



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

**ORDER**

**ON**

**ANNUAL PERFORMANCE REVIEW/TRUE-UP  
OF TRANSMISSION CORPORATION OF  
TELANGANA LIMITED**

**FOR FY 2020-21**

**FOR**

**TRANSMISSION CORPORATION OF TELANGANA LIMITED  
(TSTransco)**

**07.04.2022**

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## List of Abbreviations

A&G	Administrative and General
APR	Annual Performance Review
ARR	Aggregate Revenue Requirement
CAG	Comptroller and Auditor General of India
CERC	Central Electricity Regulatory Commission
FCC	Financial Completion Certificate
FY	Financial Year
Gol	Government of India
GoTS	Government of Telangana State
GFA	Gross Fixed Assets
I&CAD	Irrigation & Command Area Development
IEGC	India Electricity Grid Code
IND AS	Indian Accounting Standard
ISTS	Inter State Transmission System
kV	kilo Volt
LIS	Lift Irrigation Scheme
MAT	Minimum Alternate Tax
MoP	Ministry of Power
MVA	Mega Volt Ampere
MW	Mega-Watt
MYT	Multi Year Tariff
NLDC	National Load Dispatch Centre
O&M	Operation and Maintenance
OP	Original Petition
OCFA	Original Cost of Fixed Assets
PCC	Optical Fibre Cable
PPA	Power Purchase Agreement
NCE	Non-Conventional Energy
PGCIL	Power Grid Corporation of India Limited
R&M	Repairs and Maintenance
ROCE	Return on Capital Employed
RoE	Return on Equity
RoW	Right of Way
RRB	Regulated Rate Base
Rs.	Rupees
SLDC	State Load Dispatch Centre
SRLDC	Southern Regional Load Dispatch Centre
STU	State Transmission Utility
TSERC	Telangana State Electricity Regulatory Commission
TSTransco	Transmission Corporation of Telangana Limited
WACC	Weighted Average Cost of Capital



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5<sup>th</sup> Floor, Singareni Bhavan, Red Hills, Lakdi-ka-pul, Hyderabad 500 004

**O.P.No.03 of 2022**

**Dated \_\_.04.2022**

**Present**

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

Transmission Corporation of Telangana Limited

**... Applicant**

The Transmission Corporation of Telangana Limited (TSTransco) filed Petition on 31.12.2021 for Annual Performance Review (APR) for FY 2020-21 for its Transmission Business in accordance with the directions given in Order dated 20.03.2020 on Aggregate Revenue Requirement and Transmission Tariff for 4<sup>th</sup> control period (FY 2019-20 to FY 2023-24), read with Regulation No.5 of 2005 as adopted by TSERC in its RegulationNo.1 of 2014

The Petition having been taken on file, and having considered objections/suggestions of the stakeholders, issues that are raised during the virtual Public Hearing held on 28.02.2022 through video conference, responses of Applicant, and all other relevant material, passed the following:

**ORDER**

**CHAPTER-1**  
**INTRODUCTION**

**1.1 BACKGROUND**

1.1.1 On enactment of the Andhra Pradesh Reorganisation Act, 2014 on 1<sup>st</sup> March, 2014 to provide for reorganisation of the State of Andhra Pradesh into the State of Andhra Pradesh and the State of Telangana; the then Government of Andhra Pradesh vide G.O.Ms.No.25, dated 29.05.2014 had established the

Transmission Corporation of Telangana Limited (TSTransco) and the then State Electricity Regulatory Commission had issued Licence No.1 of 2014 to TSTransco.

1.1.2 The Commission in its Order dated 20.03.2020 in O.P.No.3 of 2019 on Aggregate Revenue Requirement (ARR) and Transmission Tariff for 4<sup>th</sup> control period (FY 2019-20 to FY 2023-24) had given directions to Applicant herein to submit Annual Performance Review (APR) for each year of the 4<sup>th</sup> control period before 31<sup>st</sup> December of the following year.

1.1.3 In compliance to the said directive, the Applicant (TSTransco) has filed this Petition on 31.12.2021 for APR (True-up) for its Transmission Business for FY 2020-21 with the following prayer:

- a) to take the accompanying petition on Annual Performance Review (True up) for the FY 2020-21 for Transmission Business on record.
- b) to grant suitable opportunity to TSTRANSCO within a reasonable timeframe to file additional material information if required.
- c) to consider the facts and circumstances of the present petition and pass an appropriate order.

## **1.2 ADMISSION OF PETITION AND REGULATORY PROCESS**

1.2.1 The Petition was found to be generally in order as required under the TSERC (Conduct of Business) Regulations, 2015 (Regulation No.2 of 2015) and the same were taken on record by assigning the Original Petition (OP) number 03 of 2022.

## **1.3 PUBLIC NOTICE**

1.3.1 The Applicant, as directed by the Commission, published the Public Notice on 29.01.2022 in two (2) English, two (2) Telugu and one (1) Urdu daily newspapers, informing the general public that the Applicant has filed the Petition for APR (True-up) for its Transmission Business for FY 2020-21 before the Commission and inviting objections/suggestions on the filings of the Applicant from all the stakeholders and public at large on or before 17.02.2022 by 5 pm and also informing that in this regard the Commission shall conduct Public Hearing through virtual video conference on 28.02.2022 from 11:30 hours onwards.

1.3.2 The filings have been made available by the Applicant along with supporting material to the public at large including all stakeholders. The Public Notice, filings and supporting material were also hosted on the websites of the Applicant as well as the Commission. The copies of the daily newspaper clippings of the Public Notice are placed in **Annexure-I**.

#### **1.4 RESPONSE TO PUBLIC NOTICE**

1.4.1 In response to the Public Notice, objections/suggestions were received from three (3) stakeholders. The list of stakeholders who submitted objections/suggestions is enclosed at **Annexure-II**.

1.4.2 The Applicant was directed to give its response in writing to all the written objections received by 24.02.2022 submitting a copy to the Commission before the scheduled date of Public Hearing. The replies were also posted on the website of the Commission

1.4.3 The Commission sent the virtual link to the stakeholders who desired to be heard in person along with TSDiscoms and TSTransco for participation in Public Hearing through virtual video conference. Also made facilities in the office of the Commission for participation or to witness the proceedings of the virtual Public Hearing.

#### **1.5 PUBLIC HEARING**

1.5.1 The Commission has conducted the virtual Public Hearing on 28.02.2022 through video conference. During the Hearing, the Applicant made a brief presentation on the filings and then the Commission heard the stakeholders desiring to be heard. The list of stakeholders who attended the Public Hearing on 28.02.2022 is enclosed at **Annexure-III**.

#### **1.6 DATA GAPS AND APPLICANT'S RESPONSES**

1.6.1 During scrutiny of the filings of the Applicant, certain information were found to be deficient in certain aspects. Subsequently, the Applicant submitted the additional information as sought by the Commission. The Commission has considered the original filings and the additional information submitted by the Applicant.

## CHAPTER-2 SUMMARY OF FILINGS

### 2.1 APR (TRUE-UP) FOR FY 2020-21

2.1.1 In compliance to the Directive No.3 in Order dated 20.03.2020 on Aggregate Revenue Requirement and Transmission Tariff for 4<sup>th</sup> control period (FY 2019-20 to FY 2023-24), TSTransco has filed the following in the Annual Performance Review Petition:

- a) True-Up – Analysis of Financial Performance for FY 2020-21;
- b) Analysis of Performance of Transmission Business for FY 2020-21.

### 2.2 TRUE-UP – ANALYSIS OF PERFORMANCE FOR FY 2020-21

2.2.1 TSTransco has submitted the following true-up filings for its Transmission Business for FY 2020-21:

- Statement of variance with the Tariff Order for each item in the Aggregate Revenue Requirement (ARR) and reasons thereof;
- ARR for the year computed based on actual investments, interest and other cost;
- The surplus/deficit for FY 2020-21 arrived based on revenue earned for FY 2020-21.

2.2.2 **Operation and Maintenance (O&M) Expenses:** The actual O&M expenses claimed by the Applicant is as shown in Table below:

**Table 1: O&M expenses claimed by the Applicant**

Particulars	(Rs.crore)		
	Approved in MYT Order	Claimed	Deviation
Gross O&M costs	1025.51	865.67	-159.84
Employee cost		773.98	
Administrative & General (A&G) expenses		42.51	
Repair & Maintenance (R&M) expenses		49.18	
Less: O&M Expenses capitalised	160.31	111.46	-48.85
<b>Net O&amp;M expenses</b>	<b>865.20</b>	<b>754.21</b>	<b>-110.99</b>

The O&M cost as per Tariff Order is arrived/computed based on O&M approved norms. Whereas, the applicant has submitted the actual O&M cost as per audited accounts of FY 2020-21. The capitalised expenses have reduced due to lower capitalisation during the year and change of policy in capitalization of A&G expenses as per Indian Accounting Standard (IND AS) 12, as commented by CAG during supplementary Audit for FY 2019-20.



2.2.3 **Depreciation:** In compliance to the Commission's directive No.5 in the Order dated 20.03.2020, the Applicant has changed depreciation policy duly charging depreciation as per the rates specified by Central Electricity Regulatory Commission (CERC) with effect from FY 2020-21. The depreciation for FY 2020-21 claimed by the Applicant is as shown in Table below:

**Table 2: Depreciation claimed by the Applicant**

(Rs.crore)

Particulars	Approved in MYT Order	Claimed	Deviation
Depreciation	890.54	857.78	-32.76

The Applicant submitted that the actual depreciation amount is lower due to reduction in capitalisation during the year on account of COVID-19 pandemic. Further, the applicant has claimed depreciation on Consumer Contribution Assets as an expense and also considering amortization of Consumer Contribution in Non-Tariff Income (NTI).

2.2.4 **Taxes on Income:** Tax on Income was calculated at current rate of Minimum Alternate Tax (MAT) on the Return on Equity (RoE) @ 14% on 25% of actual Regulated Rate Base (RRB):

**Table 3: Taxes on Income claimed by the Applicant**

(Rs.crore)

Particulars	Approved in MYT Order	Claimed	Deviation
Income Tax	68.21	69.45	1.24

2.2.5 **Return on Capital Employed (RoCE):** The Return on Capital Employed (RoCE) covers: (i) the interest charges on the debt portion and (ii) RoE on the claimed RRB @ Debt Equity ratio of 75:25. RoCE has been claimed by adding the actual interest charges (net of interest capitalised) and RoE @ 14% on 25% of claimed RRB. The RoCE claimed by the Applicant for FY 2020-21 as per the methodology specified in Regulation No.5 of 2015 is as shown in the Table below:

**Table 4: ROCE claimed by the Applicant**

(Rs.crore)

Particulars	Approved in MYT Order	Claimed	Deviation
Assets		18892.35	
Original Cost of Fixed Assets (OCFA)		17550.32	
Additions to OCFA		1342.03	
Depreciation		6181.40	
Opening Balance		5323.62	

Particulars	Approved in MYT Order	Claimed	Deviation
Depreciation during the year		857.78	
Consumer contributions		3499.67	
Opening Balance		2876.94	
Additions during the year		622.73	
Working Capital		92.00	
Change in Rate Base		-69.24	
Regulated Rate Base (RRB)	9205.27	9372.52	167.25
Cost of Debt (Interest & Finance Charges)	680.04	840.22	160.18
Return on Equity @ 14% on 25% of RRB	322.18	328.04	5.85
<b>RoCE</b>	<b>1002.22</b>	<b>1168.25</b>	<b>166.03</b>

In Regulated Rate Base (RRB) calculation the applicant has considered the actual asset addition to fixed assets duly tallying with the books of accounts. The increase in RoCE is mainly due to considering lower accumulated Opening Gross block in the Tariff Order for 4<sup>th</sup> control period on account of withholding of 5% of capitalization of the entire 3<sup>rd</sup> control period.

- 2.2.6 **Revenue:** The following is the position of Revenue for FY 2020-21 as claimed by the Applicant

**Table 5: Revenue claimed by the Applicant**

Particular	Approved in MYT Order	Claimed	Deviation
Revenue from Transmission Charges	2323.95	2353.88	29.93
Other Income	502.21	444.53	-57.68
<b>Total</b>	<b>2826.16</b>	<b>2798.41</b>	<b>-27.75</b>

The total revenue for the year is lower due to decrease in non-tariff Income (Other income) mainly on account of amortisation of consumer contribution and lower capitalisation of LIS works during FY 2020-21 due to COVID-19 pandemic. The depreciation on consumer contribution assets has been claimed as an expense and also non-tariff Income as amortisation of consumer contributions.

- 2.2.7 **Aggregate Revenue Requirement (ARR) True-up for FY 2020-21:** The total Aggregate Revenue Requirement (ARR) true-up for FY 2020-21 claimed by the Applicant is as shown in Table below:

**Table 6: Summary of True-up claimed by the Applicant****(Rs.crore)**

Particular	Approved in MYT Order	Claimed	Deviation
<b>Expenditure</b>	<b>1984.26</b>	<b>1792.90</b>	<b>-191.36</b>
O&M expenses	1025.51	865.67	-159.84
Depreciation	890.54	857.78	-32.76
Taxes	68.21	69.45	1.24
<b>Less: Expenses Capitalised</b>	<b>160.31</b>	<b>111.46</b>	<b>-48.85</b>
IDC Capitalised	0.00	0.00	0.00
O&M Expenses Capitalized	160.31	111.46	-48.85
<b>Net Expenditure</b>	<b>1823.95</b>	<b>1681.45</b>	<b>-142.50</b>
ROCE	1002.22	1168.25	166.03
<b>Gross ARR</b>	<b>2826.17</b>	<b>2849.71</b>	<b>23.54</b>
Non-tariff Income	502.21	444.53	-57.68
Revenue from Tariff	2323.95	2353.88	29.93
<b>Total Revenue</b>	<b>2826.16</b>	<b>2798.41</b>	<b>-27.75</b>
<b>Surplus/(Deficit)</b>	<b>(-)0.01</b>	<b>(-)51.30</b>	<b>(-)51.29</b>

**2.3 NETWORK ADDITION FOR FY 2020-21**

2.3.1 The transmission network addition during FY 2020-21 submitted by the Applicant is as shown in the Table below:

**Table 7: Network addition claimed for FY 2020-21**

Sl. No.	Particulars	Opening	Addition	Deletion	Closing
<b>A</b>	<b>Lines (ckt km)</b>				
1	765 kV	-	-	-	-
2	400 kV	5964.39	126.04	-	6090.43
3	220 kV	8439.41	455.71	-	8895.12
4	132 kV	11754.69	109.81	-	11864.50
	<b>Total</b>	<b>26158.49</b>	<b>691.56</b>	<b>-</b>	<b>26850.05</b>
<b>B</b>	<b>Transformation Capacity (MVA)</b>	<b>76457.50</b>	<b>4462.00</b>	<b>-</b>	<b>80919.50</b>
<b>C</b>	<b>Bays (in nos.)</b>				
1	765 kV	-	-	-	-
2	400 kV	341	28	-	369
3	220 kV	690	91	-	781
4	132 kV	1624	27	-	1651
	<b>Total</b>	<b>2655</b>	<b>146</b>	<b>-</b>	<b>2801</b>

2.3.2 The submissions of the Applicant and the Commission's views thereon are discussed in detail in Chapter 4 of the Order.

**2.4 ANALYSIS OF PERFORMANCE OF TRANSMISSION BUSINESS FOR FY 2020-21**

2.4.1 The average availability factor of Transmission system of TSTransco for FY 2020-21 is 99.98%.

2.4.2 The Transmission system loss in FY 2020-21 is 2.57%



**CHAPTER-3**  
**ISSUES RAISED BY STAKEHOLDERS, RESPONSES OF APPLICANT,**  
**COMMISSION'S VIEWS**

**3.1 OBJECTIONS/SUGGESTIONS MADE ON FILINGS**

3.1.1 Two (2) stakeholders have filed objections/suggestions on the APR Petition for FY 2020-21. The Applicant has filed replies on the objections/suggestions received from the stakeholders. For the sake of brevity, the objections/suggestions raised by the stakeholders and responses of the Applicant have been consolidated and summarised issue-wise. The Commission has concluded all the objections/suggestions of the stakeholders made in writing as well as during the course of Public Hearing and the responses to them by the Applicant. In the subsequent Chapters of this Order, the Commission has taken into consideration, the objections/suggestions of the stakeholders and replies of the Applicant during APR (True-up) for FY 2020-21.

**3.2 CONTRACTED CAPACITY FOR FY 2020-21**

***Stakeholders' submissions***

3.2.1 The contracted capacity of 14609.40 MW for FY 2020-21 is exclusive of the contracted capacity from Andhra Pradesh Gas Power Corporation Limited (APGPCL) which is being not scheduled since February, 2020. However, as the Applicant was a shareholder in APGPCL the reasons for re-allocation of its share in APGPCL to other companies may be submitted. Further, the clarification on whether APGPCL has utilised the Applicant's transmission system and has paid for evacuation of power, may be submitted. Further, no power availability from APGPCL implies that the related transmission infrastructure of APGPCL is being utilised to evacuate power from other projects.

3.2.2 The Applicant has not provided information as to what extent the contracted capacity was utilized during the year. Under/over-utilization of transmission capacity is an important issue to be taken note. In case there is a delay in commissioning of proposed Lift Irrigation Schemes (LIS), the transmission network created therefor will remain idle unless the same is utilised for other sources. There is a need to look in to the arrangements with LIS for recovery of transmission charges in case of delay in commissioning of such schemes.

- 3.2.3 The Applicant submitted that it has collected the transmission charges from TSDiscoms as per the contracted capacity approved by the Commission for FY 2020-21 irrespective of generation and supply of power. In this regard, the Commission may review the aspect as to for which prospective consumers the transmission capacity that was not created during 2020-21 was really intended and contracted. If consumers like I&CAD could not commission their LIS during FY 2020-21, the transmission charges, despite non-utilisation of proportionate transmission capacity have not to be imposed on other consumers. This issue can be examined and decided as and when TSDiscoms submit their true-up filings for FY 2020-21.
- 3.2.4 The Applicant may submit the transmission charges for Non-Conventional Energy (NCE) sources has been billed considering the total contracted capacity submitted as 2463.55 MW. The Applicant may clarify if it had considered the capacity of NCE sources in its proposal for transmission capacity augmentation and, if there is any stranding of capacity due to generation from NCE sources.
- 3.2.5 The Applicant has shown contract capacities of gas power stations aggregating to 782.79 MW whereas such capacities had not been considered by the Commission and power have also not been procured from such generating stations. In view of uncertainty in power availability from such gas power stations since more than eight (8) years, the scope for utilising the related transmission capacity may be examined. The Applicant's submission that this capacity can be utilised for transmission of power from market purchases implies that transmission charges are being collected from TSDiscoms for under-utilisation of this capacity.

***Applicant's replies***

- 3.2.6 Transmission charges are payable by TSDiscoms for their contracted capacity from APGPCL as approved in the Transmission Tariff Order for the relevant year. After bifurcation of united AP State, an Expert Committee was constituted for demerger of united APTransco. The Expert Committee recommended that the investment in APGPCL constitutes a business investment and accordingly recommended to State Government that the value of share investment in APGPCL must be apportioned on location basis where

APGPCL is located i.e., to present AP State. The recommendation was reportedly approved by Board of APTransco. In pursuance of the above recommendation and also taking into account the shareholding pattern reported in the 30<sup>th</sup> Annual Report of APGPCL, it was decided not to avail power from APGPCL with effect from 01.02.2020 to the extent of earlier allocation of power made to Telangana State. Therefore, the share allocation from APGPCL has not been considered and such contracted capacity has been excluded in the Transmission Tariff Order.

- 3.2.7 Transmission charges are not levied on LIS separately by the Applicant as those are the electricity consumers of TSDiscoms and shall be billed for their electricity consumption in accordance with the Retail Supply Tariff Order. The transmission charges are levied on TSDiscoms as per the approved capacities of existing and upcoming generation capacities. Any delay in commissioning of LIS does not affect the revenue of the Applicant. On the request of I&CAD, the Applicant is constructing the transmission lines and substations for extending the power supply to the lift irrigation pumping stations with the funds of I&CAD only. The transmission lines and substations were made ready as per the requirement and time lines of the I&CAD.
- 3.2.8 TSDiscoms have entered into PPAs with NCE generators and as per those PPAs the transmission charges are payable by TSDiscoms. The contracted capacities towards the same are approved in the transmission Tariff Order and transmission charges are levied on the TSDiscoms for the approved NCE capacity irrespective of the actual generation. Accordingly, the stranding of transmission capacity does not arise.
- 3.2.9 Out of the four 4 gas power stations, the term of PPA for Vemagiri plant is upto the year 2029 and for the other three plants is upto the year 2024. The PPAs in respect of the above said gas power stations are not in operation since March 2013 due to non-availability of gas for power generation. Further, several litigations are pending before various legal forums. Therefore, there is no possibility of availing power from these gas power stations in the near future. The transmission capacity created to the extent of the gas power stations could be utilised in the pool for short term purchases and spot purchases, if any.

### ***Commission's views***

- 3.2.10 The Commission has taken note of the submissions of the stakeholders and replies of TSTransco.

## **3.3 CAPITAL EXPENDITURE AND CAPITALISATION**

### ***Stakeholders' submissions***

- 3.3.1 From the Applicant's submissions, it has been observed that delays were experienced in various works due to Right of Way (RoW) and PTR related issues, whereas the capital expenditure of the same was considered in determination of the transmission tariff. Further, the capital cost of works which did not complete in FY 2020-21 as per schedule may not be allowed.
- 3.3.2 The actual contracted capacity in FY 2020-21 is 14609.40 MW against the approved contracted capacity of 18411.04 MW. The Applicant has not provided any reasons for the variation contracted capacity. Considering non-execution of works pertaining to capacity of 3801.64 MW, the capital expenditure for FY 2020-21 has to be significantly lower.

### ***Applicant's replies***

- 3.3.3 The capitalisation for FY 2020-21 has been claimed based on the completed works. Further, the Physical Completion Certificates (PCCs) of completed works have been submitted.

### ***Commission's views***

- 3.3.4 The Commission has approved the capitalisation for FY 2020-21 considering the earlier directions, audited accounts and information submitted by the Applicant as detailed in the Chapter-4 of the Order.

## **3.4 AGGREGATE REVENUE REQUIREMENT (ARR) FOR FY 2020-21**

### ***Stakeholders' submissions***

- 3.4.1 With regards to depreciation on assets funded by consumer contributions or any capital subsidy/grant etc., the Applicant has to adhere to the methodology specified in clause 15.1 of the Regulation No.5 of 2005.
- 3.4.2 The actual capital expenditure for FY 2020-21 is lower than that approved by the Commission however, the actual interest and finance charges are higher than the approved expenses and the RoCE claimed is higher than that



approved by the Commission. The Applicant may submit the reasons for the same.

- 3.4.3 As per the Tariff Regulations, the RoCE has to be computed considering WACC and RRB. However, it has been observed that RoE has been computed by considering 25% of RRB and the cost of debt has been considered at actuals (interest and finance charges) to arrive at the claimed RoCE. The cost of debt approved by the Commission was 9.85%, whereas the actual works out to 11.96%.

***Applicant's replies***

- 3.4.4 Depreciation has been claimed in accordance with the Regulation No.4 of 2005 and the Commission's directives. The Applicant has claimed depreciation on consumer contribution assets as an "expense" in Gross ARR and to offset the same, it was considered as "revenue" under non-tariff income by way of amortisation of consumer contribution and there is no impact on Net ARR claimed by the Applicant.
- 3.4.5 The capital expenditure incurred for transmission works of LIS are being met out of the funds received from Irrigation Department. Hence, the same has no impact on interest and finance charges of the Applicant. The Applicant has claimed RoCE of Rs.1168.25 crore considering the actual interest & finance charges (net of capitalisation) of Rs.840.22 crore and RoE of Rs.328.04 crore. Further, during FY 2020-21 the Applicant has availed loans with higher rate of interest than approved cost of debt. The copies of loan sanction letters have been submitted to the Commission.

***Commission's views***

- 3.4.6 The Commission has approved the ARR for FY 2020-21 in accordance with the provisions of Regulation No.5 of 2005 as detailed in the Chapter 4 of the Order.

**3.5 REVENUE**

- 3.5.1 The actual revenue and non-tariff income are lower than that approved by the Commission. The Applicant may submit the constituents of non-tariff income claimed for FY 2020-21.

- 3.5.2 The transmission charges for FY 2020-21 have been approved by the Commission considering the contracted capacity of 18411.04. However, due to the actual contracted capacity of 14609.40 MW lower than approved value, revenue entitlement to the Applicant might have reduced.

***Applicant's replies***

- 3.5.3 The item wise details of actual other income submitted the Applicant is as shown in the Table below:

**Table 8: Actual other income for FY 2020-21 as submitted by the Applicant**

		(Rs.crore)
Sl. No	Particulars	Amount
1	Supervision charges	35.37
2	Contributions towards depreciation on Lift Irrigation Scheme Assets	178.19
3	Amortisation of consumer contributions towards property, plant and equipment	110.01
4	Registration fees	0.08
5	Operating and maintenance/annual maintenance charges	4.93
6	Interest on staff loans and advances	1.66
7	Interest on loan to TSDiscoms	71.68
8	Income from investments in bonds and fixed deposits	8.88
9	Interest on investments under contingency reserve	5.20
10	Income from sale of scrap etc.,	1.01
11	Delayed payment charges from consumers	0.00
12	Material cost variance (net)	10.44
13	Fines and penalties collected	6.98
14	Miscellaneous receipts	10.09
<b>Total</b>		<b>444.53</b>

***Commission's views***

- 3.5.4 The Commission has approved the revenue for FY 2020-21 based on the actuals as per the audited accounts as detailed in the Chapter 4 of the Order.

**3.6 OTHERS**

***Stakeholders' submissions***

- 3.6.1 As per the operating principles of Southern Regional Load Dispatch Centre (SRLDC), the permissible grid frequency has to be in the range of 49.90 Hz to 50.05 Hz. However, the data provided by Applicant shows that the minimum and maximum permissible limits were crossed on certain occasions. The

Applicant may submit the details of technical constraints that had led to such variations remedial measures taken avoid recurrence of the same.

***Applicant's replies***

3.6.2 As the frequency is a national phenomenon (“One Nation, One Grid & One Frequency”) and as per IEGC, “All Users, SEB, SLDCs, RLDCs and NLDC shall take all possible measures to ensure that the grid frequency always remains within the (49.90-50.05 Hz) band”. The variations in frequency are contributed by all the States (Control areas), Generators and Users in the Country which are monitored and controlled in a coordinated manner by National Load Despatch Centre (NLDC), 5 Regional Load Despatch Centres and State Load Despatch Centres. Each State has a permissible limit to handle inadvertent deviation in schedule from the grid as per the Grid Code to maintain the grid frequency within operating limits. The variations in demand and generation are inevitable and variations in frequency are also inevitable. All users are having combined responsibility to ensure their draws near to schedule to maintain frequency within operating band. However, there are few occasions where the frequency may go beyond operating limits mainly due to forced outage of units, sudden variations in demand, variation of generation from renewable sources, climate changes and pull out of loads due to faults. These variations are generally being handled by respective control areas by the following methods to ensure frequency within operating band.

- Utilization of hydel units in generator/pump mode.
- Utilization of Real Time Market (sale and purchase).
- Ramping up/down of the thermal units.

3.6.3 Further, Special Protection Schemes have been devised to control sudden variations in the frequency which are beyond human limits to maintain load generation balance and in turn frequency.

***Commission's views***

3.6.4 The Commission has taken note of the submissions of the stakeholders and responses of TSTransco.

**CHAPTER-4**  
**ANALYSIS AND CONCLUSIONS ON APR FOR FY 2020-21**

**4.1 REGULATORY PROVISIONS**

- 4.1.1 The ARR of Transmission Licensee (excluding SLDC activity) for each year of control period shall contain the following items:
- Operation and Maintenance (O&M) expenses;
  - Return on Capital Employed (ROCE);
  - Depreciation;
  - Taxes on Income;
  - Corrections for “uncontrollable” items and “controllable” items; and
  - Any other relevant expenditure.
- 4.1.2 Clause 5 of the Regulation No.5 of 2005 stipulates that till such time as there is complete segregation of accounts between SLDC activity and Transmission Business, the Transmission Licensee shall apportion its costs on the basis of an Allocation Statement.
- 4.1.3 TSTransco has claimed the true-up for FY 2020-21 in accordance with provisions of Regulation No.5 of 2005. TSTransco has also submitted its audited accounts for FY 2020-21 along with the Allocation Statement segregating its actual expenses and revenue between Transmission business and SLDC activity for FY 2020-21.

**4.2 OPERATION AND MAINTENANCE (O&M) EXPENSES**

***Applicant's submissions***

- 4.2.1 The Applicant has claimed O&M expenses of Rs.754.21 crore as against the approved normative expenses of Rs.865.20 crore for FY 2020-21.

***Commission's view***

- 4.2.2 Clause 10.4 of the Regulation No.5 of 2005 stipulates O&M expenses as controllable item of ARR. On prudence check of O&M expenses, the Commission deems it fit to approve the actual O&M expenses as claimed by the Applicant for FY 2020-21.
- 4.2.3 The O&M expenses claimed by the Applicant and approved on true-up is shown in the Table below:

**Table 9: O&M expenses for FY 2020-21**

Particulars	(Rs.crore)		
	Approved in the MYT Order Dt. 20.03.2020	Claimed in APR	Allowable
O&M expenses	865.20	754.21	754.21

#### **4.3 CAPITALISATION**

##### ***Applicant's submissions***

- 4.3.1 The Applicant has claimed the capitalisation of Rs.1342.03 crore as against Rs.2105.43 crore approved by the Commission for FY 2020-21.

##### ***Commission's view***

- 4.3.2 The Commission, in its MYT Order dated 20.03.2020 and APR Order dated 02.09.2021 had withheld 5% of the claimed capitalisation for 3<sup>rd</sup> control period and FY 2019-20 in the absence of complete details for the same. The Commission observed that the Electrical Inspector Certificates for the 3<sup>rd</sup> control period and FY 2019-20 have not been submitted in the current APR proceedings. Therefore, the Commission is not inclined to revise the opening GFA for FY 2020-21 viz., closing GFA for FY 2019-20 from that approved in the APR Order dated 02.09.2021.
- 4.3.3 The Commission noted that the Applicant has claimed capitalisation of Rs.1342.03 crore. The Commission finds that the Applicant has not submitted the Electrical Inspector Certificates for the works completed in FY 2020-21. Therefore, the Commission, in the absence of complete details of capitalisation for FY 2020-21, is inclined to withhold 5% of the actual capitalisation for FY 2020-21. The same shall be allowable on submission of the complete details of capitalisation and after prudence check of the same. The details of Additional Capitalisation as claimed by the Applicant and approved by the Commission for FY 2020-21 is summarised below:

**Table 10: Capitalisation for FY 2020-21**

Particulars	(Rs.crore)		
	Approved in the MYT Order dated 20.03.2020	Claimed in APR	Approved
Capitalisation	2105.43	1342.03	1274.93

#### 4.4 REGULATED RATE BASE (RRB)

##### ***Applicant's submissions***

- 4.4.1 The Applicant has claimed the Regulated Rate Base (RRB) of Rs.9372.52 crore as against Rs.9205.27 crore approved by the Commission for FY 2020-21.

##### ***Commission's view***

- 4.4.2 The Commission has approved the RRB for FY 2020-21 in accordance with the provisions of the Regulation No.5 of 2005. The Commission has considered the opening GFA, opening accumulated depreciation and opening consumer contribution for FY 2020-21 the same as the closing GFA, closing accumulated depreciation and closing consumer contribution for FY 2019-20 approved in the APR Order dated 02.09.2021. The approved capitalisation during the year has been considered as investments capitalised. The actual consumer contributions received during the year has been considered as per the audited accounts. The approved depreciation during the year has been considered as the depreciation addition. The working capital for the year has been considered as equivalent to 45 days of approved net O&M expenses.
- 4.4.3 The RRB claimed by the Applicant and approved by the Commission for FY 2020-21 is as shown in the Table below:

**Table 11: RRB for FY 2020-21**

Particulars	(Rs.crore)		
	Approved in the MYT Order dated 20.03.2020	Claimed in APR	Approved
RRB	9205.27	9372.52	8977.95

#### 4.5 WEIGHTED AVERAGE COST OF CAPITAL

##### ***Applicant's submissions***

- 4.5.1 The Applicant has claimed the Weighted Average Cost of Capital (WACC) of 12.46% as against the WACC of 10.89% approved by the Commission for FY 2020-21.

##### ***Commission's view***

- 4.5.2 The Commission has approved ROCE for FY 2020-21 in accordance with the provisions of the Regulation No.5 of 2005. The Debt Equity ratio has been considered as 75:25, the same as approved in the MYT Order and as claimed by the Applicant for true-up. From the WACC claim of the Applicant, the

Commission finds that the cost of debt considered by the Applicant is 11.95% whereas, the Commission had approved the cost of debt of 9.85% for FY 2020-21 in the MYT Order. From the actual loan balances and interest submitted by the Applicant, the Commission has worked out the cost of debt for FY 2020-21 as 10.32%. Therefore, the Commission has considered the cost of debt as 10.32%. The Commission has considered the cost of equity as 14%, same as that approved in the MYT Order.

- 4.5.3 The WACC claimed by the Applicant and approved by the Commission for FY 2020-21 is as shown in the Table below:

**Table 12: Weighted Average Cost of Capital for FY 2020-21**

(Rs.crore)			
Particulars	Approved in the MYT Order dated 20.03.2020	Claimed in APR	Approved
Debt	75.00%	75.00%	75.00%
Equity	25.00%	25.00%	25.00%
Debt equity ratio	3.00	3.00	3.00
Cost of Debt	9.85%	11.95%	10.32%
Cost of Equity	14.00%	14.00%	14.00%
WACC	10.89%	12.46%	11.24%

#### 4.6 RETURN ON CAPITAL EMPLOYED

##### ***Applicant's submissions***

- 4.6.1 The Applicant has claimed Return on Capital Employed (RoCE) of Rs.1168.25 crore as against the RoCE of Rs.1002.22 crore approved by the Commission for FY 2020-21.

##### ***Commission's view***

- 4.6.2 The Commission has approved RoCE for FY 2020-21 considering the approved RRB and WACC for the year. The RoCE claimed by the Applicant and approved by the Commission for FY 2020-21 is as shown in the Table below:

**Table 13: Return on Capital Employed for FY 2020-21**

(Rs.crore)			
Particulars	Approved in the MYT Order dated 20.03.2020	Claimed	Approved
Regulated Rate Base for RoCE	9205.27	9372.52	8977.95
Weighted Average Cost of Capital	10.89%	12.46%	11.24%
<b>Return on Capital Employed</b>	<b>1002.22</b>	<b>1168.25</b>	<b>1009.13</b>

## 4.7 DEPRECIATION

### ***Applicant's submissions***

- 4.7.1 The Applicant has claimed the depreciation of Rs.857.78 crore as against the depreciation of Rs.890.54 crore approved by the Commission for FY 2020-21.

### ***Commission's view***

- 4.7.2 As regards depreciation, clause 15 of the Regulation No.5 of 2005 stipulates as under:

***"15 DEPRECIATION***

*Depreciation shall be computed in the following manner:*

- 15.1 *For each year of control period, depreciation shall be calculated on the amount of Original Cost of the Fixed Assets included in the RRB at the beginning of each year of control period:*

*Provided that depreciation on assets funded by consumer/user contributions or through any capital subsidy/grant etc shall not be allowed in the revenue requirement of the Transmission Licensee.*

- 15.2 *Depreciation allowance for each year of control period shall be determined, generally based on the methodology, rates and other terms as decided by CERC from time to time.*

- 15.3 *Depreciation shall be charged from the 1<sup>st</sup> April of the following year from the date the asset is put to use."*

- 4.7.3 The Applicant has claimed that the depreciation was calculated considering the rates of depreciation as notified in CERC (Terms and Conditions of Tariff) Regulations, 2019. The opening value of fixed assets of FY 2020-21 has been considered as equal to the closing value of GFA approved in APR Order dated 02.09.2021. The Applicant has claimed the depreciation on the GFA addition during the year also but, the Commission has computed the depreciation considering the approved opening GFA for FY 2020-21 in accordance with the provisions of the Regulation No.5 of 2005. The depreciation claimed by the Applicant and approved by the Commission for FY 2020-21 is as shown in the Table below:

***Table 14: Depreciation for FY 2020-21***

<b>Particulars</b>	<b>Approved in the MYT Order dated 20.03.2020</b>	<b>Claimed in APR</b>	<b>(Rs.crore)</b>
			<b>Approved</b>
Depreciation	890.54	857.78	794.60



#### 4.8 TAXES ON INCOME

##### ***Applicant's submissions***

- 4.8.1 The Applicant has claimed the tax on income of Rs.69.45 crore as against Rs.68.21 crore approved by the Commission for FY 2020-21.

##### ***Commission's view***

- 4.8.2 The Commission has calculated the tax on RoE component for FY 2020-21 based on the Equity component of the RRB and the Minimum Alternate Tax (MAT) Rate, which works out to Rs.66.53 crore. The Commission has observed that the actual income tax paid for FY 2020-21 is Rs.80.34 crore. In accordance with the provisions of the Regulation No.5 of 2005, the tax on income allowable in ARR shall be limited to tax on RoE component. Accordingly, as the actual tax paid is higher than the tax on RoE component, the Commission has limited the allowable tax to tax on RoE component. The tax on income claimed by the Applicant and approved by the Commission for FY 2020-21 is as shown in the Table below:

**Table 15: Tax on Income for FY 2020-21**

Particulars	(Rs.crore)		
	Approved in the MYT Order dated 20.03.2020	Claimed in APR	Approved
Tax on Income	68.21	69.45	66.53

#### 4.9 NON-TARIFF INCOME

##### ***Applicant's submissions***

- 4.9.1 The Applicant has claimed the Non-Tariff Income (NTI) of Rs.444.53 crore as against NTI of Rs.502.21 crore approved by the Commission for FY 2020-21 as shown in the Table below:

**Table 16: Non-Tariff Income as claimed for FY 2020-21**

Particulars	(Rs.crore)	
	Approved in the MYT Order dated 20.03.2020	Claimed in APR
Interest on Staff loans and advances	1.00	
Income from investments	8.50	8.88
Interest on Contingency Reserve investments	4.00	5.20
Income from sale of scrap etc.,	4.00	
Supervision Charges	178.80	35.37
Amortisation of Consumer Contributions, Grants towards cost of fixed assets - LIS	208.43	178.19

Particulars	Approved in the MYT Order dated 20.03.2020	Claimed in APR
Assets		
Amortisation of Consumer Contributions, Grants towards cost of fixed assets - Other than LIS Assets	87.48	110.01
Income on loans and advances to DISCOMs		71.68
Unbilled revenue		7.78
Fines and penalties		6.98
AMC charges		4.93
Rebate		1.41
Others	10.00	14.09
<b>Total</b>	<b>502.21</b>	<b>444.53</b>

**Commission's view**

- 4.9.2 The Commission has considered the NTI as per the audited accounts. The NTI claimed by the Applicant and approved by the Commission is as shown in the Table below:

**Table 17: Non-Tariff Income for FY 2020-21**

Particulars	Approved in the MYT Order dated 20.03.2020	Claimed in APR	(Rs.crore)
			Approved
NTI	502.21	444.53	444.53

**4.10 REVENUE REQUIREMENT FOR FY 2020-21**

**Applicant's submissions**

- 4.10.1 The Applicant has claimed the net revenue requirement of Rs.2405.18 crore as against Rs.2323.95 crore approved by the Commission for FY 2020-21.

**Commission's view**

- 4.10.2 Based on the above, the revenue requirement approved by the Commission for FY 2020-21 are as shown in the Table below:

**Table 18: Revenue Requirement for FY 2020-21**

Particulars	Approved in the MYT Order dated 20.03.2020	Claimed in APR	(Rs.crore)
			Approved
Operation & Maintenance expenses	865.20	754.22	754.22
Return on Capital Employed	1002.22	1168.25	1009.13
Depreciation	890.54	857.78	794.60
Taxes on Income	68.21	69.45	66.53

Particulars	Approved in the MYT Order dated 20.03.2020	Claimed in APR	Approved
<b>Aggregate Revenue Requirement</b>	<b>2826.16</b>	<b>2849.70</b>	<b>2624.48</b>
Less: Non-Tariff Income	502.21	444.53	444.53
<b>Net Revenue Requirement</b>	<b>2323.95</b>	<b>2405.18</b>	<b>2179.95</b>

#### 4.11 REVENUE SIDE TRUE-UP

##### *Applicant's submissions*

4.11.1 The Applicant has claimed the revenue from transmission charges of Rs.2353.88 crore for FY 2020-21.

##### *Commission's view*

4.11.2 The Commission observed that the revenue from transmission charges in the audited accounts is inclusive of the claimed revenue gap of Rs.51.30 crore and accordingly, the Applicant has excluded the same while claiming the revenue for true-up. The Commission has considered the revenue from transmission charges as Rs.2353.88 crore for FY 2020-21.

#### 4.12 SUMMARY OF TRUE-UP

##### *Applicant's submissions*

4.12.1 The Applicant has claimed the revenue gap of Rs.51.30 crore for FY 2020-21.

##### *Commission's view*

4.12.2 Based on the approved ARR and revenue for FY 2020-21, the total revenue gap/(surplus) approved by the Commission on true-up of FY 2020-21 is as shown in the Table below:

**Table 19: Revenue gap/(surplus) approved by the Commission for FY 2020-21**

Particulars	(Rs.crore)	
	Claimed	Approved
Net Revenue Requirement	2405.18	2179.95
Revenue from Transmission Charges	2353.88	2353.88
<b>Revenue Gap/(Surplus)</b>	<b>51.30</b>	<b>-173.93</b>

4.12.3 As against the revenue gap of Rs.51.30 crore claimed by the Applicant, the Commission has approved the revenue surplus of Rs.173.93 crore on APR for FY 2020-21.

#### **4.13 RECOVERY OF REVENUE GAP/(SURPLUS)**

4.13.1 The Commission in the APR (True-up) Order for FY 2019-20 of the Applicant approved the revenue gap of Rs.64.89 crore for FY 2019-20 and directed the Applicant to include the same in its APR filings for FY 2020-21 and propose the recovery/adjustment mechanism of the total revenue gap/(surplus) for FY 2019-20 and FY 2020-21.

4.13.2 In reply to a query in this regard, the Applicant requested that the total revenue gap/(surplus) combined for FY 2019-20 and FY 2020-21 and for the ensuing years of 4<sup>th</sup> control period may be recovered/adjusted through Transmission Tariff in subsequent control period as per clause 20.2 of the Regulation No.5 of 2005. The Commission differs the Applicant's proposal and directs the Applicant to include and propose the adjustment mechanism of the total approved revenue surplus of Rs.109.04 crore (revenue gap of Rs.64.89 crore on APR for FY 2019-20 and revenue surplus of Rs.173.93 crore on APR for FY 2020-21) in its APR filings for FY 2021-22. The Commission shall take appropriate view on the same after prudence check of the APR filings for FY 2021-22.

4.13.3 The Petition is disposed of in the above terms.

This Order is corrected and signed on this the 07<sup>th</sup> day of April, 2022.

Sd/-  
(BANDARU KRISHNAIAH)  
MEMBER

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

Sd/-  
(T.SRIRANGA RAO)  
CHAIRMAN



**BEFORE THE HON'BLE  
TELANGANA STATE ELECTRICITY REGULATORY COMMISSION**  
5th Floor, Singareni Bhayan, Red Hills, Lakdi-ka-pul, Hyderabad 500004  
**Transmission Corporation of Telangana Limited (TSTRANSCO)**

**PUBLIC NOTICE**

O.P. No. 03 of 2022 and O.P. No.02 of 2022

1. Notice is hereby given to all that the Transmission Corporation of Telangana Limited (TSTRANSCO) has filed before the Telangana State Electricity Regulatory Commission (TSERC) for Annual Performance Review (True up) for Transmission Business and State Load Dispatch Centre (SLDC) activity of TSTRANSCO for FY 2020-21. These filings have been taken on record by the Commission in O.P. No. 03 of 2022 (Transmission Business) and O.P. No.02 of 2022 (SLDC activity), respectively.
2. Copies of the filings referred are available in the Office of the Chief Engineer (CommI& RAC) Room No. 149, 'A' Block, TSTRANSCO, Vidyut Soudha, Hyderabad- 500082 and the Chief Engineer/ (Metro Zone, Rural Zone, Karimnagar and Warangal Zone) and Superintending Engineer/ OMC/ TSTRANSCO (Khammam, Nizamabad, Adilabad, Karimnagar, Nalgonda, Mahabubnagar, Warangal, Metro East, Metro West, Metro Central, Sangareddy located at Hyderabad). interested persons may inspect/peruse the said filings and take note thereof during office hours at any of the said offices free of cost. These proposals are also available on [www.tstransco.in](http://www.tstransco.in) and the same may be also accessed at [www.tserc.gov.in](http://www.tserc.gov.in). A copy of these filings can be obtained from the above office on payment of photocopying charges by cash.
3. Objections/ suggestions if any, on the said filings together with supporting material may be sent to the Chief Engineer (CommI& RAC) Room No. 149, 'A' Block, TSTRANSCO, Vidyut Soudha, Hyderabad-500082 in person or through Registered Post so as to reach on or before 17.02.2022 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 and postal address of the person(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. The objection/suggestion should accompany the following statement as an overleaf-

Name & full address of the Objector	Brief details of Objection (s)/ Suggestion (s)	Objections against filings by TSTRANSCO for Annual Performance Review (True up) for Transmission Business and SLDC activity.	Whether copy of objection & proof of delivery at TSTRANSCO's office enclosed (Yes/No)	Whether Objector wants to be heard in person (Yes/No)

4. Telangana State Electricity Regulatory Commission intends to conduct a Public Hearing through video conference on 28.02.2022 from 11:30 hrs onwards. The Stakeholders desiring to be heard in person shall furnish the required details for attending the Public Hearing through video conference (Refer to Proceedings No.TSERC/Secy/No.PD-1/2020 Dated:09.09.2020 hosted on the Commission's website [www.tserc.gov.in](http://www.tserc.gov.in) for further details).

Place: Hyderabad

Date: 27.01.2022

RO: 45/21

Sd/- Chairman and Managing Director,  
TSTRANSCO



**Annexure-II**  
**List of stakeholders who submitted the written**  
**comments/objections/suggestions**

<b>Sl. No.</b>	<b>Name and Address of the stakeholder</b>
1	Sri M.Venugopala Rao, Senior Journalist & Convenor, Centre for Power Studies, H.No.1-100/MP/101, Monarch Prestige, Journalist's Colony, Gopanpally, Serlingampally Mandal, Hyderabad 500 032.
2	Southern Power Distribution Company of Telangana Limited, # 6-1-50, Corporate Office, Mint Compound, Hyderabad 500 063.
3	Northern Power Distribution Company of Telangana Limited, # 2-5-31/2, Corporate Office, Vidyut Bhavan, Nakkalagunta, Hanumakonda, Warangal 506 001.



**Annexure-III**  
**List of stakeholders who attended the virtual public hearing**  
**through video conference held on 28.02.2022**

<b>Sl. No.</b>	<b>Name and Address of the stakeholder</b>
1	Sri M.Venugopala Rao, Senior Journalist & Convenor, Centre for Power Studies, H.No.1-100/MP/101, Monarch Prestige, Journalist's Colony, Gopanpally, Serlingampally Mandal, Hyderabad 500 032.
2	Southern Power Distribution Company of Telangana Limited, # 6-1-50, Corporate Office, Mint Compound, Hyderabad 500 063.
3	Northern Power Distribution Company of Telangana Limited, # 2-5-31/2, Corporate Office, Vidyut Bhavan, Nakkalagunta, Hanumakonda, Warangal 506 001.