Period	Comprising five (5) years from FY 2019-20 to FY 2023-24
5 th Control Period	Comprising five (5) years from FY 2024-25 to FY 2028-29
6 th Control Period	Comprising five (5) years from FY 2029-30 to FY 2033-34
APGPCL	Andhra Pradesh Gas Power Corporation Limited.
CAGR	Compound Annual Growth Rate
CEA	Central Electricity Authority
CGS	Central Generating Station
ckm	circuit kilometre
DISCOMs	Distribution Companies
DPR	Detailed Project Report
EHT	Extra High Tension
EPS	Electric Power Survey
EV	Electric Vehicle
GHMC	Greater Hyderabad Municipal Corporation
HES	Hydroelectric Power station
IPP	Independent Power Producer
KTPS	Kothagudem Thermal Power Station
KTPP	Kakatiya Thermal Power Station
MU	Million Units
MVA	Megavolt-amperes
MVAR	Megavolt-amperes (Reactive)
NCE	Non-Conventional Energy
NTPC	National Thermal Power Corporation
PPA	Power Purchase Agreement
PTR	Power Transformer
STPP	Singareni Thermal Power Plant
SS	Sub-Station
T&D	Transmission and Distribution
TMC load	Thousand Million Cubic
TPP	Thermal Power Plant
TPCIL	Thermal Powertech Corporation India Ltd
TSERC	Telangana State Electricity Regulatory Commission
TSGENCO	Telangana State Power Generation Corporation Limited
TSSPDCL	Telangana State Southern Power Distribution Company Limited
TSNPDC	Telangana State Northern Power Distribution Company Limited
TSTRANSCO	Transmission Corporation of Telangana Limited



TELANGANA STATE ELECTRICITY REGULATORY COMMISSION
5th Floor, Singareni Bhavan, Red Hills, Lakdi-ka-pul, Hyderabad 500 004

Present

Sri T. Sriranga Rao, Chairman
Sri M. D. Manohar Raju, Member (Technical)
Sri Bandaru Krishnaiah, Member (Finance)

Dated 29.12.2023

O. P. No. 09 of 2023 & I.A. No. 06 of 2023

Transmission Corporation of Telangana Limited

... Petitioner

The Transmission Corporation of Telangana Limited (TSTRANSCO) has filed a Petition as per Regulation No. 2 of 2015, "TSERC (Conduct of Business) Regulation, 2015" and Section 94(1)(f) and 62 of Electricity Act, 2003 read with TSERC (1st Amendment to Regulation No.2 of 2016, Levy of Fees for various services rendered by the Commission) Regulation, 2022 and TSERC (Adoption) Regulation No. 1 of 2014, for approval of Revised Resource Plan for 5th Control Period (FY 2024-25 to FY 2028-29) and 6th Control Period (FY 2029-2030 to FY 2033-34).

The Commission, in exercise of the powers under the Electricity Act, 2003 (EA 2003), and Regulation No.5 of 2005 adopted by TSERC vide its Regulation No.1 of 2014, along with the Petitioner's submissions, objections and suggestions of the stakeholders, responses of the Petitioner to the same, issues raised during the Public Hearing and all other relevant material, approves the Revised Resource Plan for TSTRANSCO for the 5th Control Period from FY 2024-25 to FY 2028-29 and 6th Control Period from FY 2029-30 to FY 2023-34 as under.

ORDER

CHAPTER 1

INTRODUCTION

1.1. Background

1.1.1. Telangana State Electricity Regulatory Commission (hereinafter referred to as TSERC or Commission) was constituted by the Government of Telangana State (GoTS) in terms of the provisions of Schedule XII(C) (3) of the A.P. Reorganization Act of 2014, read with Section 82 of the Electricity Act, 2003 (Act) vide G.O.Ms.No.3, Energy (Budget) Department, dated 26.07.2014.

1.1.2. This Commission having been established u/s 82(1) of the Act, 2003 is required to exercise the powers and functions vested in it in terms of Section 86 and Section 62(1) of the Act, 2003 to determine the tariff for (1) supply of electricity by a generating company to a distribution licensee; (2) transmission of electricity; (3) wheeling of electricity; and (4) retail sale of electricity as the case may be within the State of Telangana.

1.1.3. The Commission issued Regulation No. 1 of 2014, on 10.12.2014 being Adoption of Previously Subsisting Regulations, Decisions, Directions or Orders, Licenses and Practice of Directions. Clause 2 of this Regulation specifies as follows:

“All regulations, decisions, directions or orders, all the licences 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.”

1.1.4. In accordance with the above Regulation, all the Regulations framed by the erstwhile Andhra Pradesh Electricity Regulatory Commission (APERC) will

continue to apply for the State of Telangana, till further modification.

- 1.1.5. Consequent upon formation of the Telangana State, the Government of erstwhile Andhra Pradesh vide G. O. Ms. No. 25 dated 29.05.2014 had established TSTRANSCO. The erstwhile APERC had issued the License No. 1 of 2014 to TSTRANSCO w.e.f. 23.06.2014.
- 1.1.6. The adopted Regulation No.5 of 2005 of APERC (Terms and Conditions for determination of Tariff for Transmission of Electricity) specifies that Transmission Licensee in the State of Telangana is required to file a Resource Plan before the Commission for the entire duration of Control Period and before the commencement of the Control Period. The relevant Clauses 9 of the Regulation No.5 of 2005 has been reproduced below:

“9 RESOURCE PLAN

The Transmission Licensee shall for Commission’s approval, file a Resource Plan on 1st April of the year preceding the first year of the Control Period.

9.1 The Resource Plan shall inter alia, contain the Load Forecast and a Transmission Plan (Capital Investment Plan) consistent with the requirements of the Guidelines on Load Forecast and Resource Plan as approved by the Commission from time to time: Provided that the Resource Plan for the first Control Period may be filed along with the Multi-year filings for ARR of the first Control Period.

9.2 The Commission shall approve the Resource Plan as per the Guidelines on Load Forecast, Resource Plan (Transmission Plan) and the Transmission Licensee shall adopt them in the Multi-Year filings for the Control Period.”

1.2. Admission of the Petition and Regulatory Process

- 1.2.1. The Petitioner vide letter dated 31.03.2023 has submitted the Resource Plan for the 5th Control Period and 6th Control Period to the Commission. The Commission found the filings in order as required under the Conduct of Business Regulation No. 02 of 2015. The Commission has admitted the filings and the same were taken on record by assigning **O. P. No. 09 of 2023**. Thereafter, the Commission vide letter dated 07.06.2023 sought additional information from the Petitioner.

- 1.2.2. The Petitioner vide letter dated 15.07.2023 requested the Commission to postpone the public hearing scheduled on 19.07.2023 and sought extension of time for submission of Revised Resource Plan for 5th Control Period and 6th Control Period. Further, the Petitioner communicated to the Commission that Petitioner shall be filing the Revised Resource Plan in line with the DISCOM filings accompanied by an Interlocutory Application (IA) along with load flow study report.
- 1.2.3. The Petitioner has filed the Interlocutory Application in O.P No. 09 of 2023 for Revised Resource Plan for 5th Control Period and 6th Control Period and load flow study report on 23.08.2023 to the Commission. The Commission found the filings in order as required under the Conduct of Business Regulation No. 02 of 2015 and the same was taken on record by assigning I.A No. 06 of 2023.
- 1.2.4. The Petitioner in the Revised Resource Plan for 5th Control Period and 6th Control Period has made the following prayers:-
- “To take the instant Interlocutory Application & the accompanying revised Resource Plan Petition filed by TSTRANSCO, on record.*
- To approve the Resource Plan for the 5th Control Period (FY 2024-25 to FY 2028-29) and 6th Control Period (FY 2029-30 to FY 2033-34).*
- To set the deadline for submission of Resource Plan petition of the Transmission Licensee (TSTRANSCO) 2 months later from that of Discoms filings, from the next Control Period onwards.*
- To grant suitable opportunity to TSTRANSCO within a reasonable time frame to file additional information as required.*
- To pass such an order as the Hon'ble Commission may deem fit and proper in the facts and circumstances of the case”*
- 1.2.5. The Commission has admitted the I.A No. 06 of 2023 and upon scrutiny of the filings of the Petitioner on Revised Resource Plan identified certain data gaps/ additional information requirement and vide E-mail dated 05.10.2023 directed the Petitioners to furnish the additional information. As directed by the Commission, the Petitioner furnished the additional information vide letter dated 06.11.2023 and placed the same on its website.

1.3. Public Notice

- 1.3.1. The Petitioner, in conformity with the Commission's directions, issued Public Notice (Annexure -2) for inviting comments and suggestions of the stakeholders on the filing of the Revised Resource Plan for 5th Control Period (FY 2024-25 to FY 2028-29) and 6th Control Period (FY 2029-30 to FY 2033-34) in two (2) English, two (2) Telugu and one (1) Urdu daily newspapers on 17.09.2023. The Petitioner made the filing (along with its supporting material) available for the public at large on payment of printing cost only. Also, the filing (along with supporting material) was hosted by the Petitioner as well as the Commission on their respective websites.
- 1.3.2. Initially, the objections/suggestions on the filing were to be filed before the Commission by 15.06.2023. However, in consideration to the request from stakeholders, the Commission extended the last date of submitting the objections/suggestions on the filing to 06.10.2023 and issued the Public Notice with revision in timelines in the daily newspapers on 17.09.2023.

1.4. Response to the Public Notice

- 1.4.1. In response to the Public Notice, two (2) stakeholders have submitted their Objections/Comments on the filing of Revised Resource Plan for 5th Control Period (FY 2024-25 to FY 2028-29) and 6th Control Period (FY 2029-2030 to FY 2033-34). The list of stakeholders who has submitted written objections/suggestions is enclosed at **Annexure-3**.
- 1.4.2. The Petitioner was directed to furnish reply to objections/suggestions of stakeholders in writing. The objections/suggestions of stakeholders and reply of Petitioner corresponding to the same were posted on the website of both the Petitioner as well as the Commission.

1.5. Public Hearing

- 1.5.1. The Commission conducted the Public Hearing at the Commission Court Hall on 08.11.2023 in attendance of the Petitioner, the Respondents and the other interested stakeholders. During the Public Hearing, the Petitioner made a brief submission on its filings and then the Commission heard the Respondents and other stakeholders desiring to be heard in person. At the end, the Petitioner

responded on the issues raised by the objectors and on directions of the Commission filed a written submission regarding the same.

1.6. Data Gaps and Petitioner's Responses

1.6.1. During scrutiny of Revised Resource Plan of the Petitioner as well as based on objections raised by the stakeholders, certain information was found to be deficient in certain aspects and therefore, additional information was sought. Subsequently, the Petitioner on 06.11.2023 submitted the additional information sought by the Commission. The Commission has considered the original filings and additional information submitted by the Petitioner.

1.7. Approach of the Order

1.7.1. Regulation No.5 of 2005 (Terms and Conditions for determination of Tariff for Transmission of Electricity) provides for approval of Resource Plan of TSTRANSCO for a period of five years or for a duration of at least entire Control Period. The Commission has undertaken approval of Revised Resource Plan for the 5th Control Period and 6th Control Period in accordance with Regulation No. 5 of 2005.

CHAPTER 2

SUMMARY OF TSTRANSCO REVISED RESOURCE PLAN PETITION FOR 5th CONTROL PERIOD AND 6th CONTROL PERIOD

2.1. TSTRANSCO's Submission

2.1.1. Petitioner in its filing and additional submission has requested the Commission to approve the Resource Plan of TSTRANSCO for 5th Control Period (FY 2024-25 to FY 2028-29) and 6th Control Period (FY 2029-30 to FY 2033-34).

2.1.2. The Petitioner has submitted the Revised Resource Plan for the Commission approval as per Clause 9 of Regulation 5 of 2005. The Revised Resource Plan consists of the following:-

- a) Consolidated Sales and Load Forecast
- b) Transmission Loss Trajectory
- c) Consolidated Power Procurement Plan
- d) Capital Investment Plan (Transmission plan) of TSTRANSCO for 5th Control Period and 6th Control Period.

2.1.3. The Petitioner in the Petition has submitted that the major loads and generation plants in the State are as follows:-

Major Lift Irrigation schemes:

a) Existing:

- ❖ Kaleshwaram Lift Irrigation Loads (including Link-I of additional 1 TMC loads) - 5068 MW.
- ❖ Flood Flow Canal Loads - 156 MW.
- ❖ Sita Rama Lift Irrigation loads - 650 MW.

b) Proposed:

- ❖ Palamur - Rangareddy Lift Irrigation loads - 5375 MW.
- ❖ Additional 1 TMC loads at Link - II and Link - IV of Kaleshwaram Lift Irrigation Scheme including Manchippa, Yacharam Thanda and New Manchippa - 3013 MW.

Major Generation plants:

a) Existing :

- (i) KTPS - 1800 MW (2x250+1x500+1x800 MW)

- (ii) KTPP - 1100 MW (1x500+1x600 MW)
- (iii) Singareni TPP – 1200 MW (2x600 MW)
- (iv) Srisaillam HES – 900 MW (6x150 MW)
- (v) Nagarjuna Sagar HES – 815.6 MW (1x110+7x100.8 MW)
- (vi) Bhadradri Thermal Power Station (BTPS) – 1080 MW (4x270 MW)

b) Proposed:

- (i) Yadadri Thermal Power Station (YTPS) of 4000 MW (5x800 MW)
- (ii) Telangana STPP (CGS station) of 1600 MW (2x800 MW) (TS Share – 1390.813 MW)

2.2. Consolidated Sales and Load Forecast

2.2.1. The Petitioner submitted that the consolidated Sales and Load forecast has been prepared considering the Sales and Load forecast of both TSSPDCL and TSNPDCL.

2.2.2. Further, the Petitioner submitted that TSDISCOMs have prepared sales and load forecast using Trend Method and Econometric Analysis. The provisional category-wise Sales forecast, Energy Requirement and Peak load submitted by the Petitioner is shown below:

Table 2-1: Category-wise Sales, energy requirement and peak load for 5th Control Period submitted by Petitioner

Particulars	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29
	ENERGY CONSUMPTION -MU (5 th Control Period)				
Domestic	15,783.39	16,621.07	17,508.93	18,450.30	19,448.76
Commercial	4,531.49	4,811.60	5,112.54	5,434.75	5,779.17
Public lighting & Public Water Works	2,160.40	2,239.71	2,323.16	2,411.08	2,503.80
Irrigation (Cat-5 + LI)	26,278.31	27,819.89	29,461.53	31,210.51	33,074.74
LT Industries	1,293.01	1,337.63	1,384.02	1,432.27	1,482.47
HT Industries	17,602.46	18,663.88	19,808.22	21,043.21	22,377.44
Railway Traction	1,272.61	1,366.71	1,405.94	1,605.99	1,729.32
Bulk Supply to	-	-	-	-	-
a)Non-Industrial Consumers	-	-	-	-	-
b)Private Licensees	-	-	-	-	-
Others	5,370.44	5,736.48	6,126.71	6,537.90	6,980.59
Total (Energy Consumption)	74,292.11	78,596.97	83,131.05	88,126.01	93,376.29
Distribution losses	7,478.30	7,858.55	8,260.97	8,686.91	9,136.88
Energy Requirement at 132kV level in MU	81,770.41	86,455.52	91,392.02	96,812.92	1,02,513.17

Particulars	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29
	ENERGY CONSUMPTION -MU (5th Control Period)				
Transmission losses	2,079.47	2,180.45	2,285.73	2,400.96	2,520.81
T&D losses -MU	9,557.77	10,039.00	10,546.70	11,087.87	11,657.69
Energy Requirement at Grid level – MU	83,849.88	88,635.97	93,677.75	99,213.88	1,05,033.98
Total External Transmission Losses	1,147.00	1,131.00	1,096.00	1,072.00	923.00
Total Energy Requirement (at State Periphery) -MU	84,996.88	89,766.97	94,773.75	1,00,285.88	1,05,956.98
Annual Load Factor - %	55.10%	55.09%	55.08%	55.09%	55.07%
Peak Load in MW (DISCOM Periphery)	16,941.69	17,912.80	18,939.54	20,062.93	21,247.38
Peak Load in MW (at Grid level)	17,611.00	18,600.00	19,641.00	20,782.00	21,962.00

Table 2-2: Category wise Sales, energy requirement and peak load for 6th Control Period submitted by Petitioner

Particulars	FY 2029-30	FY 2030-31	FY 2031-32	FY 2032-33	FY 2033-34
	ENERGY CONSUMPTION -MU (6th Control Period)				
Domestic	20,508.16	21,632.61	22,826.56	24,094.75	25,442.33
Commercial	6,137.84	6,521.20	6,931.09	7,369.50	7,838.57
Public lighting & Public Water Works	2,601.64	2,705.01	2,814.34	2,930.07	3,052.69
Irrigation (Cat-5 + LI)					
LT Industries	34,962.05	36,973.35	39,118.03	41,406.30	43,849.25
HT Industries	1,534.69	1,589.05	1,645.65	1,704.60	1,766.01
Railway Traction	23,820.49	25,383.02	27,076.92	28,915.52	30,913.72
Bulk Supply to	-	-	-	-	-
a) Non-Industrial Consumers	-	-	-	-	-
b) Private Licensees	-	-	-	-	-
Others	7,457.18	7,968.58	8,521.97	9,129.83	9,792.53
Total (Energy Consumption)	98,885.63	1,04,782.54	1,11,103.44	1,17,892.85	1,25,186.40
Distribution losses	9,600.34	10,089.84	10,609.04	11,159.71	11,743.70
Energy Requirement at 132kV level in MU	1,08,485.97	1,14,872.38	1,21,712.48	1,29,052.56	1,36,930.10
Transmission losses	2,650.60	2,788.57	2,935.46	3,092.19	3,259.41
T&D losses -MU	12,250.94	12,878.41	13,544.50	14,251.90	15,003.11
Energy Requirement at Grid level - MU	1,11,136.57	1,17,660.95	1,24,647.94	1,32,144.75	1,40,189.51

Particulars	FY 2029-30	FY 2030-31	FY 2031-32	FY 2032-33	FY 2033-34
	ENERGY CONSUMPTION -MU (6 th Control Period)				
Total External Transmission Losses	502.00	455.00	453.00	454.00	447.00
Total Energy Requirement (at State Periphery) – MU	1,11,638.57	1,18,115.95	1,25,100.94	1,32,598.75	1,40,636.51
Annual Load Factor - %	55.09%	55.10%	55.11%	55.12%	55.12%
Peak Load in MW (DISCOM Periphery)	22,479.59	23,797.78	25,211.29	26,727.88	28,356.76
Peak Load in MW (at Grid level)	23,133.00	24,470.00	25,913.00	27,463.00	29,125.00

2.3. Transmission Loss Trajectory

2.3.1. The Petitioner submitted that Transmission Losses will be reduced from 2.48% in FY 2024-25 to 2.33% by FY 2033-34. The transmission loss trajectory submitted by the Petitioner for 5th Control Period and 6th Control Period are shown below:

Table 2-3: Transmission Loss Trajectory for 5th Control period submitted by Petitioner

Particulars	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29
Transmission Loss %	2.48%	2.46%	2.44%	2.42%	2.40%

Table 2-4: Transmission Loss Trajectory for 6th Control period submitted by Petitioner

Particulars	FY 2029-30	FY 2030-31	FY 2031-32	FY 2032-33	FY 2033-34
Transmission Loss %	2.38%	2.37%	2.36%	2.34%	2.33%

2.4. Consolidated Power Procurement Plan

2.4.1. The Petitioner submitted that the Power procurement Plan has been prepared considering all existing/upcoming generation sources for which TSDISCOMs have signed PPAs and also other upcoming generating stations including TSGENCO thermal, CGS and NCE.

2.4.2. The Petitioner, considering the above assumptions, has worked out the energy surplus/deficit during the year. The energy availability from various energy sources, energy requirement and energy surplus/deficit for the 5th Control Period

and 6th Control Period has been shown below:-

Table 2-5: Energy availability from various energy sources, energy requirement and energy surplus/deficit for the 5th Control Period submitted by Petitioner (MU)

Energy Source	FY 2024-25	FY2025-26	FY 2026-27	FY 2027-28	FY 2028-29
Thermal	52,969.50	58,955.19	58,932.60	59,032.48	58,940.14
Hydel	2,998.91	3,029.40	3,172.39	3,301.22	3,442.82
Total (Thermal + Hydel)	55,968.41	61,984.59	62,104.99	62,333.70	62,382.96
CGS	27,018.22	26,705.21	26,316.01	25,696.20	21,506.40
NCE	18,576.65	19,442.23	19,360.35	19,276.47	19,299.78
IPP&APGPCL	-	-	-	-	-
Others	18,659.38	18,659.38	18,659.38	18,711.70	18,326.87
Total Energy Availability (MU)	1,20,222.65	1,26,791.41	1,26,440.73	1,26,018.08	1,21,516.01
Total Energy Requirement (MU)	84,996.88	89,766.97	94,773.75	1,00,285.88	1,05,956.98
Energy Surplus / (Deficit) (MU)	35,225.77	37,024.44	31,666.98	25,732.20	15,559.03

Table 2-6: Energy availability from various energy sources, energy requirement and energy surplus/deficit for the 6th Control Period submitted by Petitioner (MU)

Energy Source	FY 2029-30	FY 2030-31	FY 2031-32	FY 2032-33	FY 2033-34
Thermal	58,843.60	58,529.87	58,624.19	58,520.53	58,536.70
Hydel	3,562.30	3,541.96	3,538.83	3,381.10	3,396.21
Total (Thermal + Hydel)	62,405.90	62,071.83	62,163.02	61,901.63	61,932.91
CGS	21,317.49	21,435.89	21,416.97	21,390.95	21,396.33
NCE	19,233.42	19,286.14	19,288.95	19,347.09	19,408.14
IPP&APGPCL	-	-	-	-	-
Others	11,948.30	11,271.78	11,304.78	11,604.29	11,604.29
Total Energy Availability (MU)	1,14,905.10	1,14,065.63	1,14,173.72	1,14,243.96	1,14,341.67
Total Energy Requirement (MU)	1,11,638.57	1,18,115.95	1,25,100.94	1,32,598.75	1,40,636.51
Energy Surplus / (Deficit) (MU)	3,266.53	(4,050.32)	(10,927.22)	(18,354.79)	(26,294.84)

2.5. Capital Investment Plan of TSTRANSCO for 5th Control Period

- 2.5.1. The Petitioner submitted that it has drawn up Capital Investment Plan of Rs. 3,781.65 Crore for the 5th Control Period from FY 2024-25 to FY 2028-29.
- 2.5.2. Further, the Petitioner submitted that the investment includes 1 No. of 400 kV S/S, 12 Nos. of 220 kV S/S, and 35 Nos. of 132 kV S/S along with associated lines excluding Lift Irrigation Sub-Stations. The cost of Lift Irrigation Sub-Stations

and associated lines shall be funded by Irrigation Department.

2.5.3. The Petitioner further submitted that through Capital Investment Plan, it would strengthen the network by addition of new Substations, Lines, Reactors, augmentation of Power Transformer Capacities and Capacitor Banks at 400 kV, 220 kV and 132 kV Voltage levels, which includes 449 ckm of 220 kV lines and 1,614.23 ckm of 132 kV lines towards Transmission strengthening and 1,320 MVA at 400 kV, 2,482 MVA at 220 kV and 2,939.50 MVA at 132 kV level including augmentation of Power Transformer Capacities in existing substations.

2.5.4. The Capital Investment Plan for 5th Control Period from FY 2024-25 to FY 2028-29 as proposed by the Petitioner is shown in the table below:-

Table 2-7: Voltage wise Capital Investment Plan for the 5th Control Period submitted by Petitioner (Rs. Crore)

FYs	Voltage			Total Capital Investment Plan
	132 kV	220 kV	400 kV	
FY 2024-25	585.98	700.99	0.00	1,286.97
FY 2025-26	581.41	333.33	114.99	1,029.73
FY 2026-27	348.56	173.33	0.00	521.89
FY 2027-28	507.98	165.54	0.00	673.52
FY 2028-29	189.54	80.00	0.00	269.54
Total	2,213.47	1,453.19	114.99	3,781.65

Table 2-8: Capital Investment Plan for the 5th Control Period submitted by Petitioner (Rs. Crore)

FYs	Sub-Stations			Lines			Power Transformer Augmentation			Reactors/ Capacitors			Bay Extensions			Total Capital Investment Plan
	400 kV	220 kV	132 kV	400 kV	220 kV	132 kV	400 kV	220 kV	132 kV	400 kV	220 kV	132 kV	400 kV	220 kV	132 kV	
FY 2024-25	0	357.57	193.66	0	260.02	260.00	0	62	88	0	0	2.97	0	21.4	41.35	1,286.97
FY 2025-26	114.99	25.91	66.21	0	245.32	370.62	0	52	118	0	0	2.16	0	10.1	24.42	1,029.73
FY 2026-27	0	83.33	94.54	0	40	152.34	0	50	86.5	0	0	2.16	0	0	13.02	521.89
FY 2027-28	0	91.82	183.06	0	25.91	211.16	0	42	84.5	0	0.81	2.16	0	5	27.1	673.52
FY 2028-29	0	15	13.23	0	0	72.02	0	65	85	0	0	2.97	0	0	16.32	269.54
Total	114.99	573.63	550.7	0	571.25	1,066.14	0	271	462	0	0.81	12.42	0	36.5	122.21	3,781.65

2.6. Capital Investment Plan of TSTRANSCO for 6th Control Period

2.6.1. The Petitioner submitted that it has drawn up Capital Investment Plan of Rs. 1,850.29 Crore for the 6th Control Period from FY 2029-30 to FY 2033-34.

2.6.2. Further, the Petitioner submitted that the investment includes 05 Nos. of 220 kV

S/S and 07 Nos. of 132 kV S/S, associated lines of 540 ckm of 220 kV lines and 185 ckm of 132 kV lines, bay extension of 12 Nos. for 220 kV and 14 Nos. of 132 kV and augmentations required to ensure that the transmission system meets the load up to FY 2033-34.

2.6.3. The Capital Investment Plan for 6th Control Period from FY 2029-30 to FY 2033-34 as proposed by the Petitioner is shown in the table below:-

Table 2-9: Voltage wise Capital Investment Plan for the 6th Control Period submitted by Petitioner (Rs. Crore)

FYs	Voltage			
	132 kV	220 kV	400 kV	Total
FY 2029-30	141.41	200.45	0.00	341.86
FY 2030-31	175.71	186.26	0.00	361.97
FY 2031-32	150.56	220.21	0.00	370.77
FY 2032-33	153.44	202.41	0.00	355.85
FY 2033-34	195.88	223.96	0.00	419.84
Total	817.00	1,033.29	0.00	1,850.29

Table 2-10: Capital Investment Plan for the 6th Control Period submitted by Petitioner (Rs. Crore)

FYs	Sub-Stations			Lines			Augmentation			Bay Extensions			Total Capital Investment Plan
	400 kV	220 kV	132 kV	400 kV	220 kV	132 kV	400 kV	220 kV	132 kV	400 kV	220 kV	132 kV	
FY 2029-30	0.00	31.44	15.68	0.00	96.80	32.40	0.00	68.25	89.25	0.00	3.96	4.08	341.86
FY 2030-31	0.00	31.44	31.36	0.00	79.20	48.60	0.00	71.66	93.71	0.00	3.96	2.04	361.97
FY 2031-32	0.00	31.44	15.68	0.00	105.60	32.40	0.00	75.25	98.40	0.00	7.92	4.08	370.77
FY 2032-33	0.00	31.44	15.68	0.00	88.00	32.40	0.00	79.01	103.32	0.00	3.96	2.04	355.85
FY 2033-34	0.00	31.44	31.36	0.00	105.60	54.00	0.00	82.96	108.48	0.00	3.96	2.04	419.84
Total	0.00	157.20	109.76	0.00	475.20	199.80	0.00	377.13	493.16	0.00	23.76	14.28	1,850.29

2.6.4. The submissions of the Petitioner and the Commission's analysis are discussed in detail in Chapter 4 and Chapter 5 of this Order.

CHAPTER 3

ISSUES RAISED BY GENERAL PUBLIC, RESPONSES OF PETITIONER, AND COMMISSION'S VIEWS

3.1. Objections/Suggestions/Comments Made on Filings

- 3.1.1. Two stakeholders have filed objections/ suggestions/ comments on the Petition for Revised Resource Plan for the 5th Control Period and 6th Control Period. The Petitioner has filed replies on the objections/ suggestions/ comments received from the stakeholders. For the sake of clarity, the objections/ suggestions/ comments raised by the stakeholder and responses of the Petitioner have been consolidated and summarised issue-wise.
- 3.1.2. The Commission has considered all the objections/suggestions/comments of the stakeholders made in writing as well as during the course of Public Hearing and the responses to them by the Petitioner. In the subsequent Chapters of this Order, the Commission has taken into consideration, the objections/ suggestions/ comments of the stakeholders and replies of the Petitioner while approving the Revised Resource Plan for 5th Control Period and 6th Control Period.

3.2. Energy Surplus for 5th Control Period

Stakeholders' Submissions

- 3.2.1. The Petitioner in the Revised Resource Plan has reduced availability of surplus power during the 5th Control Period by about 1,000 MU per year in comparison with the surplus projected by Petitioner in the earlier Resource Plan.
- 3.2.2. TSDISCOMs, in their submission to stakeholder, have responded that there will be no surplus power during the 5th Control Period based on their presumptions, while Petitioner in the Petition has shown that there will be a marginal reduction in projected availability of surplus power in comparison to their earlier Resource Plan.
- 3.2.3. Further, the stakeholder submitted that the surplus energy is after considering 1390.81 MW from TSTPP of NTPC instead of the earlier 1600 MW allocated to

Telangana, thereby relinquishing the State claim for allocation of total capacity of plant.

- 3.2.4. In addition to above, the Stakeholder submitted that upcoming additions of Non-Conventional Energy (NCE) has been estimated at 4% per annum on the total Solar energy availability and existing major Lift Irrigation Schemes of Kaleshwaram, Sita Rama, flood flow canal, Palamur-Rangareddy and others schemes have been considered when projecting energy availability and requirements during the 5th Control Period.
- 3.2.5. The stakeholder submitted that the Petition is an aggregation of the DISCOM petitions, but has not provided typical load curves for peak, off peak days, and load duration curves, for past and future years. Load curves and load duration curves under different scenarios are extremely important to check if the generation capacity can cater to the demand at all times. As per the petition, there is significant surplus in the 5th Control Period, followed by deficit in the 6th Control Period. Surplus, as a percentage of energy availability is 30.2% in FY2025, reducing to 13.2% by FY2029. There is 3.1% shortage in FY2031, and shortage increases to 22.7% by FY2034. Considering that there are no significant power shortages in the country, it is not clear how the utilities plan to manage the surplus. Better planning of power capacity addition in a phased manner should be considered, which avoids high surplus in the 5th Control Period and deficit in the 6th Control Period. As the State Transmission Utility, TS TRANSCO should strive to optimise power purchase costs, while meeting the demand and ensuring reliable supply. This ideally requires a modelling exercise considering block-wise demand, generation, cost parameters and related constraints. Considering the high penetration of renewable sources, adequate balancing power also has to be planned. Options such as battery storage, pumped storage operation, increasing flexibility of coal plants, market purchase for seasonal loads and introduction of demand management measures have to be considered. The petition does not provide any such details.

Petitioner's Replies

- 3.2.6. The Petitioner submitted that due to the combined impact of delay in commissioning of new generating stations, LIS projections received from I&CAD

Department and availability as per historical actual PLFs, the DISCOMs had revised the energy surplus / deficit as per the Additional Information submitted by the DISCOMs vide their letter dated 16.09.2023.

- 3.2.7. The Petitioner further submitted that in spite of repeated requests to the Ministry of Power, Govt. of India for 100% power allocation to Telangana from TSTPP as per the AP Re-organisation Act, 2014, the MOP has clarified that the request cannot be acceded to since cabinet accorded approval for allocation of 85% power to Telangana from TSTPP. Further, SRPC vide letters dated 28.07.2023 and 28.09.2023 has allocated 1.926% from the balance 15% unallocated quota to Telangana and remaining power in the unallocated quota is allocated to the other needy States. Therefore, the total share to Telangana would be tentatively 86.926% only, i.e., 1,390.813 MW out of 1,600 MW.
- 3.2.8. The proposed additional 1 TMC loads at Link-I and Link-IV of Kaleswaram LI Schemes including Manichippa, YacharamThanda and New Manichippa loads were considered for 5th Control Period. These works may be completed during FY 2024-25 as per the progress.
- 3.2.9. Further, the Lift Irrigation works are Deposit Contributory works, which are funded by Govt., of Telangana and certain LI works, which were proposed during 4th Control Period were not completed and are under progress as these works are dependent on the progress of I&CAD pump house works. Furthermore, LIS at Dharmasagar in Warangal District proposed during 4th Control Period was not taken up as there is no response from I&CAD department for executing the same.

Commission's View

- 3.2.10. The Commission has taken note of the submissions made by the stakeholders and responses of the Petitioner. The Commission while approving the total energy availability, energy requirement and energy surplus/Deficit for the 5th Control Period and 6th Control Period has analysed the submissions of the Petitioner and has considered the Sales, load forecast, power procurement plan and resultant energy availability from various energy sources, energy requirement and energy surplus/deficit for the 5th Control Period and 6th Control Period as approved by the Commission in Business Plan Order of State Distribution Licensees for the 5th Control Period and 6th Control Period.

3.3. Resource Plan for 5th Control Period

Stakeholders' Submissions

- 3.3.1. The Petitioner's Revised Resource Plan is deficient in information and analysis of implementation of Resource Plan during the 4th Control Period. The Petitioner has simply revised the Capital Costs for the 5th Control Period to Rs. 3,781.65 Crore, up from the earlier projection of Rs. 3,322.34 Crore.
- 3.3.2. To assess the need for transmission capacity in the 5th Control Period, it is crucial to analyze whether the Resource Plan projections for the 4th Control Period were realistic and if projects were executed as planned within approved budgets and timelines. If the Resource Plan for the 4th Control Period was implemented with substantial shortfalls, it will imply that the Petitioner may have collected excess transmission tariffs more than actual requirement of revenue and therefore, such variation in revenue needs to be validated.
- 3.3.3. In view of the above, the stakeholder requested the Commission to direct the Petitioner to submit an analysis of its 4th Control Period implementation for further examination.

Petitioner's Replies

- 3.3.4. The Petitioner submitted that for the 400 kV Transmission schemes including 400 kV LIS, against the total forecasted amount for the first 4 years of 4th Control Period (FY 2019-20 to FY 2022-23), the actual expenditure is within the proposed forecasted amount and there is no cost overrun in Project Cost. No forecasted amount is proposed during last year, i.e., FY 2023-24. However, the spill over of forecasted project cost during the first 4 years is proposed to be met during FY 2023-24 in 4th Control Period.
- 3.3.5. Further, the Petitioner submitted that the Peak Load reached has been on par with the Resource Plan projections and also submitted the details of the actual addition of infrastructure (EHT sub-stations, Power Transformers and transmission lines) against the projected growth in the Resource Plan for the 4th Control Period. Beside this, the Petitioner submitted that the works during the FY 2020-21 and FY 2021-22 were affected due to COVID pandemic.

3.3.6. In addition to the above, the Petitioner submitted that the variation in revenue due to Resource Plan projections and actual expenditure is being monitored by the Commission and the same is being adjusted annually by truing up/truing down against the Annual Performance Review and True up filings made by the Petitioner for each year of the 4th Control Period by the Commission.

Commission's View

3.3.7. The Commission has taken note of the submission made by the stakeholders and response of the Petitioner. The Commission, while approving the Capital Investment Plan for the 5th Control Period and 6th Control Period has analysed the Petitioner's submission and thereafter has approved Capital Investment Plan for the 5th Control Period and 6th Control Period. The Commission's analysis on the same has been detailed in Chapter 5 of this Order. As regards the variation in approved and actual capital expenditure and capitalization, the same will be examined in the True-up petition.

CHAPTER 4

STATE SALES, LOAD FORECAST AND POWER PROCUREMENT PLAN FOR 5th CONTROL PERIOD AND 6th CONTROL PERIOD

Petitioner's Submissions

4.1. Major Loads and Generation Plants

4.1.1. The Petitioner in the Petition has submitted that the major loads and generation plants in the State are as follows:-

Major Lift Irrigation schemes:

a) Existing:

- ❖ Kaleshwaram Lift Irrigation Loads (including Link-I of additional 1 TMC loads) - 5068 MW.
- ❖ Flood Flow Canal Loads - 156 MW.
- ❖ Sita Rama Lift Irrigation loads - 650 MW.

b) Proposed:

- ❖ Palamur - Rangareddy Lift Irrigation loads - 5375 MW.
- ❖ Additional 1 TMC loads at Link - II and Link - IV of Kaleshwaram Lift Irrigation Scheme including Manchippa, Yacharam Thanda and New Manchippa - 3013 MW.

Major Generation plants:

c) Existing :

- (i) KTPS - 1800 MW (2x250+1x500+1x800 MW)
- (ii) KTPP - 1100 MW (1x500+1x600 MW)
- (iii) Singareni TPP – 1200 MW (2x600 MW)
- (iv) Srisaillam HES – 900 MW (6x150 MW)
- (v) Nagarjuna Sagar HES – 815.6 MW (1x110+7x100.8 MW)
- (vi) Bhadradi Thermal Power Station (BTPS) – 1080 MW (4x270 MW)

d) Proposed:

- (i) Yadadri Thermal Power Station (YTPS) of 4000 MW (5x800 MW)
- (ii) Telangana STPP (CGS station) of 1600 MW (2x800 MW) (TS Share – 1390.813 MW)

4.2. Consolidated Sales and Load Forecast

- 4.2.1. The Petitioner submitted that the consolidated Sales and Load forecast have been prepared considering the Sales and Load forecast of both the TSSPDCL and TSNPDCL.
- 4.2.2. Further, the Petitioner submitted that TSDISCOMs prepared sales and load forecast using Trend Method and Econometric Analysis. The provisional category wise Sales forecast, Energy Requirement and Peak load submitted by the Petitioner is shown below:

Table 4-1: Category-wise Sales, energy requirement and peak load for 5th Control Period submitted by Petitioner

Particulars	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29
	ENERGY CONSUMPTION -MU (5 th Control Period)				
Domestic	15,783.39	16,621.07	17,508.93	18,450.30	19,448.76
Commercial	4,531.49	4,811.60	5,112.54	5,434.75	5,779.17
Public lighting & Public Water Works	2,160.40	2,239.71	2,323.16	2,411.08	2,503.80
Irrigation (Cat-5 + LI)	26,278.31	27,819.89	29,461.53	31,210.51	33,074.74
LT Industries	1,293.01	1,337.63	1,384.02	1,432.27	1,482.47
HT Industries	17,602.46	18,663.88	19,808.22	21,043.21	22,377.44
Railway Traction	1,272.61	1,366.71	1,405.94	1,605.99	1,729.32
Bulk Supply to	-	-	-	-	-
a)Non-Industrial Consumers	-	-	-	-	-
b)Private Licensees	-	-	-	-	-
Others	5,370.44	5,736.48	6,126.71	6,537.90	6,980.59
Total (Energy Consumption)	74,292.11	78,596.97	83,131.05	88,126.01	93,376.29
Distribution losses	7,478.30	7,858.55	8,260.97	8,686.91	9,136.88
Energy Requirement at 132kV level in MU	81,770.41	86,455.52	91,392.02	96,812.92	1,02,513.17
Transmission losses	2,079.47	2,180.45	2,285.73	2,400.96	2,520.81
T&D losses -MU	9,557.77	10,039.00	10,546.70	11,087.87	11,657.69
Energy Requirement at Grid level – MU	83,849.88	88,635.97	93,677.75	99,213.88	1,05,033.98
Total External Transmission Losses	1,147.00	1,131.00	1,096.00	1,072.00	923.00
Total Energy Requirement (at State Periphery) -MU	84,996.88	89,766.97	94,773.75	1,00,285.88	1,05,956.98
Annual Load Factor - %	55.10%	55.09%	55.08%	55.09%	55.07%

Particulars	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29
	ENERGY CONSUMPTION -MU (5th Control Period)				
Peak Load in MW (DISCOM Periphery)	16,941.69	17,912.80	18,939.54	20,062.93	21,247.38
Peak Load in MW (at Grid level)	17,611.00	18,600.00	19,641.00	20,782.00	21,962.00

Table 4-2: Category wise Sales, energy requirement and peak load for 6th Control Period submitted by Petitioner

Particulars	FY 2029-30	FY 2030-31	FY 2031-32	FY 2032-33	FY 2033-34
	ENERGY CONSUMPTION -MU (6th Control Period)				
Domestic	20,508.16	21,632.61	22,826.56	24,094.75	25,442.33
Commercial	6,137.84	6,521.20	6,931.09	7,369.50	7,838.57
Public lighting & Public Water Works	2,601.64	2,705.01	2,814.34	2,930.07	3,052.69
Irrigation (Cat-5 + LI)					
LT Industries	34,962.05	36,973.35	39,118.03	41,406.30	43,849.25
HT Industries	1,534.69	1,589.05	1,645.65	1,704.60	1,766.01
Railway Traction	23,820.49	25,383.02	27,076.92	28,915.52	30,913.72
Bulk Supply to	-	-	-	-	-
a)Non-Industrial Consumers	-	-	-	-	-
b)Private Licensees	-	-	-	-	-
Others	7,457.18	7,968.58	8,521.97	9,129.83	9,792.53
Total (Energy Consumption)	98,885.63	1,04,782.54	1,11,103.44	1,17,892.85	1,25,186.40
Distribution losses	9,600.34	10,089.84	10,609.04	11,159.71	11,743.70
Energy Requirement at 132kV level in MU	1,08,485.97	1,14,872.38	1,21,712.48	1,29,052.56	1,36,930.10
Transmission losses	2,650.60	2,788.57	2,935.46	3,092.19	3,259.41
T&D losses -MU	12,250.94	12,878.41	13,544.50	14,251.90	15,003.11
Energy Requirement at Grid level – MU	1,11,136.57	1,17,660.95	1,24,647.94	1,32,144.75	1,40,189.51
Total External Transmission Losses	502.00	455.00	453.00	454.00	447.00
Total Energy Requirement (at State Periphery) – MU	1,11,638.57	1,18,115.95	1,25,100.94	1,32,598.75	1,40,636.51
Annual Load Factor -%	55.09%	55.10%	55.11%	55.12%	55.12%

Particulars	FY 2029-30	FY 2030-31	FY 2031-32	FY 2032-33	FY 2033-34
	ENERGY CONSUMPTION -MU (6 th Control Period)				
Peak Load in MW (DISCOM Periphery)	22,479.59	23,797.78	25,211.29	26,727.88	28,356.76
Peak Load in MW (at Grid level)	23,133.00	24,470.00	25,913.00	27,463.00	29,125.00

4.3. Transmission Loss Trajectory

4.3.1. The Petitioner submitted that Transmission losses will be reduced from 2.48% in FY 2024-25 to 2.33% by FY 2033-34. The transmission loss trajectory submitted by the Petitioners for 5th Control Period and 6th Control Period is shown below:-

Table 4-3: Transmission Loss Trajectory for 5th Control Period submitted by Petitioner

Particulars	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29
Transmission Loss %	2.48%	2.46%	2.44%	2.42%	2.40%

Table 4-4: Transmission Loss Trajectory for 6th Control Period submitted by Petitioner

Particulars	FY 2029-30	FY 2030-31	FY 2031-32	FY 2032-33	FY 2033-34
Transmission Loss %	2.38%	2.37%	2.36%	2.34%	2.33%

4.4. Consolidated Power Procurement Plan

4.4.1. The Petitioner submitted that the Power procurement Plan has been prepared considering all existing/upcoming generation sources for which TSDISCOMs have signed PPAs and also other upcoming generating stations including TSGENCO Thermal, CGS and NCE.

4.4.2. The Petitioner, considering the above assumptions, has worked out the energy surplus/deficit during the year. The energy availability from various energy sources, energy requirement and energy surplus/deficit for the 5th Control Period and 6th Control Period has been shown below:-

Table 4-5: Energy availability from various energy sources, energy requirement and energy surplus/deficit for the 5th Control Period submitted by Petitioner (MU)

Energy Source	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29
Thermal	52,969.50	58,955.19	58,932.60	59,032.48	58,940.14
Hydel	2,998.91	3,029.40	3,172.39	3,301.22	3,442.82
Total (Thermal + Hydel)	55,968.41	61,984.59	62,104.99	62,333.70	62,382.96
CGS	27,018.22	26,705.21	26,316.01	25,696.20	21,506.40
NCE	18,576.65	19,442.23	19,360.35	19,276.47	19,299.78
IPP&APGPCL	-	-	-	-	-
Others	18,659.38	18,659.38	18,659.38	18,711.70	18,326.87
Total Energy Availability (MU)	1,20,222.65	1,26,791.41	1,26,440.73	1,26,018.08	1,21,516.01
Total Energy Requirement (MU)	84,996.88	89,766.97	94,773.75	1,00,285.88	1,05,956.98
Energy Surplus / (Deficit) (MU)	35,225.77	37,024.44	31,666.98	25,732.20	15,559.03

Table 4-6: Energy availability from various energy sources, energy requirement and energy surplus/deficit for the 6th Control Period submitted by Petitioner (MU)

Energy Source	FY 2029-30	FY 2030-31	FY 2031-32	FY 2032-33	FY 2033-34
Thermal	58,843.60	58,529.87	58,624.19	58,520.53	58,536.70
Hydel	3,562.30	3,541.96	3,538.83	3,381.10	3,396.21
Total (Thermal + Hydel)	62,405.90	62,071.83	62,163.02	61,901.63	61,932.91
CGS	21,317.49	21,435.89	21,416.97	21,390.95	21,396.33
NCE	19,233.42	19,286.14	19,288.95	19,347.09	19,408.14
IPP&APGPCL	-	-	-	-	-
Others	11,948.30	11,271.78	11,304.78	11,604.29	11,604.29
Total Energy Availability (MU)	1,14,905.10	1,14,065.63	1,14,173.72	1,14,243.96	1,14,341.67
Total Energy Requirement (MU)	1,11,638.57	1,18,115.95	1,25,100.94	1,32,598.75	1,40,636.51
Energy Surplus / (Deficit) (MU)	3,266.53	(4,050.32)	(10,927.22)	(18,354.79)	(26,294.84)

Commission's View

- 4.4.3. The comparison of the approved target for transmission loss and actual transmission loss achieved during the 4th Control Period upto FY 2022-23 is as shown in the Table below:

Table 4-7: Transmission loss for the 4th Control Period

Particulars	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23
Approved Transmission Loss (%)	2.78%	2.71%	2.64%	2.57%
Actual Transmission Loss (%)	2.65%	2.57%	2.47%	2.52%

4.4.4. The Commission has directed the Petitioner to substantiate the proposed transmission loss trajectory with the proposed capital investment for the 5th Control Period and 6th Control Period. In response, the Petitioner submitted that the transmission system losses were calculated on monthly basis based on actuals of generation of power and sale of power to DISCOMs. The Petitioner further submitted that the target loss trajectory for the 5th Control Period and 6th Control Period has been prepared based on the actual system losses for the 4th Control Period and based on the load flow and short-circuit studies carried out by them.

4.4.5. The Commission observed that the Petitioner has been able to achieve lower transmission losses as compared to the approved transmission losses in the 4th Control Period, which means that the approved capital investment for the 4th Control Period has resulted in significant reduction of transmission losses. The transmission losses have already been reduced to 2.52%, which is reasonable as compared to transmission losses in other States. Therefore, the Commission deems it fit to consider the proposed transmission loss trajectory by the Petitioner in the Revised Resource Plan for the 5th Control Period and 6th Control Period. The transmission loss trajectory approved by the Commission for 5th Control Period and 6th Control Period is shown in the table below:-

Table 4-8: Transmission loss trajectory approved by the Commission for the 5th Control Period

Particulars	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29
Proposed Transmission Loss (%) by Petitioner	2.48%	2.46%	2.44%	2.42%	2.40%
Approved Transmission Loss (%)	2.48%	2.46%	2.44%	2.42%	2.40%

Table 4-9: Transmission loss trajectory approved by the Commission for the 6th Control Period

Particulars	FY 2029-30	FY 2030-31	FY 2031-32	FY 2032-33	FY 2033-34
Proposed Transmission Loss (%) by Petitioner	2.38%	2.37%	2.36%	2.34%	2.33%
Approved Transmission Loss (%)	2.38%	2.37%	2.36%	2.34%	2.33%

4.4.6. The Commission has considered the Sales, load forecast, power procurement plan and resultant energy availability from various energy sources, energy requirement and energy surplus/deficit for the 5th and 6th Control Period as approved by the Commission in Business Plan Order of State Distribution Licensees for the 5th and 6th Control Period. The energy requirement, energy availability and energy surplus/deficit for the 5th Control Period and 6th Control Period is shown in the below:-

Table 4-10: Energy requirement, Energy availability and Energy surplus/deficit claimed and approved for the 5th Control Period (MU)

Particular	FY2024-25		FY2025-26		FY2026-27		FY2027-28		FY2028-29	
	Claimed	Approved	Claimed	Approved	Claimed	Approved	Claimed	Approved	Claimed	Approved
Total Energy Requirement at State level at Transmission Periphery	84,997	83,058	89,767	87,564	94,774	92,365	1,00,286	97,482	1,05,957	1,02,942
Total Energy Available at State level	1,20,223	95,753	1,26,791	1,06,637	1,26,441	1,06,157	1,26,018	1,05,506	1,21,516	1,02,784
Surplus/(Deficit)	35,226	12,696	37,024	19,073	31,667	13,793	25,732	8,024	15,559	(158)

Table 4-11: Energy requirement, Energy availability and Energy surplus/deficit claimed and approved for the 6th Control Period (MU)

Particular	FY2029-30		FY2030-31		FY2031-32		FY2032-33		FY2033-34	
	Claimed	Approved	Claimed	Approved	Claimed	Approved	Claimed	Approved	Claimed	Approved
Total Energy Requirement at State level at Transmission Periphery	1,11,639	1,07,868	1,18,116	1,13,095	1,25,101	1,18,632	1,32,599	1,24,488	1,40,637	1,30,711
Total Energy Available at State level	1,14,905	97,429	1,14,066	96,334	1,14,174	96,570	1,14,244	96,334	1,14,342	96,334
Surplus/(Deficit)	3,267	(10,440)	(4,050)	(16,761)	(10,927)	(22,062)	(18,355)	(28,153)	(26,295)	(34,376)

CHAPTER 5

CAPITAL INVESTMENT PLAN, CAPITALISATION AND TRANSMISSION NETWORK FOR 5th CONTROL PERIOD AND 6th CONTROL PERIOD

Petitioner's Submissions

5.1. Capital Investment Plan of TSTRANSCO for 5th Control Period

5.1.1. The Petitioner submitted that it has drawn up Capital Investment Plan of Rs. 3,781.65 Crore for the 5th Control Period from FY 2024-25 to FY 2028-29.

5.1.2. The Petitioner further submitted that through Capital Investment Plan, it would strengthen the network by addition of new Substations, Lines, Reactors, augmentation of Power Transformer Capacities and Capacitor Banks at 400 kV, 220 kV and 132 kV Voltage levels, which includes 449 ckm of 220 kV lines and 1,614.23 ckm of 132 kV lines towards Transmission strengthening and 1,320 MVA at 400 kV, 2,482 MVA at 220 kV and 2,939.50 MVA at 132 kV level, including augmentation of Power Transformer Capacities in existing substations.

5.1.3. The Capital Investment Plan for 5th Control Period from FY 2024-25 to FY 2028-29 as proposed by the Petitioner is shown in the Table below:-

Table 5-1: Voltage wise Capital Investment Plan for the 5th Control Period submitted by Petitioner (Rs. Crore)

FYs	Voltage			Total Capital Investment Plan
	132 kV	220 kV	400 kV	
FY 2024-25	585.98	700.99	0.00	1,286.97
FY 2025-26	581.41	333.33	114.99	1,029.73
FY 2026-27	348.56	173.33	0.00	521.89
FY 2027-28	507.98	165.54	0.00	673.52
FY 2028-29	189.54	80.00	0.00	269.54
Total	2,213.47	1,453.19	114.99	3,781.65

5.1.4. The Petitioner submitted that under Lift Irrigation Schemes, transmission network is required for Kaleshwaram Lift Irrigation Scheme to meet power supply demand required for lifting of water from Godavari Basin (2 TMC and additional 1 TMC) and also for Palamuru -Ranga Reddy Lift Irrigation Scheme for lifting 2 TMC of water from Krishna River and for Sita Rama Lift Irrigation

Scheme for lifting of water from Godavari River.

- 5.1.5. The Petitioner further, submitted that the cost of Lift Irrigation Sub-Stations and associated lines shall be funded by Irrigation Department. The Capital Investment under the Lift Irrigation Schemes for 5th Control Period from FY 2024-25 to FY 2028-29 as proposed by the Petitioner is shown in the table below:-

Table 5-2: Voltage wise Capital Investment Plan for Lift Irrigation Schemes for the 5th Control Period submitted by Petitioner (Rs. Crore)

FYs	Voltage			Total Capital Investment Plan
	132 kV	220 kV	400 kV	
FY 2024-25	487.41	526.71	563.07	1,577.19
FY 2025-26	0.00	0.00	0.00	0.00
FY 2026-27	0.00	0.00	205.38	205.38
FY 2027-28	0.00	0.00	0.00	0.00
FY 2028-29	0.00	0.00	0.00	0.00
Total	487.41	526.71	768.45	1,782.57

5.2. Capital Investment Plan of TSTRANSCO for 6th Control Period

- 5.2.1. The Petitioner submitted that it has drawn up Capital Investment Plan of Rs. 1,850.29 Crore for the 6th Control Period from FY 2029-30 to FY 2033-34.
- 5.2.2. Further, the Petitioner submitted that the investment includes 05 Nos. of 220 kV S/S and 07 Nos. of 132 kV S/S, associated lines of 540 ckm of 220 kV lines and 185 ckm of 132 kV lines, bay extension of 12 Nos. for 220 kV and 14 Nos. of 132 kV and augmentations required to ensure that the transmission system meets the load up to FY 2033-24.
- 5.2.3. The Capital Investment Plan for 6th Control Period from FY 2029-30 to FY 2033-34 as proposed by the Petitioner is shown in the table below:-

Table 5-3: Voltage wise Capital Investment Plan for the 6th Control Period submitted by Petitioner (Rs. Crore)

FYs	Voltage			Total
	132 Kv	220 kV	400 kV	
FY 2029-30	141.41	200.45	0.00	341.86
FY 2030-31	175.71	186.26	0.00	361.97
FY 2031-32	150.56	220.21	0.00	370.77
FY 2032-33	153.44	202.41	0.00	355.85
FY 2033-34	195.88	223.96	0.00	419.84
Total	817.00	1,033.29	0.00	1,850.29

Commission's View

5.2.4. The Commission, while approving the capital investment plan for the 5th Control Period and 6th Control Period has taken the following into consideration:

- a) The licensee, TSTRANSCO, being the State Transmission Utility (STU) has to ensure development of an efficient, coordinated and economical system of Intra-State transmission lines and substations for smooth flow of electricity from a generating station to the load centres, as per the provisions of the Electricity Act, 2003.
- b) Investment schemes, which have already been accorded in-principle approvals by the Commission are under various phases of implementation.
- c) The load flow and short circuit studies submitted by the Petitioner in Revised Resource Plan.
- d) The investment towards Lift Irrigation Schemes (LIS) works, being contributory in nature, shall be borne by Irrigation Department.
- e) Evacuation of Power from upcoming generating station from various locations in the State of Telangana.
- f) The significance of other works proposed by the Petitioner for improvement in performance and monitoring.

5.2.5. Out of the proposed capital investment during each year of the 5th Control Period and 6th Control Period, the major capital investments for 5th Control Period are towards 220 kV Schemes, 132 kV Schemes and LIS works and for 6th Control Period, the major capital investments are towards 220 kV Schemes and 132 kV Schemes.

5.2.6. The Commission directed the Petitioner to submit scheme wise details along with Board Approval for each scheme, Detailed Project Report/Pre-feasibility report for each scheme, method of execution for each scheme, viz., International Competitive Bidding/Domestic Competitive Bidding and the details as specified in Para 1.6 of the Guidelines for Investment Approval (February 2006), for each scheme. In response, Petitioner submitted the scheme-wise details. However, the Commission observed discrepancies

between the details submitted by the Petitioner and the proposed schemes and cost outlined in the Revised Resource Plan. In addition to this, the Petitioner failed to submit the Detailed Project Report/Pre-feasibility report for each scheme, method of execution for each scheme, viz., International Competitive Bidding/Domestic Competitive Bidding and the details as specified in Para 1.6 of the Guidelines for Investment Approval, for each scheme.

- 5.2.7. Further, the Petitioner was directed to submit the preparedness to execute the proposed capital expenditure for the 5th Control Period and 6th Control Period in terms of funds tie-up, placement of orders and also submit the mode of execution of the proposed capital investment for the 5th Control Period and 6th Control Period, to ensure the least cost principles are followed. In response, Petitioner submitted that the funds tie-up is yet to be finalized and the Lift Irrigation Schemes works are Depository Contribution (DC) works and will be funded by Irrigation & CAD Department (Govt. of Telangana). The details of Lift Irrigation Schemes is elaborated in Annexure 1. As regards mode of execution, the Petitioner submitted that the Petitioner shall be going for Competitive Bidding and Two-part Bidding (Technical Bid and Price Bid) shall be done to ensure quality and low cost.
- 5.2.8. The Commission approved Capital Investment Plan of Rs. 13,644.49 Crore in 4th Control Period against which the Petitioner till FY 2021-22 has undertaken Capital Investment of Rs. 6,439.58 Crore only. The Commission observed that actual capital expenditure as percentage of approved capital expenditure during the year was 79% for FY 2019-20, 40% for FY 2020-21 and 78% for FY 2021-22. Further, it was observed that lower capital expenditure in FY 2020-21 and FY 2021-22 was mainly on account of COVID-19 pandemic, otherwise the Petitioner may have been able to undertake the approved capital investment. However, the spillover of first three years of approved capital expenditure is expected to be undertaken by the Petitioners in remaining two years of the 4th Control Period.
- 5.2.9. The Petitioner on implementation of Resource Plan for the 4th Control Period in reply to stakeholder comments has submitted as follows:

- a) In 400 kV Schemes, 63% of the work has been completed, 32% of work is under progress, and 5% of the work has been cancelled.
- b) In 200 kV Schemes, 38% of the work has been completed, 13% of work is under progress, 28% of the work has been cancelled, and 21% of work has been carried forward to 5th Control Period.
- c) In 132 kV Schemes, 32% of the work has been completed, 14% of work is under progress, 20% of the work has been cancelled, and 34% of work has been carried forward to 5th Control Period.

5.2.10. On analysis of above submission of the Petitioner, the Commission observed that in 4th Control Period, the approved total capital expenditure for 400 kV Schemes excluding the cost of Lift Irrigation Sub-Stations and associated lines was Rs. 4,159.52 Crore of which Rs. 2,622.58 Crore work has been completed, Rs. 1,321.48 Crore work is under progress and Rs. 215.46 Crore work has been cancelled. Similarly, for 220 kV Schemes excluding the cost of Lift Irrigation Sub-Stations and associated lines, the total capital expenditure approved was Rs. 3,362.88 Crore of which Rs. 1,277.87 Crore work has been completed, Rs. 437.17 Crore work is under progress, Rs. 941.61 Crore work has been cancelled, and Rs. 706.20 Crore of work has been carried forward to 5th Control Period.

5.2.11. Further, total Capital Investment Plan for the 5th Control Period is Rs. 5,564.22 Crore, which includes Rs. 1,782.57 Crore for Lift Irrigation Schemes. As submitted by the Petitioner in additional information, works under Lift Irrigation Schemes shall be contributory in nature and borne by Irrigation Department. Under 220 kV Schemes, the capital expenditure proposed by the Petitioner is Rs. 1,453.19 Crore of which around 49% (i.e., Rs. 706.20 Crore) of work pertains to work that has been carried forward from 4th Control Period.

5.2.12. Beside this, the Commission observed that the total Capital Investment Plan proposed by the Petitioner in 5th Control Period and 6th Control Period in totality is 46% lower than the Capital Investment Plan approved by the Commission in 4th Control Period.

5.2.13. In view of the above, the Commission has accorded in: principle approval to the proposed Capital Investment Plan for 5th Control Period and 6th Control

Period. However, the Petitioner is directed to seek the approval of the Commission for individual schemes as per the MYT Regulation in force by submitting the following details and documents for each scheme:

- a) Board Approval.
- b) Detailed Project Report/Pre-feasibility report.
- c) Method of execution for each scheme, viz., International Competitive Bidding/Domestic Competitive Bidding.
- d) Detailed cost estimates for each item of work covered by the scheme;
- e) Financing plan supported by documents related to administrative approval, financial tie-up etc;
- f) Phasing of expenditure quarter wise for each work/module, supported with details of corresponding sources of funding;
- g) PERT/CPM chart detailing the activities involved in project execution highlighting the anticipated constraints, if any;
- h) Methodology of evaluation and measurement of the benefits accruing out of the investment;
- i) Cost benefit analysis;
- j) Physical benefits of the scheme;
- k) Financial benefits of the scheme supported by detailed calculations to demonstrate the payback period of the investment;

5.2.14. The capital investment plan approved by the Commission for 5th Control Period and 6th Control Period is shown in the table below:

Table 5-4: Capital Investment Plan claimed and approved for 5th Control Period (Rs. Crore)

Particulars	FY 2024-25		FY 2025-26		FY 2026-27		FY 2027-28		FY 2028-29		Total	
	Claimed	Approved	Claimed	Approved	Claimed	Approved	Claimed	Approved	Claimed	Approved	Claimed	Approved
400 kV Schemes	0.00	0.00	114.99	114.99	0.00	0.00	0.00	0.00	0.00	0.00	114.99	114.99
220 kV Schemes	700.99	700.99	333.33	333.33	173.33	173.33	165.54	165.54	80.00	80.00	1,453.19	1,453.19
132 kV Schemes	585.98	585.98	581.41	581.41	348.56	348.56	507.98	507.98	189.54	189.54	2,213.47	2,213.47
Lift Irrigation Schemes	1,577.19	1,577.19	0.00	0.00	205.38	205.38	0.00	0.00	0.00	0.00	1,782.57	1,782.57
Total	2,864.16	2864.16	1,029.73	1,029.73	727.27	727.27	673.52	673.52	269.54	269.54	5,564.22	5,564.22

Table 5-5: Capital Investment Plan claimed and approved for the 6th Control Period (Rs. Crore)

Particulars	FY 2029-30		FY 2030-31		FY 2031-32		FY 2032-33		FY 2033-34		Total	
	Claimed	Approved	Claimed	Approved	Claimed	Approved	Claimed	Approved	Claimed	Approved	Claimed	Approved
400 kV Schemes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
220 kV Schemes	200.45	200.45	186.26	186.26	220.21	220.21	202.41	202.41	223.96	223.96	1,033.29	1,033.29
132 kV Schemes	141.41	141.41	175.71	175.71	150.56	150.56	153.44	153.44	195.88	195.88	817.00	817.00
Lift Irrigation Schemes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	341.86	341.86	361.97	361.97	370.77	370.77	355.85	355.85	419.84	419.84	1,850.29	1,850.29

5.2.15. The investment plan of Rs. 5,564.22 Crore is approved for 5th Control Period including Lift Irrigation works of Rs 1,782.57 Crore. Thus, the investment plan for 5th Control Period excluding Lift Irrigation Schemes works out to Rs 3,781.65 Crore which includes 220 kV Schemes of Rs. 706.20 Crore which were approved in 4th Control Period and deferred for execution in 5th Control Period. The investment plan of Rs 1,850.29 Crore is approved for 6th Control Period. The details of the schemes wise approved investment plan for 5th Control Period is enclosed at **Annexure 1**.

5.3. Capitalisation for 5th Control Period and 6th Control Period

Petitioner's Submissions

5.3.1. The Petitioner in response to the data gap has submitted the additional capitalisation details. The additional capitalisation claimed in 5th Control Period is shown in table below:

Table 5-6: Additional Capitalisation claimed by the Petitioner for 5th Control Period (Rs. Crore)

Sl. No.	Wing-wise	Year wise Capitalization					Total
		FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	
Transmission Schemes							
1	400kV	-	-	-	602.05	-	602.05
2	Construction	-	1,266.81	502.83	373.20	453.77	2,596.61
3	Transmission	152.97	172.16	138.66	129.47	152.97	746.23
Transmission TOTAL		152.97	1,438.97	641.49	1,104.72	606.74	3,944.89
LIS Schemes							
1	LIS	-	-	-	-	-	-
2	PRLIS	-	-	-	-	-	-
3	400kV LIS	-	-	-	-	-	-
LIS TOTAL		-	-	-	-	-	-

Commission's View

- 5.3.2. The Commission has found the additional capitalisation data submitted by the Petitioner is inconsistent. Hence, the Commission has carried out the analysis of the capitalisation as percentage of Opening CWIP and Capital Expenditure during the year based on audited accounts, MYT Order dated March 20, 2020 in O.P. No. 3 of 2019 and APR Order dated September 09, 2021 in O.P. No. 13 of 2021 for the period from FY 2018-19 to FY 2021-22 excluding FY 2020-21 on account of impact due to COVID-19. The Commission observed that the capitalisation as percentage of Opening CWIP and Capital Expenditure during the year was 48% for FY 2018-19, 45% for FY 2019-20 and 35% for FY 2021-22.
- 5.3.3. Therefore, the Commission has taken a realistic approach while approving the capitalisation and has projected the capitalisation of 44% (i.e., Average of 3 Years of the capitalisation as percentage of Opening CWIP and Capital Expenditure during the year) for each year of the 5th Control Period and 6th Control Period.
- 5.3.4. Further, the Petitioner is directed to submit year-wise capitalisation details, when the Petitioner seeks the approval of the Commission for individual scheme as mentioned in Para 5.2.12 of this Order.
- 5.3.5. The capitalization approved by the Commission for 5th Control Period and 6th Control Period is shown in the table below:

Table 5-7: Capitalisation for the 5th Control Period approved by the Commission (Rs. Crore)

Particulars	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29
Capitalisation during the year	2,347.46	1,769.60	1,312.51	1,032.29	697.81

Table 5-8: Capitalisation for the 6th Control Period approved by the Commission (Rs. Crore)

Particulars	FY 2029-30	FY 2030-31	FY 2031-32	FY 2032-33	FY 2033-34
Capitalisation during the year	541.71	462.89	422.49	393.27	404.92

5.4. Transmission Network for 5th Control Period and 6th Control Period

Petitioner's Submissions

5.4.1. The Petitioner in response to the data gap has submitted the transmission network details. The transmission network details claimed in 5th Control Period and 6th Control Period is shown in table below:

Table 5-9: Transmission Network for the 5th Control Period submitted by the Petitioner

Financial Year	Lines (Ckt.km)			Transformation Capacity (MVA)			Bays (Nos.)		
	Opening	Addition	Closing	Opening	Addition	Closing	Opening	Addition	Closing
FY 2024-25	29,259.62	1,365.51	30,625.13	92,498.00	4,849.50	97,347.50	3,667.00	164.00	3,831.00
FY 2025-26	30,625.13	665.30	31,290.43	97,347.50	2,787.00	1,00,134.50	3,831.00	52.00	3,883.00
FY 2026-27	31,290.43	516.50	31,806.93	1,00,134.50	1,779.00	1,01,913.50	3,883.00	23.00	3,906.00
FY 2027-28	31,806.93	273.60	32,080.53	1,01,913.50	2,012.00	1,03,925.50	3,906.00	44.00	3,950.00
FY 2028-29	32,080.53	190.80	32,271.33	1,03,925.50	1,076.00	1,05,001.50	3,950.00	16.00	3,966.00

Table 5-10: Transmission Network for the 6th Control Period submitted by the Petitioner

Financial Year	Lines (Ckt.km)			Transformation Capacity (MVA)			Bays (Nos.)		
	Opening	Addition	Closing	Opening	Addition	Closing	Opening	Addition	Closing
FY 2029-30	32,271.33	140.00	32,411.33	1,05,001.50	420.00	1,05,421.50	3,966.00	6.00	3,972.00
FY 2030-31	32,411.33	135.00	32,546.33	1,05,421.50	520.00	1,05,941.50	3,972.00	4.00	3,976.00
FY 2031-32	32,546.33	150.00	32,696.33	1,05,941.50	420.00	1,06,361.50	3,976.00	8.00	3,984.00
FY 2032-33	32,696.33	130.00	32,826.33	1,06,361.50	420.00	1,06,781.50	3,984.00	4.00	3,988.00
FY 2033-34	32,826.33	170.00	32,996.33	1,06,781.50	520.00	1,07,301.50	3,988.00	4.00	3,992.00

Commission's View

5.4.2. The Commission directed the Petitioner to submit the details of its proposed transmission network for each year of the 5th Control Period and 6th Control Period. In response, the Petitioner submitted the details. Based on the in-principle approval to the proposed Capital Investment Plan and Capitalisation for 5th Control Period and 6th Control Period, the Commission has approved the Transmission Network for 5th Control Period and 6th Control Period as per the Petitioner's submission in additional information.

5.4.3. The Transmission Network approved by the Commission for 5th Control Period and 6th Control Period is shown in the table below:

Table 5-11: Transmission Network for the 5th Control Period approved by the Commission

Financial Year	Lines (Ckt.km)			Transformation Capacity (MVA)			Bays (Nos.)		
	Opening	Addition	Closing	Opening	Addition	Closing	Opening	Addition	Closing
FY 2024-25	29,259.62	1,365.51	30,625.13	92,498.00	4,849.50	97,347.50	3,667.00	164.00	3,831.00
FY 2025-26	30,625.13	665.30	31,290.43	97,347.50	2,787.00	1,00,134.50	3,831.00	52.00	3,883.00
FY 2026-27	31,290.43	516.50	31,806.93	1,00,134.50	1,779.00	1,01,913.50	3,883.00	23.00	3,906.00
FY 2027-28	31,806.93	273.60	32,080.53	1,01,913.50	2,012.00	1,03,925.50	3,906.00	44.00	3,950.00
FY 2028-29	32,080.53	190.80	32,271.33	1,03,925.50	1,076.00	1,05,001.50	3,950.00	16.00	3,966.00

Table 5-12: Transmission Network for the 6th Control Period approved by the Commission

Financial Year	Lines (Ckt.km)			Transformation Capacity (MVA)			Bays (Nos.)		
	Opening	Addition	Closing	Opening	Addition	Closing	Opening	Addition	Closing
FY 2029-30	32,271.33	140.00	32,411.33	1,05,001.50	420.00	1,05,421.50	3,966.00	6.00	3,972.00
FY 2030-31	32,411.33	135.00	32,546.33	1,05,421.50	520.00	1,05,941.50	3,972.00	4.00	3,976.00
FY 2031-32	32,546.33	150.00	32,696.33	1,05,941.50	420.00	1,06,361.50	3,976.00	8.00	3,984.00
FY 2032-33	32,696.33	130.00	32,826.33	1,06,361.50	420.00	1,06,781.50	3,984.00	4.00	3,988.00
FY 2033-34	32,826.33	170.00	32,996.33	1,06,781.50	520.00	1,07,301.50	3,988.00	4.00	3,992.00

The Commission shall examine the MYT filings as per the MYT Regulation in force.

This Order is corrected and signed on this the 29th day of December, 2023.

Sd/-
(BANDARU KRISHNAIAH)
MEMBER

Sd/-
(M.D.MANO HAR RAJU)
MEMBER

Sd/-
(T.SRIRANGA RAO)
CHAIRMAN

//CERTIFIED COPY//

ANNEXURE 1

Schemes wise details for the 5th Control Period approved by the Commission (Rs. Crore)

Substation wise Details									
Sl. No.	Voltage Level	Transmission Plan	Name of the Schemes	Transformer Capacity MVA	Approved (Rs. Crore)				
					FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29
1	400 kV	System Improvement Plan	220kV and 132kV features at 400/11kV Uddandapur SS	2x500+2x160	-	114.99	-	-	-
2	400 kV	System Expansion Plan	400/220kV Integrated Steel Plant SS in Khammam Dist.	2x500	-	202.51*	-	-	-
3	220kV	System Improvement Plan	220/33kV Substation at Kollur	2x50	23.25	-	-	-	-
4	220kV	System Improvement Plan	220/33 kV Substation in the premises of Central Power Research Institute (CPRI) with SAS automation, Hyderabad	2x100	29.13	-	-	-	-
5	220kV	System Improvement Plan	220/33 kV GIS Substation at Nemalinagar in Rangareddy District.	3x100	188.38	-	-	-	-
6	220kV	System Improvement Plan	220/33 kV GIS Substation at Alwal (R.P.Nilayam) in the premises of proposed TIMS (Telangana Institute of Medical Science) super specialty hospital in Medchal-Malkajgiri District instead of 132/33 kV AIS / GIS at R.P.Nilayam in Medchal-Malkajgiri District	3x50	108.95	-	-	-	-
7	220kV	System Improvement Plan	33 kV features at existing 220/132 KV SS Thimmajipet, Marikal (V) in Thimmajipet (M), Nagarkurnool District.	2x16	7.86	-	-	-	-
8	220kV	System Improvement Plan	132kV features at existing 220/33kV SS Nagaram	2x100	-	25.91	-	-	-
9	220kV	System Improvement Plan	220/33kV SS Sainikpuri	2x100	-	-	21.45	-	-
10	220kV	System Improvement Plan	132 KV & 33 KV features at existing 220 KV SS Switching station, Chalakurthy	2x160+2x80	-	-	61.88	-	-
11	220kV	System Improvement Plan	220/132/33kV Substation at Kachavani Singaram	2x100+2x50	-	-	-	41.45	-
12	220kV	System Improvement Plan	Up gradation of existing 132/33kV RC Puram SS to 220/132/33kV SS	2x160	-	-	-	35.37	-
13	220kV	System Improvement Plan	33kV features at 220kV SS Medchal	2x50	-	-	-	15	-
14	220kV	System Improvement Plan	33 KV features at 220/11kV SS Vemnur	2x50	-	-	-	-	15
15	132 kV	System Improvement Plan	132/33kV SS Puttandoddi (V), Itikyal (M)	1x31.5+1x10/16	11.95	-	-	-	-
16	132 kV	System Improvement Plan	132/33kV SS Kanchanpally(V) of Valigonda(M)	2x50	14.96	-	-	-	-

TSERC Order for TSTRANSCO Resource Plan for 5th Control Period (FY 2024-25 to FY 2028-29) and 6th Control Period (FY 2029-30 to FY 2033-34)

Substation wise Details									
Sl. No.	Voltage Level	Transmission Plan	Name of the Schemes	Transformer Capacity MVA	Approved (Rs. Crore)				
					FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29
17	132 kV	System Improvement Plan	132/33kV SS at Choppadandi	2x31.5	13.61	-	-	-	-
18	132 kV	System Improvement Plan	132/33kV SS Dandu Malkapur in Yadadri Bhuvanagiri District	2x50	15.44	-	-	-	-
19	132 kV	System Improvement Plan	132/33kV SS K.C Thanda, Maheswram (M)	2x50	15.68	-	-	-	-
20	132 kV	System Improvement Plan	132/33kV SS Boinpally	2x31.5	14.28	-	-	-	-
21	132 kV	System Improvement Plan	132/33kV SS at Ankampalem(V), Dammamet (M)	2x31.5	14.28	-	-	-	-
22	132 kV	System Improvement Plan	132/33kV SS at Dilwapur	2x31.5	14.28	-	-	-	-
23	132 kV	System Improvement Plan	132/33kV SS Singarajupally	2x50	15.68	-	-	-	-
24	132 kV	System Improvement Plan	132/33kV SS Bommalararam	2x31.5	14.28	-	-	-	-
25	132 kV	System Improvement Plan	132/33kV SS Aziznagar	2x50	15.68	-	-	-	-
26	132 kV	System Improvement Plan	132/33kV SS Abdullapurmet	2x50	15.68	-	-	-	-
27	132 kV	System Improvement Plan	132/33 kV Sub-Station at Vemula (V), Addakal (M) in Mahabubnagar District instead of 132/33 kV SS at Addakal (V) & (M) in Mahabubnagar District	2x50	17.86	-	-	-	-
28	132 kV	System Improvement Plan	132/33kV SS Seetharambagh	2x80	-	23.81	-	-	-
29	132 kV	System Improvement Plan	132/33 kV SS at Tallapet.	3x16	-	8.57	-	-	-
30	132 kV	System Improvement Plan	132/33 kV SS at Pitlam	2x31.5	-	12.75	-	-	-
31	132 kV	System Improvement Plan	Erection of 132/33kV SS at Muthireddy gudem village of Muthkondur Mandal Yadadri bhongir Dist	2x50	-	21.08	-	-	-
32	132 kV	System Improvement Plan	132/33kV Substation at PTO, Petlaburz	2x80	-	-	23.82	-	-
33	132 kV	System Improvement Plan	132/33kV SS at Kothanandikonda(V) , Adavidevulapally (M)	2x31.5	-	-	14.28	-	-
34	132 kV	System Improvement Plan	132/33kV SS Neredugomma.	2x31.5	-	-	14.28	-	-
35	132 kV	System Improvement Plan	132/33 KV SS at Peddapally, Karimnagar Dist	2x50	-	-	21.08	-	-
36	132 kV	System Improvement Plan	132/33 KV SS at Pangal, Wanaparthy Dist	2x50	-	-	21.08	-	-
37	132 kV	System Improvement Plan	132/33kV IDA Mallapur SS.	1x80+1x50	-	-	-	16.05	-
38	132 kV	System Improvement Plan	33kV features at 132/11kV LI SS Kothakota (V) & (M)	2x31.5	-	-	-	14.28	-
39	132 kV	System Improvement Plan	132/33kV SS at Enugalu (V) of Parvathagiri (M)	2x31.5	-	-	-	14.28	-
40	132 kV	System Improvement Plan	132/33kV SS Kannaigudem(V) & (M)	2x31.5	-	-	-	14.28	-
41	132 kV	System Improvement Plan	132/33kV SS Seetharampur (V), Gundala (M)	2x31.5	-	-	-	14.28	-
42	132 kV	System Improvement Plan	132/33kV SS Thurkalamaddikunta	2x31.5	-	-	-	14.28	-
43	132 kV	System Improvement Plan	132/33kV SS at Burgampahad	2x31.5	-	-	-	14.28	-
44	132 kV	System Improvement Plan	132/33kV Nallabelly	2x31.5	-	-	-	14.28	-

TSERC Order for TSTRANSCO Resource Plan for 5th Control Period (FY 2024-25 to FY 2028-29) and 6th Control Period (FY 2029-30 to FY 2033-34)

Substation wise Details									
Sl. No.	Voltage Level	Transmission Plan	Name of the Schemes	Transformer Capacity MVA	Approved (Rs. Crore)				
					FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29
45	132 kV	System Improvement Plan	132/33kV SS Chada	2x31.5	-	-	-	14.28	-
46	132 kV	System Improvement Plan	132/33kV Somaram	2x31.5	-	-	-	14.28	-
47	132 kV	System Improvement Plan	132/33 kV SS near around V.M Home, Saroornagar, Rythu Bazar (Kothapet)	2x80	-	-	-	17.41	-
48	132 kV	System Improvement Plan	132/33 KV SS at Fruit market Koheda, RR Dist	2x50	-	-	-	21.08	-
49	132 kV	System Improvement Plan	132/33kV Substation at Kondapur (V) & Dhanwada (M).	2x31.5	-	-	-	-	13.23
			Total		551.23	207.11	177.87	274.88	28.23

Transmission Lines wise details									
Sl. No.	Voltage Level	Transmission Plan	Name of the Schemes	Length ckm	Approved (Rs. Crore)				
					FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29
1	400kV	System Expansion Plan	400kV QMDC Line from Julurupadu SS to 400kV SS at Integrated Steel Plant in Khammam Dist.	100	-	212.00*	-	-	-
2	220kV	System Improvement Plan	220kV DC line from 400/220/132kV Narsapur SS to 220/132/33kV Minpur SS	65	114.4	-	-	-	-
3	220kV	System Improvement Plan	LILO of one circuit of existing 220kV Gachibowli - Shankarpally DC line at proposed 220/33kV Kollur SS.	3	3.62	-	-	-	-
4	220kV	System Improvement Plan	Providing second Source of supply to 220/132kV GIS SS Osmania University from 220kV SS Nagole by Laying of 220kV XLPE UG Cable	14	124.40	-	-	-	-
5	220kV	System Improvement Plan	Making LILO of 220KV Shivarampally-Gachibowli OH Line to proposed 220/33KV GIS SS Nemalinagar (with UG cable)	6	Cost included in Substation	-	-	-	-
6	220kV	System Improvement Plan	Making LILO of 220KV Shapurnagar - Moulali over head line (proposed to upgrade from existing 132 kV to 220 kV) with HTLS conductor to proposed 220/33 kV GIS Substation Alwal (R.P. Nilayam)	1	Cost included in Substation	-	-	-	-
7	220kV	System Improvement Plan	Making LILO of one circuit of existing 220 KV Jagitial – Nirmal DC line to 400 KV SS Nirmal in karimnagar Dist.	10	17.60	-	-	-	-

TSERC Order for TSTRANSCO Resource Plan for 5th Control Period (FY 2024-25 to FY 2028-29) and 6th Control Period (FY 2029-30 to FY 2033-34)

Transmission Lines wise details									
Sl. No.	Voltage Level	Transmission Plan	Name of the Schemes	Length ckm	Approved (Rs. Crore)				
					FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29
8	220kV	System Improvement Plan	220kV Single Moose DC Line from proposed 400/220/132kV KTPP SS to 220/132kV Manthani SS	98	-	67.62	-	-	-
9	220kV	System Improvement Plan	220kV DC line from 400kV Uddandapur LISS to 220/132kV Kosigi SS.	120	-	85.20	-	-	-
10	220kV	System Improvement Plan	220kV DC line from 400kV Uddandapur LISS to 220/132kV Shadnagar SS.	100	-	92.50	-	-	-
10	220kV	System Improvement Plan	Proposed upgradation of 132kV Moulali-Gunrock line to 220kV line duly making LILO to proposed 220/33kV SS Sainikpuri with 1000Sq.mm XLPE UG Cable	4	-	-	40.00	-	-
11	220kV	System Improvement Plan	Up gradation of existing 132kV Gachibowli-RC Puram DC line to 220kV DC line	20	-	-	-	22.83	-
12	220kV	System Improvement Plan	Erection of 220kV DC line for LILO of circuit – II of the existing 220kV Ghanapur SS – 220kV Hayathnagar SS to the proposed 220kV Sub-Station Kachavani Singaram.	4	-	-	-	1.54	-
13	220kV	System Improvement Plan	Erection of 220kV DC for LILO of circuit – I of the existing 220kV Ghanapur SS – 220kV Chandrayangutta SS to the proposed 220kV Sub-Station Kachavani Singaram	4	-	-	-	1.54	-
14	132kV	System Improvement Plan	132kV LILO of existing 132kV Maddur – Makthal DC/SC line to 132/33kV Narayanpet Sub-Station	2	2.87	-	-	-	-
15	132kV	System Improvement Plan	a) 132kV 2 nd circuit from 220/132kV SS Kamareddy to Loc No 33-34 of 132kV DC/SC line of 132kV SS Chippapally	10	1.20	-	-	-	-
16	132kV	System Improvement Plan	b) 132kV DC/SC line from loc 33-34 of 132kV DC/SC line of 132kV SS Chippapally to 132/33kV SS Domakonda	5.5	2.59	-	-	-	-
17	132kV	System Improvement Plan	c) 132kV 2 nd Circuit from 132/33kV SS Domakonda to 132/33kV SS Biknur	9	1.08	-	-	-	-
18	132kV	System Improvement Plan	132kV 2 nd circuit stringing from 132/33kV SS Amangal to 132/33kV SS Keshampet	27.63	6.16	-	-	-	-
19	132kV	System Improvement Plan	132kV DC/SC line on Galvanised Towers with Panther ACSR from the existing 132/33kV Sub-Station, Ramannapet to the proposed 132kV Sub-Station at Kanchanpally	15	7.40	-	-	-	-

TSERC Order for TSTRANSCO Resource Plan for 5th Control Period (FY 2024-25 to FY 2028-29) and 6th Control Period (FY 2029-30 to FY 2033-34)

Transmission Lines wise details									
Sl. No.	Voltage Level	Transmission Plan	Name of the Schemes	Length ckm	Approved (Rs. Crore)				
					FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29
20	132kV	System Improvement Plan	132kV DC/SC line on Galvanised Towers with Panther ACSR for LILO of 132kV Alampur – Gadwal line at the proposed 132/3 kV Puttandoddi Sub-Station.	6	1.81	-	-	-	-
21	132kV	System Improvement Plan	132kV DC/SC line from 132/33KV Choutuppal SS to proposed 132/33kV SS at Dandu Malkapur	18	18.18	-	-	-	-
22	132kV	System Improvement Plan	2 nd circuit from 220kV Shadnagar to 132kV SS Srirangapur.	13.4	3.35	-	-	-	-
23	132kV	System Improvement Plan	a) Stringing of two circuits on already approved (under construction) 132kV Multi circuit towers from 220/132KV SS Manthani up to Loc. No. 19 of existing 132kV Manthani – Kataram line	10	0.95	-	-	-	-
24	132kV	System Improvement Plan	b) 132kV DC line from existing Loc. No. 19 upto Loc.No. 34A, of 132kV Manthani – Kataram line	10	2.10	-	-	-	-
25	132kV	System Improvement Plan	c) Stringing of 2 nd circuit from newly proposed DC line (from Loc No. 34A of 132kV Manthani – Kataram) to 132/33kV Chennur SS on the existing DC/SC line	19	2.28	-	-	-	-
26	132kV	System Improvement Plan	d) Stringing of 2 nd circuit from Loc. No. 34A of existing 132kV Manthani – Kataram line to 132/33kV SS Kataram	26	3.12	-	-	-	-
27	132kV	System Improvement Plan	132kV DC/SC line for LILO of 132kV line from 220kV Malyalapally SS to 220kV Durshed SS at the proposed 132/33kV Choppadandi SS	26	9.25	-	-	-	-
28	132kV	System Improvement Plan	Erection of 132kV DC/SC line from 220/132kV SS Jangaon to proposed 132/33kV SS Singarajupally	28.5	30.78	-	-	-	-
29	132kV	System Improvement Plan	132kV LILO of 132kV Ghanpur-Sanghi to proposed 132/33kV SS Abdullapurmet	6	7.20	-	-	-	-
30	132kV	System Improvement Plan	132kV 2 nd circuit stringing from 132/33KV SS Ghanapur to 132/33 KV Abdullapurmet SS	19	3.23	-	-	-	-
31	132kV	System Improvement Plan	132 KV DC line from 220/132/33 KV SS Bhongiri to proposed 132/33 KV SS Bommalararam	44	26.40	-	-	-	-
32	132kV	System Improvement Plan	132 KV DC line from Kanakamamidi to proposed 132/33 KV SS Aziznagar	22	13.20	-	-	-	-
33	132kV	System Improvement Plan	132 kV LILO of 132kV Durshed -Mallaram line to 132/33 kV SS Boinpally	14	16.80	-	-	-	-

TSERC Order for TSTRANSCO Resource Plan for 5th Control Period (FY 2024-25 to FY 2028-29) and 6th Control Period (FY 2029-30 to FY 2033-34)

Transmission Lines wise details									
Sl. No.	Voltage Level	Transmission Plan	Name of the Schemes	Length ckm	Approved (Rs. Crore)				
					FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29
34	132kV	System Improvement Plan	132 kV LILO of 132kV Sarangapur-132kV SS Bhainsa to 132 kV Dilwapur	16	19.20	-	-	-	-
35	132kV	System Improvement Plan	132 kV LILO of 132kV Khammam-132kV SS Peddagopathi to 132 kV Ankampalem	8	9.60	-	-	-	-
36	132kV	System Improvement Plan	132 kV LILO of 132kV Shamshabad-132kV SS Kothur to 132 kV K.C.Thanda	12	14.40	-	-	-	-
37	132kV	System Improvement Plan	132 kV DC/SC line from 132/33kV SS Khillaghnapur to the proposed 132/33 kV Vemula SS on galvanised towers with panther ACSR Conductor	13	14.04	-	-	-	-
38	132kV	System Improvement Plan	Erection of 132 kV DC/SC line from 220/132 kV SS Madugula to 132kV Switching station Godakondla in Nalgonda Dist.	16	18.97	-	-	-	-
39	132kV	System Improvement Plan	Making LILO of 132 kV Dharmaram - Godur line to 220/132 KV SS Jagityal in Jagityal District.	2	3.15	-	-	-	-
40	132kV	System Improvement Plan	2nd circuit stringing on existing DC/SC solid tapping line from tapping tower location No. 28 of 132 Kv Pochampad - Nirmal line up to 132/33 KV SS Burgupally in Adilabad Dist.	33	6.49	-	-	-	-
41	132kV	System Improvement Plan	132 kV DC line from 220/132/33kV SS Shapurnagar to 132/33kV SS Chintal (including 1 kM 630 sq mm cable) in Medchal – Malkajgiri Dist	10	14.20	-	-	-	-
42	132kV	System Improvement Plan	132kV DC/SC line from existing 132/33kV Zaheerabad SS to existing 132/33kV SS Narayankhed	60	-	52.59	-	-	-
43	132kV	System Improvement Plan	a) Connecting the existing 132kV Shapurnagar – Bhongir – Aleru line to 400/220/132kV Malkaram SS and 400/220/132kV Ghanapur SS (UG cable)	2	-	14.25	-	-	-
44	132kV	System Improvement Plan	b) Second circuit stringing of existing 132kV DC/SC line for connecting the existing 132kV Shapurnagar – Bhongir – Aleru idle line to 400/220/132kV Malkaram Sub-Station	5	-	1.83	-	-	-
45	132kV	System Improvement Plan	132kV DC/SC line from 220/132/33kV Banswada SS to the proposed 132/33kV Pitlam SS.	26.5	-	19.81	-	-	-
46	132kV	System Improvement Plan	132kV DC line for LILO of upcoming 132kV Dharmapuri - Luxettipet at the proposed 132/33kV SS, Tallapet	30	-	8.02	-	-	-

TSERC Order for TSTRANSCO Resource Plan for 5th Control Period (FY 2024-25 to FY 2028-29) and 6th Control Period (FY 2029-30 to FY 2033-34)

Transmission Lines wise details									
Sl. No.	Voltage Level	Transmission Plan	Name of the Schemes	Length ckm	Approved (Rs. Crore)				
					FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29
47	132kV	System Improvement Plan	132kV Multi circuit towers with ACSR panther conductor for making LILO of 132kV Warangal-Kamalapur line and 132kV Warangal-Kalvasirampur line to existing 220kV SS Nagaram.	8.8	-	4.11	-	-	-
48	132kV	System Improvement Plan	132kV DC line with Single Moose from proposed 220/132kV Indravelly SS to 132/33kV Asifabad SS on 220kV Galvanized DC towers	148	-	59.94	-	-	-
49	132kV	System Improvement Plan	132kV DC line with 630 Sqmm 132kV UG cable from Asifnagar Sub-Station to the proposed 132/33kV GIS substation at Seetharambagh	8	-	37.98	-	-	-
50	132kV	System Improvement Plan	132kV DC line from 132/33kV SS Munugodu to 400/220/132kV SS Choutuppal	42	-	25.20	-	-	-
51	132kV	System Improvement Plan	Erection of 132kV DC/SC line from 220/132kV SS Husnabad to 132/33kV SS Mustyal in Jangaon District.	25	-	29.41	-	-	-
52	132kV	System Improvement Plan	Erection of 132kV DC/SC line from 132/33kV SS Mothkur to 132/33kV SS Muthireddygudem in Yadadri Bhuvanagiri District.	26	-	27.82	-	-	-
53	132kV	System Improvement Plan	2 nd circuit stringing from 132/33 kV SS NV puram to 132/33 kV SS Kamalapuram in Warangal Dist.	10	-	1.70	-	-	-
54	132kV	System Improvement Plan	Erection of 132kV DC line from 220/132/33kV SS Renjal to 132/33kV SS Nandipet	54	-	36.70	-	-	-
55	132kV	System Improvement Plan	2nd circuit Stringing from 132/33kV SS Pudur to 132/33/11 kV SS Gangadhara in Karimnagar Dist.	13	-	2.21	-	-	-
56	132kV	System Improvement Plan	132kV DC line from 400kV Uddandapur LISS to 132kV Balanagar SS.	90	-	49.05	-	-	-
57	132kV	System Improvement Plan	132kV DC Line from proposed 220/132kV Indravelly SS to 132/33 kV Uthoor SS	30	-	-	7.65	-	-
58	132kV	System Improvement Plan	a) 2 nd circuit stringing from 132kV SS Nandipet to 132kV LI SS CH. Kondur	7.5	-	-	1.27	-	-
59	132kV	System Improvement Plan	b) LILO of 132kV Nandipet - CH.Kondur line to 132kV LI SS Bagepally	43	-	-	25.80	-	-
60	132kV	System Improvement Plan	132kV DC/SC line from 132/33kV SS Wadapally to 132/33 kV Kothanandikonda SS	38	-	-	41.04	-	-

TSERC Order for TSTRANSCO Resource Plan for 5th Control Period (FY 2024-25 to FY 2028-29) and 6th Control Period (FY 2029-30 to FY 2033-34)

Transmission Lines wise details									
Sl. No.	Voltage Level	Transmission Plan	Name of the Schemes	Length ckm	Approved (Rs. Crore)				
					FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29
61	132kV	System Improvement Plan	132kV DC/SC line from 132/33kV SS Guntipally to 132 kV Neredugomma	25	-	-	27.00	-	-
62	132kV	System Improvement Plan	132 kV DC line with 630 Sqmm 132 kV UG cable and 132 kV DC OH line on galvanised double circuit towers with Panther ACSR from the 220 kV GIS substation, Imlibun to the proposed 132/ 33 kV GS SS at Police Transport Organisation (PTO), Petlaburz		-	-	-	-	-
63	132kV	System Improvement Plan	a) 132 kV DC line with 630 Sqmm 132 kV UG cable	3	-	-	13.53	-	-
64	132kV	System Improvement Plan	b) 132 kV DC OH line on galvanised double circuit towers with Panther ACSR	7	-	-	2.58	-	-
65	132kV	System Improvement Plan	132kV DC/SC line from 132KV SS Kamanpur to proposed 132/33 KV SS at Peddapally	17	-	-	16.83	-	-
66	132kV	System Improvement Plan	132 kV DC line from 220/132/33kV SS Wanaparthy to 132/33kV SS Pangal in Wanaparhy Dist.	32	-	-	16.64	-	-
67	132kV	System Improvement Plan	LILO of 132kV line from 220kV Fabcity SS to 132kV Mamidipally SS at 132kV MD Pally SS	23.6	-	-	-	22.13	-
68	132kV	System Improvement Plan	132kV DC line on Galvanized Towers with Invar ACSR for LILO of circuit – II of the 132kV Ghanapur – Bandlaguda line to the proposed 220/132/33kV Sub-Station, Kachavani Singaram	2	-	-	-	1.01	-
69	132kV	System Improvement Plan	132kV DC line on Galvanized Towers with Panther ACSR for LILO of circuit – II of the 132kV Ghanapur – Moulali line to the proposed 220/132/33kV Sub-Station, Kachavani Singaram.	2	-	-	-	0.50	-
70	132kV	System Improvement Plan	132kV DC OH line on galvanised NB towers with Panther ACSR for LILO of 132kV Ghanapur - Moulali line at the proposed 132kV IDA Mallapur SS	4	-	-	-	3.00	-
71	132kV	System Improvement Plan	2 nd circuit stringing from 132kV SS Sirpur-Khagaznagar to 132kV SS Asifabad on existing towers	32	-	-	-	5.44	-
72	132kV	System Improvement Plan	133kV DC/SC line from 132/33kV Narsampet SS to the proposed 132/33kV Nallabelly SS.	16	-	-	-	17.28	-
73	132kV	System Improvement Plan	132kV DC/SC line from 132/33kV SS Mothkur to proposed 132kV SS Chada	25	-	-	-	27.00	-

TSERC Order for TSTRANSCO Resource Plan for 5th Control Period (FY 2024-25 to FY 2028-29) and 6th Control Period (FY 2029-30 to FY 2033-34)

Transmission Lines wise details									
Sl. No.	Voltage Level	Transmission Plan	Name of the Schemes	Length ckm	Approved (Rs. Crore)				
					FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29
74	132kV	System Improvement Plan	132kV DC/SC line from 220/132/33kV SS Ammavaripet to proposed 132kV SS Somaram	32	-	-	-	34.56	-
75	132kV	System Improvement Plan	132 kV LILO of 132kV Nekkonda-Wardannapet to 132 kV Enugallu	10	-	-	-	12.00	-
76	132kV	System Improvement Plan	132kV DC/SC line from 132/33kV SS Kamalapur to 132/33kV SS Kannaigudem	32	-	-	-	34.56	-
77	132kV	System Improvement Plan	132kV DC/SC line from 132/33kV SS Mothkur to 132 kV Seetharampur	26	-	-	-	28.08	-
78	132kV	System Improvement Plan	LILO of 132kV Durshed-Malyalapalli to 132 kV Thurkalamaddikunta SS	1	-	-	-	1.20	-
79	132kV	System Improvement Plan	LILO of 132kV Seetarampatnam-Bhadrachalam to 132 kV Burgampad SS	10	-	-	-	12.00	-
80	132kV	System Improvement Plan	LILO of 132kV Chandrayanngutta-Bandlaguda to 132 kV V.M.Home SS	6	-	-	-	7.20	-
81	132kV	System Improvement Plan	LILO of Ghanapur-Sanghi line to proposed 132kV SS Koheda	10	-	-	-	5.20	-
82	132kV	System Improvement Plan	2 nd circuit from 132/33kV SS Yerrabelli to 132/33kV SS Munugodu	42	-	-	-	-	7.14
83	132kV	System Improvement Plan	2 nd circuit from Budidampadu to Yellandu	30	-	-	-	-	5.10
84	132kV	System Improvement Plan	2 nd circuit stringing from 132kV SS Chelpur to existing 132/33kV SS Regonda in Warangal District	15	-	-	-	-	2.55
85	132kV	System Improvement Plan	2 nd circuit stringing from 132kV Ayyagaripally SS to 132kV SS Dornakal	20	-	-	-	-	3.40
86	132kV	System Improvement Plan	2 nd circuit stringing from 132/33kV SS Ayyagaripally to existing 132/33kV SS Nellikuduru in Mahabubabad District	27	-	-	-	-	4.59
87	132kV	System Improvement Plan	132kV DC/SC line from 220/132kV SS Janagaon to 132/33kV SS Mustyala in Janagaon District	23.5	-	-	-	-	25.38
88	132kV	System Improvement Plan	2 nd circuit stringing from 220/132kV SS Janagaon to 132/33kV SS Bachannapet in Janagaon District	13.3	-	-	-	-	2.26
89	132kV	System Improvement Plan	132 kV DC/SC Line from 132 kV SS, Maddur to 132/33 kV SS, Kondapur	20	-	-	-	-	21.60
			Total		520.02	615.94	192.34	237.07	72.02

TSERC Order for TSTRANSCO Resource Plan for 5th Control Period (FY 2024-25 to FY 2028-29) and 6th Control Period (FY 2029-30 to FY 2033-34)

Bay Extension wise details

Sl. No.	Voltage Level	Transmission Plan	Name of the Substation at which Bay extension is proposed	Name of line for which the work is proposed	Amount (Rs. Crore)				
					FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29
1	400kV	Sytem Expansion Plan	2 Nos 400kV bays at Julurupadu SS	400kV QMDC Line from Julurupadu SS to Integrated Steel Plant	-	21.50*	-	-	-
2	220kV	System Improvement Plan	400/220/132kV Narsapur SS – 2 Nos and 220/132/33kV Minpur SS - 2Nos	Narsapur - Minpur	7.92	-	-	-	-
3	220kV	System Improvement Plan	220/132/33kV Nagole SS – 2 Nos and GIS feeder Bays at 220/132kV GIS Osmania University SS - 2Nos	Osmania University - Nagole	9.52	-	-	-	-
4	220kV	System Improvement Plan	2 Nos at 400/220kV Nirmal	LILO of 220 kV Jagitial – Nirmal line to 400 KV SS Nirmal	3.96	-	-	-	-
5	220kV	System Improvement Plan	220kV Manthani SS - 2 Nos	KTPP- Manthani	-	3.62	-	-	-
6	220kV	System Improvement Plan	220kV Kosigi SS - 2Nos	Uddandapur - Kosigi	-	3.24	-	-	-
7	220kV	System Improvement Plan	220kV Shadnagar SS - 2Nos	Uddandapur - Shadnagar	-	3.24	-	-	-
8	220kV	System Improvement Plan	220kV Gachibowli SS - 2 Nos with PASS Module	Up gradation of existing 132 KV Gachibowli-RC Puram DC line to 220 KV DC line	-	-	-	5.00	-
9	132kV	System Improvement Plan	132/33kV Narayanpet Sub-Station – 2 Nos	LILO of Maddur – Makthal to Narayanpet SS	2.28	-	-	-	-
10	132kV	System Improvement Plan	a) 220/132kV SS Kamareddy- 1 No	Kamareddy - Domakonda	0.92	-	-	-	-
11	132kV	System Improvement Plan	b) 132/33kV SS Domakonda - 1 No		0.92	-	-	-	-
12	132kV	System Improvement Plan	c) 132/33kV SS Domakonda- 1 No and 132/33kV SS Biknur - 1 No	Domakonda-Biknur	1.84	-	-	-	-
13	132kV	System Improvement Plan	132/33kV SS Amangal - 1 No and 132/33kV SS Keshampet - 1No	Amangal-Keshampet	2.52	-	-	-	-
14	132kV	System Improvement Plan	132/33kV SS Ramannapet - 1No	Ramannapet- Kanchanpally	1.11	-	-	-	-
15	132kV	System Improvement Plan	132/33kV Choutuppall SS – 1 No	Choutuppall - Dandu Malkapur	1.11	-	-	-	-
16	132kV	System Improvement Plan	220kV SS Shadnagar - 1No and	Shadnagar - Srirangapur	2.04	-	-	-	-
17	132kV	System Improvement Plan	132kV SS Srirangapur- 1 No			-	-	-	-
18	132kV	System Improvement Plan		Manthani - Kataram	3.68	-	-	-	-
19	132kV	System Improvement Plan		and		-	-	-	-

TSERC Order for TSTRANSCO Resource Plan for 5th Control Period (FY 2024-25 to FY 2028-29) and 6th Control Period (FY 2029-30 to FY 2033-34)

Bay Extension wise details									
Sl. No.	Voltage Level	Transmission Plan	Name of the Substation at which Bay extension is proposed	Name of line for which the work is proposed	Amount (Rs. Crore)				
					FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29
20	132kV	System Improvement Plan	220/132kVSS Manthani - 2 Nos, 132kV SS Kataram – 1 No and 132kV SS Chennur - 1 No	Manthani- Chennur		-	-	-	-
21	132kV	System Improvement Plan	220/132kV SS Jangaon – 1 No	Jangaon - Singarajupally	1.02	-	-	-	-
22	132kV	System Improvement Plan	132/33kV SS Ghanapur – 1 No and 132/33kV SS Abdullapurmet – 1 No	Ghanapur - Abdullapurmet	2.04	-	-	-	-
23	132kV	System Improvement Plan	132/33 kV Boinpally SS - 2 Nos	LILO of Durshed -Mallaram line to Boinpally	2.04	-	-	-	-
24	132kV	System Improvement Plan	220/132/33 KV SS Bhongiri - 2Nos	Bhongiri - Bommalararam	2.04	-	-	-	-
25	132kV	System Improvement Plan	132/33kV SS Kanakamamidi - 2Nos	Kanakamamidi - Aziznagar	2.04	-	-	-	-
26	132kV	System Improvement Plan	132/33 kV Dilwapur SS - 2 Nos	LILO of Sarangapur – Bhainsa to Dilwapur	2.04	-	-	-	-
27	132kV	System Improvement Plan	132 kV Ankampalem - 2 Nos	LILO of Khammam-Peddagopathi to Ankampalem	2.04	-	-	-	-
28	132kV	System Improvement Plan	132 kV K.C.Thanda - 2 Nos	LILO of Shamshabad-Kothur - K.C.Thanda	2.04	-	-	-	-
29	132kV	System Improvement Plan	132/33 kV SS Khilaghanapur - 1 No.	Khilaghanapur to Vemula	1.02	-	-	-	-
30	132kV	System Improvement Plan	220 kV SS Madugula – 1 No. and 132 kV SWS Godakondla - 1 No	Madgula - Godakondla	2.04	-	-	-	-
31	132kV	System Improvement Plan	220/132 kV SS Jagityal - 2 Nos	LILO of Dharmaram-Goduru to Jagityal	1.97	-	-	-	-
32	132kV	System Improvement Plan	132/33 KV SS Burugupally - 1 No	2nd circuit stringing to Burugupally	0.92	-	-	-	-
33	132kV	System Improvement Plan	220/132/33 KV SS Shapurnagar - 2 Nos and 132/33 kV Chintal SS - 2 Nos	Shapurnagar - Chintal	3.68	-	-	-	-
34	132kV	System Improvement Plan	132/33kV Zaheerabad SS – 1 No and 132/33 kV SS Narayankhed- 1No	Zaheerabad - Narayankhed	-	2.28	-	-	-
35	132kV	System Improvement Plan	220kV SS Shapurnagar – 1 No and	Connecting the existing 132 kV Shapurnagar – Bhongir –	-	2.28	-	-	-
36	132kV	System Improvement Plan	400kV SS Malkaram - 1 No	Aleru line to 400/220/132 kV	-		-	-	-

TSERC Order for TSTRANSCO Resource Plan for 5th Control Period (FY 2024-25 to FY 2028-29) and 6th Control Period (FY 2029-30 to FY 2033-34)

Bay Extension wise details									
Sl. No.	Voltage Level	Transmission Plan	Name of the Substation at which Bay extension is proposed	Name of line for which the work is proposed	Amount (Rs. Crore)				
					FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29
				Malkaram SS and 400/220/132 kV Ghanapur SS					
37	132kV	System Improvement Plan	132/33kV Asifabad SS – 2 Nos	Indravelly - Asifabad	-	1.92	-	-	-
38	132kV	System Improvement Plan	132/33kV Asifnagar SS – 2 Nos	Asifnagar - Seetharambagh	-	1.84	-	-	-
39	132kV	System Improvement Plan	132/33kV SS Munugodu – 2 Nos	Munugodu - Choutuppall	-	4.08	-	-	-
40	132kV	System Improvement Plan	and 400/220/132kV SS Choutuppall – 2 Nos		-		-	-	-
41	132kV	System Improvement Plan	220/132/33 KV SS Husbanbad - 1 No &	Husnabad - Mustyal	-	1.84	-	-	-
42	132kV	System Improvement Plan	132/33 kV Mustyal SS - 1 No		-		-	-	-
43	132kV	System Improvement Plan	132/33 KV SS Mothkur - 1 No	Mothkur - Muthireddygudem	-	0.92	-	-	-
44	132kV	System Improvement Plan	132/33 KV SS NV Puram - 1 No & Kamalapuram - 1 No	NV Puram - Kamalapuram	-	1.84	-	-	-
45	132kV	System Improvement Plan	220/132 KV SS Renzal - 2 Nos &	Renzal - Nandipet	-	3.68	-	-	-
46	132kV	System Improvement Plan	132/33 kV Nandipet SS - 2 Nos		-		-	-	-
47	132kV	System Improvement Plan	132/33kV SS Pudur - 1 No &	Pudur - Gangadhara	-	1.84	-	-	-
48	132kV	System Improvement Plan	132/33/11 kV SS Gangadhara - 1 No		-		-	-	-
49	132kV	System Improvement Plan	132kV SS Balanagar – 2 Nos.	Uddandapur - Balanagar	-	1.9	-	-	-
50	132kV	System Improvement Plan	132/33 kV Utnoor SS – 2 Nos	Indravelly - Utnoor	-	-	1.92	-	-
51	132kV	System Improvement Plan	a) 132kV SS Nandipet – 1 No and	Nandipet - CH. Kondur	-	-	2.04	-	-
52	132kV	System Improvement Plan	132kV LI SS CH. Kondur – 1 No		-	-		-	-
53	132kV	System Improvement Plan	b) 132kV LI SS Bagepally – 2 Nos	LILO of Nandipet - CH.Kondur line to Bagepally	-	-	2.04	-	-
54	132kV	System Improvement Plan	132/33kV SS Wadapally - 1 No	Wadapally - Kothanandikonda	-	-	2.04	-	-
55	132kV	System Improvement Plan	132/33kV SS Kothanandikonda - 1No		-	-		-	-
56	132kV	System Improvement Plan	132/33kV SS Guntipally-1 No	Guntipally - Neredugomma	-	-	2.04	-	-
57	132kV	System Improvement Plan	132/33kV SS Neredugomma-1 No		-	-		-	-
58	132kV	System Improvement Plan	132KV SS Kamanpur SS - 1No.	Kamanpur - Peddapally	-	-	0.98	-	-
59	132kV	System Improvement Plan	220 kV Wanaparthy - 2 Nos	Wanaparthy-Pangal	-	-	1.96	-	-
60	132kV	System Improvement Plan	220/132kV RC Puram SS - 6 Nos	Up gradation of existing 132 KV Gachibowli-RC Puram DC line to 220 KV DC line	-	-	-	6.90	-

TSERC Order for TSTRANSCO Resource Plan for 5th Control Period (FY 2024-25 to FY 2028-29) and 6th Control Period (FY 2029-30 to FY 2033-34)

Bay Extension wise details									
Sl. No.	Voltage Level	Transmission Plan	Name of the Substation at which Bay extension is proposed	Name of line for which the work is proposed	Amount (Rs. Crore)				
					FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29
61	132kV	System Improvement Plan	132/33kV SS MD Pally - 2 Nos	LILO of Fabcity - Mamidipally to MD Pally	-	-	-	1.84	-
62	132kV	System Improvement Plan	132kV SS Sirpur-Khagaznagar – 1 No and 132kV SS Asifabad – 1 No	Sirpur-Khagaznagar - Asifabad	-	-	-	2.04	-
63	132kV	System Improvement Plan	132/33kV Narsampet SS – 1 No	Narsampet - Nallabelly	-	-	-	2.04	-
64	132kV	System Improvement Plan	and 132/33kV Nallabelly SS - 1 No		-	-	-		-
65	132kV	System Improvement Plan	132/33kV SS Mothkur - 1No	Mothkur - Chada	-	-	-	1.02	-
66	132kV	System Improvement Plan	220/132/33kV SS Ammavaripet – 1 No	Ammavaripet - Somaram	-	-	-	1.02	-
67	132kV	System Improvement Plan	132kV Enugallu - 2 Nos	LILO of Nekkonda-Wardannapet to Enugallu	-	-	-	2.04	-
68	132kV	System Improvement Plan	132/33kV SS Kamalapur-1 No	Kamalapur - Kannaigudem	-	-	-	2.04	-
69	132kV	System Improvement Plan	132/33kV SS Kannaigudem - 1 No		-	-	-		-
70	132kV	System Improvement Plan	132/33kV SS Mothkur -1 No	Mothkur - Seetharampur	-	-	-	2.04	-
71	132kV	System Improvement Plan	132/33 kV Seetharampur -1 No		-	-	-		-
72	132kV	System Improvement Plan	132 kV Thurkalamaddikunta SS - 2 Nos	LILO of Durshed-Malyalapalli to Thurkalamaddikunta	-	-	-	2.04	-
73	132kV	System Improvement Plan	132 kV Burgampad SS - 2 Nos	LILO of Seetarampatnam-Bhadrachalam to Burgampad	-	-	-	2.04	-
74	132kV	System Improvement Plan	132 kV V.M.Home SS -2 Nos	LILO of Chandrayangutta-Bandlaguda to V.M.Home	-	-	-	2.04	-
75	132kV	System Improvement Plan	132/33kV SS Yerrabelli – 1 No	Yerrabelli - Munugodu	-	-	-	-	2.04
76	132kV	System Improvement Plan	and 132/33kV SS Munugodu - 1No		-	-	-	-	
77	132kV	System Improvement Plan	220kV Budidampadu SS - 1No and	Budidampadu - Yellandu	-	-	-	-	2.04
78	132kV	System Improvement Plan	132kV Yellandu SS - 1No		-	-	-	-	
79	132kV	System Improvement Plan	132kV SS Ayyagaripally – 1 No	Ayyagaripally - Nellikuduru	-	-	-	-	2.04
80	132kV	System Improvement Plan	132kV SS Nellikuduru – 1 No		-	-	-	-	
81	132kV	System Improvement Plan	220kV SS Janagaon – 1 No	Janagaon - Mustyala	-	-	-	-	2.04
82	132kV	System Improvement Plan	132kV SS Mustyala- 1 No		-	-	-	-	
83	132kV	System Improvement Plan	132kV SS Ayyagaripally – 1 No	Ayyagaripally - Dornakal	-	-	-	-	2.04
84	132kV	System Improvement Plan	132kV SS Dornakal – 1 No		-	-	-	-	
85	132kV	System Improvement Plan	132kV SS Chelpur – 1 No	Chelpur- Regonda	-	-	-	-	2.04
86	132kV	System Improvement Plan	132kV SS Regonda – 1 No		-	-	-	-	

TSERC Order for TSTRANSCO Resource Plan for 5th Control Period (FY 2024-25 to FY 2028-29) and 6th Control Period (FY 2029-30 to FY 2033-34)

Bay Extension wise details

Sl. No.	Voltage Level	Transmission Plan	Name of the Substation at which Bay extension is proposed	Name of line for which the work is proposed	Amount (Rs. Crore)				
					FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29
87	132kV	System Improvement Plan	220kV SS Janagaon – 1 No	Janagaon - Bachannapet	-	-	-	-	2.04
88	132kV	System Improvement Plan	132kV SS Bachannapet- 1 No		-	-	-	-	
89	132kV	System Improvement Plan	132 kV SS, Maddur - 1 No	Maddur - Kondapur	-	-	-	-	2.04
90	132kV	System Improvement Plan	132/33 kV SS, Kondapur - 1 No		-	-	-	-	
Total					62.75	34.52	13.02	32.1	16.32

Power Transformer Capacities

Sl. No.	Voltage Level	Transmission Plan	Name of the Substation at which augmentation of Power Transformer is proposed	Existing capacity of Power Transformer in MVA	Capacity of power transformers after augmentation in MVA	Approved (Rs. Crore)				
						FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29
1	220kV	System Improvement Plan	220kV Kalwakurthy SS	2x160+1x100	3x160	10.00	-	-	-	-
2	220kV	System Improvement Plan	220kV Moulali SS	1x100 + 2x160	3x160	10.00	-	-	-	-
3	220kV	System Improvement Plan	220kV Nagole SS	2x100	1x100+1x160	10.00	-	-	-	-
4	220kV	System Improvement Plan	220kV Siricilla SS	3x100	1x160+2x100	10.00	-	-	-	-
5	220kV	System Improvement Plan	220kV Kosgi SS	2x100	1x160+2x100	12.00	-	-	-	-
6	220kV	System Improvement Plan	220kV Sadasivpet SS	1x160+1x100	2x160	10.00	-	-	-	-
7	220kV	System Improvement Plan	220kV Shivarampally SS	2x160+2x100	3x160+1x100	-	10.00	-	-	-
8	220kV	System Improvement Plan	220kV Madgula SS	2x100	3x100	-	10.00	-	-	-
9	220kV	System Improvement Plan	220/132kV Huzurabad SS	1x160+2x100	2x160+1x100	-	10.00	-	-	-
10	220kV	System Improvement Plan	220kV Jurala SS	2x160+1x100	3x160+1x100	-	12.00	-	-	-
11	220kV	System Improvement Plan	220kV Siddipet SS	1x160+2x100	2x160+1x100	-	10.00	-	-	-
12	220kV	System Improvement Plan	220kV Nagole SS	1x100 +1x160	2x160	-	-	10.00	-	-
13	220kV	System Improvement Plan	220/132kV Siricilla SS	1x160+2x100	2x160+1x100	-	-	10.00	-	-
14	220kV	System Improvement Plan	220kV Yeddumailram SS	2x160+1x100	3x160	-	-	10.00	-	-
15	220kV	System Improvement Plan	220kV Timmajipet SS	2x100	1x100+1x160	-	-	10.00	-	-
16	220kV	System Improvement Plan	220kV Nagarkurnool SS	2x100	1x100+1x160	-	-	10.00	-	-
17	220kV	System Improvement Plan	220kV Fabcity SS	3x100	1x160+2x100	-	-	-	12.00	-
18	220kV	System Improvement Plan	220/132kV Huzurabad SS	2x160+1x100	3x160	-	-	-	10.00	-
19	220kV	System Improvement Plan	220kV Kosgi SS	1x160+2x100	2x160+1x100	-	-	-	10.00	-

TSERC Order for TSTRANSCO Resource Plan for 5th Control Period (FY 2024-25 to FY 2028-29) and 6th Control Period (FY 2029-30 to FY 2033-34)

Power Transformer Capacities										
Sl. No.	Voltage Level	Transmission Plan	Name of the Substation at which augmentation of Power Transformer is proposed	Existing capacity of Power Transformer in MVA	Capacity of power transformers after augmentation in MVA	Approved (Rs. Crore)				
						FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29
20	220kV	System Improvement Plan	220kV Sadasivpet SS	2x160	2x160+1x100	-	-	-	10.00	-
21	220kV	System Improvement Plan	220 /33kV GIS Chanchalguda SS	3x50	4x50	-	-	-	-	5.00
22	220kV	System Improvement Plan	220kV Shadnagar SS	1x160+2x100	2x160+1x100	-	-	-	-	10.00
23	220kV	System Improvement Plan	220kV Chegur SS	2x160	2x160+1x100	-	-	-	-	10.00
24	220kV	System Improvement Plan	220kV Shamshabad SS	3x100	2x100+1x160	-	-	-	-	10.00
25	220kV	System Improvement Plan	400kV Malkaram SS	1x100+1x160	2x160	-	-	-	-	10.00
26	220kV	System Improvement Plan	220/132kV Siricilla SS	2x160+1x100	3x160	-	-	-	-	10.00
27	220kV	System Improvement Plan	220kV Siddipet SS	2x160+1x100	3x160	-	-	-	-	10.00
28	132kV	System Improvement Plan	132kV IDPL SS	1x80+1x50	2x80	3.00	-	-	-	-
29	132kV	System Improvement Plan	132kV Gudur SS	1x31.5+1x16	2x31.5	4.00	-	-	-	-
30	132kV	System Improvement Plan	132kV Kothur SS	3x50	1x80+2x50	6.00	-	-	-	-
31	132kV	System Improvement Plan	132kV Bhiknoor SS	1x31.5+1x16	2x31.5	4.00	-	-	-	-
32	132kV	System Improvement Plan	132kV Alwal (Keshampet) SS	2x31.5	3x31.5	4.50	-	-	-	-
33	132kV	System Improvement Plan	132kV Srirangapur SS	1x31.5+1x50	2x31.5+1x50	4.50	-	-	-	-
34	132kV	System Improvement Plan	132kV Mothkur SS	2x50	2x50+1x31.5	5.00	-	-	-	-
35	132kV	System Improvement Plan	132kV NimmapallySS	2x16	1x31.5+1x16	4.00	-	-	-	-
36	132kV	System Improvement Plan	132kV Ch. Kondur SS	2x16	1x16+1x31.5	4.00	-	-	-	-
37	132kV	System Improvement Plan	132kV LGM Pet SS	2x50	1x80+1x50	6.00	-	-	-	-
38	132kV	System Improvement Plan	132kV Dharmasagar LIS	1x50	1x50+1x31.5	4.50	-	-	-	-
39	132kV	System Improvement Plan	132kV Balanagar SS	2x50+1x80	2x80+1x50	6.00	-	-	-	-
40	132kV	System Improvement Plan	132/33kV Sirikonda SS	1x31.5+1x50	2x50	5.00	-	-	-	-
41	132kV	System Improvement Plan	220kV Bheemgal SS	1x80+1x50	2x80	6.00	-	-	-	-
42	132kV	System Improvement Plan	132/33kV Lingampet SS	2x31.5	1x31.5 +1x50	5.00	-	-	-	-
43	132kV	System Improvement Plan	132/33kV Marikal SS	3x31.5	2x50 +1x31.5	5.00	-	-	-	-
44	132kV	System Improvement Plan	220kV Moulali SS	1x50 + 2x80	2x50 + 2x80	5.50	-	-	-	-
45	132kV	System Improvement Plan	220kV Nagole SS	1x31.5+1x80	2x80	6.00	-	-	-	-
46	132kV	System Improvement Plan	220 /132/33kV GIS Osmania University	2x80	3x80	-	4.50	-	-	-
47	132kV	System Improvement Plan	132kV MD Pally SS	1x80+2x50	2x80+1x50	-	6.00	-	-	-
48	132kV	System Improvement Plan	220kV Shamshabad SS	2x50	3x50	-	5.50	-	-	-

TSERC Order for TSTRANSCO Resource Plan for 5th Control Period (FY 2024-25 to FY 2028-29) and 6th Control Period (FY 2029-30 to FY 2033-34)

Power Transformer Capacities										
Sl. No.	Voltage Level	Transmission Plan	Name of the Substation at which augmentation of Power Transformer is proposed	Existing capacity of Power Transformer in MVA	Capacity of power transformers after augmentation in MVA	Approved (Rs. Crore)				
						FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29
49	132kV	System Improvement Plan	132kV Mamidipally SS	2x50+1x31.5	3x50	-	5.00	-	-	-
50	132kV	System Improvement Plan	220kV Madgula SS	2x31.5	2x50	-	10.00	-	-	-
51	132kV	System Improvement Plan	132kV ZTS Moulali SS	2x50	1x50+1x80	-	6.00	-	-	-
52	132kV	System Improvement Plan	132/33kV Mulkanoor SS	2x31.5	1x31.5+1x50	-	5.00	-	-	-
53	132kV	System Improvement Plan	132/33kV Jangapally SS	3x16	2x31.5+1x16	-	8.00	-	-	-
54	132kV	System Improvement Plan	132/33kV Kachapur SS	3x16	2x31.5+1x16	-	8.00	-	-	-
55	132kV	System Improvement Plan	132kV Maddur SS	2x31.5+1x50	1x31.5+2x50	-	5.00	-	-	-
56	132kV	System Improvement Plan	132kV Midjil SS	2x31.5	3x31.5	-	4.50	-	-	-
57	132kV	System Improvement Plan	132kVPashamylaram SS	4x50	3x50+1x80	-	6.00	-	-	-
58	132kV	System Improvement Plan	132kVKowdipally SS	2x50	1x80+1x50	-	6.00	-	-	-
59	132kV	System Improvement Plan	132kV Medak SS	3x50	2x50+1x80	-	6.00	-	-	-
60	132kV	System Improvement Plan	132kV Narayankhed SS	2x50	1x80+1x50	-	6.00	-	-	-
61	132kV	System Improvement Plan	132kV Aitipamula SS	1x80+1x31.5	1x80+1x50	-	5.00	-	-	-
62	132kV	System Improvement Plan	132kV Choutuppall SS	3x50	1x80+2x50	-	6.00	-	-	-
63	132kV	System Improvement Plan	132/33kV Karimnagar SS	2x31.5+1x50	1x31.5+2x50	-	5.00	-	-	-
64	132kV	System Improvement Plan	132/33kV Water works SS	2x31.5	3x31.5	-	4.50	-	-	-
65	132kV	System Improvement Plan	132kV Mahabubnagar SS	2x50+1x80	1x50+2x80	-	6.00	-	-	-
66	132kV	System Improvement Plan	132kV Jubilee Hills SS	2x80+2x50	4x80	-	-	8.00	-	-
67	132kV	System Improvement Plan	400kV Malkaram SS	2x80	2x80+1x50	-	-	5.50	-	-
68	132kV	System Improvement Plan	220kV Fabcity SS	3x50	2x50+1x80	-	-	6.00	-	-
69	132kV	System Improvement Plan	132/33kV Gangadhara SS	1x31.5+2x16	3x31.5	-	-	8.00	-	-
70	132kV	System Improvement Plan	132/33kV Kamanpur SS	2x16	1x16+1x31.5	-	-	4.00	-	-
71	132kV	System Improvement Plan	132/33kV Korutla SS	1x31.5+1x50	2x50	-	-	5.00	-	-
72	132kV	System Improvement Plan	132kV Gadwal SS	1x50+1x80	1x80+2x50	-	-	5.50	-	-
73	132kV	System Improvement Plan	132kV Alampur SS	2x31.5	3x31.5	-	-	4.50	-	-
74	132kV	System Improvement Plan	132kV Peddadagada SS	2x31.5	1x50+1x31.5	-	-	5.00	-	-
75	132kV	System Improvement Plan	132kV Narsapur SS	2x50	1x80+1x50	-	-	6.00	-	-
76	132kV	System Improvement Plan	132kV Zaheerabad SS	1x80+1x50+1x31.5	2x80+1x31.5	-	-	6.00	-	-
77	132kV	System Improvement Plan	132kV Siddipet SS	2x31.5+1x50	1x31.5+2x50	-	-	5.00	-	-
78	132kV	System Improvement Plan	132kV Chegunta SS	1x80+1x50	2x80	-	-	6.00	-	-

TSERC Order for TSTRANSCO Resource Plan for 5th Control Period (FY 2024-25 to FY 2028-29) and 6th Control Period (FY 2029-30 to FY 2033-34)

Power Transformer Capacities										
Sl. No.	Voltage Level	Transmission Plan	Name of the Substation at which augmentation of Power Transformer is proposed	Existing capacity of Power Transformer in MVA	Capacity of power transformers after augmentation in MVA	Approved (Rs. Crore)				
						FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29
79	132kV	System Improvement Plan	132kV Ramannapet SS	3x50	2x80+1x50	-	-	12.00	-	-
80	132kV	System Improvement Plan	132kV Mamidipally SS	3x50	1x80+2x50	-	-	-	6.00	-
81	132kV	System Improvement Plan	132kV Amangal SS	1x50+2x31.5	3x50	-	-	-	10.00	-
82	132kV	System Improvement Plan	132/33kV Pudur SS	2x31.5+1x16	3x31.5	-	-	-	4.00	-
83	132kV	System Improvement Plan	132/33kV Raikal SS	1x16+1x31.5	2x31.5	-	-	-	4.00	-
84	132kV	System Improvement Plan	132/33kV Mallaram SS	1x31.5+1x50	2x50	-	-	-	5.00	-
85	132kV	System Improvement Plan	132kV Thirumalaipally SS	3x31.5	2x31.5+1x50	-	-	-	5.00	-
86	132kV	System Improvement Plan	132kV Jadcherla SS	3x50	1x80+2x50	-	-	-	6.00	-
87	132kV	System Improvement Plan	132kV Khillaghanapur SS	2x31.5	3x31.5	-	-	-	4.50	-
88	132kV	System Improvement Plan	132kV Thukkapur SS	2x50	1x80+1x50	-	-	-	6.00	-
89	132kV	System Improvement Plan	132kV Kalwakurthy SS	3x50	1x50+2x80	-	-	-	12.00	-
90	132kV	System Improvement Plan	132kV Makthal SS	2x31.5+1x50	1x31.5+2x50	-	-	-	5.00	-
91	132kV	System Improvement Plan	132kV Kandi SS	3x50	2x50+1x80	-	-	-	6.00	-
92	132kV	System Improvement Plan	132kV Peddashankarampet SS	2x31.5	1x31.5+1x50	-	-	-	5.00	-
93	132kV	System Improvement Plan	132kV Gummadidala SS	1x80+1x50	2x80	-	-	-	6.00	-
94	132kV	System Improvement Plan	132kV Gunrock SS	2x80+2x50	4x80	-	-	-	-	12.00
95	132kV	System Improvement Plan	132kV Alwal SS	3x31.5	1x50+2x31.5	-	-	-	-	5.00
96	132kV	System Improvement Plan	132kV Nimmapally SS	1x16+1x31.5	2x31.5	-	-	-	-	4.00
97	132kV	System Improvement Plan	132kV Kathalapur SS	2x31.5+1x16	3x31.5	-	-	-	-	4.00
98	132kV	System Improvement Plan	132kV Chippalapally SS	2x16+1x31.5	3x31.5	-	-	-	-	8.00
99	132kV	System Improvement Plan	132kV Amarchinta SS	2x31.5	3x31.5	-	-	-	-	4.50
100	132kV	System Improvement Plan	132kV Ganganpally SS	1x31.5+1x16	2x31.5	-	-	-	-	4.00
101	132kV	System Improvement Plan	132kV Narayanpet SS	2x31.5	3x31.5	-	-	-	-	4.50
102	132kV	System Improvement Plan	132kV Duddeda SS	2x31.5	1x31.5+1x50	-	-	-	-	5.00
103	132kV	System Improvement Plan	132kV Angadikistapur SS	2x31.5	1x31.5+1x50	-	-	-	-	5.00
104	132kV	System Improvement Plan	132kV Chinna Shankarampet SS	2x10/16	2x31.5	-	-	-	-	7.00
105	132kV	System Improvement Plan	220kV SS Narketpally SS	1x50+1x31.5	1x80+1x50	-	-	-	-	6.00
106	132kV	System Improvement Plan	132kV Habsipur SS	2x50	1x80+1x50	-	-	-	-	6.00
107	132kV	System Improvement Plan	132kV Doultabad SS	1x31.5+1x16	2x31.5	-	-	-	-	4.00
108	132kV	System Improvement Plan	132kV SS Choutuppal SS	1x80+2x50	2x80+1x50	-	-	-	-	6.00

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Power Transformer Capacities										
Sl. No.	Voltage Level	Transmission Plan	Name of the Substation at which augmentation of Power Transformer is proposed	Existing capacity of Power Transformer in MVA	Capacity of power transformers after augmentation in MVA	Approved (Rs. Crore)				
						FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29
Total						150.00	170.00	136.50	126.50	150.00

Reactor/ Capacitor wise details										
Sl. No.	Voltage Level	Transmission Plan	Name of the Substation at which Reactor is proposed	Capacity of Reactor in MVAR	Approved (Rs. Crore)					
					FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	
1	220 kV	System Improvement Plan	220/132/33kV SS Waddekothapally	15	-	-	-	0.81	-	
2	132kV	System Improvement Plan	132/33kV Takkalapally SS	5	0.27	-	-	-	-	
3	132kV	System Improvement Plan	132/33kV Ch.Shankarampet SS	10	0.54	-	-	-	-	
4	132kV	System Improvement Plan	132/33kV Chandulapur SS	5	0.27	-	-	-	-	
5	132kV	System Improvement Plan	132/33kV Balnagar-2 SS	10	0.54	-	-	-	-	
6	132kV	System Improvement Plan	132/33kV Jogipet SS	5	0.27	-	-	-	-	
7	132kV	System Improvement Plan	132/33kV Polepally (Jadcherla) SS	10	0.54	-	-	-	-	
8	132kV	System Improvement Plan	132/33kV Gudur SS	5	0.27	-	-	-	-	
9	132kV	System Improvement Plan	132kV Yadagirigutta SS	5	0.27	-	-	-	-	
10	132kV	System Improvement Plan	132/33kV Kowdipalli SS	5	-	0.27	-	-	-	
11	132kV	System Improvement Plan	132/33kV Doulthabad SS	5	-	0.27	-	-	-	
12	132kV	System Improvement Plan	132/33kV Halia SS	10	-	0.54	-	-	-	
13	132kV	System Improvement Plan	132/33kV Godur SS	5	-	0.27	-	-	-	
14	132kV	System Improvement Plan	132/33kV Bhiknoor SS	5	-	0.27	-	-	-	
15	132kV	System Improvement Plan	132/33kV Peddanagaram SS	5	-	0.27	-	-	-	
16	132kV	System Improvement Plan	132kV Aitipamula SS	5	-	0.27	-	-	-	
17	132kV	System Improvement Plan	132/33kV Duddeda SS	5	-	-	0.27	-	-	
18	132kV	System Improvement Plan	132/33kV Minpur SS	10	-	-	0.54	-	-	
19	132kV	System Improvement Plan	132/33kV Makthal SS	5	-	-	0.27	-	-	
20	132kV	System Improvement Plan	132/33kV Chityal SS	5	-	-	0.27	-	-	

TSERC Order for TSTRANSCO Resource Plan for 5th Control Period (FY 2024-25 to FY 2028-29) and 6th Control Period (FY 2029-30 to FY 2033-34)

Reactor/ Capacitor wise details									
Sl. No.	Voltage Level	Transmission Plan	Name of the Substation at which Reactor is proposed	Capacity of Reactor in MVAR	Approved (Rs. Crore)				
					FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29
21	132kV	System Improvement Plan	132/33kV Burgupally SS	5	-	-	0.27	-	-
22	132kV	System Improvement Plan	132/33kV Dornakal SS	5	-	-	0.27	-	-
23	132kV	System Improvement Plan	132kV Kanagal SS	5	-	-	0.27	-	-
24	132kV	System Improvement Plan	132/33kV Palamakula SS	10	-	-	-	0.54	-
25	132kV	System Improvement Plan	132/33kV Pashamailaram SS	5	-	-	-	0.27	-
26	132kV	System Improvement Plan	132/33kV Narayanpet SS	10	-	-	-	0.54	-
27	132kV	System Improvement Plan	132/33kV Mothkur SS	5	-	-	-	0.27	-
28	132kV	System Improvement Plan	132/33kV CH Kondur SS	5	-	-	-	0.27	-
29	132kV	System Improvement Plan	132kV Yerrabelli SS	5	-	-	-	0.27	-
30	132kV	System Improvement Plan	132/33kV Tukkapur SS	5	-	-	-	-	0.27
31	132kV	System Improvement Plan	132/33kV Yeldurthy SS	10	-	-	-	-	0.54
32	132kV	System Improvement Plan	132/33kV Zaheerabad SS	10	-	-	-	-	0.54
33	132kV	System Improvement Plan	132/33kV Regonda SS	5	-	-	-	-	0.27
34	132kV	System Improvement Plan	132/33kV Chennur SS	5	-	-	-	-	0.27
35	132kV	System Improvement Plan	132/33kV Musthyal SS	15	-	-	-	-	0.81
36	132kV	System Improvement Plan	132kV Munugodu SS	5	-	-	-	-	0.27
			Total		2.97	2.16	2.16	2.97	2.97

*Deposit Contribution work

Lift Irrigation Schemes(Substation)									
Sl. No.	Voltage Level	Transmission Plan	Name of the Schemes	Transformer Capacity MVA	Approved (Rs. Crore)				
					FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29
1	400kV	System Expansion Plan	400/11kV SS at Uddandapur	3x165+2x25	115.72	-	-	-	-
2	220kV	System Expansion Plan	220/132/11kV SS Chelmeda	2x160+3x60	75.23	-	-	-	-
3	220kV	System Expansion Plan	220/132/11kV SS Borancha	2x100+2x60	72.37	-	-	-	-
4	220kV	System Expansion Plan	220/11kV SS Pokkur	2x25	44.15	-	-	-	-
5	220kV	System Expansion Plan	132 kV Features at existing 220/11 kV Medigadda SS	2x160	16	-	-	-	-
6	132kV	System Expansion Plan	132/11kV SS Ambabhavani	2x16	14.42	-	-	-	-
7	132kV	System Expansion Plan	132/11kV SS Kambalapally	2x16	14.59	-	-	-	-

TSERC Order for TSTRANSCO Resource Plan for 5th Control Period (FY 2024-25 to FY 2028-29) and 6th Control Period (FY 2029-30 to FY 2033-34)

Lift Irrigation Schemes(Substation)									
Sl. No.	Voltage Level	Transmission Plan	Name of the Schemes	Transformer Capacity MVA	Approved (Rs. Crore)				
					FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29
8	132kV	System Expansion Plan	132/11kV SS Nellikal	2x25	16.21	-	-	-	-
9	132kV	System Expansion Plan	132/11kV SS Hoti-Khurd	2x16	18.15	-	-	-	-
10	132kV	System Expansion Plan	132/11kV SS Chityala	2x25	7.46	-	-	-	-
11	132kV	System Expansion Plan	132/11kV SS Wadapally	2x25	7.46	-	-	-	-
12	132kV	System Expansion Plan	132/11kV SS Ramthirth	2x16	25.02	-	-	-	-
13	132kV	System Expansion Plan	132/11kV SS Nallasomanadri (Gattu)	2x31.5	26.64	-	-	-	-
14	132kV	System Expansion Plan	132/33/11kV SS Waddepally	4x10/16	25.85	-	-	-	-
15	132kV	System Expansion Plan	132/11 kV Vellatur SS	4x25+2x10/16	35	-	-	-	-
16	132kV	System Expansion Plan	132/11kV SS Dibbagudem (Up to metering point)	-	4.73	-	-	-	-
Total					519.00	-	-	-	-

LIS Schemes (Transmission Lines wise details)									
Sl. No.	Voltage Level	Transmission Plan	Name of the Schemes	Length ckm	Approved (Rs. Crore)				
					FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29
1	400kV	System Expansion Plan	400kV Uddandapur-Maheshwaram QMDC Line	130	252.85	-	-	-	-
2	400kV	System Expansion Plan	400kV Uddandapur-Vattem QMDC Line	100	194.5	-	-	-	-
3	220kV	System Expansion Plan	220kV DC line from existing 220/132kV Sadasivapet SS to now proposed 220/132/11kV SS at Chelmeda Pump House	25	19.09	-	-	-	-
4	220kV	System Expansion Plan	Replacement of existing 220kV DC line of Single Moose conductor from 400/220kV Shankarpally SS to 220/132kV Sadasivapet SS with HTLS Conductor (520 Sq.mm ACCC)	76	62.11	-	-	-	-
5	220kV	System Expansion Plan	220kV SMDC line from existing 400/220kV Narsapur SS to now proposed 220/132/11kV SS at Borancha	146	129.98	-	-	-	-
6	220kV	System Expansion Plan	220kV SMDC line from proposed 220 /132/11kV SS Chelmeda to now proposed 220/132/11kV SS at Borancha	80	73.15	-	-	-	-
7	220kV	System Expansion Plan	LILO of 220kV Sundilla – Medigadda TMDC Line at Pokkur 220/11KVSS	6	6.95	-	-	-	-

TSERC Order for TSTRANSCO Resource Plan for 5th Control Period (FY 2024-25 to FY 2028-29) and 6th Control Period (FY 2029-30 to FY 2033-34)

LIS Schemes (Transmission Lines wise details)									
Sl. No.	Voltage Level	Transmission Plan	Name of the Schemes	Length ckm	Approved (Rs. Crore)				
					FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29
8	132kV	System Expansion Plan	132kV DC Line to proposed 132/11kV Kambalapally LI SS from existing 220/132kV K.M.Pally SS	96	76.06	-	-	-	-
9	132kV	System Expansion Plan	132kV LILO Line to the proposed 132kV Amba Bhavani LI SS from the proposed one Ckt of 132kV DC line from the existing 220/132kV K.M.Pally Sub-Station to now proposed 132/11kV Kambalapally LIS	2	1.86	-	-	-	-
10	132kV	System Expansion Plan	Erection of 132KV LILO to the proposed Nellikal LIS from the existing 132KV SC line from 220/132/11KV Nagarjuna Sagar receiving station to 132KV Nagarjuna Sagar Left canal SS under Nellikal LIS	3	3.423	-	-	-	-
11	132kV	System Expansion Plan	Erection of 132kV DC line from proposed 220/132/11kV LI SS at Chelmeda Khurd Pump House to now proposed 132/11kV LI SS at Hoti-khurd SS	56	19.31	-	-	-	-
12	132kV	System Expansion Plan	Erection of 132 KV DC/SC line from existing 132/33 KV Haliya SS to proposed 132/11 KV Chityala SS	28	17.84	-	-	-	-
13	132kV	System Expansion Plan	Erection of 132 KV DC/SC line from existing 132/33 KV New Wadapally SS to proposed 132/11 KV Wadapally LIS SS	12	7.65	-	-	-	-
14	132kV	System Expansion Plan	Erection of 132 KV DC/SC line from Proposed 132/11 KV Chityala SS to proposed 132/11 KV Wadapally LIS SS	22	14.02	-	-	-	-
15	132kV	System Expansion Plan	Erection of 132kV DC line from proposed 220/132/11kV SS at Borancha to now proposed 132/11kV SS at Ramthirth	70	39.82	-	-	-	-
16	132kV	System Expansion Plan	LILO of 132 kV DC/SC line of 220/132 kV Jurala SS - 132/33 kV leeja SS to now proposed 132/11kV Nallasomanadri (Gattu) LI SS	23	19.239	-	-	-	-
17	132kV	System Expansion Plan	2 nd circuit stringing on the existing 132 kV DC/SC line from 220/132 kV Jurala SS to 132/33 kV leeja	36.27	8.926	-	-	-	-
18	132kV	System Expansion Plan	LILO of existing 220/132kV Banswada SS – 132/33kV Nizamsagar SS to 132/33/11kV Waddepally SS	2	3.85	-	-	-	-
19	132kV	System Expansion Plan	132 kV DC Line to Proposed 132/11 kV Vellatur SS from existing 220/132 kV Sithapuram SS	30	20	-	-	-	-

TSERC Order for TSTRANSCO Resource Plan for 5th Control Period (FY 2024-25 to FY 2028-29) and 6th Control Period (FY 2029-30 to FY 2033-34)

LIS Schemes (Transmission Lines wise details)									
Sl. No.	Voltage Level	Transmission Plan	Name of the Schemes	Length ckm	Approved (Rs. Crore)				
					FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29
20	132kV	System Expansion Plan	132 KV DC line from LILO point Loc.no. 83 of 132 /11 kV Beersagar SS-132/33 kV SS Kataram line to 220/11 KV Medigadda SS	5.2	5.817	-	-	-	-
21	132kV	System Expansion Plan	Stringing of 2nd Circuit on existing 132 KV DC/SC Kataram-Beersagar line	18.007	2.555	-	-	-	-
22	132kV	System Expansion Plan	132kV LILO line to 132/11kV Dibbagudem SS from 132kV Ashwaraopeta – Gangaram	15	5.05	-	-	-	-
23	132kV	System Expansion Plan	132kV LILO Line to 132/33kV Gangaram SS from 132kV Penuballi – Kalluru	70	20.35	-	-	-	-
			Total		1004.4	-	-	-	-

LIS Schemes (Bay Extension wise details)									
Sl. No.	Voltage Level	Transmission Plan	Name of the Substation at which Bay extension is proposed	Name of line for which the work is Proposed	Approved (Rs. Crore)				
					FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29
1	400kV	System Expansion Plan	5 nos.400kV, 165 MVA PTR Bay extensions at 400/11kV Narlapur Sub-station	5x165 MVA	-	-	57.05	-	-
2	400kV	System Expansion Plan	5nos.400kV, 165 MVA PTR Bay extensions at 400/11kV Yedula Sub-station	PTRs	-	-	57.05	-	-
3	400kV	System Expansion Plan	5nos.400kV, 165 MVA PTR Bay extensions at 400/11kV Vatterem Sub-station	5x165 MVA PTRs	-	-	57.05	-	-
4	400kV	System Expansion Plan	3nos.400kV, 165 MVA PTR Bay extensions at 400/11kV Uddandapur SS	5x165 MVA PTRs	-	-	34.23	-	-
5	220kV	System Expansion Plan	2 Nos 220kV Feeder Bays at 220kV SS Sadasivapet	220/132kV Sadasivapet SS to now proposed 220/132/11kV SS at Chelmeda Pump House	2.77	-	-	-	-

TSERC Order for TSTRANSCO Resource Plan for 5th Control Period (FY 2024-25 to FY 2028-29) and 6th Control Period (FY 2029-30 to FY 2033-34)

LIS Schemes (Bay Extension wise details)									
Sl. No.	Voltage Level	Transmission Plan	Name of the Substation at which Bay extension is proposed	Name of line for which the work is Proposed	Approved (Rs. Crore)				
					FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29
6	220kV	System Expansion Plan	2 Nos 220kV Feeder Bays at 400/220kV SS Narsapur	400/220kV Narsapur SS to now proposed 220/132/11kV SS at Borancha	7.44	-	-	-	-
7	220kV	System Expansion Plan	2 No's 220 kV PTR Bay Extensions at 220/11 kV Medigadda SS	132 KV DC line from LILO point Loc.no. 83 of 132 /11 kV Beersagar SS-132/33 kV SS Kataram line to 220/11 KV Medigadda SS	10	-	-	-	-
8	220kV	System Expansion Plan	1 No. Transformer Bay at 220/132kV Ashwaraopeta	220/132kV Ashwaraopeta SS	7.47	-	-	-	-
9	132kV	System Expansion Plan	2 Nos Bay extensions at 220/132kV K.M.Pally SS	220/132kV K.M.Pally SS to now proposed 132/11kV Kambalapally LIS S	2.77	-	-	-	-
10	132kV	System Expansion Plan	1 No. Bay extension at existing 132/33kV Haliya SS	132/33kV Haliya SS to proposed 132/11 KV Chityala SS	1.27	-	-	-	-
11	132kV	System Expansion Plan	1 No. 132 kV Bay extension at existing 132/33 KV New Wadapally SS	132/33kV New Wadapally SS to proposed 132/11 KV Wadapally LIS SS	1.27	-	-	-	-
12	132kV	System Expansion Plan	1 No. 132 kV Bay extension at 220kV Jurala	2nd circuit stringing on the existing 132 kV DC/SC line from 220/132 kV Jurala SS to 132/33 kV Ieeja	1.4189	-	-	-	-
13	132kV	System Expansion Plan	1 No. 132 kV Bay extension at 132kV Ieeja		1.4185	-	-	-	-
14	132kV	System Expansion Plan	2 No's 132 kV Feeder Bay Extensions at existing 220/132 kV Sithapuram SS	132 kV DC Line to Proposed 132/11 kV Vellatur SS from existing 220/132 kV Sithapuram SS	3.00	-	-	-	-
15	132kV	System Expansion Plan	1 No. 132 kV Bay extension at 132/11kV Beersagar SS	Stringing of 2nd Circuit on existing 132 KV DC/SC Kataram-Beersagar line	1.152	-	-	-	-
16	132kV	System Expansion Plan	1 No. 132 kV Bay extension at 132/33 kV Kataram SS	Stringing of 2nd Circuit on existing 132 KV DC/SC Kataram-Beersagar line	1.835	-	-	-	-

TSERC Order for TSTRANSCO Resource Plan for 5th Control Period (FY 2024-25 to FY 2028-29) and 6th Control Period (FY 2029-30 to FY 2033-34)

LIS Schemes (Bay Extension wise details)									
Sl. No.	Voltage Level	Transmission Plan	Name of the Substation at which Bay extension is proposed	Name of line for which the work is Proposed	Approved (Rs. Crore)				
					FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29
17	132kV	System Expansion Plan	2 No's 132 kV PTR at existing 220/11 kV Medigadda SS	132 KV DC line from LILO point Loc.no. 83 of 132 /11 kV Beersagar SS-132/33 kV SS Kataram line to 220/11 KV Medigadda SS	4.5	-	-	-	-
18	132kV	System Expansion Plan	2 No's 132 kV Feeder Bay Extensions at existing 220/11 kV Medigadda SS	132 KV DC line from LILO point Loc.no. 83 of 132 /11 kV Beersagar SS-132/33 kV SS Kataram line to 220/11 KV Medigadda SS	5.4	-	-	-	-
19	132kV	System Expansion Plan	2 Nos. 132kV Bays at existing 132/33kV SS Gangaram	LILO of 132kV Penuballi – Kalluru	2.08	-	-	-	-
Total					53.79	-	205.38	-	-

LIS Schemes (Reactor/ Capacitor wise details)									
Sl. No.	Voltage Level	Transmission Plan	Name of the Substation at which Reactor is proposed	Capacity of Reactor in MVAR	Approved (Rs. Crore)				
					FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29
1	400kV	System Improvement Plan	400/11kV Uddandapur Sub-station	125 MVAR	Cost included in the SS				

ANNEXURE 2

PUBLIC NOTICE

BEFORE THE HONOURABLE
TELANGANA STATE ELECTRICITY REGULATORY COMMISSION
 D.No.11-4-660, 5th Floor, Singareni Bhavan, Red Hills, Hyderabad 500004

TRANSMISSION CORPORATION OF TELANGANA LIMITED (TSTRANSCO)

PUBLIC NOTICE
(O.P.No. 09/2023 and I.A. No. 06/2023)

Notice is hereby given to all that the Transmission Licensee viz., Transmission Corporation of Telangana Limited (TSTRANSCO) holding Transmission Licence No. 1 of 2014, as on 11.07.2014, filed petition before the Telangana State Electricity Regulatory Commission (TSERC) for approval of Resource Plan for 5th Control Period (FY2024-25 to FY 2028-29) and 6th Control Period (FY2029-30 to FY 2033-34). These filings have been taken on record by the Hon'ble Commission in O.P. No.09 of 2023.

2. TSTRANSCO filed revised filings incorporating certain additional information post notification made earlier. Hence, it was directed to file an amendment application and consequently the I.A. No 06 of 2023 is filed along with the revised proposals.

3. Copies of the revised filings have been taken on record and are available in the Office of the Chief Engineer (Comm & RAC), Room No. 149, 'A' Block, TS TRANSCO, Vidyut Soudha, Hyderabad- 500082. Interested persons may inspect/peruse the said filings and take note thereof during office hours at any of the said offices at free of cost. These proposals are also available on www.tstransco.in in downloadable form and the same may be accessed at www.tserc.gov.in. A copy of these filings can be obtained from the above offices from **17.09.2023** onwards on payment of charges for photocopying.

4. Objections/ suggestions, if any, on the filings, together with supporting material may be sent to the Chief Engineer (Comm & RAC), Room No. 149, 'A' Block, TSTRANSCO, Vidyut Soudha, Hyderabad-500082 in person or through Registered Post so as to reach on or before **06.10.2023 by 5 pm**. A copy of the same must also be filed with the Commission Secretary, TSERC at the address mentioned above. The objections/suggestions should be duly signed and should carry full name, postal address, e-mail id and contact number of the person(s)/ stake holder(s) sending the objections/suggestions. If the objections/suggestions are filed on behalf of any organization or any category of consumers, it should be clearly mentioned. If the objector also wants to be heard in person it may also be specifically mentioned.

5. The objection/suggestion should accompany the following statement.

Name & full address of the Objector along with e-mail id and contact number	Brief details of objection(s)/ suggestion(s) on the proposals of TSTRANSCO	Whether copy of objection/suggestion & proof of delivery at TSTRANSCO's office enclosed (Yes/No)	Whether Objector wants to be heard in person (Yes/No)

6. Further, the Commission intends to hear the stakeholders who wish to be heard in person on **20.10.2023** at Court Hall of TSERC, Singareni Bhavan, Lakdi-Ka-Pul, Hyderabad from **11:00 hrs onwards**.

Place: Hyderabad Sd/- Chairman and Managing Director
 Date: 17.09.2023 TSTRANSCO
Ro No.23/23

lic.No.11-4-660

గౌరవనీయ తెలంగాణ రాష్ట్ర విద్యుత్ నియంత్రణ మండలి వారి సమక్షంలో
డి నం.11-4-660, 5వ అంతస్తు, సింగరేణి భవన్, రెడ్ హిల్స్, హైదరాబాద్-500 004
ట్రాన్స్మిషన్ కార్పొరేషన్ ఆఫ్ తెలంగాణ లిమిటెడ్ (టిఎస్ ట్రాన్స్కో)

బహిరంగ ప్రకటన
(O.P.No. 09/2023 and I.A. No. 06/2023)

ఇందువల్లగా యాచన్మందికి తెలియజేయునది ఏమనగా 11-07-2014 నాటికి ట్రాన్స్మిషన్ లైసెన్స్ నం. 1 ఆఫ్ 2014 కలిగిన ట్రాన్స్మిషన్ లైసెన్స్ అనగా ట్రాన్స్మిషన్ కార్పొరేషన్ ఆఫ్ తెలంగాణ లిమిటెడ్ (టిఎస్ ట్రాన్స్కో), 5వ నియంత్రణ కాలవ్యవధి (FY2024-25 నుండి FY 2028-29) మరియు 6వ నియంత్రణ కాలవ్యవధి (FY 2029-30 నుండి FY 2033-34) కొరకు రిసోర్స్ ప్లాన్ ఆమోదం కొరకు తెలంగాణ రాష్ట్ర విద్యుత్ నియంత్రణ మండలి (TSERC) సమక్షంలో పిటిషన్ దాఖలు చేసినది. ఈ ఫైలింగ్స్, O.P. నం. 09 ఆఫ్ 2023లో గౌరవనీయ కమిషనర్ రికార్డులోకి తీసుకోబడినవి.

2). టిఎస్ ట్రాన్స్కో, గతంలో చేసిన సోటిఫికేషన్లలో కొంత అదనపు సమాచారాన్ని చేర్చుతూ రివైజ్డ్ ఫైలింగ్స్ దాఖలు చేసింది. అందువలన, అమెండ్మెంట్ అప్లికేషన్ దాఖలు చేయవలసిందిగా ఆదేశించడమైనది మరియు ఆ ప్రకారం సవరించిన ప్రతిపాదనలతో పాటు I.A.నం. 06 ఆఫ్ 2023 దాఖలు చేయబడినవి.

3). రివైజ్డ్ ఫైలింగ్స్ కాపీలు రికార్డులోకి తీసుకోబడినవి మరియు వీఫ్ ఇంజనీర్ (Comm & RAC), రూమ్ నం. 149, A బ్లాక్, టిఎస్ ట్రాన్స్కో, విద్యుత్ సౌధ, హైదరాబాద్ - 500082లో లభిస్తాయి. ఆసక్తి గల వ్యక్తులు సడరు ఫైలింగ్స్ను తనిఖీచేయవచ్చును/ చూడవచ్చును మరియు ఏవైనా సడరు కార్యాలయాలలో కార్యాలయ వేళలలో ఉచితంగా వాటిని నోట్ చేసుకోవచ్చును. ఈ ప్రతిపాదనలు www.tstransco.inలో డౌన్లోడ్ చేసుకుని రూపంలో కూడా లభిస్తాయి మరియు వాటిని www.tserc.gov.in వద్ద కూడా చూడవచ్చును. ఈ ఫైలింగ్స్ యొక్క కాపీని ఫోటోకాపీయింగ్ ఛార్జీలు చెల్లించి **17-09-2023** నుండి వై కార్యాలయాల నుండి పొందవచ్చును.

4). ఫైలింగ్స్పై అభ్యంతరాలు/సూచనలు, ఏదైనా ఉంటే సహాయక మెటీరియల్తోపాటు, వీఫ్ ఇంజనీర్ (Comm & RAC), రూమ్ నం. 149, A బ్లాక్, టిఎస్ ట్రాన్స్కో, విద్యుత్ సౌధ, హైదరాబాద్ - 500082కు వ్యక్తిగతంగా లేదా రిజిస్టర్డ్ పోస్ట్ ద్వారా **06-10-2023 సాయంత్రం 5 గంటలలోపు** చేరుపట్ట వలసినది. దాని కాపీని పైన పేర్కొన్న చిరునామాలో కమిషన్ సెక్రటరీ, TSERC వారికి కూడా సమర్పించాలి. అభ్యంతరాలు/ సూచనలు నివేదించు వ్యక్తి (వ్యక్తులు)/ స్టేట్ చోలర్ (లు) వారి సంతకము మరియు పూర్తి పేరు, పోస్టల్ చిరునామా, ఇ-మెయిల్ ఐడి మరియు సంప్రదింపు నంబర్ పొందుపరచగలరు. ఏదైనా సంస్థ లేదా వినయోగదారుల వర్గం తరఫున అభ్యంతరాలు/ సూచనలు దాఖలు చేయబడితే, అది స్పష్టంగా పేర్కొనవలెను. అభ్యంతరదారు వ్యక్తిగతంగా వివరించదలచితే అట్టి విషయం ప్రత్యేకంగా పేర్కొనవలెను. 5). అభ్యంతరాలు/సలహాల వివరాలును ఈ క్రింద తెలుపబడిన పట్టికలో పొందుపరిచి, జతపరచవలెను.

అభ్యంతరదారు పేరు మరియు పూర్తి చిరునామాతో పాటు, ఇ-మెయిల్ ఐడి మరియు సంప్రదింపు నంబర్	టిఎస్ ట్రాన్స్కో ప్రతిపాదనలపై అభ్యంతరము(ల)/ సూచన(ల) సంగ్రహ వివరాలు	టిఎస్ ట్రాన్స్కో యొక్క కార్యాలయమునకు అభ్యంతర/సూచన ప్రతి మలయు పంపిన రుజువును జతపరచవలసినది (అవును/కాదు)	అభ్యంతరదారు వ్యక్తిగతంగా వినడల్యక్తునారా (అవును/ లేదు)

6. తదుపరిగా తేది: **20-10-2023న 11.00 గంటల** నుండి TSERC కోర్ట్ హాల్, సింగరేణి భవన్, లక్డికాపూల్, హైదరాబాద్లో స్వయంగా తెలియజేయాలనుకున్న స్టేట్ చోలర్ల నుండి కమిషన్ వినడల్యక్తునున్నది.
స్థలం: హైదరాబాద్, నం/-వైద్యుత్ మలయు మేనేజింగ్ డైరెక్టర్
తేది: 17-09-2023 RO.No. 23/23 టిఎస్ ట్రాన్స్కో

بہ اجلاس معزز
تلنگانہ اسٹیٹ الیکٹریسیٹی ریگولیشن کمیشن
 ڈور نمبر 11-4-660 ، پانچویں منزل، سنگاریبی بیہون ، ریڈ ہلز ، حیدرآباد 500004
ٹرانسمیشن کارپوریشن آف تلنگانہ لمیٹڈ (TSTRANSCO)

اعلان عام
(O.P.No.09/2023ANDI.A.No.06/2023)

تمام کوڈ ریجیونڈ اطلاع دی جاتی ہے کہ ٹرانسمیشن لائسنس لینے والی ٹرانسمیشن کارپوریشن آف تلنگانہ ریگولیشن کمیٹی (TSTRANSCO) جو ٹرانسمیشن لائسنس نمبر 1 of 2014 بحوالہ 11-07-2014 رکھتا ہے۔ تلنگانہ اسٹیٹ الیکٹریسیٹی ریگولیشن کمیٹی (TSERC) کے اجلاس پر 5 ویں کنٹرول مدت مالی سال 2024-25 تا مالی سال 2028-29 اور چھٹی کنٹرول مدت (مالی سال 2029-30 تا مالی سال 2033-34) کیلئے ریورس پلان کی منظوری کیلئے پیشین (عرضی) داخل کی ہے۔ ان فائلنگس کو معزز کمیشن کی جانب سے O.P.No.09 of 2023 میں آن ریکارڈ کیا جا چکا ہے۔

2- TSTRANSCO نے سابق میں تیار کئے گئے خاص اضافی معلومات مابعد اعلامیہ شامل کرتے ہوئے نظر ثانی شدہ فائلنگس داخل کیا ہے۔ لہذا یہ ہدایت دی گئی تھی کہ ایک ترمیمی درخواست داخل کی جائے اور آخر کار نظر ثانی شدہ پراپوزس (درخواستوں) کے ہمراہ IA.No. 06 of 2023 داخل کیا گیا ہے۔

3- نظر ثانی شدہ فائلنگس کی نقول آن ریکارڈ کی گئی ہیں اور جو دفتر چیف انجینیر (کمرشل اینڈ RAC)، روم نمبر 149، 'A' بلاک TSTRANSCO، ویدوت سدھا، حیدرآباد 500082 میں دستیاب ہیں۔ خواہشمند اشخاص مذکورہ فائلنگس کا معائنہ/تقابلیت بلکہ مفت مذکورہ وقت پر ترمیمی کی درخواست کے دوران کر سکتے ہیں اور ان کا نوٹ لے سکتے ہیں۔ یہ پراپوزس (درخواستیں) قابل واپس لوڈنگ کے ہیں اور www.tstransco.in پر دستیاب ہیں اور یہ www.tserc.gov.in پر قابل رسا ہو سکتے ہیں۔ ان فائلنگس کی ایک نقول کو فائلنگ کے اخراجات کی ادائیگی 17-09-2023 سے درج بالا دفتر سے حاصل کی جاسکتی ہے۔

4- ان فائلنگس پر اعتراضات/تجاویز اگر کوئی ہوں تو تائیدی مواد کے ساتھ چیف انجینیر (کمرشل اینڈ آر اے سی) روم نمبر 149، 'A' بلاک TSTRANSCO، ویدوت سدھا، حیدرآباد 500082 کے پاس شخصی طور پر یا ڈر ایور جیڑ ڈپوسٹ اس طرح روانہ کئے جائیں کہ یہ 06-10-2023 کو 5 بجے شام تک یا قبل تک پہنچ جائیں۔ اس کی ایک نقول ضروری ہے کہ کمیشن سکریٹری TSERC کے پاس بھی درج بالا پتہ پر داخل کی جائے۔ اعتراضات/تجاویز پر چاہئے کہ دستخط شدہ ہوں اور چاہئے کہ اعتراضات/تجاویز روانہ کرتے ہوئے اس میں مکمل نام، ڈاک پتہ، e میل آئی ڈی اور شخص (اشخاص) / اسٹیک ہولڈر (اسٹیک ہولڈرز) کا رابطہ نمبر تحریر کیا جائے۔ اگر اعتراضات/تجاویز کسی تنظیم یا صارفین کے کسی ذمہ کی جانب سے داخل کئے جارہے ہوں تب اس بات کا تذکرہ واضح طور پر کیا جائے۔ اگر اعتراض کنندہ شخصی طور پر ساعت کا خواہشمند ہو تو اس کا تذکرہ بھی خصوصی طور پر کیا جائے۔

5- اعتراضات/تجاویز چاہئے کہ درج ذیل اسٹیٹمنٹ (جیان) کے ساتھ منسلک ہو

اعراض کنندہ کا نام اور مکمل پتہ	TSTRANSCO کے پراپوزس	آیا اعتراضات/تجاویز کے دفتر میں	آیا اعتراضات/تجاویز کے دفتر میں
ہمراہ e-میل آئی ڈی اور رابطہ نمبر	پر اعتراضات (اعتراضات) /تجاویز	ساعت کا خواہشمند ہے (ہاں/نہیں)	ساعت کا خواہشمند ہے (ہاں/نہیں)
	(تجاویز) کی مختصر تفصیلات	جیوت منسلک کیا گیا (ہاں/نہیں)	جیوت منسلک کیا گیا (ہاں/نہیں)

6- مزید برآں، کمیشن ایسے اسٹیک ہولڈرز کی ساعت کا خواہاں ہے جو 20-10-2023 کو شخصی طور پر کورٹ ہال TSERC، سنگاریبی بیہون بکلی کا پل، حیدرآباد میں 11-00 بجے دن کے بعد سے ساعت کے خواہشمند ہیں۔

مقام: حیدرآباد
 مورخہ: 17-09-2023

TSTRANSCO RO No.23/23

ANNEXURE 3

List of Stakeholders who submitted the written Comments/Objections/Suggestions

Sl. No.	Name and address of the stakeholder
1	Sri M.Venugopala Rao, Senior Journalist & Convenor, Centre for Power Studies, H.No.1-100/MP/101, Monarch Prestige, Journalists' Colony, Gopanpally, Serlingampally Mandal, Hyderabad – 500 032
2	Prayas (Energy Group), Unit III A and B, Devgiri, Joshi Museum Lane, Kothrud Industrial Area, Kothrud, Pune - 411 038, India Phone: +91-20-2542 0720, 2542 0722, Fax: 2543 9134;

