



Telangana State Electricity Regulatory Commission
5thFloor, Singareni Bhavan, Red Hills, Lakdi-ka-pul, Hyderabad 500 004

Tariff Order

**RETAIL SUPPLY TARIFFS &
CROSS SUBSIDY SURCHARGE FOR FY 2023-24**

in the Supply Areas of

**Southern Power Distribution Company of Telangana
Limited (TSSPDCL)**

AND

**Northern Power Distribution Company of Telangana
Limited (TSNPDCL)**

24.03.2023

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List of Abbreviations

Abbreviation	Full form of abbreviation
AFC	Annual Fixed Cost
ARR	Aggregate Revenue Requirement
ATE/APTEL	Appellate Tribunal for Electricity
BTPS	Bhadradi Thermal Power Station
CAG	Comptroller and Auditor General of India
CAGR	Compound Annual Growth Rate
CEA	Central Electricity Authority
CERC	Central Electricity Regulatory Commission
CESS	Co-operative Electric Supply Society
CGRF	Consumer Grievance Redressal Forum
CGS	Central Generating Stations
CSERC	Chhattisgarh State Electricity Regulatory Commission
CL	Connected Load/Contracted Load
CMD	Contracted Maximum Demand
CoD	Commercial Operation Date
CoS	Cost of Service
CPWS	Composite Protected Water Supply
CSPDCL	Chhattisgarh State Power Distribution Company Ltd.
CSPTCL	Chhattisgarh State Power Transmission Company Ltd.
CUF	Capacity Utilisation Factor
D-to-D	Discom to Discom
DPS	Delayed Payment Surcharge
DSM	Demand Side Management
DTR	Distribution Transformer
EHT	Extra High Tension
EPS	Electric Power Survey
ERC	Electricity Regulatory Commission
FCRTS	Full Cost Recovery Tariff Schedule
FPT	Filing for Proposed Tariff
FSA	Fuel Surcharge Adjustment
FY	Financial Year
GCV	Gross Calorific Value
GoTS	Government of Telangana State
GoI	Government of India
HMWSSB	Hyderabad Metropolitan Water Supply and Sewerage Board
HT	High Tension
I&CAD	Irrigation & Command Area Development
JNNSM	Jawaharlal Nehru National Solar Mission
KTPP	Kakatiya Thermal Power Plant
KTPS	Kothagudem Thermal Power Station
kVA	kilo Volt Ampere
kW	kilo Watt
kWh	kilo Watt hour
LJHES	Lower Jurala Hydro Electric Project
LT	Low Tension

Abbreviation	Full form of abbreviation
MoP	Ministry of Power
MoU	Memorandum of Understanding
MU	Million Units
MW	Mega Watt
MYT	Multi Year Tariff
NPCIL	Nuclear Power Corporation of India Ltd.
NLC	Neyveli Lignite Corporation
NTPC	National Thermal Power Corporation
PCHES	Pulichintala Hydro Electric Project
PGCIL	Power Grid Corporation of India Ltd.
PLF	Plant Load Factor
PPA	Power Purchase Agreement
PTC	Power Trading Corporation
RBI	Reserve Bank of India
RRB	Regulated Rate Base
RST	Retail Supply Tariff
RSTS	Retail Supply Tariff Schedule
SEIL	Sembcorp Energy India Limited
SLBHES	Srisaillam Left Bank Hydro Electric Scheme
SLDC	State Load Dispatch Centre
TPCIL	Thermal Powertech Corporation India Ltd.
TSERC	Telangana State Electricity Regulatory Commission
TSGenco	Telangana State Power Generation Corporation Ltd.
TSNPDCL	Northern Power Distribution Company of Telangana Limited
TSSPDCL	Southern Power Distribution Company of Telangana Limited
TSTransco	Transmission Corporation of Telangana Ltd.
UDAY	Ujjwal Discom Assurance Yojana
YTPS	Yadadri Thermal Power Station
AFC	Annual Fixed Cost
ARR	Aggregate Revenue Requirement
ATE/APTEL	Appellate Tribunal for Electricity
BTPS	Bhadradri Thermal Power Station
CAG	Comptroller and Auditor General of India
CAGR	Compound Annual Growth Rate
CEA	Central Electricity Authority
CERC	Central Electricity Regulatory Commission
CESS	Co-operative Electric Supply Society
CGRF	Consumer Grievance Redressal Forum
CGS	Central Generating Stations
CSERC	Chhattisgarh State Electricity Regulatory Commission
CL	Connected Load/Contracted Load
CMD	Contracted Maximum Demand
CoD	Commercial Operation Date
CoS	Cost of Service
CPWS	Composite Protected Water Supply
CSPDCL	Chhattisgarh State Power Distribution Company Ltd.
CSPTCL	Chhattisgarh State Power Transmission Company Ltd.

Abbreviation	Full form of abbreviation
CUF	Capacity Utilisation Factor
D-to-D	Discom to Discom
DPS	Delayed Payment Surcharge
DSM	Demand Side Management
DTR	Distribution Transformer
EHT	Extra High Tension
EPS	Electric Power Survey
ERC	Electricity Regulatory Commission
FCRTS	Full Cost Recovery Tariff Schedule
FPT	Filing for Proposed Tariff
FSA	Fuel Surcharge Adjustment
FY	Financial Year
GCV	Gross Calorific Value
GoTS	Government of Telangana State
Gol	Government of India
HMWSSB	Hyderabad Metropolitan Water Supply and Sewerage Board
HT	High Tension
I&CAD	Irrigation & Command Area Development
JNNSM	Jawaharlal Nehru National Solar Mission
KTPP	Kakatiya Thermal Power Plant
KTPS	Kothagudem Thermal Power Station
kVA	kilo Volt Ampere
kW	kilo Watt
kWh	kilo Watt hour
LJHES	Lower Jurala Hydro Electric Project
LT	Low Tension
MoP	Ministry of Power
MoU	Memorandum of Understanding
MU	Million Units
MW	Mega Watt
MYT	Multi Year Tariff
NPCIL	Nuclear Power Corporation of India Ltd.
NLC	Neyveli Lignite Corporation
NTPC	National Thermal Power Corporation
PCHES	Pulichintala Hydro Electric Project
PGCIL	Power Grid Corporation of India Ltd.
PLF	Plant Load Factor
PPA	Power Purchase Agreement
PTC	Power Trading Corporation
RBI	Reserve Bank of India
RRB	Regulated Rate Base
RST	Retail Supply Tariff
RSTS	Retail Supply Tariff Schedule
SEIL	Semcorp Energy India Limited
SLBHES	Srisaïlam Left Bank Hydro Electric Scheme
SLDC	State Load Dispatch Centre
TPCIL	Thermal Power Tech Corporation India Ltd.

Abbreviation	Full form of abbreviation
TSERC	Telangana State Electricity Regulatory Commission
TSGenco	Telangana State Power Generation Corporation Ltd.
TSNPDCL	Northern Power Distribution Company of Telangana Limited
TSSPDCL	Southern Power Distribution Company of Telangana Limited
TSTransco	Transmission Corporation of Telangana Ltd.
UDAY	Ujjwal Discom Assurance Yojana
YTPS	Yadadri Thermal Power Station





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

Dated 24.03.2023

Present

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

O.P.No.81 of 2022 for ARR and FPT filings for RST for FY 2023-24

O.P.No.82 of 2022 & I.A.No.60 of 2022 True-up FY 2016-17 and condonation of delay

O.P.No.83 of 2022 & I.A.No.61 of 2022 True-up FY 2017-18 and condonation of delay

O.P.No.84 of 2022 & I.A.No.62 of 2022 True-up FY 2018-19 and condonation of delay

O.P.No.85 of 2022 & I.A.No.63 of 2022 True-up FY 2019-20 and condonation of delay

O.P.No.86 of 2022 & I.A.No.64 of 2022 True-up FY 2020-21 and condonation of delay

O.P.No.87 of 2022 & I.A.No.70 of 2022 True-up FY 2021-22 and condonation of delay

O.P.No.88 of 2022 & I.A.No.71 of 2022 True-up FY 2022-23 and condonation of delay

Southern Power Distribution Company of Telangana Limited (TSSPDCL)

... Applicant

O.P.No.80 of 2022 for ARR and FPT filings for RST for FY 2023-24

O.P.No.89 of 2022 & I.A.No.65 of 2022 True-up FY 2016-17 and condonation of delay

O.P.No.90 of 2022 & I.A.No.66 of 2022 True-up FY 2017-18 and condonation of delay

O.P.No.91 of 2022 & I.A.No.67 of 2022 True-up FY 2018-19 and condonation of delay

O.P.No.92 of 2022 & I.A.No.68 of 2022 True-up FY 2019-20 and condonation of delay

O.P.No.93 of 2022 & I.A.No.69 of 2022 True-up FY 2020-21 and condonation of delay

O.P.No.94 of 2022 & I.A.No.72 of 2022 True-up FY 2021-22 and condonation of delay

O.P.No.95 of 2022 & I.A.No.73 of 2022 True-up FY 2022-23 and condonation of delay

Northern Power Distribution Company of Telangana Limited (TSNPDCL)

... Applicant

The Southern Power Distribution Company of Telangana Limited (TSSPDCL) and the Northern Power Distribution Company of Telangana Limited (TSNPDCL) (hereinafter collectively referred to as "TSDISCOMs") have filed Original Petitions (O.Ps.) on 30.11.2022 under Section 64 of the Electricity Act, 2003 and as per the provisions of Terms and Conditions for Determination of Tariff for Wheeling and Retail Sale of Electricity Regulation No.4 of 2005, for determination of Aggregate Revenue Requirement (ARR) and Retail Supply Tariff along with Cross Subsidy Surcharge

(CSS) for the Retail Supply Business for FY 2023-24. Subsequently, TSDISCOMs on 16.12.2022 have filed Power Purchase True-up/True-down petitions for the period from FY 2016-17 to FY 2021-22 and for provisional true-up for FY 2022-23 in accordance with Clause 12.5 of Regulation No.1 of 2014 along with delay condonation Interlocutory Applications (I.As.) have come up for consideration before the Commission.

The Commission, in exercise of its powers under the Electricity Act, 2003 and the Regulation No.4 of 2005 being (Terms and Conditions for determination of tariff for Wheeling and Retail Sale of electricity) Regulation, 2005 and after consideration of TSDISCOMs submissions, objections and suggestions of the stakeholders, the issues raised during the Public Hearings, responses to the same by TSDISCOMs and all other relevant material available on record, hereby passes the following:

COMMON ORDER

Chapter-1 Introduction

1.1 BACKGROUND

- 1.1.1 Telangana State Electricity Regulatory Commission (hereinafter referred to as “TSERC” or “the Commission”) was constituted by the Government of Telangana State (GoTS) in terms of the provisions of Schedule XII(C)(3) of the A.P. Reorganisation Act, 2014 read with Section 82 of the Electricity Act, 2003 vide G.O.Ms.No.3, Energy (Budget) Department, dated 26.07.2014.
- 1.1.2 This Commission having been established under Section 82(1) of the Electricity Act, 2003 is required to exercise the powers and functions vested in it under Section 86 and Section 62(1) of the Act 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 Telangana State.
- 1.1.3 The Commission notified Regulation, viz., 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 Commission (erstwhile APERC) will continue to apply for the Telangana State, till further modification.

1.2 TSDISCOMs (TSSPDCL & TSNPDCL)

- 1.2.1 Both the distribution companies viz., Southern Power Distribution Company of Telangana Limited (formerly Central Power Distribution Company of Andhra Pradesh Limited, APCPDCL) and Northern Power Distribution Company of Telangana Limited (formerly Northern Power Distribution Company of Andhra Pradesh Limited, APNPDCL) were incorporated under the Companies Act, 1956 as a Public Limited Company and have Distribution and Retail Supply of Electricity License (License Nos.13 of 2000 dated 29.12.2000 and 14 of 2000 dated 29.12.2000 respectively), granted by the Commission (erstwhile APERC) under Section 15 of Andhra Pradesh Electricity Reform Act, 1998 effected from 1st April, 2001, all conditions as contained in License shall be deemed to have been specified u/s 16 of the Electricity Act, 2003 as per the Commission (erstwhile APERC) notified Regulation No.8 of 2004.
- 1.2.2 In terms with Schedule XII to the Andhra Pradesh Reorganisation Act, 2014, which came into effect on 2nd June, 2014 the Anantapur and Kurnool districts, which fall within the jurisdiction of the APCPDCL have been reassigned to the Southern Power Distribution Company of Andhra Pradesh Limited (APSPDCL). Accordingly, two (2) operating circles of APCPDCL viz., Anantapur and Kurnool were demerged and assigned to APSPDCL. Likewise, seven (7) Mandals viz., Chintoor, Kunavarm, Vararamachandrapuram, Kukunuru, Velairupadu, Badrachalam (excluding Badrachalam town) and part of Burgampadu

(excluding 12 revenue villages) of APNPDCL were transferred to residual state of Andhra Pradesh; on the appointed date i.e., 02.06.2014.

- 1.2.3 Assets and Liabilities of the distribution licensees were bifurcated in terms of Transfer Guidelines issued by united State of Andhra Pradesh in G.O.Ms.No.24, dated 29.05.2014.
- 1.2.4 In pursuant to the provisions of Section 13 and other applicable provisions of Companies Act, 2013 the name of the distribution companies have been changed from APCPDCL to Southern Power Distribution Company of Telangana Limited (TSSPDCL) w.e.f. 27.05.2014 and from APNPDCL to Northern Power Distribution Company of Telangana Limited (TSNPDCL) w.e.f. 28.05.2014.
- 1.2.5 The Commission in its order dated 17th March, 2017 in O.P.No.3 of 2017, has allowed the name of the license to be the Southern Power Distribution Company of Telangana Limited (TSSPDCL) in place of APCPDCL and in order dated 17th March, 2017 in O.P.No.4 of 2017 allowed the name of the license to be the Northern Power Distribution Company of Telangana Limited (TSNPDCL) in place of APNPDCL.

1.3 REGULATORY PROVISIONS

Multi-Year Tariff (MYT) Principles:

- 1.3.1 In accordance with the provisions of Section 64 of the Electricity Act, 2003 it is incumbent upon the distribution licensees to make an application to the Commission to determine the ARR and Retail Supply Tariff in such manner and terms as may be specified by the Regulations framed by the Commission.
- 1.3.2 As per the Regulation No.4 of 2005, the licensee is required to file the Aggregate Revenue Requirement (ARR) for Retail Supply Business and Filing for Proposed Tariff (FPT) for the entire control period i.e., for the period from FY 2019-20 to FY 2023-24.
- 1.3.3 TSDISCOMs vide their letters (TSSPDCL on 28.09.2021 and TSNPDCL on 02.10.2021) have represented the Commission to permit TSDISCOMs to file ARR and FPT for retail supply business on annual basis from hereon and specifically for 4th year i.e., FY 2022-23 of 4th MYT control period explaining that

the uncontrollable factors and significant uncertainties involved are likely to continue in the coming years as well and presented the following reasons:

- i) Significant uncertainty involved in projection of quantum of power to be purchased from various sources as well as in costs
- ii) Regulatory objectives of a Multi-Year Tariff regime not met
- iii) Demand Side Uncertainties

1.3.4 The Commission has allowed the licensees to file retail supply tariff petitions for the remaining two (2) years in the present control period i.e., FY 2022-23 and FY 2023-24 on annual basis vide proceedings No.Secy/RO-1/ 5/Secy/JD(Law)-02/D.No.518/2021 dated 05.11.2021.

True-up Filings:

1.3.5 The Terms and Conditions for determination of Tariff for Wheeling and Retail Sale of Electricity, Regulation No.1 of 2014, adopted by the Commission vide Regulation No.1 of 2014 and subsequent amendments thereof, stipulates as under:

“12.5 True-up of Retail Supply Business

- a. *The Distribution Licensee shall include the power purchase cost variation over the previous year Power Purchase cost in the Tariff Order as expense (in the event of incurring excess cost)/rebate (in case of cost saving) in the ARR as special item with relevant details. To arrive the power purchase cost variation, the least of the following power purchase quantity is to be considered:*
 - i) *Actual power purchase quantity procured by the DISCOM for its consumers.*
 - ii) *Power purchase quantity computed based on actual sales except LT Agriculture sales. LT Agricultural sales will be limited to Tariff Order quantity. These aggregated sales will be grossed up with approved losses for the relevant year in the MYT orders.*
- b. *Since the complete information of cost actually incurred relating to previous year will not be available at the time of filing of ARR for a particular tariff year, the Licensee may include provisional cost variation for the previous year in ARR filings which will be subject to final correction by the Commission as and when final accounts for that year become available.*
- c. *The Licensees shall also include in the ARR the amounts to be collected on final basis being the difference between the cost incurred based on audited annual accounts report and costs provisionally approved by the Commission in the Tariff Order for the year immediately preceding the previous year.*

... ..”

Regulation No.1 of 2022, stipulates as hereunder:

15.2 *In case of any delay in submission of filings as required under this Regulation, the rate of return on equity shall be reduced by 0.5% per month or part thereof.*

1.4 PRESENT PETITION

ARR, FPT and CSS of retail supply business for FY 2023-24:

1.4.1 The distribution licensees were to file their ARR, tariff proposals for FY 2023-24 on or before 30.11.2022, so as to make available to the Commission the statutory time of 120 days for determination of Aggregate Revenue Requirement (ARR) and Retail Supply Tariff along with Cross Subsidy Surcharge (CSS) for the Retail Supply Business for FY 2023-24 commencing from 01.04.2023. Accordingly, TSDISCOMs have filed petitions on 30.11.2022 for determination of ARR and Retail Supply Tariff along with CSS for Retail Supply Business for FY 2023-24.

Power Purchase True up/True-down petitions for FY 2016-17 to FY 2021-22 and provisional True-up for FY 2022-23:

1.4.2 In accordance with Clause 12.5 of Regulation No.1 of 2014 as adopted by the Commission read with its subsequent amendments thereof, TSDISCOMs are required to file power purchase true-up of retail supply business giving details of the variation in power purchase cost of previous year along with the ARR for the next year. Whereas, TSDISCOMs on 16.12.2022 have filed Power Purchase True up/True-down petitions for the period from FY 2016-17 to FY 2021-22 and provisional true-up for FY 2022-23 along with delay condonation Interlocutory Applications (I.As.) stating the following reasons for delay:

- i) Supplying 24 hours to all agricultural consumers w.e.f. 01.01.2018 as well as energization of Lift Irrigation (LI) schemes.
- ii) TSDISCOMs have submitted an application to the Commission for making amendments to the Principal Regulation No.4 of 2005 on 11.08.2017 wherein, TSDISCOMs have requested the Commission to amend the regulation on true-up allowing the actual agricultural sales in arriving power purchase cost true-ups so as to allow TSDISCOMs to pass on the excess power purchase cost in the ARR of Retail Supply Business.
- iii) Eventually, TSDISCOMs have submitted the petition on 31.03.2021 for ARR for Retail Supply Business for FY 2019-20, FY 2020-21 and FY 2021-22 before the Commission with a request to condone the delay in filing the aforementioned petition within the stipulated timeline due to

certain unavoidable situations that are beyond the control limit of TSDISCOMs viz., enforcement of Model Code of Conduct in view of elections to the Parliament, State Legislature, local bodies, defunct/non-functioning of the Commission for a certain period and further imposition of lockdown in the country in view of outbreak of pandemic COVID-19.

- iv) TSDISCOMs have filed the petition for amendment of Regulation No.4 of 2005 on 30.09.2019 requesting the Commission proposing certain additions to the uncontrollable items in the ARR and modifications to the existing uncontrollable items viz., considering actual Agriculture Sales, actual T&D losses, etc., for passing through the gains or losses to cope up with the present-day situations.
- v) In view of the aforementioned proposals, TSDISCOMs could not file the power purchase true-ups for FY 2016-17 along with the filings of ARR for Retail Supply Business for FY 2019-20 to FY 2021-22 dated 31.03.2021.
- vi) Eventually, the Commission has dismissed the petition vide order dated 02.06.2021 in O.P.(SR) No.33 of 2019 stating that the Regulation which is termed as subordinate or delegated legislation cannot be amended or varied by invoking power either through the adjudicatory proceedings or inherent rule making power at the instance of any of the stakeholders and further opined that the submissions of TSDISCOMs would be treated as suggestion/input as and when the Commission initiates the process of adding to or amending or varying Regulation.
- vii) Further, TSDISCOMs have received loss funding pertains to FY 2017-18 (as per Clause 8.1 of UDAY guidelines communicated by Ministry of Power vide letter dated 20.11.2015) from Government of Telangana (GoTS) in June, 2022.
- viii) Due to the aforementioned reasons, TSDISCOMs could not file the power purchase true-ups in the stipulated timeline.

1.4.3 The Original Petitions along with their Interlocutory Applications submitted by TSDISCOMs were scrutinized and found to be generally in order as required under the TSERC (Conduct of Business) Regulations, 2015 (Regulation No.2 of 2015). The Commission admitted the filings and the same were taken on record by assigning the numbers as given below:

Table 1.1: Details of assigned O.P./I.A. numbers to the petitions filed by TSDISCOMs

Sl. No.	Petition filed for	O.P./I.A. No.	
		TSSPDCL	TSNPDCL
1	Approval of Aggregate Revenue Requirement (ARR), Filing for Proposed Tariff (FPT) and Cross Subsidy Surcharge (CSS) for FY 2023-24	O.P.No.81 of 2022	O.P.No.80 of 2022
2	Final PP True-up for FY 2016-17	O.P.No.82 of 2022 and I.A.No.60 of 2022 in O.P.No.82 of 2022	O.P.No.89 of 2022 and I.A.No.65 of 2022 in O.P.No.89 of 2022

Sl. No.	Petition filed for	O.P./I.A. No.	
		TSSPDCL	TSNPDCL
3	Final PP True-up for FY 2017-18	O.P.No.83 of 2022 and I.A.No.61 of 2022 in O.P.No.83 of 2022	O.P.No.90 of 2022 and I.A.No.66 of 2022 in O.P.No.90 of 2022
4	Final PP True-up for FY 2018-19	O.P.No.84 of 2022 and I.A.No.62 of 2022 in O.P.No.84 of 2022	O.P.No.91 of 2022 and I.A.No.67 of 2022 in O.P.No.91 of 2022
5	Final PP True-up for FY 2019-20	O.P.No.85 of 2022 and I.A.No.63 of 2022 in O.P.No.85 of 2022	O.P.No.92 of 2022 and I.A.No.68 of 2022 in O.P.No.92 of 2022
6	Final PP True-up for FY 2020-21	O.P.No.86 of 2022 and I.A.No.64 of 2022 in O.P.No.86 of 2022	O.P.No.93 of 2022 and I.A.No.69 of 2022 in O.P.No.93 of 2022
7	Final PP True-up for FY 2021-22	O.P.No.87 of 2022 and I.A.No.70 of 2022 in O.P.No.87 of 2022	O.P.No.94 of 2022 and I.A.No.72 of 2022 in O.P.No.94 of 2022
8	Provisional PP True-up for FY 2022-23	O.P.No.88 of 2022 and I.A.No.71 of 2022 in O.P.No.88 of 2022	O.P.No.95 of 2022 and I.A.No.73 of 2022 in O.P.No.95 of 2022

1.5 DATA GAPS AND PETITIONERS' RESPONSES

1.5.1 Upon scrutiny of the filings of TSDISCOMs, the Commission identified certain data gaps and directed TSDISCOMs to furnish additional information.

1.5.2 As directed by the Commission, TSDISCOMs submitted the additional information.

1.6 PUBLIC NOTICE

1.6.1 TSDISCOMs, as directed by the Commission, published a Public Notice on 21.12.2022 for information of all stakeholders and Public at large in two (2) English, two (2) Telugu and One (1) Urdu daily newspapers having wide circulation in their area of supply (Annexure-I). The notice was to inform the general public that the licensees have filed the ARR, Retail Supply Tariff proposals and CSS for the FY 2023-24 and Power Purchase True-up/ True-down petitions for the period(s) from FY 2016-17 to FY 2021-22 and for provisional True up for FY 2022-23 in respect of their retail supply business before the Commission.

- 1.6.2 The Public Notice and filings along with supporting material have been made available by TSDISCOMs to the public at large including all stakeholders by placing them at the offices of the Chief General Manager and Superintending Engineer, operation circles. The Public Notice, filings and supporting material were also hosted on the website of TSDISCOMs as well as the Commission.
- 1.6.3 It was also notified in the Public Notice (Annexure-I) that, objections/suggestions, if any on TSDISCOMs filings may be filed with TSDISCOMs by 31.01.2023 with a copy marked to the Commission.
- 1.6.4 It was also notified in the Public Notice that the Commission intends to conduct a Public Hearing in the following venues in the areas of supply of the respective TSDISCOM:

Table 1.2: Date & Time and Venues of Public Hearings

TSDISCOM	Date	Place
TSNPDCL	22.02.2023 from 10:30 am onwards	Meeting Hall, Integrated District Collectorate Complex, Hanamkonda District.
TSSPDCL	24.02.2023 from 10:30 am onwards	TSGENCO Auditorium, GTS Colony, Erragadda, Hyderabad 500 045.

1.7 RESPONSE TO THE PUBLIC NOTICE

- 1.7.1 In response to the Public Notice, sixty-one (61) number of objections/suggestions were received (Annexure-II) by the Commission both in writing as well as oral during the Public Hearing. TSDISCOMs were directed to give their response in writing to all the written objections and suggestions received by sending the same to the respective objector with a copy to the Commission on or before 11.02.2023. The replies were also posted on the websites of TSDISCOMs as well as that of the Commission.

1.8 STATE ADVISORY COMMITTEE MEETING

- 1.8.1 The 7th State Advisory Committee (SAC) meeting was held on 16.02.2023 in TSERC Meeting Hall, to elicit views of SAC members on the ARR and FPT of TSDISCOMs for FY 2023-24 and Power Purchase True up/True-down petitions for the period from FY 2016-17 to FY 2021-22 and for provisional True up for FY 2022-23. The views of the members have been taken into consideration, wherever appropriate, while determining the ARR, Retail Supply Tariffs and Cross Subsidy Surcharge for FY 2023-24 and finalizing the Power Purchase

True up/True-down petitions for the period from FY 2016-17 to FY 2021-22 and for provisional True-up for FY 2022-23.

1.9 CORRESPONDENCE WITH GoTS FOR MAKING STATEMENT ON TSDISCOMs FILINGS

1.9.1 The Commission vide its Lr.No.TSERC/Secy/F.No.ARR 2023-24/D.No.69/23, dated 11.02.2023 corresponded with the Government of Telangana (GoTS) intimating the filings made by TSDISCOMs on ARR, FPT and CSS for FY 2023-24 and accordingly to make a statement on the proposals of TSDISCOMs at the venues of the Public Hearings.

1.10 PUBLIC HEARING

1.10.1 The Commission conducted the Public Hearings at respective places of TSDISCOMs as per schedule at Table 1-1. During the public hearings, TSDISCOMs made brief presentations on their respective filings and then the Commission heard the objectors desiring to be heard in person. At the public hearings, apart from the registered objectors, the persons/organizations who attended the Public Hearing were also heard and their objections/ suggestions were also considered. At the end, as directed by the Commission, the respective Chairman & Managing Director of TSDISCOM responded on the issues raised by the objectors during the hearing and also as directed by the Commission, TSDISCOMs have submitted written submissions.

1.11 STATEMENT OF GOVERNMENT OF TELANGANA

1.11.1 The authorized representative from the Energy Department on behalf of the Government of Telangana State (GoTS) has made a statement, in the public hearing held at Hyderabad on 24.02.2023 and is reproduced hereunder:

“... .. the Government is committed to provide necessary financial assistance to power sector and subsidy to the utilities in accordance with the provisions of Section 65 of the Electricity Act, 2003, for Financial Year 2023-24. This would enable the Government to meet its objective of ensuring quality power supply to all consumers and also in extending necessary assistance to BPL families and farm sector.”

1.12 DELAY CONDONATION IN FILING POWER PURCHASE TRUE-UPS/TRUE-DOWNS Stakeholders' Submissions

1.12.1 As per clause 12.1 of Regulation No.4 of 2005, TSDISCOMs shall be allowed to recover the cost of Power it procures for supply to consumers based on the

Commission approved Power Procurement Plan covering each year of the control period. Accordingly, TSDISCOMs should be disallowed from recovering the entire Power Purchase cost in true-up when the Power Procurement Plans for each financial year of the control period itself have not been timely filed for the Commission's approval.

1.12.2 In the integrated rating score methodology introduced by Ministry of Power for assessing the health of TSDISCOMs, one of the parameters is specific disincentives which provides for Tariff Cycle Delays in terms of timely filing of the Petitions.

1.12.3 Further, this amounts to a gross violation of Hon'ble APTEL directives in O.P.No.1 of 2011 as is reproduced below:

"57 In the event of delay in filing of the ARR, truing up and Annual Performance Review, one month beyond the scheduled date of submission of the petition, the State Commission must initiate Suo Moto proceedings for tariff determination in accordance with Section 64 of the Act read with clause 8.1(7) of the Tariff Policy".

TSDISCOMs Replies

1.12.4 TSDISCOMs have undertaken activities for submission of Power Procurement Plan for 4th control period i.e., from FY 2019-20 to FY 2023-24. However, on account of the reasons as given in the delay condonation Interlocutory Applications, TSDISCOMs were not able to file the Power Procurement Plan.

1.12.5 As regards to the Hon'ble APTEL's directions, TSDISCOMs have been filing the ARR petitions on annual basis before the Commission (TSERC) until FY 2018-19 and the present petitions have been filed for ARR, FPT and CSS for FY 2023 24 without any delay. Further, for the period in which the Petitions could not be filed, TSDISCOMs have also not claimed any carrying cost.

Commission's View

1.12.6 In accordance with Clause 12.5 of Regulation No.1 of 2014 as adopted by the Commission read with its subsequent amendments thereof, TSDISCOMs are required to file power purchase true-up of retail supply business giving details of the variation in power purchase cost of previous year along with the ARR for the next year.

1.12.7 The Commission in order to provide consequences of delay in filing the proposals with the Commission has notified the following amendments to the

Principal Regulations relating to TSDISCOMs with stringent penalties viz., the penal fee that is attracted in case of the licensee not complying with the provisions of Regulations, the rate of return on equity shall be reduced by 0.5% per month or part thereof.

- i) Second Amendment to the Principal Regulation No.4 of 2005 viz., Terms and Conditions for Determination of Tariff for Wheeling and Retail Sale of Electricity. [Regulation No.1 of 2022]
- ii) First Amendment to the Principal Regulation No.2 of 2016 viz., Fee [Regulation No.2 of 2022]

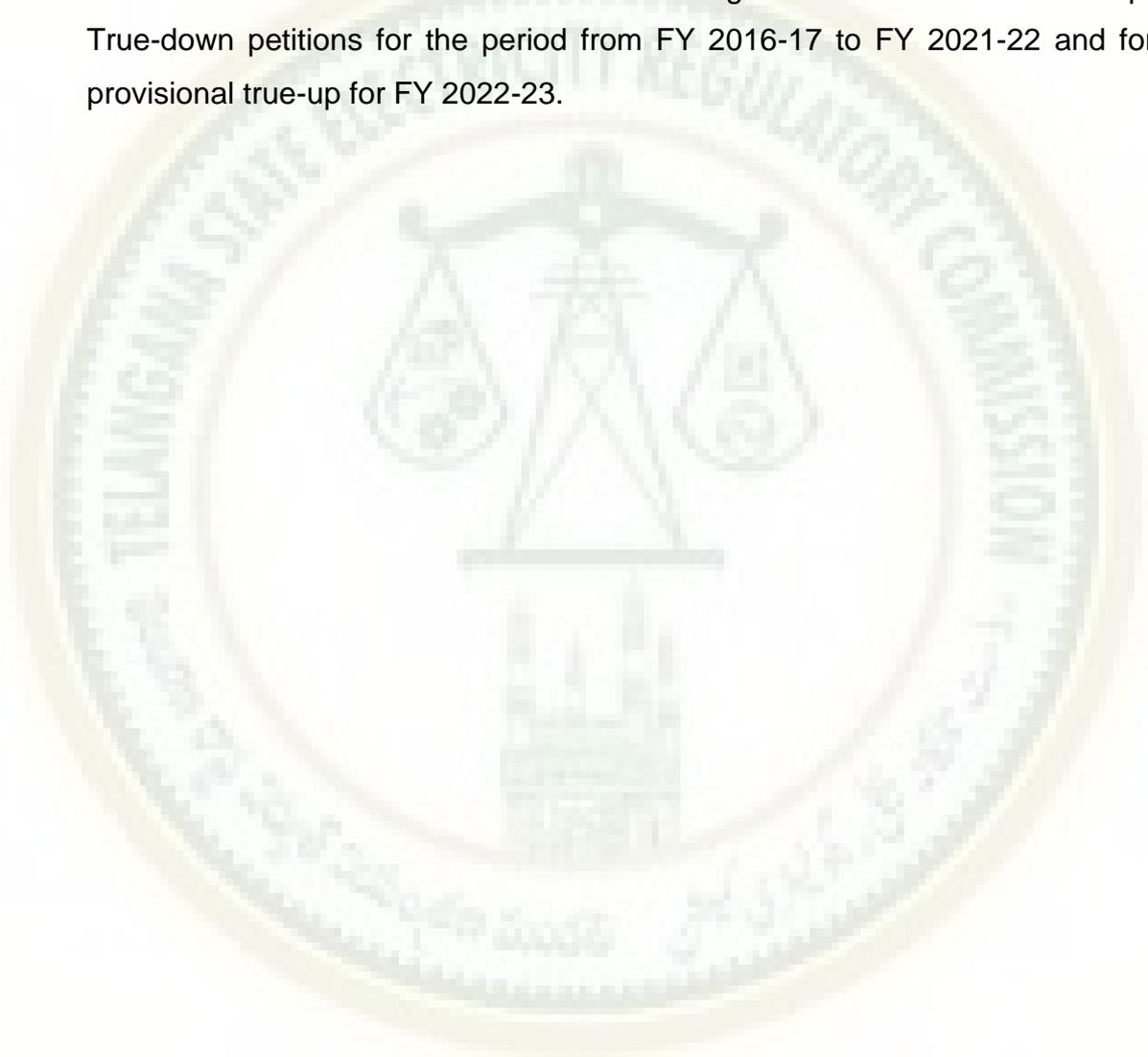
1.12.8 TSDISCOMs have cited the main reasons for delay as TSDISCOMs have started supplying 24 hours power to all agricultural services w.e.f. 01.01.2018 and due to unavoidable situations, that are beyond the control of TSDISCOMs viz., enforcement of Model Code of Conduct in view of elections to the Parliament, State Legislature, local bodies, non-functioning of the Commission for a certain period and imposition of lockdown in the country in view of outbreak of COVID-19 pandemic. On the other hand reason of delay is that TSDISCOMs have received loss funding pertaining to FY 2017-18 from Government of Telangana in June 2022, under UDAY Scheme that could be passed on to the consumers.

1.12.9 The Commission expresses its displeasure on the unwarranted delay by TSDISCOMs in filing the power purchase true-ups/true-downs of retail supply business. The objective of the Electricity Act, 2003 is to protect the interest of the consumers. Although the delay in filings for power purchase true-ups/true-downs of retail supply business is not desirable, it is necessary to determine the power purchase true-ups/true-downs by considering the benefit of participation in UDAY scheme, which should be passed on to the consumers. Hence, the Commission finds it appropriate to condone the delay in filing of power purchase true-up filings by TSDISCOMs.

1.12.10 The Commission has carried out the final true-up of power purchase cost from FY 2016-17 to FY 2021-22 and provisional true-up for FY 2022-23 considering the additional information submitted by the Licensees regarding the actual sales and power purchase cost for the respective years as detailed in Chapter-5.

1.13 ACKNOWLEDGEMENT

- 1.13.1 The Commission places on record its profound appreciation for individuals, stakeholders and various consumer organizations for their valued objections/ suggestions made both in writing as well as oral submissions during the Public Hearings on the filings of TSDISCOMs. The Commission has noted the spirit and essence of the objections/suggestions and attempted earnestly to respond to the issues being appropriate to the determination of the ARR, Retail Supply Tariffs and CSS for FY 2023-24 and in finalizing the Power Purchase True up/ True-down petitions for the period from FY 2016-17 to FY 2021-22 and for provisional true-up for FY 2022-23.



Chapter-2 Summary of Filings

2.1 SUMMARY OF FILINGS

2.1.1 The salient features of the filings of TSDISCOMs for projecting the various components of ARR, FPT and CSS for FY 2023-24 and Power Purchase True-up/True-down petitions for the period from FY 2016-17 to FY 2021-22 and for FY 2022-23 (provisional) are summarised as below.

2.2 SALE OF ENERGY AND LOSS

2.2.1 TSDISCOMs sale of energy and loss projections for FY 2023-24

Table 2.1: Sale of Energy and losses claimed by TSDISCOMs for FY 2023-24

Particulars	TSSPDCL		TSNPDCL		TOTAL	
	MU	%	MU	%	MU	%
Metered sales	41762	73.48%	13975	60.26%	55737	69.65%
LT-V Agricultural sales	10591	18.64%	7290	31.43%	17881	22.34%
Total sales	52353	92.12%	21265	91.69%	73618	91.99%
Add: Distribution losses (including EHT sales)	4478	7.88%	1927	8.31%	6405	8.00%
Energy Required at TSDISCOM level	56831	100%	23193	100%	80024	100.00%
Distribution losses (excluding EHT sales)	4478	9.63%	1927	10.62%	6405	9.90%

2.2.2 It is expected to reduce the losses further with the implementation of the following measures:

- i) Reduction of both technical and commercial losses by vigorously conducting energy audits for all the 11 kV feeders on regular basis.
- ii) Bifurcation of overloaded 11 kV and 33 kV feeders.
- iii) 11 kV AB cables are proposed wherever there is difficulty in maintain minimum clearance from overhead lines in cities and towns.
- iv) LT AB cable is proposed in theft prone areas by selecting high loss divisions to reduce commercial losses.
- v) Monitoring and improving the power factors of 33 kV feeders.
- vi) Installation and commissioning of 2 MVAR capacitor banks at 33/11 kV substations and 600 kVAR line capacitor banks for reactive power compensation in the network.
- vii) Providing enhancement and additional DTRs.
- viii) Renovation of DTR earthing and load balancing of DTRs.
- ix) Replacement and refurbishment of 33 kV, LV & 11 kV worn out breakers.
- x) Replacement of defective & providing new AB switches.

2.3 SALES PROJECTIONS

2.3.1 The licensees have adopted the historical growth trend method and end-user method for projecting the category-wise sales for FY 2023-24. End-user method has been used for projecting the sales in certain categories viz., HT-I Industry, HT-IV Irrigation, Agriculture & CPWS HT-V Traction, because of high dependence of demand on the end-use and to take into consideration the new initiatives which have significant impact on the sales projections. The consumer category-wise sales projected by TSDISCOMs are as shown in Table below:

Table 2.2: Category-wise sales claimed by TSDISCOMs for FY 2023-24
MU

Category		FY 2023-24		
		TSSPDCL	TSNPDCL	Total
LT Category		26286.17	13172.59	39458.76
LT-I	Domestic	10547.46	4234.41	14781.87
LT-II	Non-Domestic/Commercial	3484.80	959.21	4444.01
LT-III	Industry	980.06	243.16	1223.22
LT-IV	Cottage Industries	10.04	8.94	18.98
LT-V	Agricultural	10590.92	7290.39	17881.31
LT-VI	Street Lighting & PWS Schemes	479.59	370.27	849.86
LT-VII	General Purpose	91.16	56.88	148.04
LT-VIII	Temporary Supply	100.49	8.07	108.56
LT-IX	Electric Vehicle Charging Stations	1.64	1.25	2.89
HT Category		26066.70	8092.77	34159.47
HT Category at 11 kV		7314.18	2482.43	9796.61
HT-I	Industry (General)	4601.71	1133.86	5735.57
HT-I(B)	Ferro Alloys	0.41	-	0.41
HT-II	Others	2136.24	182.88	2319.12
HT-III	Airports, Railway Stations and Bus Stations	4.77	7.77	12.54
HT-IV(A)	Irrigation and Agriculture	41.09	23.15	64.24
HT-IV(B)	CPWS Schemes	155.21	159.65	314.86
HT-VI	Townships and Residential Colonies	197.64	8.62	206.26
HT-VII	Temporary Supply	170.56	25.34	195.9
HT-VIII	RESCOs	-	941.17	941.17
HT-IX	Electric Vehicle Charging Stations	6.55	-	6.55
HT Category at 33 kV		8449.08	558.62	9007.70
HT-I	Industry (General)	6684.93	146.65	6831.58
HT-I(B)	Ferro Alloys	55.96	0.04	56
HT-II	Others	1228.76	7.06	1235.82
HT-IV(A)	Irrigation and Agriculture	15.48	15.12	30.6
HT-IV(B)	CPWS Schemes	277.08	359.90	636.98
HT-VI	Townships and Residential Colonies	143.78	26.54	170.32
HT-VII	Temporary Supply	43.08	3.32	46.4
HT Category at 132 kV and above		10303.44	5051.73	15355.17
HT-I	Industry (General)	5214.14	651.85	5865.99
HT-I(B)	Ferro Alloys	234.14	-	234.14
HT-II	Others	51.64	5.64	57.28
HT-III	Airports, Railway stations and Bus stations	58.53	-	58.53
HT-IV(A)	Irrigation and Agriculture	3786.40	3712.74	7499.14
HT-IV(B)	CPWS Schemes	282.28	27.31	309.59
HT-V(A)	Railway Traction	676.31	547.58	1223.89
HT-V(B)	HMR	-	-	0

Category		FY 2023-24		
		TSSPDCL	TSNPDCCL	Total
HT-VI	Townships and Residential Colonies	-	105.37	105.37
HT-VII	Temporary Supply	-	1.24	1.24
Total		52352.87	21265.36	73618.23

2.3.2 Key Demand Drivers: Some of the key drivers for the increase in demand are highlighted below:

- **Lift Irrigation (LI) Schemes:** The Government of Telangana has initiated the ambitious Kaleshwaram Lift Irrigation project along with the existing ones, to meet the needs of the agriculture consumers in the State. The growth trend in this category has many variations due to variations in the operation of Lift Irrigation pumps based on rainfall, water levels in reservoirs, etc. The licensees have considered the expected additional loads and energy requirement based on the information received from the I&CAD, which was further analysed and moderated considering the historical consumption along with other allied factors.
- **24x7 Supply to Agriculture Consumers:** Telangana is the pioneer State in India to have announced 24x7 power supply to all agricultural consumers in the State from 1st January, 2018. The licensees are of the view that keeping in view the additional loads to be added through Lift Irrigation Schemes in FY 2023-24, it is expected that the agricultural consumption would not further increase given the fall in use of borewells and a rise in canal-based cultivation.

2.4 POWER PURCHASE REQUIREMENT

2.4.1 The power purchase requirement projected for FY 2023-24 is as shown in the Table below:

Table 2.3: Power purchase requirement projected by TSDISCOMs for FY 2023-24

Particulars	Units	TSSPDCL	TSNPDCCL	Total
Energy Sales	MU	52352.87	21265.36	73618.23
Sales LT, 11 kV and 33 kV	MU	42049.43	16213.63	58263.06
EHT Sales	MU	10303.44	5051.73	15355.17
Energy losses	MU	6667.42	2827.41	9494.83
Distribution System losses	MU	4478.42	1927.25	6405.67
Transmission System losses	MU	2694.53	900.16	3089.16
Energy losses	%	11.30%	11.74%	11.520%
Distribution System losses	%	9.63%	10.62%	10.125%
Transmission System losses	%	3.71%	3.74%	3.725%
Input to Distribution System	MU	46527.85	18140.88	64668.73
Power Purchase Requirement	MU	59020.29	24092.77	83113.06

2.5 ENERGY AVAILABILITY

2.5.1 The energy availability projected for FY 2023-24 is as shown in the Table below:

Table 2.4: Energy availability projected by TSDISCOMs for FY 2023-24

Sl. No.	Source	TSSPDCL	TSNPDCCL	Total
1	TSGenco-Thermal	21005.51	8768.42	26277.93
2	TSGenco-Hydel	3819.87	1594.54	5414.41

Sl. No.	Source	TSSPDCL	TSNPDCL	Total
3	CGS	19056.40	7954.80	27011.20
4	NCE	8006.78	3952.50	1959.28
5	Others	15799.69	6595.33	22395.03
Total		67688.25	28865.61	96553.85

2.5.2 Out of the total energy availability projected for FY 2023-24, TSDISCOM-wise share from all the sources except NCE sources within the State has been considered as 70.55% and 29.45% for TSSPDCL and TSNPDCL respectively.

2.6 POWER PURCHASE COST

2.6.1 The power purchase cost projected by TSDISCOMs for FY 2023-24 is as shown in the Tables below:

Table 2.5: Power Purchase Cost as claimed by TSDISCOMs for FY 2023-24

Source	Quantum	Fixed Cost	Variable Cost	Other Cost	Total
	MU	Rs.in crore	Rs.in crore	Rs.in crore	Rs.in crore
TSSPDCL					
TSGenco	24505.65	4933.71	5462.82	0.00	10396.53
CGS	16282.42	2811.70	4350.41	0.00	7162.11
IPPs	1869.99	1024.81	489.70	42.67	1557.17
NCE	8006.78		3574.00	0.00	3574.00
Others	7445.29	2280.29	1416.61	1.10	3698.00
Market	910.16	972.86	294.32	0.00	1267.18
Total	59020.29	12023.37	15587.85	43.76	27654.99
TSNPDCL					
TSGenco	10229.50	2059.50	2280.37	0.00	4339.87
CGS	6796.85	1173.70	1816.01	0.00	2989.71
IPPs	780.60	427.79	204.42	17.81	650.02
NCE	3952.50		1613.70	0.00	1613.70
Others	3107.92	951.87	591.34	0.46	1543.67
Market	-774.60	406.11	-232.86	0.00	173.24
Total	24092.77	5018.97	6272.98	18.27	11310.21
TSDISCOMs					
TSGenco	34735.15	6993.21	7743.19	0.00	14736.40
CGS	23079.27	3985.40	6166.42	0.00	10151.82
IPPs	2650.59	1452.60	694.12	60.48	2207.19
NCE	11959.28	0.00	5187.70	0.00	5187.70
Others	10553.21	3232.16	2007.95	1.56	5241.67
Market	135.56	1378.97	61.46	0.00	1440.42
Total	83113.06	17042.34	21860.83	62.03	38965.20

2.7 OTHER COMPONENTS OF AGGREGATE REVENUE REQUIREMENT (ARR)

2.7.1 **Distribution cost:** The distribution cost of the respective TSDISCOM for FY 2023 24 has been considered as per the Distribution ARR and Wheeling Tariff Order dated 29.04.2020 read with its Amendment Order dated 01.03.2021 for MYT of 4th control period from FY 2019-20 to FY 2023-24.

- 2.7.2 **Intra State Transmission (InSTS) charges:** The InSTS charges for FY 2023-24 have been considered the same as approved in the Transmission Tariff Order dated 20.03.2020 for TSTransco for MYT of 4th control period from FY 2019-20 to FY 2023-24.
- 2.7.3 **Inter State Transmission (ISTS) charges:** The ISTS charges for FY 2023-24 have been projected based on the average rates for the months of Jan'22 to Oct'22 as available in the SRPC website along with the projected capacities for CGS stations, Sembcorp Energy India Limited (Units I & II) and CSPDCL has formed the basis for calculating PGCIL (POC) charges, STOA charges based on projections for procuring power from power exchanges and SRLDC Charges & fee, have been considered.
- 2.7.4 **State Load Despatch Centre (SLDC) charges:** The SLDC charges for FY 2023-24 have been considered the same as approved in the SLDC Annual Fee and Operating Charges Tariff Order dated 02.03.2020 for MYT of 4th control period from FY 2019-20 to FY 2023-24.
- 2.7.5 **Interest on Consumer Security Deposit (CSD):** The interest on CSD has been projected based on the CSD projections for FY 2023-24 and the Bank Rate of Reserve Bank of India of 4.25%.
- 2.7.6 **Supply Margin:** The supply margin has been projected considering the approved norm of 2% of equity component of approved Regulated Rate Base (RRB) for FY 2023-24.

2.8 AGGREGATE REVENUE REQUIREMENT (ARR)

- 2.8.1 Based on the above, the ARR claimed by TSDISCOMs for FY 2023-24 is as shown in the Table below:

Table 2.6: ARR claimed by TSDISCOMs for FY 2023-24

Rs.in crore

Particulars	FY 2023-24		
	TSSPDCL	TSNPDCL	Total
Power purchase cost	27654.99	11310.21	38965.20
Distribution cost	5168.36	4081.42	9249.78
InSTS charges	2670.27	1126.29	3796.56
ISTS charges (including PGCIL PoC, Non PoC, SRLDC charges)	1081.98	451.19	1533.17
SLDC charges	32.81	13.69	46.50
Interest on Consumer Security Deposit (CSD)	311.96	81.08	393.04
Supply Margin in Retail Supply Business	42.83	31.27	74.10
Aggregate Revenue Requirement	36963.20	17095.16	54058.36

Particulars	FY 2023-24		
	TSSPDCL	TSNPDCL	Total
Revenue from CSS and AS	203.03	0.00	203.03
Revenue at Current Tariffs	33521.34	9737.70	43259.04
Non-Tariff Income	28.18	33.81	61.99
Net Regulatory Gap	3210.64	7323.65	10534.29

2.9 COST OF SERVICE (CoS)

2.9.1 The TSDISCOMs have computed the CoS based on embedded cost methodology. The CoS claimed by TSDISCOMs for FY 2023-24 is as shown in the Table below:

Table 2.7: CoS in Rs./kWh claimed by TSDISCOMs for FY 2023-24

Consumer Category		FY 2023-24	
		TSSPDCL	TSNPDCL
LT Categories			
LT-I	Domestic	8.29	9.44
LT-II	Non-Domestic/Commercial	8.39	9.25
LT-III	Industry	8.55	8.39
LT-IV	Cottage Industries	8.49	10.26
LT-V	Agricultural	8.47	9.93
LT-VI	Street Lighting & PWS	8.08	10.04
LT-VII	General Purpose	9.23	9.45
LT-VIII	Temporary Supply	9.23	9.45
LT-IX	Electric Vehicle Charging station	10.63	6.48
HT Categories			
HT-I	Industry		
	11 kV	6.59	5.89
	33 kV	5.69	5.58
	132 kV and above	5.02	4.85
HT-I(B)	Ferro Alloys		
	11 kV	7.28	
	33 kV	5.25	39.01
	132 kV and above	5.01	
HT-II	Others		
	11 kV	6.29	5.98
	33 kV	5.65	6.08
	132 kV and above	5.66	7.81
HT-III	Airports, Railway stations and Bus stations		
	11 kV	6.28	5.80
	33 kV		
	132 kV and above	4.93	
HT-IV(A&B)	Irrigation, Agriculture & CPWS		
	11 kV	6.32	6.11
	33 kV	6.00	5.27
	132 kV and above	5.36	5.25
HT-V(A)	Railway Traction (at 132 kV)	5.50	5.31
HT-V(B)	HMR (at 132 kV)	5.48	
HT-VI	Townships and Residential Colonies		
	11 kV	6.29	6.50
	33 kV	6.20	5.98
	132 kV and above		4.87
HT-VII	Temporary Supply		
	11 kV	6.68	6.10
	33 kV	5.66	8.04
	132 kV and above		

Consumer Category		FY 2023-24	
		TSSPDCL	TSNPDCL
HT-VIII	RESCOs (at 11 kV)		5.10
HT-IX	Electric Vehicle Charging station (at all voltage levels)	6.68	6.10
Total		7.06	8.04

2.10 REVENUE DEFICIT/(SURPLUS) AT CURRENT TARIFFS

2.10.1 The revenue deficit/(surplus) at current tariffs claimed by TSDISCOMs is as shown in the Table below:

Table 2.8: Revenue deficit/(surplus) at current tariffs claimed by TSDISCOMs

Rs.in crore

Particulars	FY 2023-24		
	TSSPDCL	TSNPDCCL	Total
Aggregate Revenue Requirement	36963.20	17095.16	54058.36
Revenue from Current Tariffs (net of Incentive)	33521.34	9737.70	43259.04
Non-Tariff Income	28.18	33.81	61.99
Revenue from Cross Subsidy Surcharge	100.80	-	100.80
Revenue from Additional Surcharge	102.23	-	102.23
Revenue (-)Deficit/Surplus at Current Tariffs	(-)3210.64	(-)7323.65	(-)10534.29

2.11 PROPOSED TARIFFS FOR FY 2023-24

2.11.1 The TSDISCOMs proposed for retaining the retail supply tariffs of FY 2022-23 for the FY 2023-24 with the following few modifications:

- LT & HT Wholly Religious places:** TSDISCOMs propose to revise the tariff for LT-VII(B) Wholly Religious Places.
- HT Wholly Religious Places:** TSDISCOMs propose to introduce a separate category for all the service connections falling under HT Wholly Religious Places which are currently being billed under category HT-II Others with the following applicability:

Table 2.9: Summary of existing and proposed modification in retail supply tariff by TSDISCOMs

Consumer Category/ Sub-Category/ Slab Structure (units)	Fixed/ Demand Charge unit	Existing Tariff		Proposed Tariff	
		Fixed/ Demand Charge (Rs./month)	Energy Charge (Rs./kWh or kVAh)	Fixed/ Demand Charge (Rs./month)	Energy Charge (Rs./kWh or kVAh)
LT-VII(B): Wholly Religious Places					
Load upto 2 Kw	kW	21	6.40	30	5.00
Load above 2 kW	kW	21	7.00	30	5.00
HT Wholly Religious Places for all Voltages (New Category)					
HT Wholly Religious Places	kVA	-	-	30	5.00

2.12 OTHER TARIFF PROPOSALS

2.12.1 **Green Tariff for all Tariff Categories:** TSDISCOMs proposed to extend the benefits of green tariff to all categories of consumers for both HT & LT categories who opt for it.

2.12.2 **Parallel Operation Charges/Grid Support Charges:** TSDISCOMs proposed to levy Grid Support Charges for FY 2023-24 on all the generators (captive generating plants, cogeneration plants, third party generation units, merchant power generation units, rooftop power plants, etc.,) who are not having PPA/having PPA for partial capacity with TSDISCOMs as follows:

$$\text{Grid Support Charges} = \text{Total Installed Capacity} \times \text{Rate of GSC}$$

Rate of GSC (Rs./kW/month):

- i) The parallel operation/grid support charges are to be applied to the total installed capacity of the generators connected to the Grid.
- ii) Conventional generators shall pay Rs.50/kW/month.
- iii) Renewable Energy plants including Waste Heat Recovery (WHR) plants, the plants based on municipal solid waste and the co-gen plants shall pay Rs.25/kW/month.
- iv) Rooftop solar plants under net metering/gross metering policy shall pay Rs.15/kW/month.
- v) Co-gen sugar mills shall pay charges of Rs.25/kW/month, for a period of four (4) months or actual operation period whichever is higher.
- vi) These charges shall not be applicable when the plants are under shutdown for any reason and when such shutdown period exceeds two (2) months.
- vii) To the extent of PPA capacities of the generators with TSDISCOMs shall be exempted from payment of these charges.

2.12.3 TSDISCOMs proposed to include Transformer repairing centres under Commercial activity i.e., LT-II or HT-II as applicable for respective voltage levels.

2.12.4 TSDISCOMs proposed to categorize all Mission Bhagiratha services under LT-VI(B) or HT-IV(B) as applicable for respective voltage levels.

2.13 CROSS SUBSIDY SURCHARGE (CSS)

2.13.1 The CSS proposed by TSDISCOMs for FY 2023-24 is as shown in the Table below:

Table 2.10: CSS in Rs./unit proposed by TSDISCOMs for FY 2023-24

Consumer Category		TSSPDCL	TSNPDCL
HT Category at 11 kV			
HT-I	Industry	1.92	0.16
HT-II	Others	2.25	2.27
HT-III	Airports, Railway stations and Bus stations	2.07	0.82
HT-IV	Irrigation, Agriculture & CPWS	1.09	1.81
HT-VI	Townships and Residential Colonies	1.56	-
HT-VII	Temporary Supply	3.00	3.00
HT Category at 33 kV			

Consumer Category		TSSPDCL	TSNPDCCL
HT-I	Industry	1.72	1.85
HT-IB	Ferro Alloys	1.59	-
HT-II	Others	1.94	2.50
HT-IV	Irrigation, Agriculture & CPWS	2.21	2.70
HT-VI	Townships and Residential Colonies	1.68	1.79
HT-VII	Temporary Supply	2.68	4.68
HT Category at 132 kV and above			
HT-I	Industry	1.55	1.73
HT-IB	Ferro Alloys	1.60	-
HT-II	Others	1.92	4.44
HT-III	Airports, Railway stations and Bus stations	1.72	-
HT-IV	Irrigation, Agriculture & CPWS	1.39	1.46
HT-V	Railway Traction/HMR	1.26	1.29
HT-VI	Townships and Residential Colonies	-	1.60

Table 2.11: Revenue Deficit/Surplus at proposed tariffs

Rs.in crore

Particulars	TSSPDCL	TSNPDCCL	Total
Revenue Deficit/(Surplus) at current tariffs	3210.64	7323.65	10534.30
Revenue charged to proposed tariff (including Cross Subsidy Surcharge & Additional Surcharge)	-	-	-
Net Deficit/(Surplus)	3210.64	7323.65	10534.30

2.14 POWER PURCHASE TRUE-UP/TRUE-DOWNS FOR FY 2016-17 TO FY 2022-23

2.14.1 TSDISCOMs have filed Power Purchase True-up/True-down petitions for FY 2016-17 to FY 2021-22 and for FY 2022-23 (provisional) on 16.12.2022 in accordance with Clause 12.5 of Regulation No.1 of 2014 r/w its first amendment notified on 07.03.2014 with net True-up claim of Rs.12015.46 crore as detailed below:

Table 2.12: Power Purchase True-ups/True-downs as claimed by TSDISCOMs

Rs.in crore

Financial Year	Claimed	Approved in Tariff Order	Difference	Addl. Support provided by GoTS	Loss funding provided by GoTS	Net True-up/ True-down
TSSPDCL						
2016-17 (*)	17270.72	16650.11	(620.61+967.55) 1588.25	1583.83	235.01	-230.59
2017-18	17735.00	16798.90	936.04	908.79	392.48	-365.23
2018-19	21398.16	17599.11	3799.05	1680.00	1241.82	877.23
2019-20 #	21501.34	17601.01	3900.32	1400.00	2470.12	30.20
2020-21 #	21510.51	18279.71	3230.80	0.00	2124.00	1106.80
2021-22 #	25033.00	18661.00	6372.00	0.00	0.00	6372.00
2022-23 (provisional)	25890.00	24618.60	1270.39	0.00	0.00	1270.39
Total	150338.70	130208.40	21096.85	5572.62	6463.43	9060.80
TSNPDCCL						
2016-17 (*)	7045.90	6201.39	(845.52-129.09) 715.43	678.79	75.42	-38.78

Financial Year	Claimed	Approved in Tariff Order	Difference	Addl. Support provided by GoTS	Loss funding provided by GoTS	Net True-up/ True-down
TSSPDCL						
2017-18	7797.00	7124.00	672.26	389.48	156.05	126.73
2018-19	9457.00	8240.00	1216.55	720.00	762.86	-266.31
2019-20 #	9994.00	8240.00	1752.02	600.00	558.15	593.87
2020-21 #	10194.00	8484.00	1710.43	0.00	1220.18	490.25
2021-22 #	11061.00	8643.00	2418.00	0.00	0.00	2418.00
2022-23 (provisional)	10147.00	10516.00	-369.10	0.00	0.00	-369.10
Total	65695.90	57448.39	8115.59	2388.27	2772.66	2954.66
TSDISCOMs						
2016-17	24316.62	22851.50	2303.68	2262.62	310.43	-269.37
2017-18	25532.00	23922.90	1608.30	1298.27	548.53	-238.50
2018-19	30855.16	25839.11	5015.60	2400.00	2004.68	610.92
2019-20 #	31495.34	25841.01	5652.34	2000.00	3028.27	624.07
2020-21 #	31704.51	26763.71	4941.23	0.00	3344.18	1597.05
2021-22 #	36094.00	27304.00	8790.00	0.00	0.00	8790.00
2022-23 (provisional)	36037.00	35134.60	901.29	0.00	0.00	901.29
Total	216034.60	187656.80	29212.44	7960.89	9236.09	12015.46

**' The Commission in RST Order for FY 2017-18 has approved a provisional true-down of Rs.967.55 crore for TSSPDCL and true-up of Rs.129.09 crore for TSNPDCL.

#' By considering ARR for FY 2019-20, FY 2020-21 and FY 2021-22 to be same as that approved for FY 2018-19.

2.15 TREATMENT OF TRUE-UPS/TRUE-DOWNS

- 2.15.1 The TSDISCOMs have proposed to recover the Net Power Purchase True-up amount from the consumers in the form of additional ARR in the ensuing Tariff Order.

Chapter-3

Issues Raised by Stakeholders, Responses of Petitioner and Commission's Views

3.1 OBJECTIONS/SUGGESTIONS ON FILINGS

3.1.1 Sixty-one (61) stakeholders have filed objections/suggestions on the filings of TSDISCOMs for determination of ARR and retail supply tariffs for FY 2023-24 and for the Power Purchase True-up/True-down petitions for the period from FY 2016-17 to FY 2021-22 and for provisional True-up/True-down petition for FY 2022-23. The TSDISCOMs have filed the replies on the objections/suggestions received from the stakeholders. For the sake of clarity, the objections/suggestions raised by the stakeholders and responses of TSDISCOMs have been consolidated and summarized issue-wise. The Commission has concluded all the objections/suggestions of the stakeholders and the responses to them by TSDISCOMs.

3.2 SALES PROJECTION

Stakeholders' Submissions

3.2.1 In the instant petitions the petitioners have escalated sales quantum for HT-IV(A) Irrigation and Agriculture at 132 kV for FY 2023-24 by 108%-298% against the estimated values of FY 2022-23. The growth trend in this category has many variations due to variations in the operation of Lift Irrigation Scheme (LIS) pumps based on rainfall, water levels in reservoirs, etc. The sales in H1 of FY 2022-23 recorded a negative growth rate due to heavy rains in monsoon period. Further, due to heavy floods in August month the LIS pumps are not operated in H1 of FY 2022-23.

3.2.2 The project status of Kaleshwaram lift irrigation project is uncertain and that the high projections made by TSDISCOMs for Lift Irrigation category are highly optimistic. This can be inferred from several articles in LiveLaw and Hindustan Times that there is uncertainty regarding the fate of the Kaleshwaram LI project.

3.2.3 After 2023-24, demand for power from LIS may not show increase at abnormal level like 144% for the next financial year as TSDISCOMs have pointed out, due to uncontrollable factors like rainfall, water levels in reservoirs, floods, etc., variations in operations of LI pumps, leading to considerable reduction in need

for consumption of power like the negative growth rate recorded in the first half of 2022-23.

TSDISCOMs Replies

- 3.2.4 For HT LIS projections taking past sales as a reference could cause under projection of LIS sales. Hence, TSDISCOMs view that taking current LIS loads and additional LIS load at relevant load factors, could be a better approach for predicting HT LIS sales. TSDISCOMs have considered the HT LIS sales as per the inputs provided by the LIS I&CAD department.
- 3.2.5 LIS sales are projected by considering the current pumping stations loads on Krishna and Godavari rivers and upcoming additional loads. These loads are further considered to be operating only at a 60% load factor by I&CAD department. However, TSDISCOMs, based on their analysis and historical experience have only considered half (50%) of the projections given by I&CAD department for HT 132 kV LIS category.
- 3.2.6 Hence, the objector's computation of requirement by considering lesser LIS sales is not correct.

Commission's View

- 3.2.7 The Commission taking into consideration the actual sales recorded in the previous years and the anticipated load growth by using end-user methodology approved the sale projections of HT-IV(A) at 11 kV and 33 kV based on projected contracted demand while for HT-IV(A) at 132 kV level, the Commission has considered the actual contracted demand as on 30.09.2022 for TSSPDCL and as on 30.11.2022 for TSNPDCL for FY 2023-24. The approach of the Commission in approving the sales for FY 2023-24 is detailed in Chapter-4 of this Order.

3.3 LOSSES

Stakeholders' Submissions

- 3.3.1 Details of energy consumption in Hyderabad South, collection percentage, reasons for low billing/collections and steps taken to improve billing and collection efficiency may be provided.
- 3.3.2 The TSDISCOMs have shown increase in distribution costs as approved in the MYT for 4th control period. TSNPDCL has shown revised estimation of

distribution losses, including EHT sales, of 9.50% against 8.6% approved for FY 2022-23, while TSSPDCL has shown the estimate for the same year as 8.44%. There is a need for review the situation and take appropriate decisions on the percentage of reduction in distribution losses to be achieved by TSDISCOMs.

TSDISCOMs Replies

- 3.3.3 The details of electricity consumption for FY 2021-22 in Hyderabad South Operation circle is as given below:

Table 3.1: Electricity consumption in Hyderabad South Operation circle for FY 2021-22

Particulars	Units	FY 2021-22
Consumption	MU	1241.50
Demand	Rs. in crore	846.25
Collection	Rs. in crore	846.35
Collection %	%	100.01%

- 3.3.4 TSDISCOMs would like to clarify that the Distribution losses for FY 2022-23, have been computed based on the voltage-wise distribution loss targets prescribed by the Commission in its Wheeling Tariff Order for 4th control period.

Commission's View

- 3.3.5 The Commission has considered distribution and transmission losses for FY 2023-24 as approved in MYT Orders issued for wheeling business for TSDISCOMs and transmission business for TSTRANSCO. With regard to the higher distribution losses in certain areas, **the Commission directs TSDISCOMs to take strict measures to reduce the distribution losses and submit the quarterly report on the measures taken. The TSDISCOMs are also directed to ensure timely availability of quarter-wise energy audit reports in public domain.**

3.4 ENERGY AVAILABILITY

Stakeholders' Submissions

- 3.4.1 Apart from the huge revenue gap, TSDISCOMs have shown availability of net surplus power to the tune of 13441 MU for FY 2023-24, after inter-DISCOM transfer of power, against the projected requirement of 83113 MU.
- 3.4.2 Unrealistic determination/estimation of surplus power, gives false impression that need for tariff hike or subsidy from the GoTS, or both, is avoided

proportionately by reducing the estimated revenue on sale of surplus power from the revenue requirement of TSDISCOMs for the concerned financial year, at the time of finalising and issuing RSTO, but, in practice, it will crop up in the form of revenue gap and true-up claims for the same financial year later. If non-realisation of the estimated revenue from sale of surplus power by TSDISCOMs is treated as “uncontrollable” and allowed to be imposed on the consumers under true-up, there will be no accountability and responsibility on the part of those who failed to sell the same.

- 3.4.3 Against the determined average cost of power purchase per unit for FY 2022-23 of Rs.4.49, selling surplus power @ Rs.3.20 per unit results in a loss of Rs.1.29 per unit or Rs.652.71 crore on sale of 5059.81 MU. Since surplus power is with higher variable costs, the loss on account of selling it @ Rs.3.20 per unit will be much more. For the year 2022-23, TSSPDCL has shown sale of surplus energy of 1181 MU at a variable cost of Rs.805 crore, while TSNPDCL has shown sale of surplus energy of 493 MU at a variable cost of Rs.336 crore. For FY 2023-24, TSDISCOMs have not proposed any sale of surplus power; they have submitted that they have "*not considered any sale of surplus power, as the cost of such additional purchase is expected to be higher than the revenue from sale of surplus power.*"
- 3.4.4 The annual retail supply tariff orders wherein availability and requirement of power for different categories of consumers during the financial year are being estimated after considering the projections made by TSDISCOMs. Due to fluctuations in availability and demand, when demand exceeds availability, TSDISCOMs resort to purchase of additional power from the exchanges and market to the extent required.
- 3.4.5 In the name of ensuring uninterrupted supply of power, consumers cannot be burdened with unjust and unwarranted burden due to additional purchases. Average variable cost per unit for short-term purchases during FY2022-23 is shown as Rs.7.07/unit. There is no clarity on the quantum of thermal power backed down during FY 2022-23, fixed costs paid therefor, tariffs at which TSDISCOMs have purchased power under short-term arrangement, month-wise and source-wise per unit, revenue accrued, including fixed charges, on sale of surplus power by TSDISCOMs per unit.

- 3.4.6 Despite projecting availability of power to the tune of 96554 MU, with a surplus of 13441 MU, TSDISCOMs have proposed to purchase 136 MU with a total variable cost of Rs.61 crore under short-term for FY 2023-24. The average variable cost per unit of short-term purchases is shown as Rs.4.53/unit. The TSDISCOMs have not shown month-wise surplus/deficit for FY 2023-24 and need for purchasing this additional power on short-term basis.
- 3.4.7 Sale of surplus power ought to be made at an optimal price as per market conditions in order to earn revenue and/or reduce the Power Purchase. TSDISCOMs have sold the surplus power at a price lower than the IEX average MCP for such particular year.
- 3.4.8 The surplus power to be sold and the likely revenue that would accrue on account of such sale to TSDISCOMs should not be allowed for the purpose of determining revenue requirement and revenue gap of TSDISCOMs.
- 3.4.9 The TSDISCOMs in their petitions have shown that availability has increased from 79222 MU in 2022-23 to 96554 MU in 2023-24 which is 21.88% increase. The requirement has increased from 74076 MU in 2022-23 to 83113 MU for FY 2023-24 which is 12.20% increase. This disparity between requirement and availability of energy confirms that 'load generation balance' worked out by TSDISCOMs has gone haywire, resulting in huge imbalance. For FY 2022-23, against the projected surplus of 3066 MU, the revised surplus increased to 5146 MU.
- 3.4.10 The TSDISCOMs have considered additional availabilities for FY 2023-24 as given below:
- YTPS (2x800 MW) – CODs of 1st unit on 1.12.2023 and of 2nd unit on 01.02.2024 are expected.
 - Telangana STPP (2x680 MW) – CODs of 1st unit on 01.01.2023 and 2nd unit on 01.07.2023 are expected.
 - Balance capacity of 396 MW in NTPC CPSU scheme Phase II Tranche 1&2 against capacity of 1692 MW is considered from October, 2022.
 - NTPC CPSU Phase-II, Tranche-II – 735 MW – COD is expected on 01.04.2023 SECI 1000 MW COD is expected on 01.04.2023.
- 3.4.11 When the Commission has accorded consent to PPAs for procurement of 1692 MW of solar power through NTPC in its order dated 22.06.2022, procurement of 2545 MW of solar power through NTPC, NHPC and SECI in its

order dated 26.10.2022, it must have considered the outcome of substantial increase in availability of surplus power as it would be emerging during FY 2023-24 and thereafter justifying the proposed procurement of 4237 MW of solar power. The projected deficit of 404 MU for 2023-24 in 'load generation balance' submitted by TSDISCOMs has turned out to be absolutely unrealistic, with the projected availability of surplus 13441 MU for the same financial year. While considering need for additional power and entering into PPAs and giving consents to the same, mechanical reliance on the load forecast and procurement plan considered or approved leads to unwarranted consequences with resultant problems, both technical and financial. There is a need for periodical review and appropriate modification of load forecasts and procurement plans based on experience and the existing ground reality, before considering and approving additional power procurement through long-term PPAs.

TSDISCOMs Replies

- 3.4.12 Merit Order is being followed for scheduling of power daily on day-ahead basis. The availability of surplus power (as shown in the ARR) is not constant. It is annual consolidated figure, considering energy from all sources. Depending on the load dynamics, there appears surplus power in certain time blocks in a day. Also, there is deficit in certain other time blocks in a day. As such, TSDISCOMs are bound to purchase power from open market during power deficit time blocks to cope up with the demand and opt for sale of power during surplus times.
- 3.4.13 Any surplus power available in any 15 minutes time Block will be traded in Exchange only after making a comparison whether the prevailing Exchange price is higher than the variable cost of Thermal plants. All efforts are being made to sell the surplus power through Exchanges in a most effective way so as to earn some revenue to TSDISCOMs resulting in reduction of some financial burden on TSDISCOMs and the consumers in turn.
- 3.4.14 The average power purchase cost per unit of FY2022-23 is inclusive of all the generators including must run plants such as solar, wind, nuclear etc., whereas the power sold through Power Exchanges is mainly from Thermal Plants. Further, the power was sold in certain time blocks in a day/months through Exchanges depending on market rates at that time. Hence, both the rates

cannot be compared. TSDISCOMs/TSPCC is selling the power in a most optimistic way and the average rate of power sold in Exchange for FY 2022-23 (upto January 2023) is Rs.5.70/kWh.

- 3.4.15 TSDISCOMs have considered the energy availabilities for FY 2023-24, as per the projections shared by the respective generating station and energy requirement as per the estimated sales projections, and approved loss levels.
- 3.4.16 The station-wise availability for each month received from respective stations and the Commissioning dates of new stations are considered to derive the availability of power quantum in each month and based on the sales projections, the demands for each month are derived. The difference between the requirement and availability will be considered as surplus or deficit.
- 3.4.17 Even though the licensees are in surplus for FY 2023-24, in the month the April, the requirement is exceeding the availability by 136 MU and is considered to be met with short term purchases.
- 3.4.18 TSDISCOMs have shown the month-wise energy availability, month-wise sales and voltage-wise losses, as per the prescribed RSF formats. The month-wise energy deficit/surplus can be arrived based on the abovementioned parameters.
- 3.4.19 TSDISCOMs have not estimated any sale of surplus power in FY 2023-24 due to the cost competitiveness i.e., TSDISCOMs have considered the energy dispatch in line with the energy requirement only. For showing sale of surplus power, TSDISCOMs have to purchase power at a higher rate and sell such power at a cheaper rate, which is not feasible.
- 3.4.20 Though, on a real time basis, if the market conditions are favorable, TSDISCOMs shall engage in the sale of surplus power in various time blocks, as done in the recent years. The details of quantum of surplus sale and revenue earned, from FY 2016-17 to FY 2022-23, have already been submitted, as part of the Additional information. During H1 of FY 2022-23, the state has witnessed good rainfall which eventually reduced the demand from Agriculture and LIS categories. The month-wise actual sales for each category have already been provided by TSDISCOMs and from these figures it is evident that there has been reduction in demand in first half of FY 2022-23.

- 3.4.21 Since the demand is reduced, the surplus quantum has increased. The availability of surplus power (as shown in the ARR) is not constant. The reasons for revised estimate of availability of surplus for FY 2022-23 has already been submitted. TSDISCOMs have procured only 3616 MU through short-term purchases during FY 2022-23, the objector's claim of 5159 MU is not correct.
- 3.4.22 The surplus power estimated for FY 2022-23 is 5146 MU which is including the energy sold by TSDISCOMs during H1 of FY 2022-23. There are no purchases from short-term bilaterals (like PTC, etc.) during FY 2022-23 and FY 2023-24. TSDISCOMs purchased short-term power from exchange market only during certain time-blocks when there is deficit in power requirement. The whole process of purchasing power from exchange is transparent, due to shortage of coal during H1 of FY 2022-23, the market rates were higher.
- 3.4.23 TSDISCOMs have already provided the actual month-wise short-term power purchased and the actual sale of power during H1 of FY 2022-23 through exchanges in the prescribed Retail Supply formats. TSDISCOMs submitted the information as per the prescribed filing formats by TSERC and writeups.
- 3.4.24 Everyday 15 minutes time-block scheduling of power from all the available sources is being done based on merit order and any shortage of power due to sudden outages of plants, increase in demand etc., is being purchased through Power exchanges considering the requirement in each 15 minutes time-block. Procurement of power under short-term (Power Exchanges) considering power shortages in certain time-blocks is inevitable to bridge the Day-to-Day Demand-Supply gap.
- 3.4.25 At present, Captive Coal Mine (located at Chhattisgarh) has been allotted to Marwa plant, Chhattisgarh. Thereby the tariff of plant has been reduced further and TSDISCOMs pursuing with CSPDCL to resolve the disputes in order to schedule power from Marwa plant. With regard to the POC charges, the transmission capacity booked for Chhattisgarh is being utilized/adjusted to procure power through exchange and banking facilities.
- 3.4.26 Further, TSDISCOMs filed petition against PGCIL on levy of relinquishment charges for the additional 1000 MW transmission capacity and the same is pending.

- 3.4.27 TSDISCOMs have considered the month-wise energy availabilities for FY 2023-24, as per the projections shared by the respective generating station and energy requirement as per the estimated sales projections, and loss levels. Because of the month-wise variations in the energy availability, there will be cases of surplus in few months and shortfall in few, which is an unavoidable case. The energy shortfall in certain period of the year, is expected to be procured from the short-term market.
- 3.4.28 Even though there was surplus in FY 2022-23 as per the Tariff Order for FY 2022-23, the surplus is on annual basis. TSDISCOMs have submitted a detailed analysis which indicated that even when there is surplus in annual basis, in certain months (peak months) the availability is lower than the power demand in the state leading to power deficit. TSDISCOMs cannot fully depend on short-term market to fill the deficit gap as the market rates are unpredictable. Hence, TSDISCOMs have entered into PPAs with these power plants.

Commission's View

- 3.4.29 The Commission has considered the energy availability from various approved contracted sources of power based on month-wise energy available vis-a-vis energy requirement. Further, the month-wise deficit has been allowed to be procured from short-term purchases and sale of surplus power has been considered during the surplus months.

3.5 STATE SHARE IN MACHKUND PH AND TUNGABHADRA PH

Stakeholders' Submissions

- 3.5.1 Latest position is not clear in the matter of pursuing with APGENCO/APTRANSCO for availing the share of power of Telangana in the Machkund and Tungabhadra inter-state hydel power projects.

TSDISCOMs Replies

- 3.5.2 All efforts are being made by TSDISCOMs/TSPCC for scheduling of power from the two Inter-state Hydel Plants Machkund and TB Dam. TSDISCOMs/ TSPCC requested MD, APGENCO to take necessary steps for further extension of PPA and also assured payments for scheduling of power from these Inter-State projects without linking with any other issues. In reply MD, APGENCO has informed that scheduling of power and extension of PPA will be examined only

after clearance of existing arrears. TSPCC/TSDISCOMs approached SRPC to kindly initiate the steps for scheduling of rightful share of power to Telangana from Inter-state Hydro Projects. The matter was deliberated in the 53rd meeting of Commercial Sub-Committee held on 19.10.2022 and further in the 44th Meeting of SRPC held on 5th November 2022. In the meeting it was decided that the pending payments between Telangana and AP is sub-judice in the Hon'ble High Court of Telangana. It is prudent to await the Court decision.

Commission's View

- 3.5.3 The Commission reiterates its earlier directive on the issue of actively pursuing the matter with APGenco/APTransco for availing the State share in Machkund PH and Tungabhadra PH. The rationale adopted by the Commission in projecting the energy availability for FY 2023-24 has been detailed in Chapter-4 of the Order.

3.6 POWER PURCHASE COST

Stakeholders' Submissions

- 3.6.1 The estimated availability of surplus power to the tune of 13441 MU for the FY 2023-24, if materialised, would entail its backing down and paying hefty fixed charges therefor. For working out revenue requirement and revenue gap of TSDISCOMs for the financial year concerned, fixed costs that need to be paid for backing down thermal power, which is shown as surplus power available as per applicable PLF/CUF of the plants concerned under PPAs in force, should also be taken into account.
- 3.6.2 The TSDISCOMs have to explain whether the fixed costs shown by them for the quantum of power to be generated at threshold level of PLF of the plants concerned, or for the quantum of power purchase shown in their submissions for 2023-24. While the quantum of purchase as revised for FY 2022-23 is shown as 53415 MU, fixed cost paid is shown as Rs.8895 crore by SPDCL. The same for the FY 2023-24 is shown as 59020 MU and fixed charges as Rs.12023 crore, respectively. While quantum of power purchase increased by 10.49%, the fixed cost of power purchase increased 35.17%. Similarly, TSNPDCL has shown quantum of power purchase for 2022-23 as 20662 MU and fixed costs as Rs.3702 crore. For 2023-24, it has projected the same as 24093 MU and Rs.5019 crore, respectively. While the quantum of power

purchased increased by 16.60%, the fixed cost of power purchase increased by 35.57%. Dispatch of thermal power for both TSDISCOMs from TSGenco increases from 24664 MU for FY 2022-23 to 29321 MU for FY 2023-24, and fixed cost increases from Rs.1212 crore to Rs.1671 crore, i.e., increases by 18.8% and 37.87%, respectively. Similarly, despatch from CGS stations shows increase from 16856 MU to 23279 MU, and fixed charges increase from Rs.2156 crore to Rs.3986 crore, i.e., increases of 38% and 84.88%, respectively, for the same periods. The TSDISCOMs have simply stated that they have taken “the projections as provided by the respective stations” for fixed costs. Compared to increase in quantum of power, the reasons for such abnormal increases in fixed costs are mentioned. Moreover, backing down of thermal power stations should not exceed the number of backing down orders and generation capacity as incorporated in the PPAs of the plants concerned for technical reasons or Grid code. Accordingly, after limits of backing down thermal power stations are exhausted, if surplus power is still available, the turn of NCE/RE units would come for backing down, of course, without paying fixed charges therefor as per the terms and conditions in their PPAs. If such a situation arises, The Commission may direct TSDISCOMs to back down NCE/RE units starting with units having highest tariff in the descending order.

- 3.6.3 Treating variations in power purchase costs that take place as a result of entering into PPAs indiscriminately and consents given to the same, as “uncontrollable” means taking imprudent decisions, entering into questionable PPAs and giving consents to the same as unquestionable, without any responsibility and accountability on the part of the authorities concerned at the central and state level for their questionable actions and inactions. It is nothing but treating controllable factors as "uncontrollable," leading to imposition of unjust and avoidable burdens on the consumers of power under true-up claims.
- 3.6.4 If it is to ensure due compliance with the power for all 24x7 policy of the Ministry of Power, GoI, in which state governments, including GoTS, continue to participate, in all fairness, the additional expenditure incurred by TSDISCOMs to purchase power in the market for the said purpose should be provided by the MoP, GoI, and GoTS to TSDISCOM.

- 3.6.5 Availability of power from central generating stations and fixed and variable costs increase as projected and given below:

Table 3.2: Availability of power from CGS Stations and hike in their fixed and variable costs as projected by TSDISCOMs

Particulars	Availability	Fixed costs	Variable costs
	MU	(Rs. in crore)	
FY 2022-23	18481	2156	4136
FY 2023-24	27011	3985	7162
Hike%	46.15	84.83%	73.16%

- 3.6.6 In view of projected availability of abnormal quantum of surplus power, what is the justification in considering availability from some stations, exceeding the threshold level of PLF and the basis for projecting abnormal hike in variable costs?
- 3.6.7 Similar is the case with thermal power stations of TSGENCO, with a difference in degree, as given below:

Table 3.3: Availability of power from TSGENCO Stations and hike in their fixed and variable costs as projected by TSDISCOMs

Particulars	Availability	Fixed costs	Variable costs
	MU	(Rs. in crore)	
FY 2022-23	24819	4117	1671
FY 2023-24	29774	5676	2280
Hike%	19.96%	37.88%	36.56%

- 3.6.8 The above applies to thermal stations of TSGENCO also. No reasons are given for increase in variable costs for Singareni TPP per unit from Rs.2.73 in FY 2021-22 to Rs.3.26 in FY 2022-23 and to the projected Rs.3.19 in FY 2023-24. The Commission may examine the issues and determine availability, fixed and variable costs of the CGSs and thermal stations of TSGENCO in a prudent way and in accordance with applicable terms and conditions in their respective PPAs.
- 3.6.9 Wide fluctuations in variable costs of Sembcorp Energy India Limited (formerly Thermal Power Tech) are projected as received from its two units. While variable cost per unit of SEIL-I has come down from Rs.5.13 in FY 2021-22 to Rs.2.32 in FY 2022-23 and to Rs.2.31 in FY 2023-24, the same for SEIL-II has shown higher increase from Rs.2.59 to Rs.3.06 to Rs.3.86 for the same years, respectively. The reason for considering the hike of 49.03% from FY 2021-22 to FY 2023-24 in variable cost for SEIL II is not provided.

- 3.6.10 For FY2022-23, TSDISCOMs have shown that energy dispatched would be 74075 MU against 78274 MU approved by the Commission. Though the energy dispatch is estimated to come down by 4199 MU or 5.36%, the cost of power purchase is estimated to increase from Rs.35153 crore approved by the Commission to Rs.36035 crore. It works out to an increase by Rs.882 crore or 2.51%. With decrease in dispatch of energy, the overall cost of power purchase should have come down. Though fixed cost for purchasing the power is projected to come down from Rs.14376 crore approved by the Commission to Rs.12467 crore, due to reduction in quantum of power purchased, variable cost is estimated to increase from Rs.20759 crore approved by the Commission to Rs.23413 crore. The following points, among others, need to be examined:
- 3.6.11 The TSDISCOMs have explained that variable cost is increasing due to increase in cost of coal, freight charges, royalty and levy of green cess, without giving details of when such increases have taken place and the extent of their impact on variable costs. For the fixed cost of Rs.1331 crore, TSDISCOMs could get 5443 MU instead of 3719 MU from the hydel projects of APGENCO
- 3.6.12 Though TSDISCOMs have projected market purchases to increase from 2172 MU approved by the Commission to 4481 MU, with an estimated increase in variable cost from Rs.716 crore to Rs.2948 crore, they have not given details such purchases source-wise and price-wise. Price of market purchases is estimated to increase from Rs.3.29 per unit estimated by the Commission to Rs.6.58 per unit. It is not made clear whether TSDISCOMs have obtained prior consent of the Commission to purchase additional power from the market at higher prices. The TSDISCOMs have shown miscellaneous cost of Rs.105 crore, without giving details thereof.
- 3.6.13 The TSDISCOMs have shown that the cost of power purchase would increase to Rs.41,066 crore, including distribution losses approved and transmission charges. They have not given details of the transmission charges and inter-state transmission charges to be paid to PGCIL source-wise. They have also not given details of amounts reimbursed or to be reimbursed by TSTRANSCO and PGCIL for the increase in market purchases made by TSDISCOM.

- 3.6.14 Though TSDISCOMs have maintained that the actual energy dispatched for 2022-23 would be 6% higher than previous year and is following a similar trend of the previous years, viz., 2019-20, 2020-21 and 2021-22, it is obvious that growth rate in demand for power for 2022-23 is overestimated. Though TSDISCOMs have maintained that the reduction in dispatch is due to the lower sales recorded in H1 of FY 2022-23, especially in HT-IV LI schemes category, the details of the same are not given.
- 3.6.15 The TSDISCOMs have submitted that inter-state sale of surplus power is estimated to be 1674 MU against 5060 MU approved by the Commission and the total variable cost would be Rs.1141 crore against Rs.1619 crore estimated by the Commission. While inter-state sale of surplus power is estimated to be lesser by 66.91%, the estimated revenue from variable cost is estimated to be lesser by 29.52%. Even in a situation of scarcity for power and prices of power in the market and through power exchanges tending to be very high due to artificial scarcity for domestic coal created and import and utilisation of costly imported coal forced on thermal power plants by the Modi government, that the inter-state sale of surplus power by TSDISCOMs is estimated to be lesser by 66.91% shows that most of the surplus power available has been during off-peak hours and cannot be sold in the market
- 3.6.16 Since no true-up has been conducted for TSGENCO stations after FY 2019, hence it cannot be ascertained if the actual availability of the TSGENCO stations has been up to the normative level to enable complete fixed charge recovery as approved by the TSERC.
- 3.6.17 Disallowance proposed in Fixed cost of TSGENCO thermal stations as per Objector's Assessment

Table 3.4: Disallowance proposed by Ojector in fixed cost of TSGENCO thermal stations

Particulars	Rs. in crore		
	TSSPDCL	TSNPDCL	Total
Petitioner's Claim	4,004.21	1,671.49	5,675.70
Objector Assessment	3,439.16	1,435.60	4,874.76
Disallowance Proposed	565.05	235.89	800.94

- 3.6.18 The detailed computation of Fixed cost for TSGENCO thermal station for both TSDISCOMs as per Objector's Assessment is shown below:

Table 3.5: Objectors assessment of Fixed Cost for TSGENCO thermal Stations

Rs. in crore

Station	Plant Capacity	Net Availability	Normative Availability to be Considered as per Objector	Energy Dispatch	Fixed Cost approved in Tariff Order	Fixed Cost as per Petitioner	Fixed Cost as per Objector's Assessment
	MW	%	%	MU	INR crore	INR crore	INR crore
TSGENCO Thermal							
KTPS-D	500	73.00%	80.00%	3,197.39	381.03	381.03	347.69
KTPS-VI	500	74.00%	80.00%	3,250.14	517.45	517.46	478.64
RTS-B	62.5	68.00%	80.00%	370.60	117.35	117.34	99.75
KTPP-I	500	74.00%	80.00%	2,796.89	416.04	416.03	384.84
KTPP-II	600	75.00%	80.00%	3,921.22	710.49	710.48	666.08
BTPS-unit 1	270	78.00%	80.00%	1,844.57	473.55	473.55	461.71
BTPS-unit 2	270	78.00%	80.00%	1,844.57	473.55	473.55	461.71
BTPS-unit 3	270	78.00%	80.00%	1,844.57	473.55	473.55	461.71
BTPS-unit 4	270	78.00%	80.00%	1,844.57	473.55	473.55	461.71
YTPS-I	800	79.00%	NA	1,841.18	NA	400.80	-
YTPS-II	800	79.00%	NA	905.50	NA	200.40	-
KTPS-VII	800	81.00%	80.00%	5,659.53	1,037.97	1,037.97	1,050.94
Total TSGENCO Thermal	5642.5			29,320.74	5,074.52	5,675.70	4,874.78

3.6.19 Despite clear past directives/methodology of the Commission, TSDISCOMs have sought to procure power from NTECL Vallur TPS and NLC Tamil Nadu Power Ltd. It is humbly requested that the Commission may penalise TSDISCOMs for not adhering to the directives specified.

3.6.20 It is a set principle that pension funds have to be maintained from the contributions of the management & employees and should be used appropriately to earn interest thereon.

3.6.21 It is inappropriate to load the inefficiency of erstwhile APSEB in managing funds on the end consumers in the form interest on Pension Bonds. The Commission in its TSGENCO MYT Order Dt. 22.03.2022 has also acknowledged the same i.e., additional burden of pension bonds should be funded by the Government of Telangana.

3.6.22 The Objector has computed the actual overall energy scenario for FY 2023-24:

Table 3.6: Objector's overall energy scenario for FY 2023-24

Particulars for FY 2023-24	TSSPDCL	TSNPDCL
Energy Availability (MUs)	65,750.47	28,056.71
Energy Requirement (MUs)	55,100.32	21,289.25
Surplus/deficit (MUs)	10,650.14	6,767.46

Particulars for FY 2023-24	TSSPDCL	TSNPDCL
Average of MCP for FY 22 and H1 of FY 23 (Rs/kWh)	5.17	5.17
Revenue generated by Sale of Surplus Power (Rs.crore)	5,503.19	3,496.91

The Summary of disallowances in Power Purchase Cost as per the Objector's Assessment is summarized below:

Table 3.7: Summary of disallowances in Power Purchase Cost as per the Objector's Assessment

Rs. in crore

Particulars	Disallowances in Power Purchase Cost claimed by the Petitioners as per Objector's Assessment (INR crore)		
	State	TSSPDCL	TSNPDCL
TSGENCO Thermal	-1,589.28	-1,121.22	-468.06
TSGENCO Hydel	-	-	-
CGS stations	-1,017.61	-873.45	-144.16
APGPCL	-	-	-
IPPs	-	-	-
NCEs	-	-	-
Singareni I & II	-	-	-
Thermal Power Tech	-157.08	-157.08	-
CSPGCL	-	-	-
Thermal Power Tech Unit II	-	-	-
Other Short-Term Sources	-	-	-
D-D purchase/sale	106.13	99.53	6.61
Interest on Pension Bonds	-1,378.97	-972.86	-406.11
Total PP Cost	-4,036.81	-3,025.09	-1,011.72
Sale of Surplus Power	-8,999.67	-5,502.93	-3,496.75
Net PP Cost	-13,036.48	-8,528.01	-4,508.47

3.6.23 It is observed that both Petitioners, i.e., TSSPDCL and TSNPDCL have shown significant escalation in variable charge rate as compared to approved values for the period during FY 2016-17 to FY 2018-19 and FY 2022-23.

3.6.24 The anomalies observed in this regard have been reproduced below:

Table 3.8: Summary of disallowances in Power Purchase Cost as per the Objector's Assessment

TSGENCO Generating stations	TSSPDCL			TSNPDCL		
	Variable Charge Rate (Rs/kWh)			Variable Charge Rate (Rs/kWh)		
	Approved	Claimed	Escalation %	Approved	Claimed	Escalation %
FY 2016-17						
KTPS-D	2.02	2.22	10%	2.02	2.22	10%
FY 2017-18						
KTPS-A	2.07	2.91	41%	2.08	2.92	40%
KTPS-B	2.07	2.91	41%	2.08	2.92	40%

TSGENCO Generating stations	TSSPDCL			TSNPDCL		
	Variable Charge Rate (Rs/kWh)			Variable Charge Rate (Rs/kWh)		
	Approved	Claimed	Escalation %	Approved	Claimed	Escalation %
KTPS-D	1.92	2.54	33%	1.93	2.54	32%
KTPS-VI	2.45	2.75	12%	2.45	2.75	12%
RTS-B	2.36	2.91	23%	2.38	2.95	24%
FY 2018-19						
KTPS-A	2.17	3.20	47%	2.18	3.19	46%
KTPS-B	2.17	3.20	47%	2.18	3.19	46%
KTPS-C	2.17	3.20	47%	2.18	3.19	46%
KTPS-D	2.02	2.82	39%	2.03	2.82	39%
KTPS-VI	2.57	3.13	22%	2.57	3.13	22%
RTS-B	2.48	2.94	19%	2.46	2.94	20%
KTPP-I	2.55	3.34	31%	2.56	3.35	31%
KTPP-II	2.36	2.92	24%	2.36	2.93	24%

- 3.6.25 The Commission may direct TSDISCOMs to submit proper rationale/ justification/backing for such significant escalation considered in variable charge rate.
- 3.6.26 Further the Commission may limit the variable charge rate to approved variable charge rate.
- 3.6.27 Summary of disallowance in Variable Charges:

Table 3.9: Disallowance proposed by Objector in Variable Cost
Rs. in crore

Financial Year	TSSPDCL	TSNPDCL	Total
FY 2016-17	19.79	-	19.79
FY 2017-18	325.82	159.61	485.43
FY 2018-19	925.30	385.41	1,310.71
FY 2022-23	449.09	201.49	650.58
Total	1,719.99	746.52	2,466.51

- 3.6.28 The Objector has computed the amount of Rs.3685.13 pertaining to revenue generated from D-D Sales @ MCP which is 1087.64 crore more than the Petitioner's Claim.
- 3.6.29 The Commission may consider to approve the products available in the short-term market for optimising power purchase costs through sale of surplus power and power purchase to meet the deficit requirements of TSDISCOM.
- 3.6.30 CERC has recently notified REC Regulations 2022 wherein the energy sold by RE capacity registered under REC mechanism in any conventional market (DAM/RTM/TAM) at Power Exchange shall be eligible for issuance of RECs

and in case the energy is sold in the Green Market (for fulfilment of RPO by the buyers) by such RE capacity then no such RECs will be issued against such energy sold in the Green Markets at Power Exchanges. Additionally, TSDISCOMs can seek RECs for their RE consumption in excess of the targets. Therefore, as against the earlier practice, the new regulations provide complete flexibility in so far as the fulfilment of RPO and issuance of REC is concerned.

- 3.6.31 The Commission may allow an explicit provision to TSDISCOMs for sale and purchase of RE power through conventional/greenmarket. The Commission may also allow TSDISCOMs to take benefit of the flexibility of the RE market at the power exchange for sale of surplus RE power (if any) beyond the RPO target.

TSDISCOMs Replies

- 3.6.32 The comparison of percentage change in fixed costs with the percentage change in power quantum is not correct. If the comparison is done for a single generating station, then the proportion can be justified whereas the objector has been comparing the total quantum which will have all the generating stations (including the ones with higher fixed costs), hence the direct comparison of percentage changes is not the right way of analysis in this situation. However, there has been increase in fixed costs due to addition of new generating stations.
- 3.6.33 The availability of surplus power (as shown in the ARR) is not constant. It is annual consolidated figure, considering energy from all sources. Depending on the load dynamics, there appears surplus power in certain blocks in a day time. Also, there is deficit in certain other time blocks in a day. As such, TSDISCOMs are bound to purchase power from open market during power deficit time blocks to cope up with the demand and opt for sale of power during surplus times. It may be noted that all the RE projects with which TSDISCOMs have signed Power Purchase Agreements, are must run stations as per the direction of MoP, Gol
- 3.6.34 The TSDISCOMs are entrusted with the dual responsibility of not only to adhere to the various regulations/orders issued by TSERC/CERC/MNRE/MoP but also the major mandate enlisted in the Electricity Act 2003, is to maintain reliable

power supply with least cost principle. As such, to meet the growing demand of the state of Telangana and to ensure 24 Hrs uninterrupted power supply to all categories of consumers including agricultural services as per the directions of Govt of Telangana State, TSDISCOMs have been planning for procurement of power. TSDISCOMs have been entering into Long-term, Medium-term and Short-term power purchase agreements based on the growing demands of the State and to meet the additional demand of the Lift Irrigation Projects taken up by the State Govt.

- 3.6.35 It may be noted that all the RE projects with which TSDISCOMs have signed Power Purchase Agreements, are must run stations as per the direction of MoP, Gol.
- 3.6.36 The present procurement of Solar power through Central Agencies like SECI/ NTPC/NHPC at competitive tariffs will not only help TSDISCOMs to meet the power requirements of the State but also enable to bring down the average power purchase cost, while complying with the Renewable Power Purchase Obligation targets fixed by the Commission.
- 3.6.37 Though at present, it is not mandatory for the TSDISCOMs to comply with the MoP notified RPPO trajectory, it is likely that the State RPPOs may be directed to align with the MoP RPPO, in terms of National Tariff Policy. And particularly in view of the proposed 44 amendment to the section 142 of the Electricity Act 2003, which proposes for imposing penalties (ranging from Rs.0.25/kWh to Rs.2.00/kWh) for non-compliance of RPPO targets, it is required that TSDISCOMs shall be prepared to meet the larger RPPO targets in phased manner, that may be imposed in future by MoP, Gol on all the states, including the state of Telangana.

Table 3.10: Details of MoP notified RPO trajectory

MNRE RPPO Targets	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30
Wind	0.81	1.60	2.46	3.36	4.29	5.23	6.16	6.94
Hydro including PSP	0.35	0.66	1.08	1.48	1.80	2.15	2.51	2.82
Others	23.44	24.81	26.37	28.17	29.86	31.43	32.69	33.57
Total RPPO target	24.60	27.07	29.91	33.01	35.95	38.81	41.36	43.33

(source: [https://powermin.gov.in/sites/default/files/webform/notices/Renewable Purchase Obligation andEnergy Storage Obligation Trajectory till 2029-30.pdf](https://powermin.gov.in/sites/default/files/webform/notices/Renewable_Purchase_Obligation_andEnergy_Storage_Obligation_Trajectory_till_2029-30.pdf))

- 3.6.38 The cap-rate for procurement of short-term power through Power Exchanges was reduced by CERC from Rs.20/kWh to Rs.12/kWh to control the prices

during shortage of coal. (CERC - Directions by the Commission to the Power Exchanges registered under the Power Market Regulations, 2021 – dated 22.12.2022)

- 3.6.39 TSDISCOMs projected the Fixed Charges of TSGENCO Thermal stations as per TSERC MYT Order for 4th Control period and Variable charges by considering the base ECR computed by the Commission in 4th control period.
- 3.6.40 The contention of the objector that the fixed cost charges would come down when the plant availabilities of CGS thermal plants are more. However, the statement to certain extent is legitimate in the context of low fixed cost charges, when the CGS Power Plants declares their plant availabilities beyond NAPAF and generate the power more than the threshold PLF and the overhaul fixed cost reduces. However, in the case of ARR Projections for FY 2023-24, NTPC projected the plant availabilities considering addition of new 1600 MW (2x800) at Ramagundam (STPP) in the year 2023 as per APR Act 2014. As a consequence, the fixed cost charges of CGS NTPC thermal plants were increased in ARR Projections for FY 2023-24, vis-à-vis, FY 2022-23.
- 3.6.41 With regards to the comments on higher variable cost charges for the year FY 2022- 23, vis-à-vis FY 2023-24, it is to state that most of the CGS generators actual Plant availability was lower than their respective NAPAFs of 80%-85%. Where as in FY.2023-24 the most of the Central Generating stations have projected their Plant availabilities at higher than the threshold PLFs. The CGS power plants which projected higher PLFs in FY 2023-24 are RSTPS I&II, Simhadri-II, NTECL Vallur and NTPL.
- 3.6.42 In the year 2022, monsoon season of July 2022 turned out to be the wettest month and recorded excess rain fall and witnessed 144.2 mm as against average rain fall of 38.1 mm in the State. This monsoon and heavy rainfall continued until 1st week of December 2022 according to data from the Telangana State Development Planning Society (TSDPS). Thus CGS coal and Lignite based thermal power plants have generated lesser energy.
- 3.6.43 In respect of increase/variation in Variable cost for Singareni Thermal Power Plant (STPP), it is to submit that, Coal is supplied to STPP under Bridge linkage

MOU entered between STPP and SCCL. The coal pricing under Bridge linkage MOU depends on the Market Prices.

3.6.44 Further, TSDISCOMs requested M/s STPP to pursue with ministry of Coal, GoI on swapping of Naini Coal block with SCCL mines, as per TSERC direction.

3.6.45 The variable cost of SEIL-I(269.45 MW PPA) for the FY 2021-22 is Rs.5.13/kWh which includes the Supplementary bills of Change in Law as per the CERC order Dt.21.08.2020 in petition 217/MP/2016 for the FY 2015-16 to FY 2020-21 and Late Payment Surcharge. The actual variable cost of SEIL-I for FY 2021-22 is Rs.2.23/kWh.

3.6.46 CERC in its order dated 21.08.2020 allowed following components as a change in law:

- Increase in royalty on coal and additional levies (DMF & NMET levy)
- Increase in rate of Clean Energy Cess including GST Compensation Cess
- Imposition of Excise Duty on Coal.
- Increase in Service Tax and GST on Railway Freight, Domestic Coal Ocean
- Transport, Port Vessel Charges, Port Cargo Charges, Port Handling Charges, Terminal Charges, Unload Port Cargo Charges and Imported Coal Ocean Transport Freight.
- Decrease in Customs Duty on Imported Coal
- Imposition of Countervailing Duty on Imported Coal.
- Increase in Busy Season Surcharge on Railway freight.
- Increase in Development Surcharge on Railway freight.
- Imposition of coal Terminal Surcharge on railway freight.
- Increase in Central Sales Tax.
- Carrying Cost.

3.6.47 The variable cost of SEIL-I is being made based on the PPA Tariff schedule and CERC Escalation rates.

3.6.48 The reason for increase in assumed variable charges for SEIL-II (570MW) FY 2023-24 is mainly due to increased Coal prices in the international market. The assumed variable charges is based on available forward prices of Imported Coal and USD to INR exchange rates. (Actual may vary depending on prevailing coal prices and forex rates).

- 3.6.49 The main purpose of TSDISCOMs regarding purchase of power is to supply quality and reliable power to all the consumers and to ensure the policy of 24 x 7 supply to all categories of consumers.
- 3.6.50 Based on the demand and availability in particular 15-minute time block, TSDISCOMs have to procure power from markets if the availability in that particular time block doesn't meet the requirement. During H1 of FY 2022-23, the market rates were higher due to shortage of coal and due to importing of coal as per MoP guidelines.
- 3.6.51 In addition to the above, there was also change in variable cost of Sembcorp due to "Change in Law" (as mentioned in section 9 of the initial responses).
- 3.6.52 TSDISCOMs have estimated the availability from Hydel projects as 5443 MU in FY 2022-23 for the fixed cost of Rs.1331 crore.
- 3.6.53 TSDISCOMs cannot comment on the availability projections of AP Genco Hydel.
- 3.6.54 There are no purchases from short-term bilaterals (like PTC, etc.) during FY 2022-23 and FY 2023-24. TSDISCOMs purchased from exchange market only during the time-blocks when there is deficit in power requirement. Since the whole process of purchasing power from exchange is a collective transaction the source-wise is not available.
- 3.6.55 The month-wise short-term purchases from market (quantum and amount) by TSDISCOMs were already submitted in their petitions in the prescribed RSF formats.
- 3.6.56 TSDISCOMs have already provided the details of the expenses against which the same have been claimed under "Other Costs" section in power purchase in their respective petitions (Section 4.1.13 in TSSPDCL petition and section 5.1.13 in TSNPDCL petition).
- 3.6.57 TSDISCOMs have claimed the TSTransco charges for FY 2022-23 as per the TSTransco MYT Order for 4th control period.
- 3.6.58 As regards to inter-state charges, TSDISCOMs have considered the actual PGCIL charges paid for H1 FY 2022-23 and the average of PGCIL rates for the months of January 2022 to October 2022 as available in the SRPC website

were considered for H2 FY 2022-23. This rate along with the projected capacities for CGS stations, Sembcorp Energy (Units I, II) and CSPDCL has formed the basis for calculating PGCIL (POC) charges for H2 FY 2022-23.

- 3.6.59 Other PGCIL charges (STOA charges) paid as a result of procuring power from IEX, has also been considered based on the actuals of H1 FY 2022-23.
- 3.6.60 For H1 FY 2022-23, the actual PGCIL (Non-POC) charges and SRLDC charges & fees, have been considered and the projections for H2 FY 2022- 23 have been done in line with the FY 2021-22 and H1 FY 2022- 23 actuals.
- 3.6.61 An amount of Rs.47.03 crore has been reimbursed by PGCIL to TSDISCOMs towards STOA credits for the FY 2022-23 (upto Jan, 2023). The month-wise actual sales for H1 of FY 2022-23 and the projected sales for H2 of FY 2022-23 for all the categories (including HT-IV LIS) have already been submitted by TSDISCOMs in the prescribed RSF formats.
- 3.6.62 The quantum of power sold by TSDISCOMs i.e., 1674 MU is for the first half of FY 2022-23 (Apr'22 to Sept'22). TSDISCOMs have not projected sale of power for H2 of FY 2022-23 (reasons for which are already highlighted in above responses).
- 3.6.63 TSDISCOMs shall engage in the sale of surplus power in various time blocks based on the real time market scenario i.e., only if the market conditions are favourable to TSDISCOM. TSDISCOMs submitted the information as per the prescribed filing formats by TSERC and writeups. TSDISCOMs shall abide by the instructions of the Commission for submission of any additional information, as required.
- 3.6.64 Everyday 15 minutes Time-Block Scheduling of power from all the available sources is being done based on merit order and any shortage of power due to sudden outages of plants, increase in Demand etc. is being purchased through Power exchanges considering the requirement in each 15 minutes Time-Block.
- 3.6.65 Procurement of power under Short-term (Power Exchanges) considering power shortages in certain Time-Blocks is inevitable to bridge the Day to Day Demand-Supply gap.

- 3.6.66 During the H1 of FY 2022-23, the market prices were high due to the coal shortages in the country.
- 3.6.67 At present, Captive Coal Mine (located at Chhattisgarh) has been allotted to Marwa plant, Chhattisgarh. Thereby the tariff of plant has been reduced further and TSDISCOMs persuing with CSPDCL to resolve the disputes in order to schedule power from Marwa plant.
- 3.6.68 With regard to the POC charges, it is to inform that the transmission capacity booked for Chhattisgarh is being utilized/adjusted to procure power through exchange and banking facilities. Further, TSDISCOMs filed petition against PGCIL on levy of relinquishment charges for the additional 1000 MW transmission capacity and the same is pending.
- 3.6.69 The erstwhile APERC in the Order dated 24.03.2003 in O.P.No.402 of 2002 allowed the liability of additional interest on pension bonds as a passthrough in the tariff on a year to year basis up to the FY 2032-33. The aforementioned Order of the APERC shows that any additional liability due to increase in the amount of pension is recognised as a pass through in the tariff of APGENCO. After the formation of the Telangana State, the pension liability was passed on to TSGENCO.
- 3.6.70 The additional interest on pension bonds claimed by TSDISCOMs are the amounts as claimed by TS GENCO in line with the aforementioned Order dated 24.03.2003 in O.P.No.402 of 2002. In this regard, it is to be noted that the amount approved by the Commission in the RST Order is provisional in nature and at the end of year, TS Genco raises supplementary bills to TSDISCOMs with the actual pension liabilities paid by it.
- 3.6.71 For FY 2016-17, the variation of actual amount from the approved amount is on account of adjustment of pension liabilities outstanding for past three years. For the period from FY 2019-20 to FY 2021-22, it is to be noted that TSDISCOMs could not file the ARR and Tariff Petitions and considering the same, the approved amount was considered as equal to the approved value in RST Order for FY 2018-19.

- 3.6.72 Further, the variation of actual amount from the approved amounts is on account of past liabilities and the supplementary bills raised by TS Genco at the end of the respective year.
- 3.6.73 TSDISCOMs submit that till the time GoTS accepts to bear the additional burden of pension bonds, TSDISCOMs are required to pay for the claims made by the TS Genco as per the aforementioned Order dated 24.03.2003 in O.P.No.402 of 2002.
- 3.6.74 In view of the above submissions, TSDISCOMs request the Commission to approve the additional interest on pension bonds as claimed.
- 3.6.75 TSDISCOMs make note of the suggestions provided by the objector in the context of long duration contracts in the IEX and purchase/sale of RE in power exchange.
- 3.6.76 TSDISCOMs have a dedicated wing (Telangana State Power Coordination Committee) to focus on all the power purchase related matters of TSDISCOMs. TSDISCOMs have been utilizing the GDAM and GTAP products of IEX, for sale or purchase of green power.

Commission's View

- 3.6.77 The Commission has approved the power purchase cost for FY 2023-24 duly considering the approved PPAs, based on the approved quantum of energy and applicable tariffs for the respective generating stations. The Commission's approach for approving the power purchase cost for FY 2023-24 has been elaborated in Chapter 4 of this Order.

3.7 DISTRIBUTION COST

Stakeholders' Submissions

- 3.7.1 TSSPDCL has shown increase in distribution costs from Rs.4670.72 for FY 2022-23 to Rs.5168.36 for FY 2023-24. Similarly TSNPDCL has shown an increase from Rs.3601.25 for FY 2022-23 to Rs.4081.42 for FY 2023-24.
- 3.7.2 There is slight decrease in contracted capacities (SLDC) from the current financial year to the next financial year. TSNPDCL has shown revised estimation of distribution losses, including EHT sales, of 9.50% against 8.6% approved for the year 2022-23, while TSSPDCL has shown the estimate for the

same year as 8.44% despite various steps taken for strengthening distribution system, especially in the light of claimed reduction in consumption of power for LT agriculture. Appropriate decisions are to be taken on review of Distribution loss reduction trajectory of TSDISCOM.

TSDISCOMs Replies

- 3.7.3 TSDISCOMs would like to clarify that the Distribution losses for FY 2022-23, have been computed based on the voltage-wise distribution loss targets prescribed by the Commission in its Wheeling Tariff Order for the 4th control period.

Commission's View

- 3.7.4 The Commission has taken note of the stakeholders' submissions and replies of TSDISCOMs.

3.8 TRANSMISSION & PGCIL CHARGES

Stakeholders' Submissions

- 3.8.1 Based on the information submitted by TSDISCOMs on Contracted capacity (MW), Transmission charges (Rs. in crore) FY 2021-22 to FY 2023-24, it is seen that the contracted capacity of both TSDISCOMs increased from 21315.13 MW in FY 2021-22 to 21798.29 MW in FY 2023-24, i.e., by just 2.27%. But transmission charges during the same period increased from Rs.2856.43 crore to Rs.3796.56 crore, i.e., by 32.91%. It is not clear as to how the contracted capacity has come down from the current financial year to 2023-24, addition of generation capacities under PPAs are taking place to meet higher demand. There should be justification for abnormal increase in transmission charges vis-à-vis contracted capacity during the three FYs. The above has to be reviewed thoroughly, since TSDISCOMs have submitted that they have adopted the transmission charges and transmission capacity approved in the 4th MYT tariff order for the projected transmission charges for the FY 2023-24. The TSDISCOMs have not made it clear whether requirement of contracted capacity is in tune with transmission capacity approved in the 4th MYT tariff order.
- 3.8.2 TSDISCOMs have shown PGCIL charges as Rs.1558 crore, Rs.1601 crore and Rs.1532 crore for FY 2021-22, FY 2022-23 and FY 2023-24 respectively.

Whereas total contracted capacity considered for working out PGCIL charges is not provided. The TSDISCOMs have explained that as per regulations and fixed charges determined by CERC for a period of 5 years, PGCIL has been recovering the full fixed charges through point of connection (POC) rates, subject to reconciling the entire amount on a pro-rata basis of payments in every quarter and if recovery of fixed charges are made lesser or higher side by PGCIL in every month.

- 3.8.3 Apart from the CGSs, CSPDCL and Sembcorp capacities power being procured from IEX has been considered for working out PGCIL charges.
- 3.8.4 CERC has notified Connectivity and General Network Access to the inter-state Transmission System Regulations, 2022, with effect from 15.10.2022. As per the Connectivity and General Network Access Regulation of CERC treating short-term purchases for the last three years as the basis for determining the so-called deemed GNA quantum is an absurdity. The new 800 KV HVDC line commissioned between Raigarh in WR-Pugulur in Southern Region is placed in the regional component of ISTS. The commercial operation of the line was declared in September, 2022, and the monthly additional commitment on account of this line is being imposed on TSDISCOMs of southern states as per the tariff determined recently by the CERC. Adding a new 800 KV line in the regional component of ISTS charges, irrespective of contracting a part of that capacity by a state under the GNA regulations, is equally irrational. When a state or states in a particular region do not require additional transmission capacity on a long-term basis, addition of unwarranted transmission capacity by PGCIL as it decides and adding the burden of charges for the same on a state, which does not require that capacity, is questionable, in principle.
- 3.8.5 In their petitions TSDISCOMs have not mentioned about LTA contracted capacity of TSDISCOMs under ISTS regulations before they have come into force from 15.10.2022, monthly charges paid by them, LTA contracted capacity now with additions of capacities made after 15.10.2022 and whether the deemed GNA quantum is taken into consideration.
- 3.8.6 Since TSDISCOMs have stated that the estimated PGCIL charges are subject to revision later, it implies that additional amounts may be imposed on them by

PGCIL which, in turn, would lead to their claiming the same under true-up from the consumers.

- 3.8.7 Addition of transmission capacity by PGCIL should be done in a planned manner to meet requirements of the states and such capacities should be apportioned to TSDISCOMs based on their long-term contract of the required capacity. It is arbitrary to impose ISTS charges on the capacities which TSDISCOMs have not contracted for and are not using.
- 3.8.8 For the year 2023-24, TSDISCOMs have not proposed to sell surplus power outside the state. It means that, TSDISCOMs do not require any additional transmission capacity from the CTU to transmit their surplus power, though the ISTS charges for any supply of surplus power outside the state will have to be borne by the purchaser. In the event of TSDISCOMs not selling power outside the state and not purchasing power in the market from outside the state, CERC's regulations impose avoidable burdens of ISTS charges under the deemed GNA quantum for which the transmission capacity of the CTU is not utilised by TSDISCOM, but deemed to have been utilised based on their short-term market purchase in the last three years.

TSDISCOMs Replies

- 3.8.9 For FY 2021-22, the licensees have considered the transmission costs actually paid to TS Transco for that year.
- 3.8.10 For FY 2022-23 and FY 2023-24, the transmission costs are derived by multiplying the transmission tariff (INR/kW/month) with contracted capacity (MW) of TS Transco determined by the Commission in the Transmission MYT Order for 4th Control period issued on 20.03.2020.
- 3.8.11 The Transmission tariffs determined in the Transmission MYT Order for 4th control period are Rs.129.45/kW/Month for FY 2022-23 and Rs.145.14/kW/month for FY 2023-24 which is same for both TSDISCOM.
- 3.8.12 The licensees have considered the TS Transco MYT Order for 4th control period approved numbers to derive the Transmission costs.
- 3.8.13 As per the Transmission Tariff for 4th control period (FY 2019-20 to FY 2023-24) the contracted capacity of both TSDISCOMs for FY 2022-23 and FY 2023-24 are 21817.140 MW and 21798.290 MW respectively.

- 3.8.14 At the time of the transmission tariff order was issued by the Commission the PPAs of Bagasse plants such as M/s Ganapathi Sugar Industries Ltd. and M/s Kakatiya Cement Sugar & Industries Ltd. are there with a validity up to FY 2022-23. The decrease in contracted capacity of 18.85 MW in FY 2023-24 is due to the non consideration of the Bagasse plant for FY 2023-24 due to expiry of concerned PPA's
- 3.8.15 TSDISCOMs have projected the Transmission Charges for FY 2023-24 as approved by the Commission in the 4th control period. The details of the contracted capacity and PGCIL charges and the methodology for calculation are elaborated by TSDISCOMs in their ARR & FPT petitions and the additional information submission to the Commission.
- 3.8.16 The CERC while notifying the draft GNA Regulations 2022, declared, inter-alia, the deemed GNA quantity Telangana State as 6140 MW and has sought the objections, views, suggestions etc., from the stake holders/States/LTTCs in the country. However, The Telangana State total contracted capacity for the Inter State Transmission capacity with PGCIL/CTUIL is 4119.574 MW.
- 3.8.17 The CERC in the draft GNA Regulations 2022 calculated all the States GNA Quantum, inter-alia, for Telangana as 6140 MW with a methodology adopted with considering peak and average peak demand of a year for past three years. Most of the states, including Telangana objected that the methodology adopted for arriving at the deemed GNA quantity for the states was irrational, unscientific, illogical and injustice to the DICs/States.
- 3.8.18 The CERC notified the GNA regulations 2022 and made it operation w.e.f. 15.10.2022 onwards, without the T-GNA (temporary GNA) provisions. The CERC did not consider the objections, views, comments, suggestions etc., of the States. The CERC GNA Regulations 2022 stipulated that calculation of GNA capacity for payment of ISTS Transmission Charges (POC) is based on methodology specified in the CERC Sharing Regulations 2020, until notification of new methodology.
- 3.8.19 Now, a new + 800kV Raigarh – Pugular - Trissur HVDC bi-polar lines link was commissioned on 06.09.2020 and the CERC has issued tariff order on the above said line on 22.09.2022 and kept the asset of the above said line under

Regional Component without considering the requests of all the Southern States to consider the said line under National Component. Aggrieved with the impugned order, the TANGEDCO being the LTTC, has filed an appeal before APTEL, New Delhi vide Appeal No.433 of 2022 to consider the said HVDC line as National Component. If the said line asset is under National Component, Telangana would be benefitted by Rs.6-7 Crs/Month, since the tariff of the line will be shared among all the states/DICs in the Country. The case is pending before APTEL, New Delhi as of now.

- 3.8.20 No separate PoC charges are being paid by TSDISCOMs for the power procured under short term after introduction new sharing Regulations 2020 i.e., 1st November 2020.

Commission's View

- 3.8.21 The Commission takes note of the stakeholders' submissions and replies of TSDISCOMs.

3.9 REVENUE AND REVENUE GAP

Stakeholders' Submissions

- 3.9.1 While TSDISCOMs have not given the financial impact of tariffs proposed for LT & HT wholly religious places, green tariff, parallel operation charges/grid support charges, etc., the proposal of TSDISCOMs not to hike tariffs for all other categories of consumers is welcome. At the same time, TSDISCOMs have shown a revenue gap of Rs.10535 crore - Rs.3211 crore by TSSPDCL and Rs.7324 crore by TSNPDCL - without any proposals and explanation as to how do they bridge it.
- 3.9.2 If the subsidy the GoTS is agreeing to provide is not sufficient to bridge the determined revenue gap of TSDISCOM, balance revenue gap may not be treated as a regulatory asset. It is for TSDISCOMs to propose how they would bridge that balance revenue gap.
- 3.9.3 It is requested that the Commission gets the commitment of the GoTS on providing subsidy in a legally binding manner. Also, it should be made clear to the GoTS that, when true-up claims come up for the FY 2023-24, it should provide additional subsidy proportionately to the fully subsidised consumers,

- 3.9.4 The TSDISCOMs have not revealed whether there are any dues of subsidy from the GoTS pending.
- 3.9.5 We request the Commission to stipulate in a legally binding manner that, if the GoTS fails to provide the committed subsidy for the FY concerned in time, it should pay interest thereon for the delayed period in tune with the interest TSDISCOMs have to pay for additional borrowings arising as a result of the said failure of the GoTS. We request the Commission not to direct TSDISCOMs to collect charges as per cost of service from the consumers concerned, if GoTS fails to provide a part of subsidy it committed to provide in a FY, as it did in the past.
- 3.9.6 The Revenue gap with existing tariffs is indicated as Rs.3211 Crs for TSSPDCL and Rs.7324 Crs for NPDCL. It's expected that the State Government will grant required subsidy in exercise of its powers u/s 65 of the Act to bridge the Revenue gap and to ensure full recovery of ARR as may approved by the Commission.

TSDISCOMs Replies

- 3.9.7 For the FY 2022-23, TSERC approved INR 7912.88 Crs towards Subsidy from GoTS to TSDISCOMs (Rs.1610.89 crore to TSSPDCL and Rs.6301.99 crore to TSNPDCL) to bridge the revenue deficit of TSDISCOM.
- 3.9.8 For FY 2023-24, TSDISCOMs have claimed a revenue gap of INR 10,535 Crs and are expecting to meet the revenue deficit through the financial support of Government of Telangana State through subsidy.
- 3.9.9 TSDISCOMs have already considered various factors that may come into play and based on them the projections are arrived. TSDISCOMs will be implementing the FCA regulations in Telangana which enables them to recover/refund the variation in power purchase costs without much delay.
- 3.9.10 However, TSDISCOMs have calculated the revenue gap using the actual data available (till H1 of FY 2022-23) and projections (H2 of FY 2022-23 and FY 2023-24).
- 3.9.11 TSDISCOMs shall abide by the directions given by the Commission, and the subsidy commitments by the GoTS.

3.9.12 The details of the subsidy approved and received by TSSPDCL is furnished hereunder:

Table 3.11: Details of subsidy approved and received from GoTS

Financial Year	Subsidy approved	Subsidy recieved
*FY 2021-22	1397.5	1397.5
FY 2022-23 (upto Dec-22)	1208.18	1059.74

**Note: Tariff Subsidy approved for FY 2021-22 is taken as per Tariff order for FY 2018-19.*

3.9.13 However, The Government of Telangana State is paying 100% of tariff subsidy regularly.

3.9.14 TSDISCOMs have made true up claims for their Retail Supply Business after adjusting the amounts received from GoTS and the year-wise details of such amounts are already provided in the filings. As per the UDAY Agreement, the total outstanding debt as on 30.09.2015 has to be taken over by the GoTS and GoTS has taken over the same in the form of equity infusion i.e., additional support. Further, as per UDAY MoU, States have to take over the future losses in a progressive manner and accordingly GoTS has taken over the losses for the period from FY 2016-17 to FY 2020-21.

3.9.15 The accumulated revenue deficit of Rs.36847.63 crore as referred by the Objector is actually Rs.36841.63 crore and was sum of yearly revenue deficits from FY 2018-19 to FY 2021-22 as submitted by TSDISCOMs in the Retail Supply ARR filings for FY 2022-23 in Form 9 of RSF formats (namely 'Revenue Deficit/Surplus and Proposed Adjustments'). The yearly revenue deficits were including estimated figures for FY 2021-22 and does not include the additional support and loss funding provided by the GoTS.

3.9.16 The year-wise revenue deficit is the difference of ARR and Revenue from various sources. TSDISCOMs have already filed Petitions for Distribution True ups and the proceedings are undergoing along with the instant ARR and Retail Supply True up filings.

3.9.17 Govt. of Telangana has been adopting the following steps to improve Discom financial position, in addition to the subsidy disbursements for LT Agriculture and LT Domestic consumers-

- GoTS has started releasing LIS CC charges by providing budgetary support from 2021. This will improve collection efficiency and eventually reduce AT&C losses

- GoTS has instructed Panchayat Raj and Municipal administration to pay CC charges as per vide Lr. No.768, dt. 14.08.2020.
 - From FY 2020-21 onwards, TSDISCOMs are receiving regular monthly advance payments of subsidy.
 - Further benefits to SC & ST consumers for domestic use, Haircutting salons, Dobhighats, Laundry shops, powerlooms, poultry farms and spinning mills
- 3.9.18 For the FY 2022-23, TSERC approved INR 7912.88 Crs towards Subsidy from GoTS to TSDISCOMs (INR 1610.89 Crs to TSSPDCL and INR 6301.99 Crs to TSNPDCL) to bridge the revenue deficit of TSDISCOM.
- 3.9.19 For FY 2023-24, TSDISCOMs have claimed a revenue gap of INR 10,535 Crs and are expecting to meet the revenue deficit through the financial support of Government of Telangana State through subsidy.

Commission's View

- 3.9.20 The Commission after examining the cost, revenue, cross subsidy for each consumer category and the Reference Tariff Schedule has determined the Full Cost Recovery Tariff Schedule (FCRTS) for FY 2023-24 which TSDISCOMs will have to charge in the absence of any external subsidy u/s 65 of the Act in order to generate the revenue required to meet the approved cost. Considering the subsidy commitment of GoTS u/s 65 of the Act, the Retail Supply Tariffs for FY 2023-24 have been determined.

3.10 PURCHASE OF UNWARRANTED RENEWABLE ENERGY

Stakeholders' Submissions

- 3.10.1 The TSDISCOMs have projected availability of non-conventional energy/ renewable energy to the tune of 11,960 MU for the FY 2023-24 which works out to 18.99% of the projected sales of power of 62970.74 MU. If projected availability of hydel power of 5415 MU also is taken into account, the total NCE/RE works out to 17375 MU which is 27.59% of the projected sales. As per RRPO regulation No.7 of 2022, TSDISCOMs are mandated to purchase a minimum of solar and non-solar RE/NCE of 9.25% for 2023-24, 10.50 % for 2024-25, 11.75% for 2025-26 and 13% for 2026-27.
- 3.10.2 Fixing targets of minimum percentage of RE to be purchased by TSDISCOMs year-wise, irrespective of its requirement, and meeting the targets is one thing, and far exceeding the targets is quite another, leading to availability of more

surplus power and need for backing down thermal power and paying fixed charges therefor in order to purchase must-run and unwarranted RE. Whether TSDISCOMs purchasing RE just to meet the RPPO targets fixed by the Commission or to meet demand for power ensuring an ideal power mix to be in consonance with fluctuating demand curve to the extent practicable. The so-called "renewable power purchase obligation" has no legal basis as of now. The Ministry of power, GoI, has issued a direction, but the direction itself is not covered by any Section of the Electricity Act, 2003 Act. Why should TSDISCOMs feel compelled to absorb unwarranted power from renewables, if alternative options are available. Provide the details of quantum of thermal power that is being backed down in order to purchase must-run RE. Provide the details of the amount which is being paid towards fixed charges for backing down thermal power year-wise, for the last, current and next financial years. It may be noted that TSDISCOM, in the past, vehemently argued before the Commission during public hearings on RPPO proposals not to enhance the minimum targets of such purchases from the then prevailing 5%.

- 3.10.3 There are binding obligations under terms and conditions in the PPAs in force and TSDISCOMs will have to pay fixed charges for backing down generating capacities of thermal stations of TS GENCO. Will the MoP, GoI, reimburse the fixed charges to TSDISCOM. Will TSDISCOMs demand the MoP, GoI, accordingly. The TSDISCOMs have also maintained that "all the old Thermal Power Plants may be closed after their respective PPA periods and in future Battery Energy Storage System may cater to the Peak Demand needs. Telangana State has no future plans for expansion of Thermal Power Generation Plants to cater to the needs of the Long-Term Power Demands. Instead, going with Solar Power Capacity addition" (pp 29-30 of the Commission's order dated 22.6.2022).
- 3.10.4 Such a move will sound the death-knell of TS GENCO, instead of getting solar power plants set up by GENCO near the load centres.
- 3.10.5 The Commission has already given its consent for implementing the KUSUM scheme. Calculations by experts show that replacing agricultural pump sets with solar power pump sets would ensure recovery of the costs to be incurred for the same within a few years by reducing and avoiding need for subsidy from

the government for supply of power to agriculture on a long-term basis. However, purchasing solar power from plants of private corporate entities that, too, set up in other states seems to be irresistibly attractive to the powers-that-be, going by the present trend. Here, the approaches and interests of the central and state authorities are coalescing.

- 3.10.6 It is submitted that the current RPO trajectory followed in the state is governed under the TSERC Renewable Power Purchase Obligation (Compliance by Purchase of Renewable Energy/Renewable Energy Certificates) Regulation, 2022 notified by the Commission on 01.04.2022. Since the current RE market at the Power Exchange as well the REC market is undergoing transition in alignment with the above significant changes, we request the Commission to amend the RPO regulations to consider the trajectory notified by the Ministry of Power on 22.07.2022.

TSDISCOMs Replies

- 3.10.7 TSDISCOMs have been entering into Long-term, Medium-term and Short-term power purchase agreements based on the growing demands of the State and to meet the additional demand of the Lift Irrigation Projects taken up by the State Govt. Further, TSDISCOMs have to ensure 24Hr uninterrupted power supply to all the categories of the consumers in the state, including the Agricultural consumers, for which TSDISCOMs plan the power purchases. The loads have become more dynamic in nature due to 24 Hour power supply to Agricultural consumers and Lift Irrigation Projects loads. In respect of the power purchases, whether it is through agreements or through markets, TSDISCOMs are ensuring a balance to the extent possible, for ensuring the grid stability and other required technical parameters.
- 3.10.8 Further, while entering the PPAs for purchase of RE power, TSDISCOMs are also bound to examine the RPPO targets in vogue both at State level & National level. It may be noted that Govt of India has set out a huge RE target of 500 GW by the year 2030 and the States need to plan for RE capacity addition accordingly.
- 3.10.9 The RPPO percentage arrived are based on the projections of demand as well as RE power availability and the definite percentages can be concluded based

on the actual only in future. In this connection, the RPPO achieved by TSDISCOMs for the past years is as follows:

Table 3.12: RPPO achieved by TSDISCOMs for the past years

Financial Year	Solar RPPO %		Non-Solar RPPO %		Total RPPO %	
	As mandated by TSERC	Achieved by TSDISCOM	As mandated by TSERC	Achieved by TSDISCOM	As mandated by TSERC	Achieved by TSDISCOM
2018-19	5.33	9.57	0.67	0.83	6	10.4
2019-20	5.77	9.86	0.73	0.67	6.5	10.53
2020-21	6.21	9.2	0.79	0.79	7	9.99
2021-22	7.1	8.8	0.9	0.96	8	9.76

- 3.10.10 As could be seen TSDISCOMs could achieve Solar RPPO obligation but barely reach the Non-Solar RPPO targets in the past years. If proper RE power purchases planning is not done in time, this would further become difficult both due to increasing RPPO targets and also increasing power demand.
- 3.10.11 In view of the limited non-solar potential in the state of Telangana, the excess Solar RPPO % can be utilized to meet the Non-Solar RPPO % in terms of RPO Regulation No.7 of 2022.
- 3.10.12 Though at present, it is not mandatory for TSDISCOMs to comply with the MoP notified RPPO trajectory, it is likely that the State RPPOs may be directed to align with the MoP RPPO, in terms of National Tariff Policy. And particularly in view of the proposed amendment to the section 142 of the Electricity Act 2003, which proposes for imposing penalties (ranging from Rs.0.25/kWh to Rs.2.00/kWh) for non-compliance of RPPO targets, it is required that TSDISCOMs shall be prepared to meet the larger RPPO targets in phased manner, that may be imposed in future by MoP, Gol on all the states, including the state of Telangana.
- 3.10.13 TSGENCO has also proposed to enter into solar PPA with TSNPDCL and set up solar power plant of 4.6 MW capacity at MHS Peddapally.
- 3.10.14 The TSDISCOMs have a dedicated wing (Telangana State Power Coordination Committee) to focus on all the power purchase related matters of TSDISCOM. Under the purview of TSPCC, TSDISCOMs have been utilizing the GDAM and GTAM products of IEX, for sale or purchase of green power.
- 3.10.15 The main purpose of TSDISCOMs regarding purchase of power is to supply quality and reliable power to all the consumers and to ensure the policy of 24 x 7 supply to all categories of consumers. However, on a real time basis, if the

market conditions are favourable, TSDISCOMs shall engage in the sale of surplus power in various time blocks, as done in the recent years. This would enhance the financial performance of TSDISCOMs and would ultimately be beneficial to the end consumers.

- 3.10.16 The reasons for procuring solar power are already mentioned in above sections. TSDISCOMs are not purchasing Solar power just based on the possibility of storage systems development in future.
- 3.10.17 Pumped hydro power storage facilities available at Nagarjunasagar and Srisailem hydel projects, in managing its peak demand occurring during night-time when the solar power is not available.
- 3.10.18 Based on the availability/requirement of power, TSDISCOMs are entering Banking Agreements with other states who have different power requirement patterns. Banking of power is always beneficial to TSDISCOMs as Power will be received during Peak season where market rates will be higher and returned during non-peak season. Banking of power is only energy to energy transaction.
- 3.10.19 The TSDISCOMs are entrusted with the dual responsibility of not only to adhere to the various regulations/orders issued by TSERC/CERC/MNRE/MoP but also the major mandate enlisted in the Electricity Act 2003, to maintain reliable power supply.
- 3.10.20 With least cost principle. As such to meet the growing demand of the state of Telangana and to ensure 24 Hrs uninterrupted power supply to all categories of consumers including agricultural services as per the directions of Govt of Telangana State, TSDISCOMs are planning for procurement of power.
- 3.10.21 TSDISCOMs have been planning to procure power through both ways i.e., through distributed mode and through centralized mode for the reasons of cost-effectiveness.
- 3.10.22 TSDISCOMs have also been encouraging the consumers for installation of RoofTop Solar in their premises (as on 30.09.22 the installed RoofTop Solar in Telangana state is 268 MW).
- 3.10.23 The matter of Alignment of RPO Regulations with MoP trajectory is under the purview of the Commission.

3.10.24 TSDISCOMs shall abide by the directions of the Commission, if any in this regard.

3.10.25 To the suggestion on purchase of more solar power TSDISCOM's response is as follows:

- It may be noted that all the RE projects with which TSDISCOMs have signed PPAs, are must-run stations as per the direction of MoP, GoI.
- TSSPDCL hopes to sign more renewable Power PPAs to bring down its overall power purchase cost as and when such power is available. However, there is limitation due to variability of RE power as they pose threat to grid stability. Hence, TSDISCOM can only purchase RE up to a certain limit.

Commission's View

3.10.26 The Commission after analysing the long-term energy requirement is giving consent to the power purchases through public consultation process.

3.11 POWER SUPPLY TO AGRICULTURE

Stakeholders' Submissions

3.11.1 While TSNPDCL has projected sales to agricultural would remain 7290.39 MU for 2023-24 as in 2022-23, TSSPDCL has projected a reduced growth rate of 4% for 2023-24 compared to the sales in 2022-23.

3.11.2 Directive No.24 issued by the Commission that "the DISCOM to explore the possibility of arriving at a consensus among its agricultural consumers regarding the hours of supply for its peak load management" indicates rethinking on continuing the scheme as announced. The rethinking on the scheme shows need for prudent practices in supplying power to agriculture.

3.11.3 We request the Commission to show in the retail supply tariff order how much subsidy is being provided by the GoTS and how much cross subsidy is being factored category/slab-wise and also direct the DISCOM to show the same in the power bills being issued to the consumers.

TSDISCOMs Replies

3.11.4 As per the policy of Government of Telangana, TSDISCOMs are directed to supply 24 hours of free electricity to all their Agriculture category consumers.

3.11.5 In this regard, TSDISCOMs shall abide by the directions of the Commission and GoTS. In arriving at the subsidy requirement for LT Agriculture category, the

objector haven't considered the positive crosssubsidy element that may be generated by the consumer categories with ABR more than the ACoS. Such cross-subsidy shall reduce the subsidy requirement to a certain extent.

3.11.6 As per the existing practice, the Commission computes the ACoS-ABR level for each consumer category, and after adjusting the positive and negative cross-subsidy throughout, arrives at the revenue gap and tries to balance the same with the GoTS subsidy commitment.

3.11.7 TSDISCOMs shall abide by the directions given by the Commission, and the subsidy commitments by the Government of Telangana, in this regard.

Commission's View

3.11.8 The Commission has taken note of the submissions of stakeholder and TSDISCOMs.

3.12 FUEL COST ADJUSTMENT

Stakeholders' Submissions

3.12.1 Though the matter of FCA relates to tariffs to be paid by the consumers, the Commission has simply invited suggestions and objections from interested public to the draft uploaded in its website, has not held any public hearing, despite requests made by objectors, and has issued the amended Regulation No.1 of 2023 - Third Amendment to (Terms and Conditions for Determination of Tariff for Wheeling and Retail Sale of Electricity) Regulation No.4 of 2005, without making objections/suggestions of the objectors and the responses of the Commission to the same public, as if the regulatory process pertaining to the issue were a mere formality, without ensuring transparency, accountability and public participation. Generally, regulations and amendments thereto are being issued by the ERCs after holding public hearings.

3.12.2 The mechanical approach with which TSDISCOMs are permitted to levy a maximum amount of FCA charges of Rs.0.30 per unit (in kWh) on the consumers as per Regulation No.1 of 2023 under FSA-FCA, without the prior approval of the Commission, and treating cost of power purchase as "uncontrollable" is too sweeping. With this amendment, monthly additional burdens are going to be imposed on the consumers, with scope for true-down being a very rare.

- 3.12.3 While Section 62(4) of the Act empowers the Commissions to specify the formula for Fuel Surcharge, it is not clear whether they can permit automatic recovery without prior check and without following the procedure specified under Section 64 of the Act.
- 3.12.4 Though the components of the FCA formula are arithmetical in nature, the parameters for arriving at the numbers need scrutiny, i.e, coal quality w.r.t coal supply agreements, PPAs terms, load forecasts, long-term and short-term power procurement plans, demand side management, etc are involved in arriving at the value of the components. Hence, it's imperative that there should be a check by the Commission before passing on the FCA burden to the consumers either monthly or quarterly.
- 3.12.5 The Regulation No.1 of 2023 specifies automatic monthly pass through, subject to quarterly check and again annual true up. Some concerns on this Regulation are brought to kind notice of the Commission here under:
- 3.12.6 Sub-clause 12.5.2 (c) specifies that FCA shall be passed on to all categories of consumers except LT-V Agricultural. It's presumed that State government consented to grant subsidy for that category only.
- 3.12.7 Sub-clause 12.5.3(e) requires TSDISCOMs to publish the FCA charges along with gist of its computation within 45 days of the end of the relevant month, failing which the claims will not be allowed. Forfeiture of claims for delay may be arbitrary/unfair, especially when the FCA is to be billed in N+3 rd month without prior approval by the Commission.
- 3.12.8 Sub-clause 12.5.5(a) requires publication of FCA charges along The Regulation No.1 of 2023 specifies automatic monthly pass through, subject to quarterly check and again annual true up. Some concerns on this Regulation are brought to kind notice of the Commission here under:
- a) Sub-clause 12.5.5 (a) requires publication of FCA charges along with gist of computation in 5 daily News papers at huge cost which also accounts for revenue expenditure and is recoverable through Tariffs. If in a particular month the FCA charge is so meagre that it's not worth incurring expenditure for publication etc, TSDISCOMs may be given option to claim the same in the quarterly filings and the shortfall may be allowed to be recovered in the next quarter.
 - b) Sub-clause 12.5.2 (b) rightly specifies ceiling on FCA for automatic pass

through, but 30 paise/unit appears on high side especially for subsidized domestic subcategories.

- c) The amendments under para 5.1 and 5.2 on Repeal and Savings, may have to be inserted under a new Clause 24-A after Clause 24 of the Principal Regulation.

3.12.9 The Commission may please examine the following aspects after hearing the stakeholders during the public consultation process of the Tariff Order for FY 2023-24.

- a) The comfort derived by TSDISCOMs in managing the working capital requirement due to automatic monthly pass through will cause undue hardship to crore of consumers and is contrary to the consumers interests mandated u/s 61(d) of the Act.
- b) The instructions issued by MoP in its letter dated 9th Nov 2021 has no sanction of law and the Rule 14 of the Electricity (Amendment) Rules, 2022 notified by Central Government on 22nd Dec 2022 is ultravires the Electricity Act 2003.
- c) If however monthly recovery is expedient, a committee comprising of consumer's organizations nominated by the Hon'ble Commission may be allowed to scrutinize the data before publication in news papers, by extending the 45 days period to 60 days.
- d) Hon'ble Commission may please take a view whether post approval quarterly adjustment can be permitted for 2023-24, in exercise of the power vested under sub-clause 24.2 of the Principal Regulation no.4 of 2005 and record the same in the Tariff Order of 2023-24.

TSDISCOMs Replies

3.12.10 The comment/suggestion is under the purview of the Commission as it is directed towards them.

3.12.11 TSDISCOMs submit that the FCA mechanism aims to recover/refund the variation in the actual fuel costs from the approved fuel costs and the parameters used in FCA formulae are defined to avoid pass through of any higher costs. Further, the FCA claims are subject to quarterly check and annual true up of TSDISCOM.

Commission's View

3.12.12 Section 62(4) of the Electricity Act, 2003 specifies that "no tariff or part of any tariff may ordinarily be amended, more frequently than once in any financial year, except in respect of any changes expressly permitted under the terms of any fuel surcharge formula as may be specified". The Clauses (zd), (ze) and (zf) of Section 181(2) read with Sections 61, 62 of the Electricity Act, 2003 empowers the Commission for notifying the Regulations. The Commission has

followed the procedure of previous publication in accordance with the Electricity (Procedure for Previous Publication) Rules, 2005 in making the Regulation.

3.13 SMART METERS

Stakeholders' Submissions

- 3.13.1 The Commission has directed TSDISCOMs to take steps for installation of prepaid smart meters with latest technology for "all interested consumers." At the same time, the Commission also directed TSDISCOMs to submit "a time bound action plan for replacement of existing meters with prepaid smart meters with two-way communication in the interest of reveue realisation of the DISCOM." If prepaid meters are to be installed for "all interested consumers," it is left to the discretion of the consumers and hence the need for a time-bound action plan for replacement of existing meters with prepaid smart meters does not arise. Provide the details of the percentages of AT&C losses of TSDISCOM. Requested to provide details of cost for prepaid meters required by TSSPDCL and their annual maintenance cost, once installed.
- 3.13.2 As per applicable Regulation, "security deposit amount shall be two months charges in case of monthly billing and 3 months charges for bi-monthly billing." In addition to collecting such a security deposit from the consumers, TSDISCOMs also are collecting additional security deposit whenever the consumers exceed their contracted load. Consumers shall not be forced to pay in advance for power to be consumed by them under the arrangement of pre-paid meters.
- 3.13.3 Whatever money TSDISCOMs spend for purchasing and installing pre-paid meters is nothing but squandering public money, whether it is collected from the consumers concerned or spent from the grant under RDSS. The consumers have already spent their money for their existing meters. Forcing them to pay for pre-paid meters is nothing but imposing additional burden on them without any benefit to them.
- 3.13.4 There will be practical problems to consumers for paying in advance for power to be consumed by them under the system of pre-paid meters. How much amount and how many times they have to pay in a month, keeping track of their

consumption recorded in the pre-paid meter to avoid disconnection and mode of such payment will be problematic to the consumers.

- 3.13.5 In similar such objection, it was pointed out that TSDISCOMs has to incur Rs.300/- for purchase of a pre paid meter. Number of services in the state are to the tune of 1.65 crore in which agricultural services are around 27 lakhs. Providing prepaid meters to all services leaving agriculture is burdensome to TSDISCOMs and the same would be collected from the consumers through some other charges. Hence the Commission may not allow prepaid meters and the present provision of post paid meters may be continued.

TSDISCOMs Replies

- 3.13.6 AT&C losses of TSSPDCL: 9.14 %. Cost of prepaid meters required by TSSPDCL and their annual maintenance cost once installed. As per the DPR submitted under RDSS, Smart Prepaid Metering for all existing consumers (excluding Agriculture Consumers) for an amount of Rs.8591.76 Cr. (including the maintenance of the smart meters for a period of eight years) which is to be approved by Distribution Reforms Committee (DRC) and also by the Telangana State Cabinet in order to obtain final approval by MoP, GoI. The details of the compliance report submitted to the Commission vide letter dated 09.06.2022 is as follows:

- a) As per the Gazette Notification by the Central Electricity Authority (CEA), Ministry of Power Dt.17.08.2021 it is mandatory that all the existing meters (other than Agricultural consumers) are to be replaced with prepared Smart Meters with the following timelines.
- b) All electrical divisions having more than 50% consumers in urban areas with AT&C losses more than 15% in FY 2019-20, other electrical divisions with AT&C losses more than 25% in FY 2019-20, all Govt. Offices at Block level and above, and all industrial and commercial consumers shall be metered with Smart meters working in pre payment mode by December 2023.
- c) All other areas shall be metered with Smart meters working in Pre-payment mode by March'2025.
- d) The Govt. of India launched the Revamped Distribution Sector Scheme (RDSS) on Dt.29.07.2021, with an objective to reduce the AT&C losses to 12-15% (PAN India) and ACS-ARR gap to zero. The Scheme consists of two components – Metering and Distribution Infrastructure Works.
- e) Accordingly, a draft DPR for Smart Prepaid Metering for all existing consumers (excluding Agriculture Consumers) and system Metering under RDSS has been prepared for an amount of Rs.9308.37Cr. which is to be approved by Distribution Reforms Committee (DRC) and also by

the Telangana State Cabinet in order to obtain final approval by MoP, Gol.

3.13.7 As per RDSS guidelines the Gol grant for metering is Rs.900/- per meter. If Prepaid Smart Metering is taken up under RDS Scheme, the approximate cost of Rs.729 Cr. For the existing 81,00,000 consumers (other than agl. consumers) in TSSPDCL as proposed in the DPR will be disbursed as Gol grant to the Discom by MoP. If TSSPDCL does not participate in RDS Scheme, the above amount i.e., Rs.900/- per meter is to be borne by the Discom funds and the approximate financial commitment is Rs.729 Cr.

3.13.8 The comments are against the policies of Gol. TSDISCOMs shall abide by the directions given by the Commission.

3.13.9 The view of the objector on continuing post paid meters is taken into account.

Commission's View

3.13.10 The Commission has taken note of the submission of stakeholders and TSDISCOMs.

3.14 GENERAL

Stakeholders' Submissions

3.14.1 Free power is not being provided to small horticulture farmers. Such farmers are facing issues like disconnection of services, huge penalties and police cases. Whereas influential farmers and their farm houses even though they are into same horticultural activities are left free without any audit. Providing free power to such farmers and their farm houses is burdensome to the consumers. Their services should be metered and charges levied. Details of such farmers, penalties levied and cases filed shall be provided.

3.14.2 It is said that post formation of Telangana, TSDISCOMs are into losses and not able to pay the salaries of employees. Details of losses and reasons for the same may be provided.

3.14.3 The stand of the GoTS has changed from not providing meters to motors to providing meters to transformers. Clarification is to be provided whether such meters are only for small farmers or to all the farmers.

3.14.4 As per Government statement farm sector is provided with 24 hrs free supply, but in reality it is not so. Details of number of hours of supply to farm sector

along with expenditure by GoTS on free power supply after formation of Telangana may be provided.

TSDISCOMs Replies

- 3.14.5 Provisions such as free power supply and meters to agricultural services is a Government policy and not in the purview of TSDISCOM.
- 3.14.6 As per Tariff Order 2022-23, Horticulture with DSM measures falls under LT-V(A) category with tariff Rs.0.00. For Corporate farmers the tariff is Rs.2.50/unit.
- 3.14.7 Due to hike in diesel prices and coal prices cost of production of electricity has steeply increased, Losses are due to mismatch between cost and Revenue.

Commission's View

- 3.14.8 The TSDISCOMs have to strictly adhere to Terms and Conditions of the Tariff Order of the Commission.

3.15 TARIFF PROPOSALS

Stakeholders' Submissions

Wholly Religious Places

- 3.15.1 TSDISCOMs have not given the financial impact of tariffs proposed for LT & HT wholly religious places, green tariff, parallel operation charges/grid support charges, etc., At the same time, TSDISCOMs have shown a revenue gap of Rs.10535 crore - Rs.3211 crore by TSSPDCL and Rs.7324 crore by TSNPDCL - without any proposals and explanation as to how they bridge the gap. It is the responsibility of TSDISCOMs to explain as to how they propose to bridge the projected revenue gap for the next financial year, as a part of meeting regulatory requirements. TSDISCOMs are submitting their ARR and tariff proposals annually, after getting nod from the GoTS. Therefore, both the GoTS and TSDISCOMs must have prior understanding on how to bridge the projected revenue gap.

HMWSSB Tariff

- 3.15.2 The request of the stakeholder is to continue to sanction concessional Power Tariff at the rate of Rs.4.95 paise per kWh for the FY 2023-24 onwards on perpetual basis.

- 3.15.3 As was observed by the Commission in its Orders passed on earlier occasions, particularly Order dated 22-10-2022, Special Category may be allotted for sanction of concessional Power Tariff for HMWSSB exclusively in line with HMRL. The facility of concessional Power Tariff may also be extended to (a) all STP stations, and (b) all Office Buildings.
- 3.15.4 As per the directions of the Commission, HMWSSB has been following with the GoTS for payment of subvention amount and accordingly HMWSSB has got the Subvention amount, which was paid directly by the GoTS to TSSPDCL.
- 3.15.5 GoTS, Energy Department vide letter dated 30-06-2022, has invoked Section of the Electricity Act, 2003 while assuring that it would take care of payment of Subvention amount for the past and future period, compensate TSDISCOMs suitably. HMWSSB has already requested the GoTS for extending facility of concessional Power Tariff to HMWSSB for the FY 2023-24 onwards on perpetual basis and also extend the facility to (a) STP stations, and (b) office Buildings.

Hospitals and Medical Institutes categorisation

- 3.15.6 Tariff applicable to hospitals and medical institutes category under LT-VII may be revised in view of higher tariff. Some other objectors have suggested that the tariff for corporate hospitals may be increased.

Green Energy Certificate

- 3.15.7 TSDISCOMs should upfront declare the green attributes of power consumed under green tariff mechanism belonging to the consumer during the start of supply of power by confirming the source and quantum of purchase of green power by TSDISCOMs
- 3.15.8 In order to set the ownership of green attributes with consumer and ensure clear accounting and compliance with auditing and carbon neutrality Green Energy Certificates may be issued on monthly basis clearly mentioning the green attributes belonging to the consumer. This will set the ownership of green attributes with consumer and ensure clear accounting and compliance with auditing and carbon neutrality.

Grid Support Charges

- 3.15.9 In line with the Commission's ruling in Retail Supply Tariff Order 2022-23, the Grid Coordination Committee has initiated the detailed study on the matter of parallel operation of CPPs and consequent levy of GSC, however, admittedly, the proposal for levy of GSC for FY 2022-23 has not attained finality as on date.
- 3.15.10 In the 3rd meeting of the Grid Coordination Committee (GCC) held on 16.07.2022 the Objector had submitted its written submissions that grid support charges with a request to withdraw the proposal.
- 3.15.11 The Objector runs a 150 MW Independent/Merchant thermal power plant and export the entire generated power through Grid at all times.
- 3.15.12 Earlier TSDISCOMs proposed to levy the grid support charges on captive generating plants considering captive load burden on Grid. It is surprising to note that now TSDISCOMs proposed to levy such charges on all generating plants including Independent power generating plants and Merchant power generating plants without explaining any reason/basis for levy of such charges.
- 3.15.13 The IPPs and Merchant power generating plants are meant to generate and export entire power to grid and accordingly always supportive to grid but never opt grid support to run the plant.
- 3.15.14 The TSDISCOMs have no role in maintaining Grid security and have to comply with the directions issued by SLDC/RLDC. Hence, in the present scenario, there is no need to propose GSC by TSDISCOMs and TSDISCOMs have no role in seeking GSC.
- 3.15.15 It is also pertinent to note that this Commission is constituted under the Act, and thus the earlier AP Electricity Reform Act, 1998 under which GSC were earlier determined is neither applicable nor relevant to IPPs and Merchant Power generating plants. The Act, 2003 specifically lays down the charges and tariffs to be collected, and no charges beyond what is prescribed can be levied. Admittedly, there is no charge such as GSC mentioned in the Act or the regulations, let alone under S.62 under which the present petitions are filed, and as such, any such proposal to levy GSC is without jurisdiction.
- 3.15.16 It is thus submitted that the scope of present ARR for Retail Supply Business for FY 2023-24 should be strictly confined in terms of Section 62 of the Act r/w

Regulation 4 of 2005 as adopted under Regulation I of 2014, and Section 42 of the Act for the purpose of determination of CSS and any proposal of TSDISCOMs to levy GSC is itself misconceived and patently without jurisdiction.

- 3.15.17 The TSDISCOMs proposed to levy Grid Support Charges for FY2023-24 on all the generators (Captive Generating Plants, Cogeneration Plants, third party Generation units, Merchant Power Generation units, Rooftop Power Plants etc.) who are not having PPA/having PPA for partial capacity with the licensees. Whereas there is no mention of basis and methodology by TSDISCOMs for the proposed GSC of Rs.50 KW per Month.
- 3.15.18 There is no revenue or costs that are shown to be associated corresponding to the levy of GSC. As such, once the entire costs are recovered by the proposed RST alone, any further levy of GSC amounts to illegal and unjust enrichment of the Applicant TSDISCOMs at the cost of generating companies.
- 3.15.19 The proposed levy of GSC appears to be lifted from the APERC's RSTO for FY 2022-23, and such levy itself has been stayed by the APTEL vide order dated 20.05.2022 in DFR No.186/2022, and orders dated 01.07.2022 in DFR Nos.240/2022, 241/2022 and 271/2022. There is no provision in the statute that empowers TSDISCOMs to levy Grid Support Charges on the Merchant power plants.
- 3.15.20 Another objector has suggested the following:
- a) The GSC Fee has not considered the exemption of CMD from the installed capacity.
 - b) The Formula for the GSC i.e., Rs.50 for conventional generators is not mentioned, so is the case with non-conventional GSC. The formula may be disclosed upfront to avoid any arbitrariness.
 - c) Exemption is available in case of shut down for any reason that exceeds two months, which pre-supposes that the period of two months is continuous. Instead the same may be taken as overall period of two months of shut down during the year i.e., period of shut down during the year, if the aggregate period of such shut down exceeds 2 months.

Categorisation of IIT Hyderabad

- 3.15.21 IIT Hyderabad is being billed under HT-II Others category. There is no specific category for government educational institutions. Request to change the category to LT-VII(A) or include in HT wholly religious category.

Categorisation of Telecom Industry

- 3.15.22 Presently, the telecom industry is being charged commercial rates as against Industrial rates, resulting in undue financial burden on the telecom industry which works round the clock like any other industry.
- 3.15.23 High electricity tariffs are one of the biggest challenges faced by the rapidly growing telecom tower industry in India. It's estimated that almost 30 percent of the tower's OPEX accounted for are related to electricity tariffs, which is a significant amount.
- 3.15.24 The Electricity (Rights of Consumers) Rules, 2020 and the 2022 amendment from the Ministry of Power, as well as the Recommendations of the Working Group to the FOIR on "Cross-Sector Collaborative Regulation between Telecom Regulators and Electricity Regulators," outline that agencies and distribution companies should provide timely electricity connections with smart meters and industrial/utility category tariffs to the telecom industry.
- 3.15.25 The Telecom Regulatory Authority of India has acknowledged the important role that telecom and broadband services play in the economic development of connected regions and has suggested in a report that telecom sites should be given access to electricity at industrial or utility tariffs.
- 3.15.26 Working group's additional Recommendations on "Cross Sector Collaborative Regulation between Telecom Regulators and Electricity Regulators" (enclosed) recommend that telecom sites should be provided with electricity connections under the Utility/Industrial tariff. The State Electricity Regulatory Commissions (SERCs) may be asked to include this in their tariff orders.
- 3.15.27 Maharashtra State Electricity Regulatory Commission (MSERC) after taking into consideration the IT/ITeS policy of the Government of Maharashtra specifically categorized Telecommunication Towers in the Industry Tariff vide its order dated 30.03.2020 in Case No.322 of 2019. In furtherance to the same the Maharashtra State Electricity Distribution Company Ltd. vide Commercial Circular No.323 dated 03.04.2020 has revised the electricity tariff for telecommunication towers by placing them in the Industrial Category.
- 3.15.28 Government of Telangana State vide its IT Policy 1. Telangana ICT Policy Framework 2016, 2. Telangana DATA Centres Policy 2016, has allowed the IT

companies operating in Telangana State to pay industrial tariff for their power consumption. 24x7 Telecom Connectivity is essential and a prerequisite for seamless IT operations.

- 3.15.29 Telecom Industry may be categorised under Industrial/Special category rather than the commercial category.

TSDISCOMs Replies

Wholly Religious Places

- 3.15.30 For the FY 2022-23, TSERC approved INR 7912.88 Crs towards Subsidy from GoTS to TSDISCOMs (INR 1610.89 Crs to TSSPDCI and INR 6301.99 Crs to TSNPDCL) to bridge the revenue deficit of TSDISCOM.

- 3.15.31 For FY 2023-24, TSDISCOMs have claimed a revenue gap of INR 10,535 Crs and are expecting to meet the revenue deficit through the financial support of Government of Telangana State through subsidy.

HMWSSB Tariff

- 3.15.32 TSDISCOMs shall abide by the directions of the Commission and GoTS. TSDISCOMs request the Commission to approve the request of HMWSSB only after the commitment of GoTS to provide subsidy for the same.
- 3.15.33 TSDISCOMs shall abide by the directions of the Commission and GoTS. TSDISCOMs shall abide by the directions of the Commission and GoTS.

Hospitals and Medical Institutes categorisation

- 3.15.34 Under the purview of the Commission

Green Energy Certificate

- 3.15.35 Disclosing the details regarding the source(s) by TSDISCOMs via monthly bills/agreement is very difficult. Hence, Green Energy Certificate can be issued for the energy billed with Green Tariff only, that too once in a year.
- 3.15.36 Upfront declaration of the power consumed under Green Tariff belonging to a consumer is very difficult owing to the nature of power generation by various RE sources and large number of such renewable energy sources with which TSDISCOMs has signed PPAs.

Grid Support Charges

- 3.15.37 The grid support charges are being proposed by the Distribution Licensee for consumers who are having parallel operation of Captive Power Plants with grid. The Distribution Licensee's 132 kV & above level HT consumers are not paying Transmission charges & SLDC charges to respective entities even though connected to 132kV & above level. These consumers are paying retail supply Tariffs as approved by the Commission from time to time which is inclusive of all costs (Incl SLDC & Transmission Charges).
- 3.15.38 The advantages of parallel operation with the grid are benefited by the CPPs in addition to other facilities of other consumers. In view of the additional benefits than the normal other consumers, the CPPs who intended to use and benefit from parallel operation need to compensate through Grid Support charges.
- 3.15.39 The said Grid Support charges are also part of Retail Supply Tariffs and these charges are proposed to levy on the CPPs who intended to use and benefit from parallel operation. Hence the proposal of Grid Support charges for FY 2022-23 are well within the provisions of Act.
- 3.15.40 However, the full Bench of Tribunal in Appeal No.120 of 2009 relating to Parallel Operation Charges (Grid Support Charges) in Chhathisgarh by Order dated 18.02.2011 stated that the State Commission is empowered to deal with the question as to whether the levy of parallel operation charges is permissible or not. This aspect has been dealt with by this Tribunal in judgment dated 12.09.2006 in Appeal No.99 of 2006. In the said judgment, this Tribunal upheld the levy of parallel operation charges by the State Commission. Further, the Apex Court of India by its judgment dated 29.11.2019 in Civil Appeal No 8969 of 2003 (Grid Support Charges Batch matters) held that the State Electricity Regulatory Commission is vested with the power to determine the grid support charges.
- 3.15.41 The licensee has not denied CPPs access to grid or availing of parallel operation benefits.
- 3.15.42 It is clarified that the captive generators who intended to use and benefit from parallel operation need to pay the Grid Support charges, in line with the justifications mentioned in the previous sections.

- 3.15.43 The Captive Power Plants continue to get connected to the licensee network system and operate their plant in synchronism with the grid due to the following reasons.
- 3.15.44 The fluctuations in the load are absorbed by the utility grid in the parallel operation mode. This will reduce the stresses on the captive generator and equipment.
- 3.15.45 Fluctuating loads of the industries connected in parallel with the grid inject harmonics into the grid. The current harmonics absorbed by the Captive Power Plants continue to get connected to the licensee network system and operate their plant in synchronism with the grid due to the following reasons.
- 3.15.46 The fluctuations in the load are absorbed by the utility grid in the parallel operation mode. This will reduce the stresses on the captive generator and equipment.
- 3.15.47 Fluctuating loads of the industries connected in parallel with the grid inject harmonics into the grid. The current harmonics absorbed by the utility grid is much more than that by the CPP generator. These harmonics flowing in the grid system are harmful to the equipment and are also responsible for polluting the power quality of the system.
- 3.15.48 Negative phase sequence current is generated by unbalance loads. The magnitude of negative phase sequence current is much higher at the point of common coupling than at the generator output terminal. This unbalanced current normally creates a problem of overheating of the generators and other equipment of CPP, if not running in parallel with the grid. When they are connected to the grid, the negative phase sequence current flows into the grid and reduces stress on the captive generator.
- 3.15.49 Captive power plants have higher fault level support when they are running in parallel with the grid supply. Because of the higher fault level, the voltage drop at the load terminal is less when connected with the grid.
- 3.15.50 In case of faults in a CPP generating unit or other equipment, bulk consumers can draw the required power from the grid and can save their production loss.
- 3.15.51 The grid provides stability to the plant to start heavy loads like HT motors.

- 3.15.52 The variation in the voltage and frequency at the time of starting large motors and heavy loads, is minimized in the industry, as the grid supply acts as an infinite bus. The active and reactive power demand due to sudden and fluctuating load is not recorded in the meter.
- 3.15.53 The impact created by sudden load throw off and consequent tripping of CPP generators on over speeding is avoided with the grid taking care of the impact. Thus, the grid acts as the supporting system for the CPPs for its successful operation in terms of electrical performances. However, the grid support being an ancillary service extended by the licensee to the consumers, it has to be charged to the consumers who utilize the grid support.
- 3.15.54 The full Bench of Tribunal in Appeal No.120 of 2009 relating to Parallel Operation Charges (Grid Support Charges) in Chhattisgarh by Order dated 18.02.2011 stated that the State Commission is empowered to deal with the question as to whether the levy of parallel operation charges is permissible or not. This aspect has been dealt with by this Tribunal in judgment dated 12.09.2006 in Appeal No.99 of 2006. In the said judgment, this Tribunal upheld the levy of parallel operation charges by the State Commission. Further, the Apex Court of India by its judgment dated 29.11.2019 in Civil Appeal No 8969 of 2003 (Grid Support Charges Batch matters) held that the State Electricity Regulatory Commission is vested with the power to determine the grid support charges. Hence, the levy of grid support charges is well within the provisions.
- 3.15.55 The grid support charges are not for drawl of power from the Distribution Licensee, but for utilization of parallel operation benefits by captive generators.
- 3.15.56 The licensee has not denied CPPs access to the network; the captive generators who intended to use and benefit from parallel operation need to compensate through Grid Support charges.
- 3.15.57 The advantages of parallel operation with the grid are benefited by the CPPs in addition to other facilities of other consumers. In view of the additional benefits than the normal other consumers, the CPPs who intended to use and benefit from parallel operation need to compensate through Grid Support charges. The said Grid Support charges are also one of the components in Retail Supply Tariffs and these charges are proposed to levy on the CPPs who intended to

use and benefit from parallel operation. Hence the proposal of Grid Support charges for FY 2022-23 are well within the provisions of Act.

3.15.58 The above benefits are elaborated by TSDISCOMs during the GCC meetings with the stakeholders.

3.15.59 The proposed grid support charges of 50% of 475 per KVA per month during the FY 2022-23 RST filings, was supposed to be levied on differential capacity only i.e., difference between CPP capacity and CMD with Distribution Licensee. Whereas in other states, these grid support charges are calculated in entire capacity of Captive Power Plant (CPP).

3.15.60 Considering the interest of all stakeholders involved, the licensee has revised its GSC proposal

Categorisation of IIT Hyderabad

3.15.61 Under the purview of the Commission. TSDISCOMs have already submitted their objections/comments in this matter as sought by the Commission.

Categorisation of Telecom Industry

3.15.62 As per the definition stated in the Tariff Order 2022-23 for LT-Category III “Industrial purpose shall mean, supply for purpose of manufacturing, processing and/or preserving goods for sale, cold storage/cold storage godowns but shall not include shops, business houses, offices, public buildings, hospitals, hotels, hostels, choultries, restaurants, clubs, theaters, cinemas, bus stations, railway stations and other similar premises, notwithstanding any manufacturing, processing or preserving goods for sale.”

3.15.63 As there is no manufacturing, processing and preserving goods activity, Telecom towers are being categorised under LT-II-Non-Domestic/Commercial category.

3.15.64 Further to the above it is to inform that LT-II Non-Domestic/Commercial category is applicable for

- a) Consumers who undertake Non-Domestic activity.
- b) Consumers who undertake Commercial activity.
- c) Consumers who do not fall in any other LT category i.e., LT-I, LT-III to LT-IX categories.
- d) Consumers who avail supply of energy for lighting, fans, heating, air conditioning and power appliances in Commercial or Non-Domestic

premises such as shops, business houses, offices, public buildings, hospitals, hostels, choultries, restaurants, clubs, theatres, cinema halls, bus stands and attached offices, railway stations, timber depots, photo studios, printing presses, all servicing & repairing centres (other than that of TSERC), bus depots (other than that of TSERC), laundries, warehouses, godowns (other than cold storage godowns) etc.

e) Educational institutions run by individuals, Non-Government Organizations or Private Trusts including student hostels of such educational institutions.

3.15.65 It means LT-II is not only applicable for commercial activity but also for the activities which are not covered in any other LT categories. As Cell towers business does not fall under any of LT-I, LT-III, LT-IV, LT-V, LT-VI & LT-VII categories, it comes under LT-II category.

3.15.66 It is to be noted that retail supply tariff is a sensitive issue and it involves consideration of multiple factors including consideration of ensuring financial viability of the sector. It is always a challenging task to the regulatory authorities to balance the interests of several stakeholders involved.

3.15.67 TSDISCOMs submit that electricity connections are being provided to the consumers timely without any delay.

3.15.68 As regards to the Recommendation of Working Group to FOIR, TSDISCOMs observed that the quoted recommendation by objector was not one of the recommendations proposed by the working group to the FOIR but was one of the issues appraised to the Working Group which were ultimately not considered by the Working Group.

3.15.69 The relevant extracts of the Report are as follows:

“The Working Group was also apprised of some issues that if addressed, can help in rapid infrastructure creation and faster rollout of 5G services. The same have been listed below for consideration of FOIR.

(iii) *Telecom sites should be provided electricity connection under Utility/ Industrial tariff. SERCs may be requested to incorporate the same in their tariff orders.”*

3.15.70 Telecom towers are being categorised under LT-II Non-Domestic/Commercial category by TSDISCOMs as per the terms and conditions specified in RST Order for FY 2022-23.

3.15.71 In this regard, TSDISCOMs submit that Objectors shall not misrepresent the facts before the Commission and other stakeholders.

3.15.72 It is to be noted that the Recommendations provided by various bodies are not binding upon the utilities or the Electricity Regulatory Commissions which function on the principles of Electricity Act.

3.15.73 Categorization of activity may differ from one state to another state based on the policies of the state government and local conditions. This has been affirmed by Hon'ble Appellate Tribunal of Electricity in Appeal No.265 of 2014

3.15.74 TSDISCOMs request the Commission to kindly retain the existing category classification considering the above replies provided against the detailed objections.

Commission's View

Wholly Religious Places

3.15.75 The Commission has considered the information submitted by TSDISCOMs for projecting the sales and revenue for FY 2023-24 and thus arrived at revenue gap.

HMWSSB Tariff

3.15.76 The Commission is in receipt of GoTS direction u/s 108 of the Electricity Act, 2003 vide letter No.630/Power.I/2022, dated 06.03.2023 as

"to extend the concessional tariff under Category V(B) to all the pumping stations of HMWSSB, as was extended in the earlier years on par with the concessional tariff extended to HMRL whichever is earlier."

3.15.77 As such, the applicability tariff of HMWSSB for FY 2023-24 will be on par with the tariff of HMRL subject to the subvention commitment being agreed to and extended from time to time by the Government of Telangana.

Hospitals and Medical Institutes categorisation

3.15.78 The Commission is not inclined to accept the request of the stakeholder.

Green Energy Certificate

3.15.79 Having considered the representation of the stakeholders, the Commission extends the Green Tariff to all categories of consumers both HT & LT, who opt for it at the rate of Rs.0.66/unit over and above the tariff of respective category. TSDISCOMs are directed to issue Green energy certificate on monthly basis clearly mentioning the green attributes.

Grid Support Charges

3.15.80 By considering stakeholders suggestions, the Commission has decided to again refer the matter of 'Grid Support Charges/Parallel Operation Charges' to the 'Grid Coordination Committee' for undertaking detailed analysis as the licensees proposed a different methodology and applicability as that proposed earlier in RST for FY 2022-23 for which Grid Coordination Committee has already submitted its final report.

Categorisation of IIT Hyderabad

3.15.81 The Commission is not inclined to accept the request of the stakeholder.

Categorisation of Telecom Industry

3.15.82 The Commission is in agreement with the submissions of TSDISCOMs and hence the request of the stakeholder is not accepted.

3.15.83 The Commission while determining the ARR and retail supply tariffs for FY 2023-24 is guided by the provisions of the Act, Tariff Policy, 2016 and provisions of relevant Regulations. The Commission in Chapter 6 of the Order has dealt in detail the tariff proposals of TSDISCOMs and the Commission's views thereon.

3.16 RECATEGORISATION & BILLING RELATED ISSUES

Stakeholders' Submissions

3.16.1 The following are the submissions on billing related matters:

- a) Small dairies/animal farming are to be included under agriculture category.
- b) Connections which are not being used are to be disconnected.
- c) ToD rebates to be provided in off peak timings.
- d) Hair cutting salons, Dhobi ghats, etc. are being provided power supply free of cost upto 250 units. But the implementation is not being done properly. TSDISCOMs staff are not giving the connections even after multiple requests.
- e) Revise the categorization of laundries to LT-IV(A) category.
- f) Revise the categorization of Hair cutting Salons from LT-II(A) category to LT-II(D).
- g) All the permissions were received for establishment of Stone Crushers and supply was received from TSNPDCL on 14.07.2017. However, on account of issue with licenses it has only run for 1 month and not run from then. TSNPDCL has levied bill of around 9 Lakh on 15.09.2018 and at last raised bill of 40 lakh. When went to CGRF & Ombudsman, the decision is not in favour.

- h) Industry of the objector exceeded 0.08 kVA load in a month. Since then, the bill is received under HT billing. CGRF order though in favour of the consumer is not being implemented.
- i) Though the consumer is availing power supply at 33kV connection, they are being billed under 11 kV. They have requested to consider for relaxation under GTCS.

TSDISCOMs Replies

- 3.16.2 Recategorization of categories is under the purview of the Commission.
- 3.16.3 ToD rebates is already applicable to HT consumers as per RST Order for FY 2022-23.
- 3.16.4 TSDISCOMs follow GTCS for cases where contract load is exceeded.
- 3.16.5 Regarding relaxations of GTCS clauses, the matter does not pertain to the objective of this Public Hearing which is limited to ARR & Tariff filings for FY 2023-24 and Retail Supply Business True up filings for the period from FY 2016-17 to FY 2022-23.
- 3.16.6 TSDISCOMs have taken note of other objections and shall take necessary action.

Commission's View

- 3.16.7 The Commission is not inclined to accept the submissions of the stakeholders regarding recategorization. The other submissions are taken note of and TSDISCOMs have to strictly adhere to the provisions of the Regulations, GTCS and Tariff Order in force.

3.17 OTHER ISSUES

Stakeholders' Submissions

ACD Charges

- 3.17.1 TSDISCOMs are collecting Development charges and additional consumption deposit (ACD) charges without taking permission from the Commission and without conducting public hearing. ACD shall be calculated in proportion to the increase in consumption of previous year over the preceding year.

Improving the Performance of TSDISCOM:

- 3.17.2 Online paperless system to be implemented in all TSDISCOMs offices i.e., from corporate office to field level. TSDISCOMs officers only should provide the equipment from their stores.

- 3.17.3 TSDISCOMs should collect the subsidy amount in advance from government (for categories like hair cutting salons, SC-ST colonies, etc.).
- 3.17.4 Government pending dues from LIS, Panchayat offices, etc., Rs.20,871 crore (both TSDISCOM). TSDISCOMs should collect the pending dues from government organizations and private organizations.
- 3.17.5 Communication of issues being faced by consumers is not being done properly by field staff (linemen etc.) to higher officials.
- 3.17.6 Measures to be taken that complaints are registered and someone is held accountable.
- 3.17.7 Biometric/Face ID attendance to be made available for field staff.

Consumer Awareness:

- 3.17.8 Discom officials should improve awareness in villages regarding how much they have to pay in DDs for service connection. Awareness to be created among consumers regarding use of mobile App and toll-free numbers. Pallegathi, Pattanapragathi, etc. schemes should be implemented properly in village level.

TSDISCOMs Replies

ACD Charges

- 3.17.9 Consumer has to pay two months average bill towards security deposit as per the Regulation No.6 of 2004. Further the additional consumption deposit is calculated based on the previous year two months average consumption duly adjusting the already paid initial security deposit and security deposit paid during regularization of additional load.
- 3.17.10 TSDISCOMs are adjusting the interest on the security deposit in the CC bills of the consumers based on the RBI interest rates as per the said Regulation.

Improving the Performance of TSDISCOMs

- 3.17.11 TSDISCOMs have created a mobile app for all activities, including complaint resolution. Consumers are also using the mobile app for online complaint registration and status, bill view and online payment etc.
- 3.17.12 Also, Complaints are registered through toll free number, and they are given a complaint number and are assigned to concerned officers. TSDISCOMs strive

to bring more digitization to ensure ease in resolving consumer concerns. TSDISCOMs have taken note of the objection and shall take necessary action.

3.17.13 TSDISCOMs are regularly pursuing with the GoTS for release of dues of LIS and other government departments. TSDISCOMs are ensuring that there are no dues payable by private HT consumers.

3.17.14 TSDISCOMs are pursuing matters with government departments for collection of arrears from the government departments. TSDISCOMs are implementing the following steps for reduction of AT&C losses to bring down below 15%.

3.17.15 Augmentation of Power Transformer Capacity, New Substations and Capacitor banks, Bifurcation of over load feeders are being taken up.

3.17.16 Prepaid Meters to all Government Services. Periodical inspection of services to reduce the Commercial Losses. TSSPDCL receives timely payments towards the subsidies from the State Govt on a monthly basis.

Consumer Awareness:

3.17.17 TSDISCOMs are already undertaking awareness programmes. However TSDISCOMs have taken note of the objection and shall take necessary actions.

3.17.18 Consumers can use the mobile app for online complaint registration, to know the status of their application, view their bill, make online payments etc

Commission's View

ACD Charges

3.17.19 The Commission has taken note of the submissions of the stakeholders and TSDISCOMs. The Commission directs TSDISCOMs to follow the Regulation No.6 of 2004 and issue notices before levying ACD.

Improving the Performance of TSDISCOMs

3.17.20 TSDISCOMs are directed to create awareness among consumers by giving wide publicity about the mobile app and toll free number. The consumers should also use the mobile app made available by TSDISCOMs.

3.17.21 With regard to the higher distribution losses in certain areas, the Commission directs TSDISCOMs to take strict measures to reduce the distribution losses and submit the quarterly report on the measures taken. The TSDISCOMs are

also directed to ensure the timely availability of quarter-wise energy audit reports in public domain.

- 3.17.22 TSDISCOMs are directed to conduct awareness programs among the consumers regarding safety standards, use of electricity to avoid electrical accidents.

Operational Issues

Stakeholders' Submissions

- 3.17.23 TSDISCOMs are showing their line losses, theft, etc. under Agri consumption. DTR metering needs to be done for prudential analysis of Agri consumption. TSDISCOMs should reduce their line losses in areas where the losses are more than 20%.
- 3.17.24 DTR cost not to be included in ORC amount. ORC – as per Reg 4 of 2013, DTRs not be included in estimates. Request not to levy ORC on farmers.
- 3.17.25 Transportation of DTRs, poles to be done by TSDISCOMs officers only. Should not be forced on farmers. Awareness to be created among consumers regarding use of mobile App and toll-free number.
- 3.17.26 24 hours supply is not required for farmers but reliable supply is required. There are no AB switch at the DTRs. Old poles and loose lines are to be rectified. Whereas some other objectors have brought to the notice of the Commission that 24x7 free supply for Agriculture is not being implemented properly. The power supply to the consumers in villages is unreliable.
- 3.17.27 Automatic starters can be removed if power supply is reliable without interruptions. Delay in repairing of the DTRs, leading to loss to farmers.
- 3.17.28 Compensation procedure while installing EHT lines are not being followed.
- 3.17.29 Address the issue of Electric lines are passing over the houses.
- 3.17.30 DTR failures have to be addressed in less than 48 hrs, like 24 hrs except in remote areas.
- 3.17.31 Display of toll-free numbers has to be done at all the substations.
- 3.17.32 Earthing is not done in certain regions which is leading to accidents.

- 3.17.33 Lose lines in village lead to fatal accident in August 2022. Ex-gratia amount is not yet received.
- 3.17.34 TSDISCOMs have taken note of the objection and shall take necessary action.
- 3.17.35 As the issues raised mostly do not relate to the tariff determination, the same are not being examined in detail now. The Commission will in appropriate case examine and issue suitable orders at appropriate time.

TSDISCOMs Replies

- 3.17.36 Shifting of Transformers to be done. Compensation for installation of EHT lines in Under the purview of TS Transco. In case of new DTR requirement for HT, LT (where applicable), Rs.70,000/- is borne by TSDISCOM, rest of the expenditure has to be borne by consumer. In case of LT line requirement only, Rs.45,000/- is borne by TSDISCOM.
- 3.17.37 For failed DTRs, dedicated SPM vehicles and sub-division vehicles, are being deployed by TSDISCOM. TSSPDCL has taken note of suggestion of Curtailment of supply to agricultural consumers in peak timings. However, TSSPDCL is committed to the GoTS policy towards 24x7 free power supply.
- 3.17.38 Automatic Starters are being removed as per the direction of the Commission. This will help in peak load management and judicious use of electricity.
- 3.17.39 TSDISCOMs have taken note of this objections and will look into these matters in further detail.

Commission's View

- 3.17.40 The Commission reiterates the direction issued in Retail Supply Tariff Order 2022-23 on achieving 100% Agricultural DTR metering within a period of 2 years and to furnish the quarterly progress on the status of implementation in this regard.
- 3.17.41 Government's initiative is to provide 24-hours power supply for agricultural consumers, TSDISCOMs are directed to do away with the usage of automatic starters so as to regulate the consumption of electricity. A detailed report of the same shall be submitted by 31.07.2023.
- 3.17.42 TSDISCOMs are directed to address the operational issues in line with the Standards of Performance Regulation No.5 of 2016.

Chapter-4 Aggregate Revenue Requirement for FY 2023-24

4.1 SALES PROJECTION FOR FY 2023-24

Discom' Submissions

4.1.1 The TSDISCOMs adopted two different methods while submitting the proposals namely, trend method and end-user methodology for forecasting the sales in various categories. The trend method has been used predominantly except in the case of HT-I, HT-IV and HT-V categories, for which the end-user method has been adopted. The trend-based approach has to be adjusted for judgment on the characteristics of the specific consumer groups/categories. Therefore, sales forecast has been developed primarily based on analysis of historical data for the period FY2016-17 to H1 of FY2022-23 and additional energy requirement estimated under certain categories for 2023-24.

4.1.2 The following inputs have been taken to arrive at sales projections for H2 of FY2022- 23 and FY2023-24.

- Actual Sales till September 2022.
- Category-wise CAGR (Compound Annual Growth Rate) trend during the last 5 years, 4 years, 3 years, 2 years, 1 year and growth rate of first half of FY2022-23 over first half of FY2021-22 have been considered for projecting sales for second half of the current year FY2022-23 and ensuing year FY2023-24.
- Estimation of Energy requirement for H2 of FY2022-23 and FY2023-24 for upcoming Metro Rail loads as per the information received from Hyderabad Metro Rail Ltd, requirement of new traction loads as requested 24 by South Central Railways respectively. Estimation of additional energy requirement for major Industrial loads yet to be released in ensuing year is considered.
- Estimation of Energy requirement for FY2023-24 in the newly introduced category LT-IX & HT-IX for Electric Vehicles Charging stations based on the services released in FY2021-22 and the information of potential locations identified for setting up of EV Charging stations shared by TSREDCO.

4.1.3 TSSPDCL and TSNPDCL have projected the consumer category-wise sales of 52352.87 MU and 21265.36 MU respectively for FY 2023-24.

Commission's View

4.1.4 The Commission has considered growth rate of second half of 2021-22 over first half of 2021-22 has been considered for projecting sales for second half of

the current FY2022-23 and ensuing FY2023-24. The approach adopted by the Commission in approving the consumer category-wise sales for FY 2023-24 is detailed hereunder.

LT Sales

4.1.5 For all LT categories (except LT-V, LT-VIII and LT-IX), the Commission has considered the sales of 2022-23 arrived as mentioned above and escalated the same by 5-year CAGR (FY 2022-23 upon FY 2017-18) for the respective category to arrive at the sales for FY 2023-24. For the consumer categories wherein the 5-year CAGR (FY 2022-23 upon FY 2017-18) is on negative side, the Commission has considered the sales for those categories at the same level of FY 2022-23.

4.1.6 For LT-V category, the approach adopted by the Commission is as under:

- a) The Commission has analysed details of number of service connections, connected load and consumption for the period from FY 2015-16 to FY 2022-23.
- b) Based on the same, the Commission found that the specific consumption of agricultural services i.e., kWh/HP/annum is significantly varying between TSSPDCL and TSNPDCL.
- c) It has been the submission of TSDISCOM that the consumption under LT-V category would not further increase given the fall in use of borewells and a rise in canal-based cultivation in view the additional loads to be added through Lift Irrigation schemes in FY 2022-23 and FY 2023-24 .
- d) Further in the year FY 2021-22, there was a marginal drop of 0.17% in energy sales of this category. Corresponding to this, in order to determine the agricultural consumption in FY 2022-23 and FY 2023-24, TSDISCOMs are of the view that the agricultural consumption would come down from the level of sales recorded in FY 2021-22.
- e) Therefore, the Commission has approved the sales for FY 2023-24 considering the connected load data as submitted by the Petitioner and operational period of 180 days, 12 hours and 10 hours per day for TSSPDCL and TSNPDCL respectively. The specific consumption based on the above criteria works out to be in line with that of sample DTRs.

4.1.7 For LT-VIII and LT-IX categories, the sales have been considered the same as claimed by TSDISCOM.

HT Sales

4.1.8 For HT-II, HT-III and HT-VI categories, the Commission has considered the actual sales for FY 2022-23 and escalated the same by 5-year CAGR (FY 2022-23 upon FY 2017-18) for the respective category to arrive at the sales for FY

2022-23. For the consumer categories wherein the 5-year CAGR (FY 2022-23 upon FY 2017-18) is on negative side, the Commission has considered the sales for those categories at the same level of FY 2022-23.

- 4.1.9 For all the remaining categories, the Commission has analyzed the CMD and sales for FY 2021-22 vis-a-vis the projected CMD and sales for FY 2023-24. The Commission sought the justification for the categories wherever anomalies have been observed and TSDISCOMs have submitted the satisfactory justification for the same except for HT-IV(A) category. Therefore, for the categories except HT-IV(A), the Commission has approved the sales for FY 2023-24 based on the projected CMD.
- 4.1.10 The TSDISCOMs have submitted the voltage-wise details of LIS and the corresponding sales for the period from FY 2015-16 to FY 2022-23 (upto September & December by TSSPDCL and TSNPDCL respectively). The TSDISCOMs submitted that the sales projection for HT-IV(A) category for FY 2023-24 has been submitted based on the information furnished by the irrigation department.
- 4.1.11 Based on the information available the Commission has approved the sale projections for HT-IV(A) sales at 11 kV and 33 kV based on projected CMD while for HT-IV(A) at 132 kV and above, the Commission has considered the actual CMD as on 30.09.2022 for TSSPDCL and 30.11.2022 for TSNPDCL.
- 4.1.12 Accordingly, the consumer category-wise sales projections approved by the Commission for FY 2023-24 is as shown in the Table below:

Table 4.1: Category-wise sales projections approved by the Commission for FY 2023-24

(MU)

Category		FY 2023-24		
		TSSPDCL	TSNPDCL	TSDISCOM
LT Category		27248.48	13941.56	41190.04
LT-I	Domestic	11346.06	4160.67	15506.72
LT-II	Non-Domestic/Commercial	2974.84	780.43	3755.27
LT-III	Industry	847.17	137.37	984.54
LT-IV	Cottage Industries	9.50	8.68	18.18
LT-V	Agricultural	11410.74	8399.97	19810.71
LT-VI	Street Lighting & PWS Schemes	454.29	375.71	830.01
LT-VII	General Purpose	103.75	69.41	173.16
LT-VIII	Temporary Supply	100.49	8.07	108.56
LT-IX	Electric Vehicle Charging Stations	1.64	1.25	2.90
HT Category		25689.86	7188.80	32878.66
HT Category at 11 kV		6865.33	2410.79	9276.12

HT-I	Industry (General)	4401.71	1033.86	5435.57
HT-I(B)	Ferro Alloys	0.41	0.00	0.41
HT-II	Others	1885.74	187.98	2073.72
HT-III	Airports, Railway stations and Bus stations	4.05	7.83	11.87
HT-IV(A)	Irrigation and Agriculture	38.83	23.15	61.98
HT-IV(B)	CPWS Schemes	155.21	159.65	314.86
HT-VI	Townships and Residential Colonies	202.26	7.73	209.99
HT-VII	Temporary Supply	170.56	25.34	195.90
HT-VIII	RESCOs	0.00	965.26	965.26
HT-IX	Electric Vehicle Charging Stations	6.55	0.00	6.55
HT Category at 33 kV		8554.08	691.97	9246.05
HT-I	Industry (General)	6733.34	211.36	6944.69
HT-I(B)	Ferro Alloys	37.08	73.18	110.26
HT-II	Others	1302.04	8.52	1310.56
HT-IV(A)	Irrigation and Agriculture	15.48	15.12	30.60
HT-IV(B)	CPWS Schemes	277.08	359.90	636.98
HT-VI	Townships and Residential Colonies	145.97	20.59	166.56
HT-VII	Temporary Supply	43.08	3.32	46.40
HT Category at 132 kV		10270.46	4086.04	14356.50
HT-I	Industry (General)	5214.14	651.85	5866.00
HT-I(B)	Ferro Alloys	211.23	0.00	211.23
HT-II	Others	40.39	3.05	43.43
HT-III	Airports, Railway stations and Bus stations	55.76	0.00	55.76
HT-IV(A)	Irrigation and Agriculture	3790.35	2755.58	6545.93
HT-IV(B)	CPWS Schemes	282.28	27.31	309.59
HT-V(A)	Railway Traction	566.31	547.58	1113.89
HT-V(B)	HMR	110.00	0.00	110.00
HT-VI	Townships and Residential Colonies	0.00	100.67	100.67
HT-VII	Temporary Supply	0.00	0.00	0.00
Total		52938.34	21130.36	74068.70

4.1.13 The monthly consumer category-wise sales approved by the Commission for FY 2023-24 are enclosed at Annexures III to V.

4.2 ENERGY REQUIREMENT FOR FY 2023-24

TSDISCOMs' Submissions

4.2.1 The voltage-wise distribution losses for FY 2023-24 have been considered as approved by the Commission in the MYT Order for Distribution Business for the 4th control period from FY 2019-20 to FY 2023-24. Accordingly, the distribution losses for LT, 11 kV and 33 kV have been considered as 4.75%, 4.10% and 3.60% respectively for TSSPDCL and 4.75%, 3.77% and 3.48% respectively for TSNPDCL.

4.2.2 The transmission losses of Transmission Corporation of Telangana Limited (TSTransco) have been considered as 2.50%, the same as approved by the

Commission in the MYT Order for TSTransco for the 4th control period from FY 2019-20 to FY 2023-24.

- 4.2.3 The inter-state transmission system (ISTS) losses have been estimated to be 4.02% based on the notified losses. No ISTS losses have been considered for bilateral/inter-state purchases wherein landed power purchase cost is considered at TSTransco periphery. The transmission losses for purchase from Chhattisgarh State have been considered as 3.00% as per the trajectory approved by the Chhattisgarh State Electricity Regulatory Commission (CSERC).
- 4.2.4 TSSPDCL and TSNPDCL have projected the power purchase requirement of 59020.29 MU and 24092.77 MU respectively for FY 2023-24.

Commission's View

Energy Requirement

- 4.2.5 The energy requirement for each TSDISCOM has been computed by grossing up the approved sales at a particular voltage level with the approved percentage loss for that voltage level for arriving at the energy input for the next higher voltage level of Distribution Network. Thereafter, the losses external to the distribution system have been considered for arriving at the total energy requirement for FY 2023-24.

Distribution Losses

- 4.2.6 The Commission has considered the voltage-wise distribution losses approved for FY 2023-24 in the Order dated 29.04.2020 on approval of Wheeling Tariffs for the Distribution Business for the 4th control period from FY 2019-20 to FY 2023-24 read with the Amendment Order dated 01.03.2021.

Transmission Losses

- 4.2.7 The Commission has considered the approved losses of 2.50% for FY 2023-24 in the Order dated 20.03.2020 on approval of Transmission Tariff for the 4th control period from FY 2019-20 to FY 2023-24. The Commission has considered the Inter-State Transmission System (ISTS) losses of 4.02%.
- 4.2.8 The Commission has considered the losses attributable to Chhattisgarh State Power Transmission Company Ltd. (CSPTCL) network for procurement from Chhattisgarh State Power Distribution Company Ltd. (CSPDCL) as 3.00%.

4.2.9 The energy requirement approved by the Commission for FY 2023-24 is as shown in the Tables given below:

Table 4.2: Energy requirement for FY 2023-24 approved by the Commission

Particulars	Units	Approved for FY 2023-24		
		TSSPDCL	TSNPDCL	Total
Energy Sales	MU	52938.34	21130.36	74068.70
LT, 11 kV and 33 kV	MU	42667.88	17044.32	59712.20
EHT	MU	10270.46	4086.04	14356.50
Energy losses		7145.39	2942.26	10087.65
Distribution System losses	MU	4576.19	2026.80	6602.99
Transmission System losses	MU	2569.20	915.46	3484.66
Energy losses		11.89%	12.22%	11.99%
Distribution System losses		9.69%	10.63%	9.96%
Transmission System losses		4.28%	3.80%	4.14%
Input to Distribution System	MU	47244.07	19071.12	66315.19
Power energy requirement	MU	60083.73	24072.62	84156.35

4.3 ENERGY AVAILABILITY FOR FY 2023-24

TSDISCOM' Submissions

4.3.1 The power requirement of TSDISCOMs is met from Power Purchase Agreements (PPAs) with various sources which include the following:

- Telangana State Power Generation Corporation Limited (TSGenco)
- Central Sector Generating Stations (NTPC Ltd., NLC India Limited & Nuclear Power Corporation of India (NPCIL))
- Singareni Collieries Company Limited (SCCL)
- Chhattisgarh State Power Distribution Company Limited (CSPDCL)
- Independent Power Producers (IPPs)
- Bi-lateral/inter-state purchases

4.3.2 The TSDISCOMs have projected the energy availability for FY 2023-24 considering the following:

- The contracted capacities from TSGenco, SCCL, CSPDCL and IPPs have been considered as per the PPAs.
- The contracted capacity from NTPC Ltd. and NPCIL has been considered as per the latest share allocations from the respective stations.
- The energy availability from sources other than NCE sources has been considered based on the availability projections furnished by the respective source for its generating stations.
- The energy availability from NCE sources, the energy availabilities for FY 2021-22 and H1 FY 2022-23, in line with the actual energy dispatched from those stations has been considered.

4.3.3 The TSDISCOMs have projected the total energy availability of 96553.85 MU for FY 2023-24

Commission's View

- 4.3.4 The Commission has examined the submissions of TSDISCOMs regarding the projections of energy availability for FY 2023-24. The basis of projection of the quantum of energy available from various sources for FY 2023-24 are detailed in the paragraphs below.

TSGenco – Thermal Generating Stations

- 4.3.5 The share allocation to Telangana State from thermal generating stations of TSGenco is as shown below:

Table 4.3: Share allocation to Telangana State from thermal generating stations of TSGENCO

Sl. No.	Name of the Station	Installed Capacity	Telangana State Share	
		MW	%	MW
1	KTPS-V	500.00	100%	500.00
2	KTPS-VI	500.00	100%	500.00
3	KTPS-VII	800.00	100%	800.00
4	RTS-B	62.50	100%	62.50
5	KTPP-I	500.00	100%	500.00
6	KTPP-II	600.00	100%	600.00
7	BTPS (I to IV)	1080.00	100%	1080.00
8	YTPS (I & II)	1600.00	100%	1600.00
	Total Thermal	5642.50		5642.50

- 4.3.6 The Commission has considered one unit of YTPS to be commissioned in February 2024 and not considered the second unit of YTPS to be commissioned up to March, 2024.
- 4.3.7 The Commission has observed that such energy projections have been made considering the norms specified in the Regulation No.1 of 2019. Accordingly, the Commission has considered the energy availability projections furnished by TSGENCO for FY 2023-24.
- 4.3.8 The energy availability projections approved by the Commission from TSGENCO thermal stations is as shown below:

Table 4.4: Energy availability projections from thermal generating stations of TSGENCO approved by the Commission

MU

Sl. No.	Name of the Station	FY 2023-24	
		Claimed	Approved
1	KTPS-V	3197.39	3197.39
2	KTPS-VI	3250.14	3250.14
3	KTPS-VII	5659.53	5659.53

Sl. No.	Name of the Station	FY 2023-24	
		Claimed	Approved
4	RTS-B	370.60	370.60
5	KTPP-I	3250.08	3250.08
6	KTPP-II	3921.22	3921.22
7	BTPS	7378.29	7378.29
8	YTPS	2746.68	905.50
	Total Thermal	29773.93	27932.75

Hydel Generating Stations (TSGENCO and inter-State Stations)

4.3.9 The share allocation to Telangana State from Hydel generating stations is as shown below:

Table 4.5: Share allocation to Telangana State from Hydel generating stations

Sl. No.	Name of the Station	Installed Capacity	Telangana State Share	
		MW	%	MW
	Hydel Inter State			
1	Priyadarshini Jurala HEP	234.00	50%	117.00
	Sub Total	234.00		117.00
	Hydel TSGENCO			
1	Nagarjunasagar Complex	7*100.80 1*110.00 2*30.00	100.00%	875.60
2	SLBHES	900.00	100.00%	900.00
3	LJHES	240.00	100.00%	240.00
4	PCHES	120.00	100.00%	120.00
5	Pochampad II	9.00	100.00%	9.00
6	Small Hydel	54.00	100.00%	54.00
7	Mini Hydel	9.16	100.00%	9.16
	Sub Total	2207.76		2207.76
	Total Hydel	2441.76		2324.76

4.3.10 As per TSDISCOMs submissions TSGENCO has projected the availability from hydel generating stations to TSDISCOMs as 5414.51 MU. The Commission has approved the energy availability for hydel stations of TSGenco as 5676.65 MU.

4.3.11 The Commission, in the Retail Supply Tariff Order for FY 2018-19 had considered the Telangana State share of 45.27 MW and 31.04 MW in the inter-State projects namely Machkund PH and Tungabhadra PH. The TSDISCOMs have not considered any energy availability from these stations for FY 2023-24.

4.3.12 The Commission in Retail Supply Tariff Order dated 23.03.2022 in O.P.No.58 of 2021 & O.P.No.59 of 2021 has directed TSDISCOMs to actively pursue the matter with APGenco/APTransco for availing the State share in Machkund PH

and Tungabhadra PH. In compliance to the directive TSDISCOMs have filed that issue is being continuously addressed to APGENCO for extension of PPA and scheduling of power from Machkund PH and Tungabhadra PH.

4.3.13 The Commission reiterates its previous directive in Retail Supply Tariff Order for FY 2023-24 on the issue of actively pursuing the matter with APGenco/APTransco for availing the State share in Machkund PH and Tungabhadra PH.

4.3.14 The energy availability projections approved by the Commission from TSGenco hydel stations is as shown in the Table below:

Table 4.6: Energy availability projections from hydel generating stations approved by the Commission

MU

Sl. No.	Name of the Station	FY 2023-24	
		Claimed	Approved
	Hydel Inter State		
1	Priyadarshini Jurala HEP	169.72	169.72
	Sub Total	169.72	169.72
	Hydel TSGenco		
1	Nagarjunasagar Complex	2376.52	2495.35
2	SLBHES	2056.31	2159.13
3	LJHES	358.36	376.27
4	PCHES	309.28	324.74
5	Pochampad II	16.56	17.38
6	Small Hydel	124.32	130.53
7	Mini Hydel	3.36	3.52
8	Sub Total	5244.70	5506.93
9	Total Hydel	5414.41	5676.65

Central Generating Stations (NTPC, NLC & NPCIL)

4.3.15 The share allocation to Telangana State from the Central Generating Stations (CGS) is as shown in the Table below:

Table 4.7: Share allocation to Telangana State in Central Generating Stations

Sl. No.	Name of the Station	Installed Capacity	Telangana State Share	
		MW	%	MW
A	Thermal			
1	NTPC Ramagundam Stage I & II	2100	16.81	353.01
2	NTPC Ramagundam Stage III	500	17.70	88.50
3	NTPC Talcher TPS II	2000	10.87	217.40
4	NTPC Simhadri Stage I	1000	53.89	538.90
5	NTPC Simhadri Stage II	1000	25.68	256.80

Sl. No.	Name of the Station	Installed Capacity	Telangana State Share	
		MW	%	MW
6	NTPC Kudgi	2400	11.71	281.04
7	NLC TPS II Stage I	630	0.83	5.23
8	NLC TPS II Stage II	840	0.82	6.89
9	NNTPP	1000	6.19	61.90
10	Neyveli Expn I&II	920	1.3	11.96
11	TSTPP Unit 1	1600	85%	1360.00
12	NTECL Vallur TPS	1500	0.00%	0.00
13	NLC TamilNadu Power Ltd.	1000	0.00%	0.00
	Sub Total	16490		3181.63
B	Nuclear			
1	NPC Madras APS	440	5.01	22.04
2	NPC Kaiga APS Units 1 & 2	440	15.39	67.72
3	NPC Kaiga APS Units 3 & 4	440	16.37	72.03
4	NPC Kudankulam NPP Unit 2	1000	5.00	50.00
5	NPC Kudankulam	1000	0.43	4.30
	Sub Total	3320		216.09
C	Bundled Power (Coal)			
1	JNNSM Phase 1	85	53.89%	45.81
2	NTPC	200	100%	200.00
	Sub Total	285		245.81
	Total CGS	20095		3643.52

4.3.16 The TSDISCOMs have submitted the supporting documents to substantiate the availability projections furnished by CGS. The Commission has considered the available energy from each of the generating station/source considering the availability projections furnished by the generating stations and the share allocation to Telangana State in the respective generating stations. The Commission has not considered the capacity allocation from NTECL Vallur TPS and NLC Tamil Nadu Power Ltd. in line with the earlier directions of the Commission in RST Orders for FY 2017-18, FY 2018-19 and FY 2022-23.

4.3.17 The TSDISCOMs have projected energy availability from Telangana STPP (2X800 MW) based on the expected CODs – 1st January 2023 (Unit I), 1st July 2023 (Unit II) and the Commission has considered the energy availability as submitted by TSDISCOM. The Commission has considered the energy availability projections from bundled power the same as projected by TSDISCOM. The energy availability projections approved by the Commission is as shown below:

Table 4.8: Energy availability projections from CGS approved by the Commission

MU

Sl. No.	Name of the Station	FY 2023-24	
		Claimed	Approved
A	Thermal		
1	NTPC Ramagundam Stage I & II	2682.16	2682.16
2	NTPC Ramagundam Stage III	648.90	648.90
3	NTPC Talcher TPS II	1597.26	1597.26
4	NTPC Simhadri Stage I	4024.20	4024.20
5	NTPC Simhadri Stage II	1931.43	1931.43
6	NTPC Kudgi	2060.36	2060.36
7	NLC TPS II Stage I	35.15	35.15
8	NLC TPS II Stage II	46.31	46.31
9	NNTPP	381.74	381.74
10	Neyveli Expn Unit-I&II	70.77	70.77
11	TSTPP Unit 1	8247.29	8247.29
12	NTECL Vallur TPS	810.45	0.00
13	NLC TamilNadu Power Ltd.	1435.62	0.00
	Sub Total	23971.62	21725.55
B	Nuclear		
1	NPC Madras APS	56.44	56.44
2	NPC Kaiga APS Units 1 & 2	426.86	426.86
3	NPC Kaiga APS Units 3 & 4	462.54	462.54
4	NPC Kudankulam NPP Unit 2	334.80	334.80
5	NPC Kudankulam	27.88	27.88
	Sub Total	1308.51	1308.51
C	Bundled Power (Coal)		
1	JNNSM Phase 1	336.36	336.36
2	NTPC	1394.71	1394.71
	Sub Total	1731.07	1731.07
	Total CGS	27011.20	24765.13

APGPCL

4.3.18 The TSDISCOMs have not considered any energy availability from these stations for FY 2023-24.

Other conventional long-term/medium-term sources of power

4.3.19 The other conventional long-term power include Sembcorp Energy India Limited (erstwhile Thermal Power Tech) (SEIL) (LT-1), SEIL (LT-2), Singareni Thermal Power Plant (STPP) and CSPDCL.

4.3.20 The share allocation to Telangana State from these other conventional long-term/medium-term sources of power is as shown in the Table below:

Table 4.9: Share allocation to Telangana State from other long-term/medium-term sources of power

Sl. No.	Name of the Station	No. of Units	Unit size	Installed capacity/ Contracted capacity	TS Share	
		No.	MW	MW	%	MW
1	SEIL (LT-1)	-	-	500	53.89%	269.45
2	SEIL (LT-2)	-	-	570	100%	570
3	STPP	2	600	1200	100%	1200
4	CSPDCL	2	500	1000	100%	1000
	Total			3270		3039.45

4.3.21 The TSDISCOMs have submitted the supporting documents to substantiate the availability projections furnished by the respective generating stations.

4.3.22 The Commission has considered the energy availability projections from the approved sources the same as furnished by the respective generator. The summary of energy availability projections from other long-term sources approved by the Commission is as shown below:

Table 4.10: Energy availability projections from other long-term sources approved by the Commission

Sl. No.	Name of the Station	FY 2023-24	
		Claimed	Approved
1	SEIL (LT-1)	2127.91	2127.91
2	SEIL (LT-2)	4501.41	4501.41
3	STPP	8940.98	8940.98
4	CSPDCL	6824.73	6824.73
	Total	22395.03	22395.03

MU

Non-Conventional Energy Sources

4.3.23 The Commission has considered the capacity of non-conventional energy (NCE) sources based on the approved PPAs as shown in the Table below:

Table 4.11: Capacity available from NCE sources approved by the Commission

Sl. No.	Source	MW		
		TSSPDCL	TSNPDCL	Total
1	Biomass	6.00	6.00	12.00
2	Bagasse	0.00	46.70	46.70
3	Municipal waste	19.80	0.00	19.80
4	Industrial waste	7.50	7.50	15.00
5	Wind	128.10	0.00	128.10
6	Mini Hydel	1.55	2.00	3.55
7	Solar	1961.74	872.00	2833.74

8	Solar (JNNSM Phase I)	32.32	23.49	55.81
9	Solar (NTPC)	282.20	117.80	400.00
10	Solar (SECI)	282.20	117.80	400.00
11	Solar (NTPC CPSU) Ph-II Tr – I&II	1193.706	498.294	1692.00
12	Solar (NTPC CPSU) Ph-II Tr – III	518.5425	216.4575	735.00
13	SECI (ISTS Tr IX 1000 MW)	705.50	294.50	1000.00
	Total	5139.16	2202.54	7341.70

4.3.24 The TSDISCOMs have submitted the source-wise and generating station-wise actual generation details from NCE sources for the period from FY 2016-17 to FY 2022-23 (upto October). The Commission has considered the energy availability from all the NCE sources as projected by TSDISCOMs except for Municipal Solid Waste plants and Wind Power Plant. For MSW plant, TSSPDCL has considered the capacity of 24 MW for projecting the energy availability for FY 2023-24. The Commission has considered 19.8 MW capacity for arriving the availabilities for FY 2023-24. In case of Wind Power plants, TSSPDCL has projected the energy availability at 24.44% CUF. The Commission has considered the CUF 21% based on the actual generation for projecting the energy availability from Wind Power plants. The energy availability projections approved by the Commission from non-conventional energy sources is as shown below:

Table 4.12: Energy availability projections from non-conventional energy sources approved by the Commission

MU

Sl. No.	Name of the Station	FY 2023-24	
		Claimed	Approved
1	Biomass	20.13	20.13
2	Bagasse	46.95	46.95
3	Municipal waste	143.37	118.28
4	Industrial waste	71.35	71.35
5	Wind	273.83	235.65
6	Mini Hydel	1.46	1.46
7	Solar	5021.88	5021.88
8	Solar (JNNSM Phase I)	37.22	37.22
9	Solar (NTPC)	799.88	799.88
10	Solar (SECI)	791.99	791.99
11	Solar (NTPC, NHPC CPSU)Tr-III 1545 MW	716.61	716.61
12	Solar (NTPC CPSU)Tr-I &II 1692 MW	2813.35	2813.35
13	SECI (ISTS Tr IX 1000 MW)	1221.28	1221.28
	Total	11959.30	11896.03

4.3.25 Based on the above, the total energy availability projected by TSDISCOMs and that approved by the Commission for long-term and medium-term sources of power for FY 2023-24 is as shown in the Table below:

Table 4.13: Energy availability projections for FY 2023-24

MU

Sl. No.	Name of the Station	FY 2023-24	
		Claimed	Approved
1	TSGenco	35188.34	33609.40
2	CGS	27011.20	24765.13
3	Others	22395.03	22395.03
4	NCE	11959.28	11896.02
	Total	96553.85	92665.57

4.3.26 The monthly energy availability projections approved by the Commission is enclosed at **Annexure-VI**.

4.3.27 Therefore, as against the total power purchase requirement of 84156.35 MU, the energy availability projections approved by the Commission is 92665.57 MU thereby leaving a surplus of 8509.22 MU on yearly basis.

Short term purchases

4.3.28 Based on the projections of the monthly energy requirement and monthly energy availability, the Commission has worked out the deficit of 887.14 MU, and 618.28 MU in the months of April 2023 and March 2024 respectively thereby total deficit works out to 1505.42 MU. The deficit projected has been considered to be met from short-term purchases.

Sale of surplus power

4.3.29 Based on the projections of the monthly energy requirement and monthly energy availability, the Commission has worked out the total surplus of 8509.22 MU. Such surplus has been projected to occur in the months from May 2023 to February 2024. The Commission has considered the sale of surplus power during these months aggregating to 3724.05 MU.

4.4 MONTHLY MERIT ORDER DISPATCH

Commission's View

4.4.1 The monthly availability of energy from various thermal power stations along with variable costs as considered by the Commission has been used for monthly merit order dispatch for FY 2023-24. In the merit order dispatch, the monthly energy availability above technical minimum, from each generating

station was stacked up in ascending order of variable cost and dispatch of the stations were made, after dispatch of must run stations like NCE sources of energy, hydel stations and Nuclear Power Stations (NPC) to meet requirements of TSDISCOM. Accordingly, the merit order dispatch is drawn in such a manner that the cost of power procurement is minimized to the extent possible with reference to monthly information on availability and requirement.

4.5 COST OF POWER PURCHASE

TSDISCOM' Submissions

4.5.1 The power purchase cost for FY 2023-24 has been projected considering the following:

- The fixed cost and variable cost of conventional generating stations have been projected based on the actuals for FY 2021-22 and H1 FY 2022-23. For H2 FY 2022-23, the fixed cost projections in line with the actuals for H1 FY 2022-23 have been taken.
- The tariff of NCE sources has been actual costs paid to the various NCE stations for FY 2021-22 and H1 FY 2022-23. For H2 FY 2022-23 and FY 2023-24, TSDISCOMs have taken as received from respective stations.
- The actual energy charges paid to the respective orders for the year FY 2021-22 have been considered
- The other costs such as reactive charges, UI charges etc. have been projected based on actuals for FY 2021-22 and H1 FY 2022-23.

4.5.2 Based on the projected energy requirement and the energy allocation of each TSDISCOM, the net energy surplus or deficit is met via the Inter DISCOM purchase/sale.

Commission's View

TSGENCO

4.5.3 The Commission has considered the AFC and energy charges for the generating stations of TSGenco for FY 2023-24 as approved by the Commission in its Order dated 23.03.2023 in Mid-term Review (True-up) for FY 2019-22 and for revised generation tariff for FY 2022-24 for existing stations for 4th control period (2019-24). The cost of power procurement from TSGenco approved by the Commission is as shown below:

Table 4.14: Power procurement cost from thermal generating stations of TSGENCO for FY 2023-24

Sl. No.	Name of the Station	Claimed					Approved				
		Quantum	Fixed Cost	Variable Cost	Other Cost	Total	Quantum	Fixed Cost	Variable Cost	Other Cost	Total
		MU	Rs.crore	Rs.crore	Rs.crore	Rs.crore	MU	Rs.crore	Rs.crore	Rs.crore	Rs.crore
A	Thermal										
1	KTPS-V	3197.39	381.03	853.06	0.00	1234.09	3048.29	394.07	841.33	0.00	1235.40
2	KTPS-VI	3250.14	517.46	888.26	0.00	1405.72	3049.54	509.08	832.52	0.00	1341.60
3	KTPS-VII	5659.53	1037.97	1363.38	0.00	2401.35	5355.05	1334.28	1290.03	0.00	2624.31
4	RTS-B	370.60	117.34	110.74	0.00	228.08	302.80	116.70	92.05	0.00	208.75
5	KTPP-I	2796.89	416.03	848.86	0.00	1264.89	2659.28	402.23	803.10	0.00	1205.33
6	KTPP-II	3921.22	710.48	1146.96	0.00	1857.44	3635.83	748.51	1054.39	0.00	1802.90
7	BTPS	7378.29	1894.19	1743.60	0.00	3637.79	7255.02	1411.65	1714.53	0.00	3126.18
8	YTPS	2746.68	601.20	788.33	0.00	1389.53	905.50	111.19	213.99	0.00	325.18
	Total (A)	29320.74	5675.70	7743.19	0.00	13418.89	26211.31	5027.71	6841.95	0.00	11869.66
B	Inter State										
1	PJHES	169.72	61.48	0.00	0.00	61.48	169.72	49.19	0.00	0.00	49.19
	Total (B)	169.72	61.48	0.00	0.00	61.48	169.72	49.19	0.00	0.00	49.19
C	Hydel										
1	Nagarjuna Sagar complex	2376.52	343.44	0.00	0.00	343.44	2495.35	321.44	0.00	0.00	321.44
2	SLBHES	2056.31	459.51	0.00	0.00	459.51	2159.13	424.81	0.00	0.00	424.81
3	LJHES	358.36	259.51	0.00	0.00	259.51	376.27	258.70	0.00	0.00	258.70
4	PCHES	309.28	123.87	0.00	0.00	123.87	324.74	92.13	0.00	0.00	92.13
5	Pochampad II	16.56	9.29	0.00	0.00	9.29	17.38	10.18	0.00	0.00	10.18
6	Small Hydel	124.93	50.93	0.00	0.00	50.93	130.53	57.11	0.00	0.00	57.11
7	Mini Hydel	2.75	9.48	0.00	0.00	9.48	3.52	10.26	0.00	0.00	10.26
	Total (C)	5244.70	1256.03	0.00	0.00	1256.03	5506.93	1174.63	0.00	0.00	1174.63
D	Other cost										
	Other cost*				1379.08	1379.08				1378.97	1378.97
	Total (D)				1379.08	1379.08				1378.97	1378.97
	Total TSGenco	34735.15	6993.21	7743.19	1379.08	16115.48	31887.96	6251.53	6841.95	1378.97	14472.44

*Additional pension liabilities and water charges

Central Generating Stations (NTPC, NLC & NPCIL)

4.5.4 The AFC for NTPC stations except NTPC Telangana STPP has been considered based on the latest Tariff Orders for the respective generating stations. The AFC for NTPC Telangana STPP has been considered as 90% of the AFC filed by TSDISCOMs as there is no approved tariff for the same at this stage.

4.5.5 The cost of power procurement from the Central Generating Stations approved by the Commission for FY 2023-24 is as shown below:

Table 4.15: Power procurement cost from Central Generating Stations for FY 2023-24

Source	Claimed				Approved			
	Quantum	Fixed Cost	Variable Cost	Total	Quantum	Fixed Cost	Variable Cost	Total
	MU	Rs.crore	Rs.crore	Rs.crore	MU	Rs.crore	Rs.crore	Rs.crore
Thermal								

Source	Claimed				Approved			
	Quantum	Fixed Cost	Variable Cost	Total	Quantum	Fixed Cost	Variable Cost	Total
	MU	Rs.crore	Rs.crore	Rs.crore	MU	Rs.crore	Rs.crore	Rs.crore
NTPC Ramagundam Stage I & II	2682.16	195.26	751.00	946.26	1978.22	178.39	553.90	732.29
NTPC Ramagundam Stage III	648.90	54.00	179.00	233.00	455.20	53.07	125.57	178.64
NTPC Talcher TPS II	1597.26	114.04	279.36	393.40	1597.26	109.49	279.36	388.85
NTPC Simhadri Stage I	4018.37	361.67	1212.74	1574.41	2774.74	356.75	837.42	1194.16
NTPC Simhadri Stage II	1931.43	277.78	579.82	857.60	1439.67	258.35	432.19	690.54
NTPC Kudgi	180.22	649.48	70.52	720.00	1435.49	285.66	561.71	847.37
NLC TPS II Stage I	35.15	2.50	9.62	12.12	34.91	2.49	9.55	12.04
NLC TPS II Stage II	46.31	3.41	12.67	16.08	44.66	3.40	12.22	15.62
NNTPP	381.74	68.87	84.25	153.11	368.28	77.97	81.28	159.25
Neyveli new Unit-1	40.76	3.93	9.99	13.92	40.76	3.93	9.99	13.92
Neyveli new Unit-2	30.02	6.93	7.93	14.86	30.02	6.93	7.93	14.86
TSTPP Unit 1	8247.29	1686.51	1693.97	3380.49	7916.06	1517.86	1625.94	3143.80
NTECL Vallur TPS	69.88	143.86	26.99	170.85	0.00	0.00	0.00	0.00
NLC Tamil Nadu Power Ltd.	130.24	223.00	57.10	280.10	0.00	0.00	0.00	0.00
Sub Total	20039.70	3791.24	4974.96	8766.20	18115.25	2854.29	4537.06	7391.35
Nuclear								
NPC Madras APS	56.44	0.00	14.34	14.34	56.44	0.00	14.34	14.34
NPC Kaiga APS Units 1 & 2	426.86	0.00	148.64	148.64	426.86	0.00	148.64	148.64
NPC Kaiga APS Units 3 & 4	462.54	0.00	161.07	161.07	462.54	0.00	161.07	161.07
NPC Kudankulam NPP Unit 2	362.68	0.00	150.81	150.81	334.80	0.00	139.22	139.22
Sub Total	1308.51	0.00	474.86	474.86	1280.63	0.00	463.27	463.27
Bundled Power (Coal)								
JNNSM Phase 1	336.36	0.00	217.50	217.50	336.36	0.00	120.37	120.37
NTPC	1394.71	194.16	499.09	693.25	1394.71	0.00	901.86	901.86
Sub Total	1731.07	194.16	716.59	910.75	1731.07	0.00	1022.22	1022.22
Total CGS	23079.28	3985.40	6166.41	10151.81	21126.95	2854.29	6022.55	8876.84

Other Conventional Sources of Power

- 4.5.6 The AFC and variable charges per unit of SEIL (LT-1) and SEIL (LT-2) have been considered based on the filings made by TSDISCOMs for FY 2023-24. The TSDISCOMs have claimed other charges of Rs.60.48 crore for FY 2023-24, however, the Commission has not considered the same in this Order. The Commission shall consider the prudence of such charges at the time of true-up based on the actuals.
- 4.5.7 The tariff for SCCL TPP has been considered as per the Order dated 23.03.2023 on approval of generation tariff for STPP for the Mid-term Review and for true-up of generation tariff for STPP of 2x600 MW for FYs 2019-22 and for approval of revised tariff for FYs 2022-24. The TSDISCOMs have

claimed other charges of Rs.1.55 crore for FY 2023-24, however, the Commission has not considered the same in this Order. The Commission shall consider the prudence of such charges at the time of true-up based on the actuals.

4.5.8 The tariff of power procurement under CSPDCL PPA has been considered based on the tariff approved by the latest tariff order issued by CSERC for the respective generating station. For the approved short-term purchases of 1505.42 MU in FY 2023-24, the Commission has considered the power purchase price of Rs.3.50/kWh.

4.5.9 The cost of power procurement from other long-term sources approved by the Commission is as shown below:

Table 4.16: Power procurement cost from other long-term/short-term sources for FY 2023-24

Sl. No.	Name of the Station	Claimed					Approved				
		Quantum	Fixed Cost	Variable Cost	Other Cost	Total	Quantum	Fixed Cost	Variable Cost	Other Cost	Total
		MU	Rs.crore	Rs.crore	Rs.crore	Rs.crore	MU	Rs.crore	Rs.crore	Rs.crore	Rs.crore
1	SEIL (LT-1)	2127.91	317.58	492.44	60.48	870.50	2216.94	317.58	513.05	0.00	830.63
2	SEIL (LT-2)	522.68	1135.02	201.67	0.00	1336.69	4510.17	1135.02	1740.22	0.00	2875.24
3	STPP	3728.48	1389.49	1188.99	1.55	2580.03	7912.21	1329.70	2505.80	0.00	3835.50
4	CSPDCL	6824.73	1842.68	818.97	0.00	2661.64	6824.73	1485.96	818.97	0.00	2304.93
5	Short-Term	135.56	0.00	61.46	0.00	61.46	1505.42	0.00	526.90	0.00	526.90
	Total	13339.35	4684.77	2763.52	62.03	7510.32	22969.47	4268.26	6104.93	0.00	10373.19

Non-Conventional Energy Sources

4.5.10 The tariffs applicable for the respective non-conventional energy source has been considered for projecting the power procurement cost from NCE sources. The cost of power procurement from non-conventional energy sources approved by the Commission is as shown below:

Table 4.17: TSSPDCL - Power procurement cost from NCE sources for FY 2023-24

Source	Claimed		Approved	
	Quantum	Cost	Quantum	Cost
	MU	Rs.crore	MU	Rs.crore
Biomass	20.13	14.96	20.13	14.96
Bagasse	0.00	0.00	0.00	0.00
Municipal waste	143.37	112.40	118.28	92.73
Industrial waste	46.24	33.36	46.24	33.36
Wind	273.83	118.02	235.65	101.57
Mini Hydel	0.00	0.00	0.00	0.00
Solar	3424.50	2048.20	3424.50	2055.17
Solar (JNNSM Phase I)	26.26	28.07	26.26	28.07

Source	Claimed		Approved	
	Quantum	Cost	Quantum	Cost
	MU	Rs.crore	MU	Rs.crore
Solar (NTPC)	564.32	267.44	564.32	267.44
Solar (SECI)	558.75	155.33	558.75	159.24
Solar (NTPC, NHPC CPSU)Tr-III 1545 MW	356.69	87.39	356.69	87.39
Solar (NTPC CPSU)Tr-I &II 1692 MW	1984.81	560.29	1984.81	500.17
SECI (ISTS Tr IX 1000 MW)	607.89	148.53	607.89	147.11
Total (A)	8006.78	3574.00	7943.51	3487.22

Table 4.18: TSNPDCL - Power procurement cost from NCE sources for FY 2023-24

Source	Claimed		Approved	
	Quantum	Total	Quantum	Total
	MU	Rs.crore	MU	Rs.crore
Biomass	0.00	0.00	0.00	0.00
Bagasse	46.95	24.05	46.95	24.05
Municipal waste	0.00	0.00	0.00	0.00
Industrial waste	25.11	19.95	25.11	19.95
Wind	0.00	0.00	0.00	0.00
Mini Hydel	1.46	0.31	1.46	0.31
Solar	1597.39	909.26	1597.39	907.35
Solar (JNNSM Phase I)	10.96	11.72	10.96	11.72
Solar (NTPC)	235.57	111.64	235.57	111.64
Solar (SECI)	233.24	64.84	233.24	66.82
Solar (NTPC, NHPC CPSU)Tr-III 1545 MW	359.91	88.18	359.91	88.18
Solar (NTPC CPSU)Tr-I &II 1692 MW	828.53	233.88	828.53	208.79
SECI (ISTS Tr IX 1000 MW)	613.38	149.87	613.38	148.44
Total	3952.50	1613.70	3952.50	1587.24

4.6 SALE OF SURPLUS ENERGY

4.6.1 The TSDISCOMs have not projected any revenue from sale of surplus power for FY 2023-24 and submitted that the cost of such additional purchase is expected to be higher than the revenue from sale of surplus energy. The TSDISCOMs have submitted the month-wise details of quantum of energy sold along with corresponding tariffs for the period from FY 2015-16 to first half of FY 2022-23. Based on the analysis of the same, the Commission has considered the tariff of Rs.5.00/kWh for sale of surplus energy. Accordingly, the revenue from sale of surplus energy has been adjusted from the total power purchase cost.

4.6.2 The monthly merit order dispatch approved by the Commission is enclosed at **Annexure-VII**.

4.7 DISCOM WISE ALLOCATION OF ENERGY

4.7.1 The Commission has considered the share of TSSPDCL as 70.55% and TSNPDCL as 29.45% of the total energy dispatched from conventional energy sources and common non-conventional sources as per G.O.Ms.No.20 dated 08.05.2014, based on the energy dispatched as per the merit order. The energy from non-conventional sources in a TSDISCOMs area has been considered fully to the respective licensee in accordance with the approved PPAs between TSDISCOMs and the generators.

4.8 DISCOM TO DISCOM (D-D) ENERGY TRANSFER AND D-D COST ADJUSTMENT

4.8.1 Since the power from the generating stations is dispatched on the basis of central dispatch for the entire State i.e., State Load Despatch Centre (SLDC), often the energy share of one TSDISCOMs happens to be utilised by another TSDISCOMs (TSDISCOM-to-TSDISCOM energy transfers). In the merit order process, the station-wise energy of one TSDISCOM is transferred to the other TSDISCOM. The per unit price of Rs.1.85 has been considered in arriving at power purchase cost settlement due to D-D energy transfers.

4.9 POWER PURCHASE COST FOR FY 2023-24

4.9.1 Based on the above, the power purchase cost claimed by TSDISCOMs and approved by the Commission for FY 2023-24 is as shown below:

Table 4.19: Power purchase cost for TSDISCOMs for FY 2023-24

Source	Claimed					Approved				
	Quantum	Fixed Cost	Variable Cost	Other Charges	Total	Quantum	Fixed Cost	Variable Cost	Other Charges	Total
	MU	Rs.crore	Rs.crore	Rs.crore	Rs.crore	MU	Rs.crore	Rs.crore	Rs.crore	Rs.crore
TSGenco	34735.15	6993.21	7743.19	1379.08	16115.48	31887.96	6251.53	6841.95	1378.97	14472.44
CGS	23079.28	3985.40	6166.41	0.00	10151.81	21126.95	2854.29	6022.55	0.00	8876.84
Others	13339.35	4684.77	2763.52	62.03	7510.32	22969.47	4268.26	6104.93	0.00	10373.19
NCE	11959.28	0.00	5187.70	0.00	5187.70	11896.02	0.00	5074.46	0.00	5074.46
D-D purchase	0.00	0.00	0.00	0.00	0.00	1408.26	0.00	260.69	0.00	260.69
D-D sale	0.00	0.00	0.00	0.00	0.00	-1408.26	0.00	-260.69	0.00	-260.69
Sale of surplus power	0.00	0.00	0.00	0.00	0.00	-3724.05	0.00	-1862.02	0.00	-1862.02
Total	83113.06	15663.37	21860.83	1441.11	38965.32	84156.35	13374.08	22181.86	1378.97	36934.46

4.9.2 Procurement price per unit of electricity works out to Rs.4.39/kWh comprising of fixed component of Rs.1.59/kWh, variable component of Rs.2.64/kWh and other charges of Rs.0.16/kWh.

Table 4.20: Power purchase cost of TSSPDCL for FY 2023-24

Source	Claimed					Approved				
	Quantu m	Fixed Cost	Variable Cost	Other Charges	Total	Quantu m	Fixed Cost	Variable Cost	Other Charges	Total
	MU	Rs.crore	Rs.crore	Rs.crore	Rs.crore	MU	Rs.crore	Rs.crore	Rs.crore	Rs.crore
TSGenco	24505.65	4933.71	5462.82	972.88	11369.41	22496.96	4410.45	4826.99	972.86	10210.31
CGS	16282.43	2811.70	4350.41	0.00	7162.11	14905.06	2013.70	4248.91	0.00	6262.61
Others	9410.91	3305.10	1949.67	43.76	5298.53	16231.60	3011.26	4316.35	0.00	7327.61
NCE	8006.78	0.00	3574.00	0.00	3574.00	7943.51	0.00	3487.22	0.00	3487.22
D-D purchase	814.52		250.96		250.96	1271.09		235.30		235.30
D-D sale	0.00		0.00		0.00	-137.17		-25.39		-25.39
Sale of surplus power	0.00	0.00	0.00	0.00	0.00	-2627.32	0.00	-1313.66	0.00	-1313.66
Total	59020.29	11050.51	15587.85	1016.65	27655.01	60083.73	9435.41	15775.72	972.86	26183.99

Table 4.21: Power purchase cost of TSNPDCL for FY 2023-24

Source	Claimed					Approved				
	Quantu m	Fixed Cost	Variable Cost	Other Charge s	Total	Quantu m	Fixed Cost	Variable Cost	Other Charge s	Total
	MU	Rs.crore	Rs.crore	Rs.crore	Rs.crore	MU	Rs.crore	Rs.crore	Rs.crore	Rs.crore
TSGenco	10229.50	2059.50	2280.37	406.20	4746.07	9391.00	1841.07	2014.95	406.11	4262.13
CGS	6796.85	1173.70	1816.01	0.00	2989.71	6221.89	840.59	1773.64	0.00	2614.23
Others	3928.44	1379.66	813.86	18.27	2211.79	6737.87	1257.00	1788.58	0.00	3045.58
NCE	3952.50	0.00	1613.70	0.00	1613.70	3952.50	0.00	1587.26	0.00	1587.26
D-D purchase	-814.52	0.00	-250.96	0.00	-250.96	137.17	0.00	25.39	0.00	25.39
D-D sale		0.00		0.00	0.00	-1271.09	0.00	-235.30	0.00	-235.30
Sale of surplus power	0.00	0.00	0.00	0.00	0.00	-1096.73	0.00	-548.83	0.00	-548.83
Total	24092.77	4612.86	6272.98	424.47	11310.31	24072.62	3938.67	6405.70	406.11	10750.47

4.10 DISTRIBUTION COST

4.10.1 TSSPDCL and TSNPDCL have claimed the distribution cost of Rs.5168.36 crore and Rs.4081.42 crore respectively for FY 2023-24 in accordance with the Order on Distribution ARR and Wheeling tariff for the 4th control period from FY 2019-20 to FY 2023-24 along with the Amendment Order. As the distribution cost claimed by TSDISCOMs is in accordance with the Commission's Order, the same has been considered by the Commission for FY 2023-24.

4.11 INSTS CHARGES

4.11.1 TSSPDCL and TSNPDCL have claimed the Intra-State Transmission System (InSTS) charges of Rs.2670.27 crore and Rs.1126.29 crore respectively for FY 2023-24 in accordance with MYT Order for TSTransco for the 4th control period from FY 2019-20 to FY 2023-24. As the InSTS charges claimed by TSDISCOMs is in accordance with the Commission's Order the same has been considered by the Commission for FY 2023-24.

4.12 ISTS CHARGES

4.12.1 The Inter State Transmission System (ISTS) charges have been claimed as Rs.1081.98 crore and Rs.451.19 crore by TSSPDCL and TSNPDCL respectively for FY 2023-24. The Commission has approved the ISTS charges for FY 2023-24 as claimed by TSDISCOMs.

4.13 SLDC CHARGES

4.13.1 The TSDISCOMs have claimed the SLDC charges for FY 2022-23 in accordance with MYT Order for SLDC for the 4th control period from FY 2019-20 to FY 2023-24. Accordingly, the SLDC charges of Rs.32.81 crore and Rs.13.69 crore has been claimed by TSSPDCL and TSNPDCL respectively. The Commission has considered the SLDC charges for FY 2023-24 as claimed by TSDISCOMs, the same being in accordance with the Commission's Order.

4.14 INTEREST ON CONSUMER SECURITY DEPOSIT

4.14.1 The interest on consumer security deposit has been claimed as Rs.311.96 crore and Rs.81.08 crore by TSSPDCL and TSNPDCL respectively. Pursuant to the Regulations notified by the erstwhile APERC, adopted by the Commission, the interest on consumer security deposit has been approved considering the interest rate of 6.15% as notified by the Reserve Bank of India. The interest is calculated on the average balance of the consumer security deposit for FY 2023-24. Accordingly, the Commission has approved the interest on consumer security deposit as Rs.293.44 crore and Rs.78.77 crore for TSSPDCL and TSNPDCL respectively.

4.15 SUPPLY MARGIN

4.15.1 The TSDISCOMs have claimed the supply margin for FY 2023-24 considering the approved norm of 2% on the equity component of regulated rate base. Accordingly, the supply margin has been claimed as Rs.42.83 crore and Rs.31.27 crore by TSSPDCL and TSNPDCL respectively. The Commission after analysing the submissions of TSDISCOMs has approved the supply margin as claimed by TSDISCOMs.

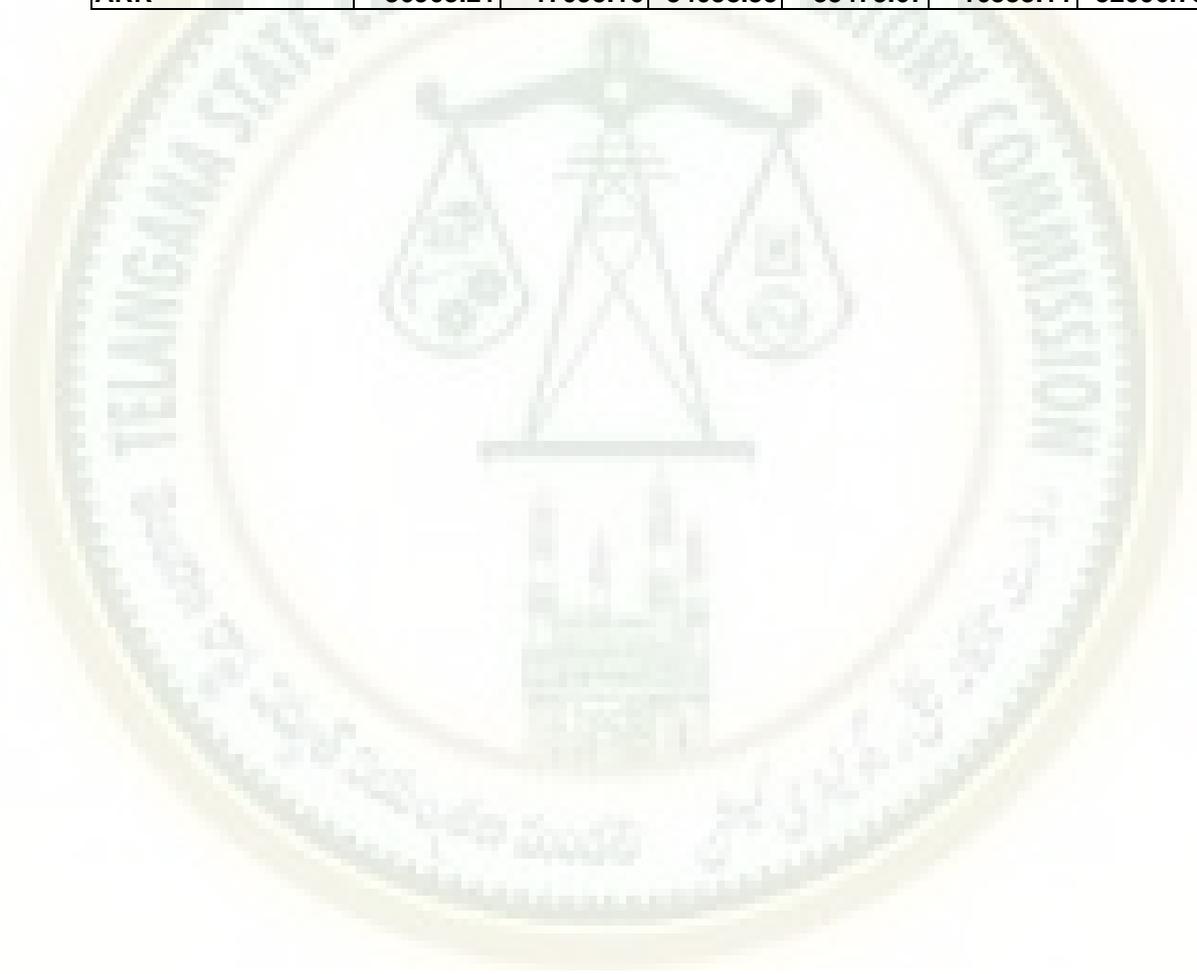
4.16 AGGREGATE REVENUE REQUIREMENT

4.16.1 Based on the above, the ARR claimed by TSDISCOMs and approved by the Commission for FY 2023-24 is as shown below:

Table 4.22: Aggregate Revenue Requirement for FY 2023-24

Rs. in crore

Particulars	Claimed			Approved		
	TSSPDCL	TSNPDCL	Total	TSSPDCL	TSNPDCL	Total
Power purchase cost	27654.99	11310.21	38965.20	26183.99	10750.47	36934.46
Distribution cost	5168.36	4081.42	9249.78	5168.36	4081.42	9249.78
InSTS charges	2670.27	1126.29	3796.56	2670.27	1126.29	3796.56
ISTS charges	1081.98	451.19	1533.17	1081.98	451.19	1533.17
SLDC charges	32.81	13.69	46.50	32.81	13.69	46.50
Interest on CSD	311.96	81.08	393.04	293.44	78.77	372.21
Supply Margin	42.83	31.27	74.10	42.83	31.27	74.10
ARR	36963.21	17095.16	54058.35	35473.67	16533.11	52006.78



Chapter-5 True-up of Retail Supply Business

5.1 REGULATORY PROVISIONS

5.1.1 The APERC Regulation No.1 of 2014, adopted by the Commission, stipulates as under:

“12.5 True-up of Retail Supply Business

- a. *The Distribution Licensee shall include the power purchase cost variation over the previous year Power Purchase cost in the Tariff Order as expense (in the event of incurring excess cost)/rebate (in case of cost saving) in the ARR as special item with relevant details. To arrive the power purchase cost variation, the least of the following power purchase quantity is to be considered:*
 - i) *Actual power purchase quantity procured by the DISCOM for its consumers.*
 - ii) *Power purchase quantity computed based on actual sales except LT Agriculture sales. LT Agricultural sales will be limited to Tariff Order quantity. These aggregated sales will be grossed up with approved losses for the relevant year in the MYT orders.*
- b. *Since the complete information of cost actually incurred relating to previous year will not be available at the time of filing of ARR for a particular tariff year, the Licensee may include provisional cost variation for the previous year in ARR filings which will be subject to final correction by the Commission as and when final accounts for that year become available.*
- c. *The Licensees shall also include in the ARR the amounts to be collected on final basis being the difference between the cost incurred based on audited annual accounts report and costs provisionally approved by the Commission in the Tariff Order for the year immediately preceding the previous year.*

.....”

5.1.2 The Commission has carried out the true-up for the period FY 2016-17 to FY 2021-22 and provisional true-up for FY 2022-23 in accordance with the above stated Regulation.

5.2 TRUE-UP FOR THE PERIOD FY 2016-17 TO FY 2021-22

TSDISCOMs have filed petitions for

- a) Approval of Aggregate Revenue Requirement (ARR), Filing for Proposed Tariff (FPT) and Cross Subsidy Surcharge (CSS) for FY 2023-24 on 30-11-2022 and
- b) Power Purchase True-up/True-down for the FY 2016-17 to FY 2021-22 and provisional true-up for FY 2022-23 on 16-12-2022.
- c) In the True-up petitions TSDISCOMs have requested to
- d) admit the True-up/True-down petitions,

- e) approve the deviations from the approved values for power purchase quantum and cost as approved in earlier tariff orders and
- f) recover the net power purchase true-up amount from the consumers in the form of additional ARR in the ensuing tariff order.

5.2.1 The summary of the claim of TSDISCOMs is shown below:

Table 5.1: Power purchase True-up/True-Down claimed by TSSPDCL

Financial Year	As claimed			
	True-Up/ True-down	Addl. Support provided by GoTS	Loss funding provided by GoTS	Net True-up/ True-down
2016-17	1588.25	1583.83	235.01	-230.59
2017-18	936.04	908.79	392.48	-365.23
2018-19	3799.05	1680.00	1241.82	877.23
2019-20	3900.32	1400.00	2470.12	30.20
2020-21	3230.80	0.00	2124.00	1106.80
2021-22	6372.00	0.00	0.00	6372.00
2022-23 (Provisional)	1270.39	0.00	0.00	1270.39
Total	21096.85	5572.62	6463.43	9060.80

Table 5.2: Power purchase True-up/True-Down claimed by TSNPDCL

Financial Year	As claimed			
	True-Up/ True-down	Addl. Support provided by GoTS	Loss funding provided by GoTS	Net True-up/ True-down
2016-17	715.43	678.79	75.42	-38.78
2017-18	672.26	389.48	156.05	126.73
2018-19	1216.55	720.00	762.86	-266.31
2019-20	1752.02	600.00	558.15	593.87
2020-21	1710.43	0.00	1220.18	490.25
2021-22	2418.00	0.00	0.00	2418.00
2022-23 (Provisional)	-369.10	0.00	0.00	-369.10
Total	8115.59	2388.27	2772.66	2954.66

Table 5.3: Power purchase True-up/True-Down claimed by TSDISCOMs

Financial Year	As claimed			
	True-Up/ True-down	Addl. Support provided by GoTS	Loss funding provided by GoTS	Net True-up/ True-down
2016-17	2303.68	2262.62	310.43	-269.37
2017-18	1608.30	1298.27	548.53	-238.50
2018-19	5015.60	2400.00	2004.68	610.92
2019-20	5652.34	2000.00	3028.27	624.07
2020-21	4941.23	0.00	3344.18	1597.05
2021-22	8790.00	0.00	0.00	8790.00
2022-23 (Provisional)	901.29	0.00	0.00	901.29
Total	29212.44	7960.89	9236.09	12015.46

5.2.2 In the process of True up exercise the Commission has directed TSDISCOMs to submit the following information.

- i) Actual consumer category-wise sales for the period FY 2016-17 to FY 2022-23.
- ii) Actual power purchase quantum and corresponding cost for FY 2016-17 to FY 2022-23.
- iii) Actual voltage-wise distribution losses for FY 2016-17 to FY 2022-23.
- 5.2.3 TSDISCOMs have filed the power purchase cost for FY 2016-17 to FY 2022-23 limiting the power purchase requirement considering actual sales with restricted agriculture sales approved in Tariff order, as per Regulation. The Commission has calculated the power purchase quantum by grossing up the actual sales, by restricting the agriculture sales approved for the year to tariff order quantity, with approved losses in the relevant MYT orders.
- 5.2.4 It is observed that the power purchase quantum filed by TSSPDCL is lower than the quantum computed by the Commission for all years except for FY 2021-22 and FY 2022-23. For TSNPDCL it is observed that the power purchase quantum filed is lower than the quantum computed by the Commission for all years except for FY 2018-19 and FY 2021-22.
- 5.2.5 The Commission has approved the lower of the power purchase quantum filed and the power purchase quantum computed by the Commission.
- 5.2.6 Taking into consideration the power purchase quantum approved and also rectifying the errors in the filings, the Commission has carried out the merit order dispatch to arrive at the power purchase cost. The cost of power procurement has been considered based on the actual procurement cost for the respective generating stations, limiting the same to the actual energy purchase approved.
- 5.2.7 Since TSDISCOMs have not filed ARR & FPT proposals for the period FY 2019-20 to FY 2021-22 and the tariffs for FY 2018-19 continued for the period FY 2019-20 to FY 2021-22, the Commission has taken the approved sales of FY 2018-19 as the base for true up for the period FY 2019-20 to FY 2021-22.
- 5.2.8 Accordingly, the Commission has approved the power purchase cost for the period FY 2016-17 to FY 2021-22 as detailed below:

Table 5.4: Power purchase cost approved by the Commission for TSSPDCL

Financial Year	Sales		Power Purchase cost	
	Claimed	Approved	Claimed	Approved
	MU		Rs in crore	
2016-17	30844.18	29022.5	17270.81	17229.79

Financial Year	Sales		Power Purchase cost	
	Claimed	Approved	Claimed	Approved
	MU		Rs in crore	
2017-18	35588.86	31093.99	17734.94	17479.45
2018-19	40343.32	35977.88	21398.16	21246.53
2019-20	39909.3	37363.25	21501.33	21487.54
2020-21	38274.67	34802.17	21510.51	21510.51
2021-22	42915.95	39540.64	25032.51	24631.54

Table 5-5: Power purchase cost approved by the Commission for TSNPDCL

Financial Year	Sales		Power Purchase cost	
	Claimed	Approved	Claimed	Approved
	MU		Rs in crore	
2016-17	12844.6	11867.55	7033.19	7153.6
2017-18	14937.19	12955.7	7796.58	7796.58
2018-19	17194.57	14983.72	9456.76	9296.68
2019-20	18612.37	17461.78	9993.58	9986.6
2020-21	18773.94	16859.61	10194.17	10194.17
2021-22	18641.82	17212	11045.53	10613.96

5.2.9 The power purchase cost variation approved by the Commission for the period FY 2016-17 to FY 2021-22 is as shown in the Table below:

Table 5.5: Power Purchase Cost variation computed for the period FY 2016-17 to FY 2021-22

Rs. in crore

Particulars	Claimed			Computed		
	SPDCL	NPDCL	Total	SPDCL	NPDCL	Total
FY 2016-17						
Gap/(Surplus)	620.70	844.52	1465.22	579.68	952.21	1531.89
Provisional True-up approved in RST Order 2017-18	-967.55	129.09	838.46	-967.55	129.09	838.46
NET Gap/(Surplus)	1588.25	715.43	2303.68	1547.23	823.12	2370.35
FY 2017-18						
Gap/(Surplus)	936.04	672.26	1608.30	814.59	672.26	1486.85
FY 2018-19						
Gap/(Surplus)	3799.05	1216.55	5015.60	3647.42	1056.48	4703.90
FY 2019-20						
Gap/(Surplus)	3900.32	1752.03	5652.35	3886.53	1746.14	5632.67
FY 2020-21						
Gap/(Surplus)	3230.80	1710.43	4941.23	3230.80	1710.43	4941.23
FY 2021-22						
Gap/(Surplus)	6371.65	2417.81	8789.46	5970.68	1970.64	7941.32

5.3 PROVISIONAL TRUE-UP FOR FY 2022-23

- 5.3.1 The Commission has sought the following information from TSDISCOMs for carrying out the provisional true up for FY 2022-23:
- i) Actual consumer category-wise sales for FY 2022-23.
 - ii) Actual power purchase quantum and corresponding cost (unaudited) for FY 2022-23.
 - iii) Actual voltage-wise distribution losses in FY 2022-23.
- 5.3.2 The methodology adopted by the Commission is detailed in the paragraphs below.
- 5.3.3 The Commission has approved the sales of 48541.45 MU and 20695.69 MU for TSSPDCL and TSNPDCL respectively for FY 2022-23. As against the same, TSDISCOMs have claimed the actual sales of 46974.33 MU and 18027.28 MU for TSSPDCL and TSNPDCL respectively. The Commission has considered the actual monthly sales for all the consumer categories except LT-V Agricultural. For LT-V Agricultural, the Commission has considered the lower of the actual and approved sales for each month. Accordingly, the Commission has approved the sales of 46333.30 MU and 17974.97 MU for TSSPDCL and TSNPDCL respectively in the provisional true up for FY 2022-23.
- 5.3.4 The Commission in its Tariff Order dated 23.03.2022 for FY 2022-23 has approved the power purchase cost of Rs.24618.64 crore and Rs.10516.10 MU for TSSPDCL and TSNPDCL respectively. As against the same, TSDISCOMs have claimed the provisional power purchase cost of Rs.25889.02 crore and Rs.10147.00 crore for TSSPDCL and TSNPDCL respectively.
- 5.3.5 Considering the approved monthly energy requirement, the Commission has carried out the annual merit order dispatch to power purchase cost. In the months of deficit energy, the market purchases have been considered to meet the shortfall. The cost of power procurement has been considered based on the actual procurement cost for the respective generating stations, limiting the same to the actual energy purchase approved.
- 5.3.6 Accordingly, the Commission has approved the power purchase cost of Rs.25429.87 crore and Rs.10107.14 crore for TSSPDCL and TSNPDCL respectively in the provisional true up for FY 2022-23. The provisional power

purchase cost variation approved by the Commission for FY 2022-23 is as tabulated below:

Table 5.6: Provisional Power Purchase Cost variation computed for FY 2022-23

Rs. in crore

Particulars	Claimed			Computed		
	SPDCL	NPDCCL	Total	SPDCL	NPDCCL	Total
Power Purchase Cost approved in the Tariff Order	24618.64	10516.10	35134.74	24618.64	10516.10	35134.74
Trued-up Power Purchase Cost	25889.02	10147.00	36036.02	25429.87	10107.14	35537.01
Gap/(Surplus)	1270.38	-369.10	901.28	811.38	-409.00	402.38

- 5.3.7 Accordingly, the Commission has approved the true-up of Rs.811.38 crore and true-down of Rs.409.00 crore for TSSPDCL and TSNPDCL respectively for FY 2022-23.

5.4 TREATMENT OF TRUE-UP

- 5.4.1 In the PP True-up/True-down petitions TSDISCOMs requested to recover the net power purchase true-up amount from the consumers in the form of additional ARR in the ensuing tariff order, whereas in the ARR & FPT petition requested to retain tariffs as per the Tariff Order for FY 2022-23 for the ensuing year.

Correspondence with TSDISCOMs

- 5.4.2 TSDISCOMs are directed vide letter No.TSERC/Secy/F.No.E-515698/D.No.28/23, dated 17.01.2023 to file their revised ARR and FPT petitions in consonance of true-up petitions.
- 5.4.3 In response to the direction of the Commission, TSDISCOMs have replied in their letters Lr.No.CMD/CGM(RAC)/F.No.B-80/D.No.614/2023 dated, 21.01.2023 of TSSPDCL and Lr.No.CMD/CGM/IPC&RAC/TSNPDCL/WGL/F.2/D.No.462/2023, dated 21.01.2023 of TSNPDCL to the Commission that, ***“In the prevailing situation in the State, it is felt not proper to burden the consumers. And further requested the Commission to address the Government for Government support or otherwise.”***

Correspondence with GoTS

- 5.4.4 In view of the communication received from TSDISCOMs vide letters dated 21.01.2023, the Commission vide letter No.TSERC/Secy/RST-ARR-2023-24/

D.No.59/23 Dt.31.01.2023 desired the view of the Government of Telangana on the submission of TSDISCOMs i.e., specifically in the matter of Government Support to TSDISCOMs.

Commitment of GoTS

- 5.4.5 In response, the GoTS has communicated its commitment vide letter dated 16.03.2023 which is reproduced below:

“... .. the Government is committed to provide necessary financial support to the State Power Utilities towards wheeling true-ups and power purchase true-ups for the Distribution Business and Retail Supply Business respectively as finalised by the TSERC on the filings made by the State Power Utilities with the Commission.

The Government of Telangana is committed to support the DISCOM without burdening the consumers over a period of 5 years.

This Commitment is in addition to the State Government commitment of necessary financial assistance to power sector and subsidy to the utilities already given during the public hearing held on 24.02.2023 at Hyderabad.”

Impact of UDAY MoU:

- 5.4.6 Ujwal Discom Assurance Yojana (UDAY), a scheme for the Financial Turnaround of the Power Distribution Companies (DISCOMs), was announced/ approved vide Ministry of Power, Government of India, Office Memorandum No.06/02/2015-NEF/FRP, dated 20.11.2015 with an objective to improve the operational and financial efficiency of the State DISCOMs.
- 5.4.7 As per the Scheme the State shall take over 75% of DISCOM debts as on 30th September 2015 by 31.03.2017.
- 5.4.8 MoU was entered between Ministry of Power, Central Government, Government of Telangana and TSDISCOMs on 4th January 2017. According to the MoU the total debts were taken over under UDAY Scheme was Rs.8923 crore (being 75% of total outstanding loans as on 30th September 2015 of TSDISCOMs).

Salient features of UDAY

- 5.4.9 The GoTS to takeover TSDISCOMs debt and transfer to TSDISCOMs a mix of grant, loan or equity described in the following table:

Year	Total Debt Taken over	Transfer to the DISCOMs in the form of Grants	Transfer to the DISCOMs in the form of Loans	Transfer to the DISCOMs in the form of Equity	Outstanding State Loan on the DISCOMs
Year-I (by 31.03.2017)	75% of the total debt i.e., Rs.8923 crore	50% of Rs.8923 crore – Rs.4462 crore to be taken over in 2016-17	25% if Rs.8923 crore – Rs.2230 crore	25% if Rs.8923 crore – Rs.2231 crore will be issued in 2016-17	Rs.2230 crore

- 5.4.10 As per Clause 8.1 of UDAY guidelines communicated by MoP vide letter dated 20.11.2015 State shall takeover the future losses of DISCOMs in a graded manner and shall fund the loss. Accordingly, the Government of Telangna has issued G.O.Ms.No.15, dated 18.06.2022, towards the take over of losses of 2017-18 to 2020-21 as per the clauses under the UDAY scheme for an amount of Rs.8925 crore.

Details of approved True-up/True-down for Retail Supply business

- 5.4.11 As per the objective of UDAY the impact of debt taken over is dealt in the distribution true-up order and loss funding benefits extended for retail supply business is considered in determination of power purchase true-up for RSB.
- 5.4.12 The TSDISCOMs have claimed Reversal of UDAY savings (RST order 2017-18 & 2018-19) claimed in Distribution True-up for an amount of Rs.1487.76 and Rs.745.08 for TSSPDCL and TSNPDCL respectively.
- 5.4.13 Power Purchase True-up/True-down for Retail Supply Business approved by the Commission for TSDiscoms is as given below:

Table 5.7: Power Purchase True-up/True-down approved by the Commission for TSSPDCL

Rs. in crore

Financial Year	Claimed				Approved			
	True-Up/ True-down	Addl. Support provided by GoTS	Loss funding provided by GoTS	Net True-up/ True-down	True-Up/ True-down	Addl. Support provided by GoTS	Loss funding provided by GoTS	Net True-up/ True-down
2016-17	1588.25	1583.83	235.01	-230.59	1547.23	0.00	0.00	1547.23
2017-18	936.04	908.79	392.48	-365.23	814.60	1583.83	235.01	-1004.24
2018-19	3799.05	1680.00	1241.82	877.23	3647.42	908.79	392.48	2346.15
2019-20	3900.32	1400.00	2470.12	30.20	3886.53	1680.00	1241.82	964.71
2020-21	3230.80	0.00	2124.00	1106.80	3230.80	1400.00	2470.12	-639.32
2021-22	6372.00	0.00	0.00	6372.00	5970.68	0.00	2124.00	3846.68
2022-23 (Provisional)	1270.39	0.00	0.00	1270.39	811.38	0.00	0.00	811.38
Total	21096.85	5572.62	6463.43	9060.80	19908.64	5572.62	6463.43	7872.59
Reversal of UDAY savings (RST order 2017-18 & 2018-19) claimed in Distribution True-up								1487.76
Grand total including UDAY								9360.35

Table 5.8: Power Purchase True-up/True-Down approved by the Commission for TSNPDCL

Rs.in crore

Financial Year	Claimed				Approved			
	True-Up/True-down	Addl. Support provided by GoTS	Loss funding provided by GoTS	Net True-up/True-down	True-Up/True-down	Addl. Support provided by GoTS	Loss funding provided by GoTS	Net True-up/True-down
2016-17	715.43	678.79	75.42	-38.78	823.12	0.00	0.00	823.12
2017-18	672.26	389.48	156.05	126.73	672.26	678.79	75.42	-81.95
2018-19	1216.55	720.00	762.86	-266.31	1056.48	389.48	156.05	510.95
2019-20	1752.02	600.00	558.15	593.87	1746.14	720.00	762.86	263.28
2020-21	1710.43	0.00	1220.18	490.25	1710.43	600.00	558.15	552.28
2021-22	2418.00	0.00	0.00	2418.00	1970.64	0.00	1220.18	750.46
2022-23 (Provisional)	-369.10	0.00	0.00	-369.10	-409.00	0.00	0.00	-409.00
Total	8115.59	2388.27	2772.66	2954.66	7570.07	2388.27	2772.66	2409.14
Reversal of UDAY savings (RST order 2017-18 & 2018-19) claimed in Distribution True-up								745.08
Grand total including UDAY								3154.22

Table 5.9: Power Purchase True-up/True-Down approved by the Commission for TSDISCOMs

Rs.in crore

Financial Year	Claimed				Approved			
	True-Up/True-down	Addl. Support provided by GoTS	Loss funding provided by GoTS	Net True-up/True-down	True-Up/True-down	Addl. Support provided by GoTS	Loss funding provided by GoTS	Net True-up/True-down
2016-17	2303.68	2262.62	310.43	-269.37	2370.35	0.00	0.00	2370.35
2017-18	1608.30	1298.27	548.53	-238.50	1486.86	2262.62	310.43	-1086.19
2018-19	5015.60	2400.00	2004.68	610.92	4703.90	1298.27	548.53	2857.10
2019-20	5652.34	2000.00	3028.27	624.07	5632.67	2400.00	2004.68	1227.99
2020-21	4941.23	0.00	3344.18	1597.05	4941.23	2000.00	3028.27	-87.04
2021-22	8790.00	0.00	0.00	8790.00	7941.32	0.00	3344.18	4597.14
2022-23 (Provisional)	901.29	0.00	0.00	901.29	402.38	0.00	0.00	402.38
Total	29212.44	7960.89	9236.09	12015.46	27478.71	7960.89	9236.09	10281.73
Reversal of UDAY savings (RST order 2017-18 & 2018-19) claimed in Distribution True-up								2232.84
Grand total including UDAY								12,514.57

Commission's View

- 5.4.14 In UDAY scheme there are two (2) components of benefits to TSDISCOMs, viz., takeover of loan/debt component by GoTS related to distribution business of TSDISCOMs and funding of loss component by GoTS pertains to retail supply business of TSDISCOMs.
- 5.4.15 The Commission while determining the ARR and FPT for FY 2017-18 and FY 2018-19 for retail supply business has passed on the savings of Rs.2232.84 crore under UDAY scheme to the consumers. TSDISCOMs in their true-up petitions for wheeling charges for FY 2006-07 to FY 2018-19 for distribution

business have claimed to consider the reversal of Rs.2232.84 crore stating that these benefits pertain to distribution business however no mention about this effect in their power purchase true-up petitions for FY 2016-17 to FY 2021-22 and provisions true-up for FY 2022-23 for retail supply business for the.

- 5.4.16 Since the Commission has considered the eligible savings/benefits under UDAY in the wheeling charges true-ups, the savings earlier passed in retail supply business for FY 2017-18 and FY 2018-19 are being reversed in the power purchase true-ups by giving effect of the eligible benefits under UDAY scheme in respective years of retail supply business as detailed in Table 5.7, Table 5.8 and Table 5.9 respectively.
- 5.4.17 In view of the commitment received from the Government of Telangana the Commission is not passing on the True-up burden onto the consumers.
- 5.4.18 The Power Purchase True-ups and wheeling charges true-ups finalized by the Commission were communicated to GoTS vide letter No.TSERC/Secy/F.No.ARR-2023-24/D.No.62/23, Dt.21.03.2023.

Chapter-6

Cost of Service for FY 2023-24

6.1 COST OF SERVICE

TSDISCOM' Submissions

- 6.1.1 The TSDISCOMs have computed the Cost of Service (CoS) for each category based on embedded cost methodology. The CoS has been determined based on the average of morning and evening peaks. They have also utilised the Class Load Factor and Maximum Coincident factor peak demand for each category to arrive at the CoS.

Commission's View

- 6.1.2 The Commission has adopted the embedded cost methodology to determine the Category-wise CoS. The Commission has considered the evening peak demand and has prudently analysed the class load factors and maximum coincident demand factors furnished by the Licensees. According to this methodology, all the cost components of the Aggregate Revenue Requirement as determined by the Commission for TSSPDCL and TSNPDCL have been allocated to the existing consumer categories to determine their respective CoS.
- 6.1.3 The costs are functionalised under the heads of generation, transmission, distribution and retail supply. Post functionalisation, the costs based on their nature are classified as demand and energy cost components. The demand related costs include the fixed cost of power procurement, distribution cost, transmission cost (interstate and intrastate), and load dispatch charges. The energy related costs include the variable cost of power procurement, interest on consumer security deposit, supply margin and other costs of retail supply business.
- 6.1.4 These categories of costs are allocated to individual consumer categories based on the specific allocation factor computed considering the category-wise approved sales, connected load/contracted demand, class load factor, non-coincident demand of co-incident factor to peak demand and voltage-wise assets & losses (technical).

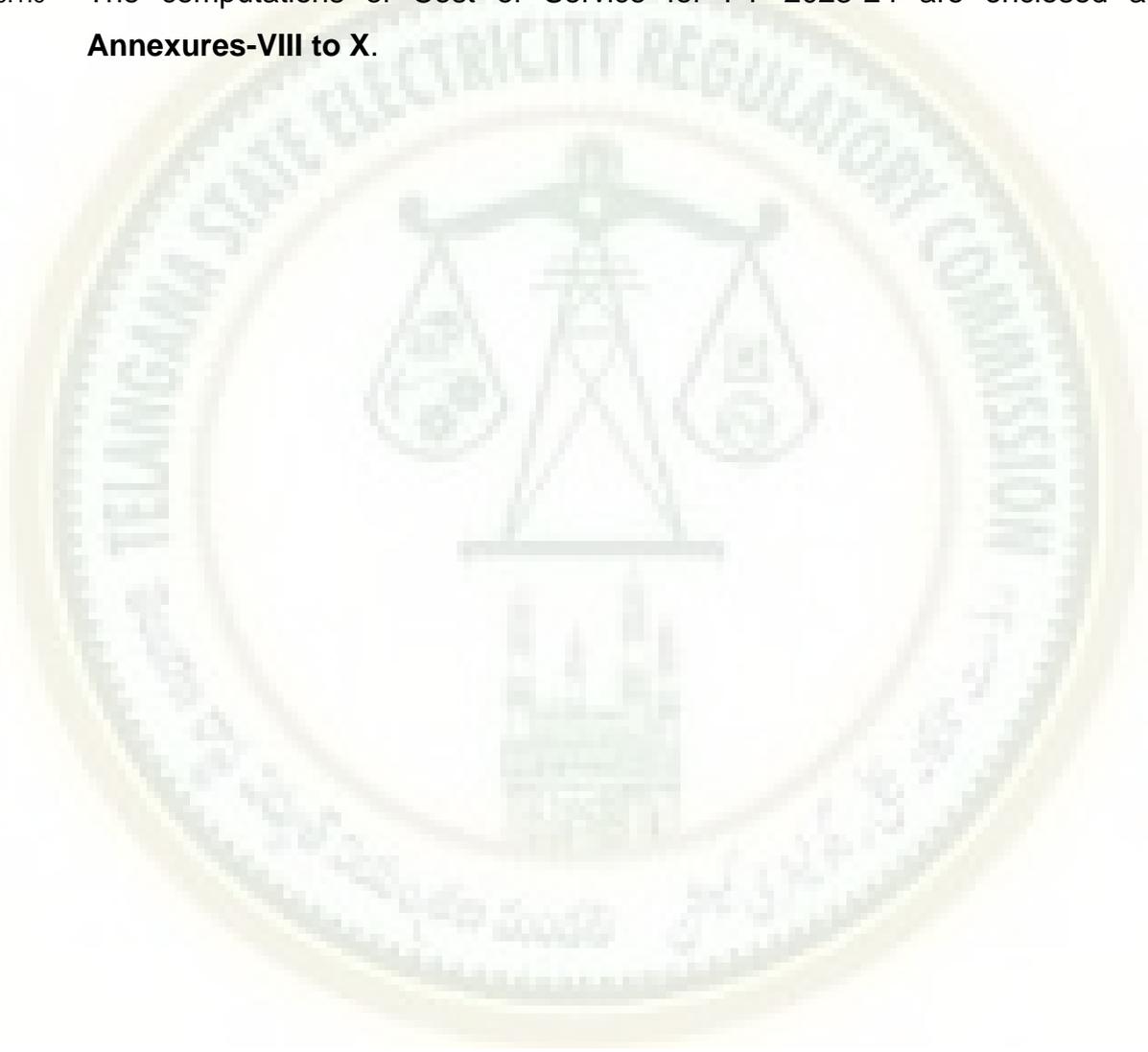
- 6.1.5 After allocation of all cost components to the individual consumer categories, per unit CoS is arrived at by dividing cost by the approved sales for the respective category. The CoS thus computed differs from one consumer category to other on account of factors mentioned in the above paragraphs.
- 6.1.6 The cost of service thus worked out for each consumer category has been used to determine the tariff and cross subsidy required to recover the approved ARR for FY 2023-24 in respect of each TSDISCOM.
- 6.1.7 The average CoS for FY 2023-24 works out to Rs.6.70/kWh, Rs.7.82/kWh and Rs.7.02/kWh for TSSPDCL, TSNPDCL and at State level respectively.
- 6.1.8 The CoS computed for each consumer category is as shown below:

Table 6.1: Cost of Service for FY 2023-24 (Rs./kWh)

Consumer Category		Claimed		Approved		
		TSSPDCL	TSNPDCL	TSSPDCL	TSNPDCL	State
LT Categories						
LT-I	Domestic	8.29	9.44	6.91	7.59	7.09
LT-II	Non-Domestic/Commercial	8.39	9.25	7.28	8.35	7.50
LT-III	Industrial	8.55	8.39	7.47	7.80	7.52
LT-IV	Cottage Industries	8.49	10.26	7.05	9.48	8.21
LT-V	Agricultural	8.47	9.93	7.47	8.73	8.01
LT-VI	Street Lighting & PWS	8.08	10.04	7.12	9.49	8.19
LT-VII	General Purpose	9.23	9.45	7.32	9.49	8.19
LT-VIII	Temporary Supply	9.23	9.45	10.39	11.27	10.45
LT-IX	Electric Vehicle Charging station	10.63	6.48	6.70	0.00	3.80
HT Categories						
HT-I	Industry					
	11 kV	6.59	5.89	7.84	9.56	8.17
	33 kV	5.69	5.58	5.92	5.83	5.92
	132 kV and above	5.02	4.85	4.90	5.20	4.93
HT-I(B)	Ferro Alloys					
	11 kV	7.28	-	6.02	NA	6.02
	33 kV	5.25	39.01	5.27	4.71	4.90
	132 kV and above	5.01	-	5.10	NA	5.10
HT-II	Others					
	11 kV	6.29	5.98	8.21	10.09	8.38
	33 kV	5.65	6.08	5.72	7.25	5.73
	132 kV and above	5.66	7.81	5.98	19.93	6.95
HT-III	Airports, Railway stations and Bus stations					
	11 kV	6.28	5.80	7.75	8.45	8.21
	33 kV	-	-	NA	NA	
	132 kV and above	4.93	-	4.90	NA	4.90
HT-IV(A&B)	Irrigation and Agriculture					
	11 kV	6.32	6.11	5.63	6.12	5.87
	33 kV	6.00	5.27	4.80	4.96	4.89
	132 kV and above	5.36	5.25	5.53	6.59	5.96
HT-V(A)	Railway Traction	5.50	5.31	6.09	5.39	5.74
HT-V(B)	HMR	5.48	-	5.88	-	5.88
HT-VI	Townships and Residential Colonies					
	11 kV	6.29	6.50	8.29	10.55	8.37
	33 kV	6.20	5.98	6.54	7.59	6.67

Consumer Category		Claimed		Approved		
		TSSPDCL	TSNPDCL	TSSPDCL	TSNPDCL	State
	132 kV and above	-	4.87	NA	5.04	5.04
HT-VII	Temporary Supply					
	11 kV	6.68	6.10	6.86	8.44	7.07
	33 kV	5.66	8.04	6.28	6.95	6.33
	132 kV and above	-	4.99	NA	NA	NA
HT-VIII	RESCOs					
	11 kV	-	5.10	NA	6.50	6.50
HT-IX	Electric Vehicle Charging Station					
	11 kV	6.68	6.10	12.18	NA	12.18
Average CoS		7.06	8.04	6.70	7.82	7.02

6.1.9 The computations of Cost of Service for FY 2023-24 are enclosed at Annexures-VIII to X.



Chapter-7 Tariff Design

7.1 INTRODUCTION

7.1.1 The Commission while determining the ARR and Retail Supply Tariffs for FY 2023-24 has been guided by the provisions of the Electricity Act, 2003, Revised Tariff Policy 2016 and Regulations of this Commission. This chapter deals with the changes proposed by the Licensees and consumers in the existing tariff structure and the Commission's View.

7.1.2 The TSDISCOMs have requested the Commission for retaining the tariffs as per the Tariff Order for FY 2022-23 for the ensuing year FY 2023-24. The TSDISCOMs have proposed few proposals/modifications to the existing tariff structure as listed below.

7.2 LT WHOLLY RELIGIOUS PLACES

7.2.1 The existing charges/tariff applicable for LT-VII(B) consumer category are shown below:

Table 7.1: Existing charges under LT-VII(B) for Wholly Religious places

Consumer Category	Fixed/Demand Charge		Energy Charge
	Unit	Rs./Unit/Month	Rs./kWh or Rs./kVAh
LT-VII(B): Wholly Religious Places			
Load upto 2 KW	kW	21	6.40
Load above 2 kW	kW	21	7.00

TSDISCOMs proposals

7.2.2 The TSDISCOMs have proposed to revise tariff for LT-VII(B) Wholly Religious Places as shown below:

Table 7.2: TSDISCOMs proposed tariff under LT-VII(B) for Wholly Religious places

Consumer Category	Fixed/Demand Charge		Energy Charge
	Unit	Rs./Unit/Month	Rs./kWh or Rs./kVAh
LT-VII(B): Wholly Religious Places			
Load upto 2 kW	kW	30	5.00
Load above 2 kW	kW	30	5.00

Commission's View

7.2.3 The Commission after consideration of the representations received and the proposals of TSDISCOMs has revised the tariff LT-VII(B) Wholly Religious Places as shown below:

Table 7.2: Commission approved tariff under LT-VII(B) for Wholly Religious places

Consumer Category	Fixed/Demand Charge		Energy Charge
	Unit	Rs./Unit/Month	Rs./kWh or Rs./kVAh
LT-VII(B): Wholly Religious Places			
Load upto 2 kW	kW	30	5.00
Load above 2 kW	kW	30	5.00

7.3 HT WHOLLY RELIGIOUS PLACES

7.3.1 HT Wholly Religious Places are currently being billed under HT-II Others category and the existing charges/tariff applicable are shown below:

Table 7.2: Existing HT Tariff applicable for Wholly Religious places

Consumer Category	Demand Charge*		Energy Charge
	Unit	Rate	Rs./kWh or Rs./kVAh
HT-II: Others			
11 kV	kVA	475	8.80
33 kV	kVA	475	8.00
132 kV & above	kVA	475	7.80
* Demand charge is calculated at Rs./kVA/month of the Billing Demand			

Table 7.2: Applicable Time of Day (TOD) Tariffs/Incentives

Description	During the Period	ToD Tariff over Retail Supply Energy Charges for FY 2023-24
Time of Day (TOD) Tariff	6 am to 10 am and 6 pm to 10 pm	Plus Re.1/unit
Time of Day (TOD) Incentive	10 pm to 6 am	Less Re.1/unit

TSDISCOMs Proposals

7.3.2 The TSDISCOMs have proposed for introducing a separate category for all the service connections falling under HT Wholly Religious Places which are currently being billed under HT-II Others category with the following terms and conditions for applicability.

7.3.3 Applicable for supply of energy to places of worship (namely Churches, Temples, Mosques, Gurudwaras) and Crematoriums.

7.3.4 Applicability of this category shall be subject to the following conditions:

- The religious institution owning the place of worship should run such place of worship on no profit basis.
- The religious institution should be registered under the Income Tax Act, 1961.
- The premise for the place of worship shall be structurally distinct from the premises running the activities other than the places of worship.

- d) The premise for the purpose shall not be owned by any individual (name) but shall be owned by a religious institution or association of a community i.e., a class of persons not less than 15 distinct individuals, having their names registered under one place of worship only.

Table 7.2: TSDISCOMs proposal for Wholly Religious places

Consumer Category	Demand Charge*		Energy Charge
	Unit	Rate	Rs./kWh / Rs./kVAh
HT Wholly Religious Places			
All Voltages	kVA	30	5.00

Commission's View

7.3.5 The Commission after consideration of the representations received and the proposals of the Licensees has introduced a new sub-category HT-II(B) for Wholly Religious Places under HT-II Others and the applicability, terms & conditions, applicable tariff is as follows:

7.3.6 Applicable for supply of energy to places of worship (viz., churches, gurudwaras, mosques, temples, etc.) and crematoriums.

7.3.7 Applicability of this category shall be subject to the following conditions:

- a) The religious institution owning the place of worship should run such place of worship on no profit basis.
- b) The religious institution should be registered under the Income Tax Act, 1961.
- c) The premise for the place of worship shall be structurally distinct from the premises running the activities other than the places of worship.
- d) The premise for the purpose shall not be owned by any individual (name) but shall be owned by a religious institution or association of a community i.e., a class of persons not less than 15 distinct individuals, having their names registered under one place of worship only.

7.3.8 The Commission approved charges/tariff applicable for Wholly Religious Places under HT category are shown below:

Table 7.2: HT Tariff for new category HT-II(B) Wholly Religious places

Consumer Category	Demand Charge*		Energy Charge
	Unit	Rate	Rs./kWh or Rs./kVAh
HT-II(B): Wholly Religious Places			
11 kV	kVA	260	5.00
33 kV	kVA	260	5.00
132 kV & above	kVA	260	5.00
* Demand charge is calculated at Rs./kVA/month of the Billing Demand			

Table 7.2: Applicable Time of Day (TOD) Tariffs/Incentives for HT-II(B)

Description	During the Period	ToD Tariff over Retail Supply Energy Charges for FY 2023-24
Time of Day (TOD) Tariff	6 am to 10 am and 6 pm to 10 pm	Plus Re.1/unit
Time of Day (TOD) Incentive	10 pm to 6 am	Less Re.1/unit

7.4 GREEN TARIFF FOR ALL TARIFF CATEGORIES

TSDISCOMs Proposals

- 7.4.1 Green tariff was introduced in FY 2022-23 with a tariff of Rs.0.66/kWh over and above the retail supply tariffs of the HT Commercial & Industrial consumers.
- 7.4.2 In view of the requests from other HT category consumers and also considering the probable future requests from any other categories of consumers, TSDISCOMs have proposed to extend the applicability of the Green tariffs to all the consumers under and HT categories.

Commission's View

- 7.4.3 The Commission has accepted the proposal of TSDISCOMs and has extended the applicability of the Green tariffs to all the consumers under LT and HT categories with a tariff of Rs.0.66/kWh over and above the retail supply tariffs of the respective category.

7.5 PARALLEL OPERATION CHARGES/GRID SUPPORT CHARGES PROPOSAL

TSDISCOMs Proposals

- 7.5.1 Regarding levy of Grid Support Charges on the Captive consumers in their area of supply, for the benefits they are availing during their parallel operation with the licensees' grid network the Commission, in the Tariff Order for FY 2022-23 has referred the matter to the Grid Coordination Committee (constituted in accordance with Clause 5.1 of the Regulation No.4 of 2018).
- 7.5.2 In line with the Commission's direction, the Grid Coordination Committee has initiated the detailed study on the matter of parallel operation of CPPs and consequent levy of GSC. It is submitted that the proposal for levy of GSC for FY 2022-23 has not attained finality as on date.
- 7.5.3 The TSDISCOMs have proposed to levy Grid Support Charges for FY 2023-24 on all the generators (Captive Generating Plants, Cogeneration Plants, Third

party Generation units, Merchant Power Generation units, Rooftop Power Plants etc.) who are not having PPA/having PPA for partial capacity with the licensees as follows:

Grid Support Charges = Total Installed Capacity X Rate of GSC (Rs./kW/month)

Rate of GSC:

- i. The parallel operation/grid support charges are to be applied to the total installed capacity of the generators connected to the Grid.
- ii. Conventional generators shall pay Rs.50 per kW per month.
- iii. Renewable energy plants including waste heat recovery plants, the plants based on municipal solid waste, and the co-gen plants shall pay Rs.25 kW per month.
- iv. Rooftop solar plants under net metering/gross metering policy shall pay Rs.15 per kW per month.
- v. Co-gen sugar mills shall pay charges of Rs.25 per kW per month, for a period of 4 months or actual operation period, whichever is higher.
- vi. These charges shall not be applicable when the plants are under shutdown for any reason and when such shutdown period exceeds two months.
- vii. To the extent of PPA capacities of the generators with TSDISCOMs shall be exempted from payment of these charges.

Commission's View

7.5.4 The Commission has referred the proposal of TSDISCOMs for levy of GSC for the FY 2022-23 to the Grid Coordination Committee for a detailed study and suitable recommendations on the parallel operation of CPPs and consequent levy of GSC. The Committee has submitted its report together with recommendations on 05.08.2022.

7.5.5 Now TSDISCOMs in their RST filings have changed the methodology and applicability of GSC, since the present proposal of TSDISCOMs is different from the previous filings, it is felt desirable to refer TSDISCOMs proposal again to the Grid Coordination Committee for detailed study and recommendations.

7.5.6 The Commission directs the Grid Coordination Committee to study TSDISCOMs present proposal and to submit detailed study report together with recommendations.

7.5.7 Applicability of LT-II Non-Domestic/Commercial category:

TSDISCOMs Proposals

7.5.8 The TSDISCOMs have proposed to modify the applicability of LT-II Non-Domestic/Commercial (Clause No.9.3.1) category to include transformer servicing/repairing centers under commercial activity.

Existing Clause	Proposed Clause
<p>Applicability</p> <p>A consumer who undertakes Non-Domestic activity.</p> <p>A consumer who undertakes Commercial activity.</p> <p>A Consumer who does not fall in any other LT category i.e., LT-I, LT-III to LT-IX categories.</p> <p>Consumers who avail supply of energy for lighting, fans, heating, air conditioning and power appliances in Commercial or Non-Domestic premises. For example, shops, business houses, offices, public buildings, hospitals, hostels, hotels, choultries, restaurants, clubs, theatres, cinema halls, bus stands and attached offices, railway stations, timber depots, photo studios, printing presses, all servicing & repairing centres (other than that of TSRTC), bus depots (other than that of TSRTC), laundries, dry cleaning units, gas/oil storage/transfer stations, warehouses, godowns (other than cold storage godowns), storage units or of such similar nature.</p> <ul style="list-style-type: none"> ▪ Educational institutions run by individuals, Non-Government Organizations or Private Trusts including student hostels of such educational institutions. 	<p>Applicability</p> <p>A consumer who undertakes Non-Domestic activity.</p> <p>A consumer who undertakes Commercial activity.</p> <p>A Consumer who does not fall in any other LT category i.e., LT-I, LT-III to LT-IX categories.</p> <p>Consumers who avail supply of energy for lighting, fans, heating, air conditioning and power appliances in Commercial or Non-Domestic premises. For example, shops, business houses, offices, public buildings, hospitals, hostels, hotels, choultries, restaurants, clubs, theatres, cinema halls, bus stands and attached offices, railway stations, timber depots, photo studios, printing presses, Transformer servicing/repairing centers and all other servicing & repairing centres (other than that of TSRTC), bus depots (other than that of TSRTC), laundries, dry cleaning units, gas/oil storage/transfer stations, warehouses, godowns (other than cold storage godowns), storage units or of such similar nature.</p> <ul style="list-style-type: none"> ▪ Educational institutions run by individuals, Non-Government Organizations or Private Trusts including student hostels of such educational institutions

Commission's View

7.5.9 The Commission hereby clarifies that transformer servicing/repairing centers fall under commercial activity on par with other servicing/repairing centers (other than that of TSRTC) and accordingly dealt in Chapter-10 "Terms & Conditions of Tariff"

7.6 APPLICABILITY OF MISSION BHAGIRATHA SERVICES

TSDISCOMs Proposals

- 7.6.1 The TSDISCOMs have proposed to categorise all Mission Bhagiratha services under LT-VI(B) or HT-IV(B) as applicable for respective voltage levels.

Existing Clause	Proposed Clause
Applicability of LT-VI(B) category	
Applicable for supply of energy for lighting on public roads, streets, thoroughfares including Parks, Markets, Cart-stands, Taxi stands, Bridges and also for PWS schemes in the Local Bodies viz., Panchayats/ Municipalities/ Municipal Corporations. Metering is compulsory irrespective of tariff structure.	Applicable for supply of energy for lighting on public roads, streets, thoroughfares including Parks, Markets, Cart-stands, Taxi stands, Bridges and also for PWS schemes and Mission Bhagiratha schemes in the Local Bodies viz., Panchayats/ Municipalities/ Municipal Corporations. Metering is compulsory irrespective of tariff structure.
Applicability of HT-IV(B) category	
This tariff is applicable to energy consumption by HT services pertaining to Composite Protected Water Supply (CPWS) schemes in rural areas. The composite PWS schemes shall be as defined and modified by the Commission from time to time.	This tariff is applicable to energy consumption by HT services pertaining to Composite Protected Water Supply (CPWS) schemes in rural areas and Mission Bhagiratha schemes. The composite PWS schemes shall be as defined and modified by the Commission from time to time.

Commission's View

- 7.6.2 The Commission has accepted the proposal of TSDISCOMs and has modified the applicability of LT-VI(B) category and HT-IV(B) category as follows:

- a) **Applicability of LT-VI(B) Category:** This tariff is applicable for supply of energy for lighting on public roads, streets, thoroughfares including Parks, Markets, Cart-stands, Taxi stands, Bridges and also for PWS schemes and Mission Bhagiratha schemes in the Local Bodies viz., Panchayats/Municipalities/Municipal Corporations. Metering is compulsory irrespective of tariff structure.
- b) **Applicability of HT-IV(B) Category:** This tariff is applicable to energy consumption by HT services pertaining to Composite Protected Water Supply (CPWS) schemes in rural areas and Mission Bhagiratha schemes. The composite PWS schemes shall be as defined and modified by the Commission from time to time.

Chapter-8 Retail Supply Tariff Schedule

8.1 REVENUE GAP CLAIMED BY TSDISCOMs

8.1.1 The category-wise tariffs proposed by TSDISCOMs for FY 2023-24 have been discussed in Chapter 6 of the Order. Based on the proposed tariffs, TSDISCOMs have claimed the revenue gap for FY 2023-24 as shown in the Table below:

Table 8.1: Revenue gap claimed by TSDISCOMs for FY 2023-24

Rs.in crore

Particulars		TSSPDCL	TSNPDCL	TOTAL
1.0	Revenue requirement	36963.20	17095.15	54058.35
2.0	Revenue (2.1 + 2.2 + 2.3 + 2.4)	33752.81	9771.51	43524.32
2.1	Revenue from proposed tariff	33521.34	9737.70	43259.04
2.2	Non-Tariff Income	28.18	33.81	61.99
2.3	Revenue from CSS	101.06	-	101.06
2.4	Revenue from AS	102.23	-	102.23
3.0	Revenue Deficit (1.0 -2.0)	3210.39	7323.64	10534.03

8.2 REFERENCE TARIFF SCHEDULE

8.2.1 The Commission after determining the revenue requirement for FY 2023-24 has estimated the revenue at current tariffs and arrived at the revenue deficit. The Commission has arrived at Reference Tariff Schedule by making certain modifications to the tariff rates as discussed in Chapter 7 of the Order.

Table 8.2: Reference Tariff Schedule for FY 2023-24

Category	Fixed/Demand Charge		Energy Charge (Rs./Unit)
	Unit	Rs./Unit/month	
Low Tension			
LT-I: Domestic			
LT-I(A): Upto 100 units/month			
0-50	kW	10	1.95
51-100	kW	10	3.10
LT-I(B)(i): Above 100 units/month & up to 200 units/month			
0-100	kW	10	3.40
101-200	kW	10	4.80
LT-I(B)(ii): Above 200 units/month			
0-200	kW	10	5.10
201-300	kW	10	7.70
301-400	kW	10	9.00
401-800	kW	10	9.50
Above 800 units	kW	10	10.00
LT-II: Non-Domestic/Commercial			
LT-II(A): Upto 50 units/month			
0-50	kW	60	7.00
LT-II(B): Above 50 units/month			
0-100	kW	70	8.50
101-300	kW	70	9.90
301-500	kW	70	10.40

Category	Fixed/Demand Charge		Energy Charge
	Unit	Rs./Unit/month	(Rs./Unit)
Above 500	kW	70	11.00
LT-II(C): Advertisement Hoardings	kW	70	13.00
LT-II(D): Haircutting salons consuming upto 200 units/month			
0-50	kW	60	5.30
51-100	kW	60	6.60
101-200	kW	60	7.50
LT-III: Industry			
Industries	kW	75	7.70
Seasonal Industries (off- season)	kW	75	8.40
Pisciculture/Prawn culture	kW	36	6.20
Sugarcane crushing	kW	36	6.20
Poultry farms	kW	65	7.00
Mushroom, Rabbit, Sheep and Goat farms	kW	75	7.30
<i>For Rice Mills under LT-III Industry, the upper limit of Contract Load shall be 93 kW/125 HP; For the remaining consumers under LT-III Industry, the upper limit of Contract Load shall be 75 kW/100 HP.</i>			
LT-IV: Cottage Industries			
LT-IV(A): Cottage Industries	kW	20/kW subject to a minimum of Rs.30/month	4.00
LT-IV(B): Agro Based Activities	kW	20/kW subject to a minimum of Rs.30/month	4.00
<i>For LT-IV(B) Agro Based Activity, the upper limit of Connected Load for Sheep farming, Goat farming, and Dairy farming activities shall be 15 HP; For the remaining consumers under LT-IV(B) Agro Based Activity, the upper limit of Connected Load shall be 10 HP.</i>			
LT-V: Agricultural			
LT-V(A): Agriculture (DSM Measures mandatory)			
Corporate Farmers	HP		2.50
Other than Corporate Farmers	HP		0.00
LT-V(B): Others			
Horticulture Nurseries with CL upto 15 HP	HP	20	4.00
LT-VI: Street Lighting & PWS			
LT-VI(A): Street Lighting			
Panchayats	kW	32	7.10
Municipalities	kW	32	7.60
Municipal Corporations	kW	32	8.10
LT-VI(B): PWS Schemes			
Panchayats	HP	32/HP subject to a minimum of Rs.50/month	6.00
Municipalities	HP	32/HP subject to a minimum of Rs.100/month	7.10
Municipal Corporations	HP	32/HP subject to a minimum of Rs.100/month	7.60
LT-VII: General			
LT-VII(A): General Purpose	kW	21	8.30
LT-VII(B): Wholly Religious Places			
Load upto 2 kW	kW	30	5.00
Load above 2 kW	kW	30	5.00
LT-VIII: Temporary Supply	kW	21	12.00

Category	Fixed/Demand Charge		Energy Charge
	Unit	Rs./Unit/month	(Rs./Unit)
<i>For LT-VIII Temporary Supply, the consumer shall be required to deposit in advance the estimated consumption charges along with other charges as stipulated in the Tariff Order.</i>			
LT-IX: Electric Vehicle Charging Stations	kW	50	6.00
High Tension			
HT-I(A): Industry General			
11 kV	kVA	475	7.65
33 kV	kVA	475	7.15
132 kV and above	kVA	475	6.65
HT-I(A): Lights and Fans			
11 kV		0	7.65
33 kV		0	7.15
132 kV and above		0	6.65
HT-I(A): Poultry Farms			
11 kV	kVA	475	7.65
33 kV	kVA	475	7.15
HT-I(A): Industrial Colonies			
11 kV		0	7.30
33 kV		0	7.30
132 kV and above		0	7.30
HT-I(A): Seasonal Industries			
11 kV	kVA	475	8.60
33 kV	kVA	475	7.90
132 kV and above	kVA	475	7.70
HT-I(A): Optional Category with CMD Up to 150 kVA			
11 kV	kVA	100	8.00
HT-I(B): Ferro Alloys			
11 kV	kVA	475	7.65
33 kV	kVA	475	7.15
132 kV and above	kVA	475	6.65
<i>No stipulation of Guaranteed off-take for HT-I(B) Ferro Alloy Units</i>			
HT-II(A) OTHERS			
11 kV	kVA	475	8.80
33 kV	kVA	475	8.00
132 kV and above	kVA	475	7.80
HT-II(B) Wholly Religious Places			
11 kV	kVA	260	5.00
33 kV	kVA	260	5.00
132 kV and above	kVA	260	5.00
HT-III Airports, Railway stations and Bus stations			
11 kV	kVA	475	8.50
33 kV	kVA	475	7.85
132 kV and above	kVA	475	7.45
HT-IV(A) Irrigation and Agriculture			
11 kV	kVA	275	6.30
33 kV	kVA	275	6.30
132 kV and above	kVA	275	6.30
HT-IV(B) CPWS Schemes			
11 kV	kVA		6.10
33 kV	kVA		6.10
132 kV and above	kVA		6.10
HT-V(A) Railway Traction			
	kVA	475	5.05
HT-V(B) HMR			
	kVA	475	4.95
HT-VI Townships & Residential Colonies			
11 kV	kVA	260	7.30
33 kV	kVA	260	7.30

Category	Fixed/Demand Charge		Energy Charge
	Unit	Rs./Unit/month	(Rs./Unit)
132 kV and above	kVA	260	7.30
HT-VII: Temporary			
11 kV	kVA	500	11.80
33 kV	kVA	500	11.00
132 kV and above	kVA	500	10.80
<i>For HT-VII Temporary Supply, the consumer shall be required to deposit in advance the estimated consumption charges along with other charges as stipulated in the Tariff Order.</i>			
HT-VIII: RESCO			
11 kV			4.84
HT-IX: Electric Vehicle Charging Stations			
11 kV	kVA	100	6.00
33 kV	kVA	100	6.00
132 kV and above	kVA	100	6.00

Time of Day (TOD) Tariffs:

Applicability:

The following Time of Day (TOD) Tariffs are applicable for categories viz.,

- HT-I(A) Industry General;
- HT-I(A) Poultry Farms;
- HT-II(A) Others;
- HT-II(B) Wholly Religious Places;
- HT-III Airports, Railway stations and Bus stations
- HT-IX Electric Vehicle Charging Stations;

Table 8.2: Applicable Time of Day (TOD) Tariffs for HT-I(A) Industry General and Poultry, HT-II(A) Others, HT-II(B) Wholly Religious places, HT-III airports, Railway stations and Bus stations and HT-IX Electric Vehicle Charging Stations.

Description	During the Period	ToD Tariff over Retail Supply Energy Charges for FY 2023-24
Time of Day (TOD) Tariff	6 am to 10 am and 6 pm to 10 pm	Plus Re.1/unit
Time of Day (TOD) Tariff	10 pm to 6 am	Less Re.1/unit

8.3 REVENUE AT REFERENCE TARIFFS

8.3.1 The following table shows the category-wise revenue determined by the Commission for FY 2023-24 at the Reference Tariffs:

Table 8.3: Revenue at Reference Tariffs determined by the Commission (Rs.crore)

Consumer Category		Determined by the Commission		
		TSSPDCL	TSNPDCL	Total
LT Category		11029.51	3399.93	14429.44
LT-I	Domestic	6218.41	1952.04	8170.45
LT-II	Non-Domestic/Commercial	3432.26	914.83	4347.09

Consumer Category		Determined by the Commission		
		TSSPDCL	TSNPDCL	Total
LT-III	Industrial	757.17	146.69	903.85
LT-IV	Cottage Industries	4.41	4.26	8.67
LT-V	Agricultural	58.34	50.90	109.24
LT-VI	Street Lighting & PWS	349.98	265.23	615.21
LT-VII	General Purpose	82.59	54.97	137.56
LT-VIII	Temporary Supply	124.91	10.12	135.03
LT-IX	Electric Vehicle Charging Stations	1.45	0.88	2.32
HT-Category at 11 kV		7372.74	1915.31	9288.05
HT-I	Industry	4471.53	1043.09	5514.62
HT-I(B)	Ferro Alloys	0.05	0.00	0.05
HT-II	Others	2307.10	228.21	2535.31
HT-III	Airports, Railway stations and Bus stations	4.53	8.21	12.75
HT-IV(A)	Irrigation and Agriculture	34.39	27.57	61.96
HT-IV(B)	CPWS Schemes	95.11	97.67	192.78
HT-VI	Townships and Residential Colonies	185.55	7.25	192.80
HT-VII	Temporary Supply	269.75	39.98	309.73
HT-VIII	RESCOs	0.00	463.33	463.33
HT- IX	Electric Vehicle Charging Stations	4.72	0.00	4.72
HT Category at 33 kV		7766.24	524.81	8291.05
HT-I	Industry	6032.09	189.67	6221.76
HT-I(B)	Ferro Alloys	31.95	53.00	84.94
HT-II	Others	1327.58	10.98	1338.56
HT-III	Airports, Railway stations and Bus stations	0.00	0.00	0.00
HT-IV(A)	Irrigation and Agriculture	18.37	22.32	40.70
HT-IV(B)	CPWS Schemes	169.09	219.65	388.74
HT-VI	Townships and Residential Colonies	126.75	20.43	147.18
HT-VII	Temporary Supply	60.41	8.77	69.18
HT-VIII	RESCO	0.00	0.00	0.00
HT- IX	Electric Vehicle Charging Stations	0.00	0.00	0.00
HT Category at 132 kV and above		7806.01	3212.29	11018.30
HT-I	Industry	4126.07	545.59	4671.66
HT-I(B)	Ferro Alloys	179.28	0.00	179.28
HT-II	Others	35.76	12.56	48.32
HT-III	Airports, Railway stations and Bus stations	50.12	0.00	50.12
HT-IV(A)	Irrigation and Agriculture	2684.19	2182.64	4866.83
HT-IV(B)	CPWS Schemes	172.20	16.66	188.87
HT-V(A)	Railway Traction	467.62	371.67	839.30
HT-V(B)	HMR	90.76	0.00	90.76
HT-VI	Townships and Residential Colonies	0.00	82.86	82.86
HT-VII	Temporary Supply	0.00	0.31	0.31
HT-VIII	RESCOs	0	0	0.00
HT- IX	Electric Vehicle Charging Stations	0.00	0.00	0.00
Total		33974.50	9052.35	43026.84

8.3.2 The total revenue at reference tariffs determined by the Commission for FY 2023-24 is Rs.43026.84 crore and considering the approved energy sales of 74068.70 MU, the average recovery of cost as per the above tariff schedule works out to Rs.5.81/kWh.

- 8.3.3 The average CoS for FY 2023-24 is Rs.7.02/kWh and the average recovery of cost through revenue realisation is Rs.5.81/kWh, leaving a deficit of Rs.1.21/kWh. This deficit needs to be recovered by way of other incomes/revenues (non-tariff income, revenue from cross subsidy surcharge and revenue from additional surcharge) and the subsidy of State Government to compensate TSDISCOMs for supply of electricity at subsidised rates for certain category of consumers.
- 8.3.4 The non-tariff income for FY 2023-24 has been projected as Rs.28.18 crore and Rs.33.81 crore for TSSPDCL and TSNPDCL respectively. The Commission has considered the non-tariff income of Rs.28.18 crore and Rs.33.81 crore for TSSPDCL and TSNPDCL respectively for FY 2023-24.
- 8.3.5 The revenue from Cross Subsidy Surcharge (CSS) for FY 2023-24 has been projected as Rs.101.06 crore for TSSPDCL, considering the proposed category-wise CSS and projected open access consumption of 602.14 MU. TSNPDCL has not projected any open access consumption in FY 2023-24. The CSS determined by the Commission for FY 2023-24 has been detailed in Chapter 9 of the Order. Considering the projected open access consumption of 602.00 MU and the category-wise CSS approved for FY 2023-24, the Commission has determined the revenue from CSS as Rs.98.00 crore for TSSPDCL. The Commission has not projected any revenue from CSS for TSNPDCL.

Revenue from Additional Surcharge

- 8.3.6 The revenue from Additional Surcharge for FY 2023-24 has been projected as Rs.102.23 crore for TSSPDCL, considering the rate as approved for H2 of 2022-23. TSNPDCL has not projected any open access consumption in FY 2023-24. The Commission vide its Orders dated 20.03.2023 in O.P.Nos.75&76 of 2022 has determined the Additional Surcharge of Rs.0.39/kWh for H1 of FY 2023-24. The Additional Surcharge for H2 of FY 2023-24 shall be determined at a later date based on the filings of TSDISCOM. For the purpose of this Order, the Commission has considered the Additional Surcharge of Rs.0.39/kWh for H2 of FY 2023-24. Considering the projected open access consumption of 602.14 MU and the Additional Surcharge of Rs.0.39/kWh for H1 and H2, the Commission has determined the revenue from Additional Surcharge as

Rs.23.48 crore for TSSPDCL. The Commission has not projected any revenue from Additional Surcharge for TSNPDCL.

8.4 REVENUE GAP AT REFERENCE TARIFFS

8.4.1 The revenue gap determined by the Commission at the Reference Tariffs is as shown in the Table below:

Table 8.4: Revenue gap at Reference Tariffs determined by the Commission for FY 2023-24

		(Rs.crore)		
Particulars		TSSPDCL	TSNPDCCL	TOTAL
1.0	Revenue requirement	35473.67	16533.11	52006.78
2.0	Revenue (2.1 + 2.2 + 2.3 + 2.4)	34124.16	9086.16	43210.32
2.1	Revenue from determined tariff	33974.50	9052.35	43026.84
2.2	Non-Tariff Income	28.18	33.81	61.99
2.3	Revenue from CSS	98.00	-	98.00
2.4	Revenue from AS	23.48	-	23.48
3.0	Revenue Deficit (1.0 -2.0)	1349.52	7446.95	8796.47
4.0	Revenue Deficit attributable to CESS, Sircilla	-	328.35	328.35
5.0	Total Revenue Deficit (3.0 + 4.0)	1349.52	7775.30	9124.82

8.5 FULL COST RECOVERY TARIFF SCHEDULE

8.5.1 The Commission after examining the cost, revenue and cross subsidy for each consumer category and considering the Reference Tariff Schedule has determined the Full Cost Recovery Tariff Schedule (FCRTS) for FY 2023-24. If this FCRTS is levied on different consumer categories for consumption during FY 2023-24, TSDISCOMs will be able to meet the approved revenue requirement in full.

8.5.2 The revenue is computed as per the Reference Tariff Schedule, for each consumer category based on the approved sales for FY 2023-24. The non-tariff income is apportioned amongst various consumer categories.

8.5.3 The category-wise revenue including the non-tariff income is compared with the category-wise cost of supply, based on the cost of service determined for the respective consumer categories. Based on the cost and revenue from each consumer category, some consumer categories are classified as subsidising if the revenue is more than the cost (surplus) and others are subsidised if the revenue is less than cost (deficit).

- 8.5.4 The sum of surplus of revenue over cost available from subsidising categories is first utilised to meet the deficit of subsidized consumer categories other than LT-I(Domestic) and LT-V(Agricultural). The remaining surplus, if any, is allocated to LT-I(Domestic) and LT-V(Agricultural) categories.
- 8.5.5 After allocation of the surplus available, the net deficit (cost for that category less revenue from the category and surplus allocated to that category) is computed for LT-I(Domestic) and LT-V(Agricultural) consumer categories. The net deficit computed for LT-I and LT-V categories is Rs.9124.82 crore.
- 8.5.6 As there is no other source of revenue to meet the remaining cost, the energy rate/charge for LT-I(Domestic) and LT-V(Agricultural) categories is revised upwards by an amount equal to net deficit divided by approved sales. By doing so, the revenue from tariff and allocated surplus will be sufficient to meet the cost.
- 8.5.7 Following the methodology detailed above, the Commission has drawn up a FCRTS for each TSDISCOM. If TSDISCOMs levy the tariff as per FCRTS for FY 2023-24, they would recover the approved ARR in full. The FCRTS for FY 2023-24 is as shown below:

Table 8.5: Full Cost Recovery Tariff Schedule for FY 2023-24

Category	Fixed Charge Rs./Month		Energy Charge (Rs./Unit)	
	Unit	Rate	TSSPDCL	TSNPDCL
Low Tension				
LT-I: Domestic				
LT-I(A): Upto 100 units/month				
0-50		10	6.00	6.89
51-100		10	3.10	3.10
LT-I(B)(i): Above 100 units/month & Upto 200 units/month				
0-100		10	3.40	3.40
101-200		10	4.80	4.80
LT-I(B)(ii): Above 200 units/month				
0-200		10	5.10	5.10
201-300		10	7.70	7.70
301-400		10	9.00	9.00
401-800		10	9.50	9.50
Above 800 Units		10	10.00	10.00
LT-II: Non-Domestic/Commercial				
LT-II(A): Upto 50 units/month				
0-50	kW	60	7.00	7.00
LT-II(B): Above 50 units/month				
0-100	kW	70	8.50	8.50
101-300	kW	70	9.90	9.90
301-500	kW	70	10.40	10.40
Above 500	kW	70	11.00	11.00
LT-II(C): Advertisement Hoardings				
	kW	70	13.00	13.00

Category	Fixed Charge Rs./Month		Energy Charge (Rs./Unit)	
	Unit	Rate	TSSPDCL	TSNPDCL
LT-II(D): Haircutting salons consuming upto 200 units/month				
0-50	kW	60	5.30	5.30
51-100	kW	60	6.60	6.60
101-200	kW	60	7.50	7.50
LT-III: Industry				
Industries	kW	75	7.70	7.70
Seasonal Industries (off season)	kW	75	8.40	8.40
Pisciculture/Prawn culture	kW	36	6.20	6.20
Sugarcane crushing	kW	36	6.20	6.20
Poultry farms	kW	65	7.00	7.00
Mushroom, Rabbit, Sheep and Goat farms	kW	75	7.30	7.30
LT-IV: Cottage Industries				
(A) Cottage Industries		20	4.00	4.00
(B) Agro Based Activities		20	4.00	4.00
LT-V: Agricultural				
LT-V(A): Agriculture				
Corporate Farmers			2.50	2.50
Other than Corporate Farmers			0.62	8.02
LT-V(B): Others				
Horticulture nurseries with CL upto 15 HP		20	4.00	4.00
LT-VI: Street Lighting & PWS Schemes				
LT-VI(A): Street Lighting				
Panchayats		32	7.10	7.10
Municipalities		32	7.60	7.60
Municipal Corporations		32	8.10	8.10
LT-VI(B): PWS Schemes				
Panchayats		32	6.00	6.00
Municipalities		32	7.10	7.10
Municipal Corporations		32	7.60	7.60
LT-VII: General				
LT-VII(A): General Purpose	kW	21	8.30	8.30
LT-VII(B): Wholly Religious Places				
Load upto 2 kW	kW	30	5.00	5.00
Load above 2 kW	kW	30	5.00	5.00
LT-VIII: Temporary Supply				
LT-IX: EV Charing Stations				
	kW	50	6.00	6.00
High Tension				
HT-I: Industry				
HT-I(A): Industry General				
11 kV	kVA	475	7.65	7.65
33 kV	kVA	475	7.15	7.15
132 kV and above	kVA	475	6.65	6.65
HT-I(A): Lights and Fans				
11 kV			7.65	7.65
33 kV			7.15	7.15
132 kV and above			6.65	6.65
HT-I(A): Poultry Farms				
11 kV	kVA	475	7.65	7.65
33 kV	kVA	475	7.15	7.15
HT-I(A): Industrial Colonies				
11 kV		0	7.30	7.30
33 kV		0	7.30	7.30
132 kV and above		0	7.30	7.30
HT-I(A): Seasonal Industries				
11 kV	kVA	475	8.60	8.60

Category	Fixed Charge Rs./Month		Energy Charge (Rs./Unit)	
	Unit	Rate	TSSPDCL	TSNPDCL
33 kV	kVA	475	7.90	7.90
132 kV and above	kVA	475	7.70	7.70
HT-I(A): Optional Category with Load upto 150 kVA				
11 kV	kVA	100	8.00	8.00
HT-I(B): Ferro Alloy Units				
11 kV	kVA	475	7.65	7.65
33 kV	kVA	475	7.15	7.15
132 kV and above	kVA	475	6.65	6.65
HT-II: Others				
HT-II(A): Others				
11 kV	kVA	475	8.80	8.80
33 kV	kVA	475	8.00	8.00
132 kV and above	kVA	475	7.80	7.80
HT-II(B): Wholly Religious Places				
11 kV	kVA	260	5.00	5.00
33 kV	kVA	260	5.00	5.00
132 kV and above	kVA	260	5.00	5.00
HT-III: Airports, Railway stations and Bus stations				
11 kV	kVA	475	8.50	8.50
33 kV	kVA	475	7.85	7.85
132 kV and above	kVA	475	7.45	7.45
HT-IV: Irrigation, Agriculture & CPWS Schemes				
HT-IV(A): Irrigation and Agriculture				
11 kV	kVA	275	6.30	6.30
33 kV	kVA	275	6.30	6.30
132 kV and above	kVA	275	6.30	6.30
HT-IV(B): CPWS Schemes				
11 kV	kVA		6.10	6.10
33 kV	kVA		6.10	6.10
132 kV and above	kVA		6.10	6.10
HT-V: Railway Traction				
HT-V(A): Railway Traction				
	kVA	475	5.05	5.05
HT-V(B): HMR				
	kVA	475	4.95	4.95
HT-VI: Townships and Residential Colonies				
11 kV	kVA	260	7.30	7.30
33 kV	kVA	260	7.30	7.30
132 kV and above	kVA	260	7.30	7.30
HT-VII: Temporary Supply				
11 kV	kVA	500	11.80	11.80
33 kV	kVA	500	11.00	11.00
132 kV and above	kVA	500	10.80	10.80
HT-VIII: RESCO				
11 kV				4.84
HT-IX: EV Charging Stations				
11 kV	kVA	100	6.00	6.00
33 kV	kVA	100	6.00	6.00
132 kV and above	kVA	100	6.00	6.00

8.5.8 In the absence of any external subsidy u/s 65 of the Act, TSDISCOMs will have to charge the rates contained in the above FCRTS to generate the revenue required to meet the approved cost.

8.6 COMMUNICATION WITH GoTS WITH REGARD TO SUBSIDY COMMITMENT

8.6.1 The Commission, taking into consideration the statement of GoTS in the Public Hearing held on 24.02.2023 at Hyderabad, has corresponded with GoTS vide the letter No.TSERC/Secy/ARR 2023-24/D.No.157/23 dated 18.03.2023 informing that the Commission after examining each component of the filings made by TSDISCOMs have determined the revenue deficit for both TSDISCOMs as Rs.9124.82 crore for FY 2023-24.

8.6.2 The details of requirement of subsidy amount as communicated to GoTS is shown in the Table below:

Table 8.6: Requirement of subsidy amount as communicated to GoTS for FY 2023-24

(Rs.crore)					
Sl. No.	Consumer category	TSSPDCL	TSNPDCL	CESS, Sircilla	Total
1	LT-I: Domestic	644.32	713.97	22.73	1381.02
2	LT-V: Agricultural	705.20	6732.98	305.62	7743.80
3	Total	1349.52	7446.95	328.35	9124.82

8.6.3 In the letter to GoTS, the Commission has placed the Full Cost Recovery Tariff Schedule (FCRTS) for FY 2023-24, which TSDISCOMs have to charge in the absence of any external subsidization under Section 65 of the Act in order to recover the Commission determined ARR. The Commission also prepared a Retail Supply Tariff Schedule (RSTS) for FY 2023-24 duly considering the following:

- a) If the RSTS is to be implemented, the licensees have to be compensated by the GoTS under Section 65 of the Act to the extent of Rs.9124.82 crore for FY 2023-24.
- b) In case GoTS wishes to further reduce tariffs for any class of consumers in the RSTS, then the consequential subsidy shall have to be borne by the GoTS.

8.6.4 In response to the Commission's letter dated 18.03.2022, the Special Chief Secretary to Government, Energy Department, GoTS, vide letter no. 362/Budget.A2/2023-1 dated 20.03.2023 informed that the Government "after careful consideration of the matter have noted the retail sale tariff proposed by the Commission for FY 2023-24 and hereby communicate consent under Section 65 of the Electricity Act, 2003 in respect of grant of subsidy for FY 2023-24 and confirms its commitment to provide subsidy to a tune of Rs.9,124.82 crore out of the total budget allocated for an amount of Rs.12,102.75 crore to

be reimbursed to TSDISCOMs consequent to the approval of Retail Supply Tariff Order for FY 2023-24 by the Commission. The Government of Telangana also directs the Commission under Section 108 of the Act, to maintain uniform retail supply tariffs across the State of Telangana i.e, TSDISCOMs (TSSPDCL and TSNPDCL)”.

8.7 RETAIL SUPPLY TARIFF SCHEDULE FOR FY 2023-24

8.7.1 The Commission in accordance with the decisions detailed in the above chapters and the consent from GoTS for provisions of subsidy, hereby determines the Retail Supply Tariffs for FY 2023-24. The Retail Supply Tariffs along with the terms and conditions approved in this Order shall be applicable w.e.f. 01.04.2023 in respect of TSDISCOMs (TSSPDCL & TSNPDCL) and CESS, Sircilla in the Telangana State.

Table 8.7: Retail Supply Tariff Schedule as determined by the Commission for FY 2023-24

Category	Fixed/Demand Charge		Energy Charge
	Unit	Rs./Unit/Month	Rs./kWh or Rs./kVAh
Low Tension			
LT-I: Domestic			
LT-I(A): Upto 100 units/month			
0-50	kW	10	1.95
51-100	kW	10	3.10
LT-I(B)(i): Above 100 units/month & Upto 200 units/month			
0-100	kW	10	3.40
101-200	kW	10	4.80
LT-I(B)(ii): Above 200 units/month			
0-200	kW	10	5.10
201-300	kW	10	7.70
301-400	kW	10	9.00
401-800	kW	10	9.50
Above 800 Units	kW	10	10.00
LT-II: Non-Domestic/Commercial			
LT-II(A): Upto 50 units/month			
0-50	kW	60	7.00
LT-II(B): Above 50 units/month			
0-100	kW	70	8.50
101-300	kW	70	9.90
301-500	kW	70	10.40
Above 500	kW	70	11.00
LT-II(C): Advertisement Hoardings			
	kW	70	13.00
LT-II(D): Haircutting salons consuming upto 200 units/month			
0-50	kW	60	5.30
51-100	kW	60	6.60
101-200	kW	60	7.50
LT-III: Industry			
Industries	kW	75	7.70
Seasonal Industries (off season)	kW	75	8.40
Pisciculture/Prawn culture	kW	36	6.20

Category	Fixed/Demand Charge		Energy Charge
	Unit	Rs./Unit/Month	Rs./kWh or Rs./kVAh
Sugarcane crushing	kW	36	6.20
Poultry farms	kW	65	7.00
Mushroom, Rabbit, Sheep and Goat farms	kW	75	7.30
<i>For Rice Mills under LT-III Industry, the upper limit of contract load shall be 93 kW/125 HP for the remaining consumers under LT-III Industry, the upper limit of contract load shall be 75 kW/100 HP</i>			
LT-IV: Cottage Industries			
LT-IV(A): Cottage Industries	kW	20/kW subject to a minimum of Rs.30/Month	4.00
LT-IV(B): Agro Based Activities	kW	20/kW subject to a minimum of Rs.30/Month	4.00
<i>For LT-IV(B) Agro Based Activity, the upper limit of Connected Load for Sheep farming, Goat farming, and Dairy farming activities shall be 15 HP; For the remaining consumers under LT-IV(B) Agro Based Activity, the upper limit of Connected Load shall be 10 HP.</i>			
LT-V: Agricultural			
LT-V(A): Agriculture			
Corporate Farmers	HP		2.50
Other than Corporate Farmers	HP		0.00
LT-V(B): Others			
Horticulture Nurseries with CL upto 15 HP	HP	20	4.00
LT-VI: Street Lighting & PWS Schemes			
LT-VI(A): Street Lighting			
Panchayats	kW	32	7.10
Municipalities	kW	32	7.60
Municipal Corporations	kW	32	8.10
LT-VI(B): PWS Schemes			
Panchayats	HP	32/HP subject to a minimum of Rs.50/Month	6.00
Municipalities	HP	32/HP subject to a minimum of Rs.100/Month	7.10
Municipal Corporations	HP	32/HP subject to a minimum of Rs.100/Month	7.60
LT-VII: General			
LT-VII(A): General Purpose	kW	21	8.30
LT-VII(B): Wholly Religious Places			
Load upto 2 kW	kW	30	5.00
Load above 2 kW	kW	30	5.00
LT-VIII: Temporary Supply	kW	21	12.00
<i>For LT-VIII Temporary Supply, the consumer shall be required to deposit in advance the estimated consumption charges along with other charges as stipulated in the Tariff Order.</i>			
LT-IX: EV Charing station	kW	50	6.00
High Tension			
HT-I(A): Industry General			
11 kV	kVA	475	7.65
33 kV	kVA	475	7.15
132 kV and above	kVA	475	6.65
HT-I(A): Lights and Fans			
11 kV			7.65
33 kV			7.15
132 kV and above			6.65

Category	Fixed/Demand Charge		Energy Charge
	Unit	Rs./Unit/Month	Rs./kWh or Rs./kVAh
HT-I(A): Poultry Farms			
11 kV	kVA	475	7.65
33 kV	kVA	475	7.15
HT-I(A): Industrial Colonies			
11 kV			7.30
33 kV			7.30
132 kV and above			7.30
HT-I(A): Seasonal Industries			
11 kV	kVA	475	8.60
33 kV	kVA	475	7.90
132 kV and above	kVA	475	7.70
HT-I(A): Optional Category with Load upto 150 kVA			
11 kV	kVA	100	8.00
HT-I(B): Ferro Alloy Units			
11 kV	kVA	475	7.65
33 kV	kVA	475	7.15
132 kV and above	kVA	475	6.65
<i>No stipulation of Guaranteed off-take for HT-I(B) Ferro Alloy Units</i>			
HT-II(A): Others			
11 kV	kVA	475	8.80
33 kV	kVA	475	8.00
132 kV and above	kVA	475	7.80
HT-II(B): Wholly Religious Places			
11 kV	kVA	260	5.00
33 kV	kVA	260	5.00
132 kV and above	kVA	260	5.00
HT-III: Airports, Railway stations and Bus stations			
11 kV	kVA	475	8.50
33 kV	kVA	475	7.85
132 kV and above	kVA	475	7.45
HT-IV(A): Irrigation and Agriculture			
11 kV	kVA	275	6.30
33 kV	kVA	275	6.30
132 kV and above	kVA	275	6.30
HT-IV(B): CPWS Schemes			
11 kV	kVA	0	6.10
33 kV	kVA	0	6.10
132 kV and above	kVA	0	6.10
HT-V(A): Railway Traction			
	kVA	475	5.05
HT-V(B): HMR			
	kVA	475	4.95
HT-VI: Townships and Residential Colonies			
11 kV	kVA	260	7.30
33 kV	kVA	260	7.30
132 kV and above	kVA	260	7.30
HT-VII: Temporary Supply			
11 kV	kVA	500	11.80
33 kV	kVA	500	11.00
132 kV and above	kVA	500	10.80
For HT-VII Temporary Supply, the consumer shall be required to deposit in advance the estimated consumption charges along with other charges as stipulated in the Tariff Order.			
HT-VIII: RESCO			
11 kV			4.84
HT-IX: EV Charging station			
11 kV	kVA	100	6.00
33 kV	kVA	100	6.00

Category	Fixed/Demand Charge		Energy Charge
	Unit	Rs./Unit/Month	Rs./kWh or Rs./kVAh
132 kV and above	kVA	100	6.00

Time of Day (TOD) Tariffs:

Applicability:

The following Time of Day (TOD) Tariffs are applicable for categories viz.

- i) HT-I(A) Industry General;
- ii) HT-I(A) Poultry Farms;
- iii) HT-II(A) Others'
- iv) HT-II(B) Wholly Religious Places;
- v) HT-III Airports, Railway stations and Bus stations;
- vi) HT-IX Electric Vehicle Charging Stations;

Table 8.2: Applicable Time of Day (TOD) Tariffs for HT-I(A) Industry General and Poultry, HT-II(A) Others, HT-II(B) Wholly Religious places, HT-III airports, Railway stations and Bus stations and HT-IX Electric Vehicle Charging Stations.

Description	During the Period	ToD Tariff over Retail Supply Energy Charges for FY 2023-24
Time of Day (TOD) Tariff	6 am to 10 am and 6 pm to 10 pm	Plus Re.1/unit
Time of Day (TOD) Tariff	10 pm to 6 am	Less Re.1/unit

Chapter-9 Cross Subsidy Surcharge for FY 2023-24

9.1 STATUTORY PROVISIONS

9.1.1 Sections 39(2) (d)(ii), 40(c)(ii) and 42(2) of the Act provides for payment of a surcharge by the consumer when a consumer avails of power under the open access. Further, Section 42(2) of the Act, 2003 provides that the surcharge shall be determined by the Commission and such surcharge shall be utilized to meet the requirements of current level of cross subsidy within the area of supply of the distribution licensee.

9.1.2 Clause 17.1(iii) of the Regulation No.2 of 2005, reproduced below, specifies that the open access consumers shall pay Cross Subsidy Surcharge (CSS) as determined by the Commission, to the distribution licensee.

“The Open access users of the Transmission and/or Distribution System where such open access is for delivery of electricity to the consumer’s premises in the area of supply of a distribution licensee, shall pay to the distribution licensee the (cross-subsidy) surcharge as determined by the Commission from time to time under Section 42(2) of the Act:

Provided that no (cross-subsidy) surcharge shall be payable if the open access is provided to a person who has established a captive generating plant for carrying the electricity to the destination of his own use.”

9.1.3 As per the afore-mentioned provisions, to maintain current level of subsidy, CSS has to be levied on the consumers, who opt for open access.

9.1.4 CSS is normally computed as the difference between (i) the tariff applicable to the relevant category of consumers and (ii) the cost of the distribution licensee to supply electricity to the consumers of the applicable class i.e., CoS for a particular category of consumers.

9.1.5 As per the Tariff Policy, 2016, State Electricity Regulatory Commissions (SERCs) may calculate the cost of supply of electricity by the distribution licensee to consumers of the applicable class as aggregate of (a) per unit weighted average cost of power purchase including meeting the renewable purchase obligation; (b) transmission and distribution losses applicable to the relevant voltage level and commercial losses allowed by the SERC; (c) transmission, distribution and wheeling charges up to the relevant voltage level; and (d) per unit cost of carrying regulatory assets, if applicable.

9.1.6 The Tariff Policy, 2016 specifies the following formula for computation of CSS:

$$S = T - [C / (1-L/100) + D + R]$$

Where,

- S is the surcharge
T is the tariff payable by the relevant category of consumers, including reflecting the Renewable Purchase Obligation
C is the per unit weighted average cost of power purchase by the Licensee, including meeting the Renewable Purchase Obligation
D is the aggregate of transmission, distribution and wheeling charge applicable to the relevant voltage level
L is the aggregate of transmission, distribution and commercial losses, expressed as a percentage applicable to the relevant voltage level
R is the per unit cost of carrying regulatory assets.

9.2 CROSS SUBSIDY SURCHARGE FOR FY 2023-24

TSDISCOMs' Submissions

9.2.1 The TSDISCOMs have filed CSS for FY 2023-24 as per the Tariff Policy, 2016 considering the following for the respective TSDISCOMs:

- Category-wise average realisation from the proposed tariffs.
- Weighted average power purchase cost.
- Wheeling charges and losses computed at different load factors across voltages considering wheeling charges approved by the Commission.

9.2.2 The CSS proposed by TSDISCOMs for FY 2023-24 is as shown below:

Table 9.1: CSS proposed by TSDISCOMs for FY 2023-24

Consumer Category		TSSPDCL	TSNPDCL
HT Category at 11 kV			
HT-I	Industry	1.92	0.16
HT-II	Others	2.25	2.27
HT-III	Airports, Railway stations and Bus stations	2.07	0.82
HT-IV	Irrigation, Agriculture & CPWS	1.09	1.81
HT-VI	Townships and Residential Colonies	1.56	-
HT-VII	Temporary Supply	3.00	3.00
HT Category at 33 kV			
HT-I	Industry	1.72	1.85
HT-I(B)	Ferro Alloys	1.59	-
HT-II	Others	1.94	2.50
HT-IV	Irrigation, Agriculture & CPWS	2.21	2.70
HT-VI	Townships and Residential Colonies	1.68	1.79
HT-VII	Temporary Supply	2.68	4.68
HT Category at 132 kV and above			
HT-I	Industry	1.55	1.73
HT-IB	Ferro Alloys	1.60	-
HT-II	Others	1.92	4.44
HT-III	Airports, Railway Stations and Bus Stations	1.72	-
HT-IV	Irrigation, Agriculture & CPWS	1.39	1.46
HT-V	Railway Traction/HMR	1.26	1.29
HT-VI	Townships and Residential Colonies	-	1.60

Stakeholders Comments`

- 9.2.3 Rationalize the tariffs for industrial consumers and consequently, allow the cross subsidy surcharge in adherence to the mandate of the National Tariff Policy, 2016. The relevant extract of the National Tariff Policy, 2016 is reproduced below:

“8.3 Tariff design: Linkage of tariffs to cost of service

... ..

2. For achieving the objective that the tariff progressively reflects the cost of supply of electricity, the Appropriate Commission would notify a roadmap such that tariffs are brought within $\pm 20\%$ of the average cost of supply. The road map would also have intermediate milestones, based on the approach of a gradual reduction in cross subsidy.

... ..

Surcharge formula:

... ..

Provided that the surcharge shall not exceed 20% of the tariff applicable to the category of the consumers seeking open access.” (Emphasis supplied)

- 9.2.4 Further, the upper limit of allowable Cross-Subsidy Surcharge to be Rs.1.35/kWh and Rs.1.54/kWh for TSSPDCL and TSNPDCL respectively for FY 2023-24 as computed by the Objector:

Table 9.2: Maximum CSS as computed by the objector

TSDiscom	ACoS as per Objector's Assessment	Maximum Tariff	Maximum CSS
	A	B=1.2xA	C=0.2xB
TSSPDCL	5.61	6.73	1.35
TSNPDCL	6.44	7.72	1.54

Rs./kWh

TSDISCOMs Replies

- 9.2.5 Under the purview of the Commission. TSDiscoms would abide by the directions of the Commission in this regard.

Commission's View

- 9.2.6 The Commission determined the CSS as per the formula and methodology specified in Tariff Policy, 2016.

Restricting CSS to 20% of ABR

TSDISCOMs Proposal

- 9.2.7 The Petitioner in the present proposal has requested the Commission not to

restrict the CSS to 20% of tariff payable by the consumer as the tariffs are not within $\pm 20\%$ of Average Cost of Supply (ACoS).

“8.2.3 The “Consultation Paper on Issues pertaining to Open Access, Aug’17” issued by MoP, Gol highlighted the issue of limiting the CSS to 20% of tariff applicable to the consumer category which is presented below:

“The Tariff Policy 2016 mandates SERCs to determine roadmap for reduction of cross subsidy and bring tariff at $\pm 20\%$ Average Cost of Supply, however it restricts Cross Subsidy Surcharge at 20% of the consumer tariff. In case the consumer tariff is more than 120% of Average Cost of Supply, DISCOM will not be able to recover losses through cross subsidy surcharge in case consumer opts for open access. It is essential for SERCs to implement both Para 8.3 -2 and First proviso to para 8.5.1 of the Tariff Policy 2016 simultaneously. If one of the provision could not be implemented due to some reason, the second provision should also not be implanted to that extent”.

8.2.4 Hence, the licensee humbly requests the Commission not to restrict the Cross-Subsidy Surcharge at 20% of tariff payable by the consumer as the tariffs are not within $\pm 20\%$ Average Cost of Supply.”

Stakeholders Comments

9.2.8 CSS is to be restricted to 20% of the Average Billing Rate (ABR) in terms of clause 8.5 of the Tariff Policy. Further, from para 8.3 of the Tariff Policy 2016, it is evident that the cross subsidies in the tariff need to be brought within $\pm 20\%$ of the Average Cost of Supply (ACoS). Apparently, the tariff policy provided a much higher ceiling of 20% of ABR in para 8.5.1 in the determination of the CSS, while it should be capped to 20% of the ACoS itself. In fact, the Hon'ble Ministry of Power has amended the Electricity Rules, 2005, and notified the Electricity (Amendment) Rules, 2022 on 29.12.2022. The Ministry in the notified Rules has capped the surcharge on open access at 20% of the Average Cost of Supply. Since the tariffs are being set with reference to the ACoS, the Hon'ble Commission is requested to cap the surcharge on open access with reference to the ACoS, in line with the Electricity (Amendment) Rules, 2022.

Commission's View

9.2.9 CSS is determined based on the formula and methodology as specified in Tariff Policy, 2016.

Determination of Cross Subsidy Surcharge

9.2.10 Regulation No.4 of 2005, TSDISCOMs shall be allowed to recover the cost of Power it procures for supply to consumers based on the Commission approved

Power Procurement Plan covering each year of the control period. Accordingly, TSDISCOMs should be disallowed from recovering the entire Power Purchase cost in true-up when the Power Procurement Plans for each financial year of the control period itself has not been timely filed for the Commission's approval.

9.2.11 In the integrated rating score methodology introduced by Ministry of Power for assessing the health of TSDISCOMs, one of the parameters is specific disincentives which provides for Tariff Cycle Delays in terms of timely filing of the Petitions.

9.2.12 Further, this amounts to a gross violation of Hon'ble APTEL directives in O.P.No.1 of 2011 as is reproduced below:

"57 In the event of delay in filing of the ARR, truing up and Annual Performance Review, one month beyond the scheduled date of submission of the petition, the State Commission must initiate Suo Moto proceedings for tariff determination in accordance with Section 64 of the Act read with clause 8.1(7) of the Tariff Policy".

TSDISCOMs Replies

9.2.13 TSDISCOMs have undertaken activities for submission of Power Procurement Plan for 4th control period i.e., from FY 2019-20 to FY 2023-24. However, on account of the reasons as given in the delay condonation Interlocutory Applications, TSDISCOMs were not able to file the Power Procurement Plan.

9.2.14 As regards to the Hon'ble APTEL's directions, TSDISCOMs have been filing the ARR petitions on annual basis before the Commission (TSERC) until FY 2018-19 and the present petitions have been filed for ARR, FPT and CSS for FY 2023 24 without any delay. Further, for the period in which the Petitions could not be filed, TSDISCOMs have also not claimed any carrying cost.

Commission's View

9.2.15 In accordance with Clause 12.5 of Regulation No.1 of 2014 as adopted by the Commission read with its subsequent amendments thereof, TSDISCOMs are required to file power purchase true-up of retail supply business giving details of the variation in power purchase cost of previous year along with the ARR for the next year.

Commission's View

9.2.16 The Commission has adopted the CSS computation formula as specified in the Tariff Policy, 2016 for determination of CSS for FY 2023-24.

9.2.17 The Commission has computed TSDISCOM-wise, category-wise, voltage-wise 'T', i.e. per unit tariff (Rs./unit) realized for FY 2023-24 from the relevant category of consumers, calculated based on category-wise revenue anticipated from the approved sales at tariff determined for that category, divided by the approved sales. The value of 'T' computed for each category has been presented in Table below:

Table 9.3: Approved Average Revenue Realisation 'T' for FY 2023-24

Consumer Category		TSSPDCL			TSNPDCL		
		Sales (MU)	Revenue (Rs.crore)	Average Realisation (Rs./kWh)	Sales (MU)	Revenue (Rs.crore)	Average Realisation (Rs./kWh)
LT Categories							
LT-I	Domestic	11346.06	6218.41	5.48	4160.67	1952.04	4.69
LT-II	Non-Domestic/Commercial	2974.84	3432.26	11.54	780.43	914.83	11.72
LT-III	Industry	847.17	757.17	8.94	137.37	146.69	10.68
LT-IV	Cottage Industries	9.50	4.41	4.64	8.68	4.26	4.91
LT-V	Irrigation and Agriculture	11410.74	58.34	0.05	8399.97	50.90	0.06
LT-VI	Street Lighting & PWS Schemes	454.29	349.98	7.70	375.71	265.23	7.06
LT-VII	General	103.75	82.59	7.96	69.41	54.97	7.92
LT-VIII	Temporary Supply	100.49	124.91	12.43	8.07	10.12	12.54
LT-IX	EV Charging Stations	1.64	1.45	8.81	1.25	0.88	7.01
HT Categories							
HT-I	Industry						
	11 kV	4402.12	4471.58	10.16	1033.86	1043.09	10.09
	33 kV	6770.42	6064.03	8.96	284.53	242.67	8.53
	132 kV and above	5425.38	4305.35	7.94	651.85	545.91	8.37
HT-II	Others						
	11 kV	1885.74	2307.10	12.23	187.98	228.21	12.14
	33 kV	1302.04	1327.58	10.20	8.52	10.98	12.89
	132 kV and above	40.39	35.76	8.86	3.05	12.56	41.19
HT-III	Airports, Railway stations and Bus stations						
	11 kV	4.05	4.53	11.20	7.83	8.21	10.49
	33 kV	-	-	NA	-	-	NA
	132 kV and above	55.76	50.12	8.99	-	-	NA
HT-IV	Irrigation and Agriculture						
	11 kV	194.05	129.50	6.67	182.80	125.24	6.85
	33 kV	292.56	187.46	6.41	375.02	241.97	6.45
	132 kV and above	4072.62	2856.39	7.01	2782.89	2199.31	7.90
HT-V	Railway Traction & HMR	676.31	558.38	8.26	547.58	371.67	6.79
HT-VI	Townships and Residential Colonies						
	11 kV	202.26	185.55	9.17	7.73	7.25	9.38
	33 kV	145.97	126.75	8.68	20.59	20.43	9.92
	132 kV and above	-	-	NA	100.67	82.86	8.23
HT-VII	Temporary Supply						
	11 kV	170.56	269.75	15.82	25.34	39.98	15.78
	33 kV	43.08	60.41	14.02	3.32	8.77	26.44
	132 kV and above	-	-	NA	0.00	0.31	NA
HT-VIII	RESCOs	-	-	NA	965.26	467.19	4.84
HT-IX	EV Charging Stations	6.55	4.72	7.21	-	-	NA

9.2.18 The Commission has computed TSDISCOM-wise 'C' i.e., per unit (Rs./unit) weighted average cost of power purchase divided by the approved energy requirement. The value computed for each licensee has been presented in Table below:

Table 9.4: Approved Weighted Average Power Purchase Cost 'C' for FY 2023-24

Particulars	TSSPDCL	TSNPDCL
Power purchase quantum (MU)	60083.73	24072.62
Power purchase cost (Rs. in crore)	26183.99	10750.47
Average power purchase cost per unit (Rs./kWh)	4.36	4.47

9.2.19 The Commission has computed 'D' and 'L' i.e., per unit aggregate of transmission, distribution and wheeling charges and commercial losses applicable for relevant voltage level and by taking transmission charges and voltage-wise distribution charges approved for FY 2023-24 is as shown below:

Table 9.5: Approved voltage-wise distribution charges for FY 2023-24.

Particulars	TSSPDCL		TSNPDCL	
	Charge Rs.kVA/month	Rs./kWh	Charge Rs.kVA/month	Rs./kWh
LT	860.67	1.49	1436.38	2.49
11 kV	341.95	0.59	722.99	1.26
33 kV	38.82	0.07	72.29	0.13
132 kV and above	130.63	0.23	130.63	0.23

9.2.20 The Commission has not approved any regulatory assets in this Order for FY 2023-24, hence 'R' (i.e., per unit cost of carrying regulatory assets) does not arise.

9.2.21 Based on the above, the Commission has computed TSDISCOM-wise, voltage-wise CSS for different categories of consumers applicable to consumers availing of open access at different voltages in the area of supply of the respective TSDISCOMs as below:

Table 9.6: TSSPDCL-CSS determined by the Commission for FY 2023-24

(Rs./kWh)

Consumer Category		Average realisation (AR)	Weighted average PP cost	Aggregate loss %	Aggregate T&D charge	Cost of carrying Regulatory asset	CSS	20% limit of AR	Allowable CSS
		T	C	L	D	R	S		
High Tension									
HT Category at 11 kV									
HT-I	Industry	10.16	4.36	9.86	0.89	0.00	4.44	2.03	2.03
HT-II	Others	12.23	4.36	9.86	0.89	0.00	6.51	2.45	2.45
HT-III	Airports, Railway stations and Bus stations	11.20	4.36	9.86	0.89	0.00	5.48	2.24	2.24
HT-IV	Irrigation, Agriculture & CPWS	6.67	4.36	9.86	0.89	0.00	0.95	1.33	0.95
HT-VI	Townships and	9.17	4.36	9.86	0.89	0.00	3.45	1.83	1.83

Consumer Category		Average realisation (AR)	Weighted average PP cost	Aggregate loss %	Aggregate T&D charge	Cost of carrying Regulatory asset	CSS	20% limit of AR	Allowable CSS
		T	C	L	D	R	S		
	Residential Colonies								
HT-VII	Temporary Supply	15.82	4.36	9.86	0.89	0.00	10.09	3.16	3.16
HT-IX	EV Charging Stations	7.21	4.36	9.86	0.89	0.00	1.49	1.44	1.44
HT Category at 33 kV									
HT-I	Industry	8.96	4.36	6.01	0.29	0.00	4.03	1.79	1.79
HT-II	Others	10.20	4.36	6.01	0.29	0.00	5.27	2.04	2.04
HT-IV	Irrigation, Agriculture & CPWS	6.41	4.36	6.01	0.29	0.00	1.48	1.28	1.28
HT-VI	Townships and Residential Colonies	8.68	4.36	6.01	0.29	0.00	3.75	1.74	1.74
HT-VII	Temporary Supply	14.02	4.36	6.01	0.29	0.00	9.09	2.80	2.80
HT Category at 132 kV and above									
HT-I	Industry	7.94	4.36	2.50	0.23	0.00	3.24	1.59	1.59
HT-II	Others	8.86	4.36	2.50	0.23	0.00	4.16	1.77	1.77
HT-III	Airports, Railway Stations and Bus Stations	8.99	4.36	2.50	0.23	0.00	4.29	1.80	1.80
HT-IV	Irrigation, Agriculture & CPWS	7.01	4.36	2.50	0.23	0.00	2.32	1.40	1.40
HT-V	Railway Traction & HMR	8.26	4.36	2.50	0.23	0.00	3.56	1.65	1.65

Table 9.7: TSNPDCL-CSS determined by the Commission for FY 2023-24

(Rs./kWh)

Consumer Category		Average realisation	Weighted average PP cost	Aggregate loss %	Aggregate T&D charge	Cost of carrying Regulatory asset	CSS	20% limit of AR	Allowable CSS
		T	C	L	D	R	S		
High Tension									
HT Category at 11 kV									
HT-I	Industry	9.09	4.47	9.44	1.61	0.00	3.55	2.02	2.02
HT-II	Others	12.14	4.47	9.44	1.61	0.00	5.60	2.43	2.43
HT-III	Airports, Railway stations and Bus stations	10.49	4.47	9.44	1.61	0.00	3.95	2.10	2.10
HT-IV	Irrigation, Agriculture & CPWS	6.85	4.47	9.44	1.61	0.00	0.31	1.37	0.31
HT-VI	Townships and Residential Colonies	9.38	4.47	9.44	1.61	0.00	2.85	1.88	1.88
HT-VII	Temporary Supply	15.78	4.47	9.44	1.61	0.00	9.24	3.16	3.16
HT-IX	EV Charging Stations	NA	-	-	-	-	-	-	-
HT Category at 33 kV									

Consumer Category		Average realisation	Weighted average PP cost	Aggregate loss %	Aggregate T&D charge	Cost of carrying Regulatory asset	CSS	20% limit of AR	Allowable CSS
		T	C	L	D	R	S		
HT-I	Industry	8.53	4.47	5.89	0.35	0.00	3.43	1.71	1.71
HT-II	Others	12.89	4.47	5.89	0.35	0.00	7.80	2.58	2.58
HT-IV	Irrigation, Agriculture & CPWS	6.45	4.47	5.89	0.35	0.00	1.35	1.28	1.29
HT-VI	Townships and Residential Colonies	9.92	4.47	5.89	0.35	0.00	4.82	1.98	1.98
HT-VII	Temporary Supply	26.44	4.47	5.89	0.35	0.00	21.35	5.29	5.29
HT Category at 132 kV and above									
HT-I	Industry	8.37	4.47	2.50	0.23	0.00	3.56	1.67	1.67
HT-II	Others	41.19	4.47	2.50	0.23	0.00	36.39	8.24	8.24
HT-IV	Irrigation, Agriculture & CPWS	7.90	4.47	2.50	0.23	0.00	3.10	1.58	1.58
HT-V	Railway Traction & HMR	6.79	4.47	2.50	0.23	0.00	1.98	1.36	1.36
HT-VI	Townships and Residential Colonies	8.23	4.47	2.50	0.23	0.00	3.42	1.65	1.65

Table 9.8: Summary of CSS determined by the Commission for FY 2023-24

(Rs./kWh)

Consumer Category		TSSPDCL	TSNPDCL
HT Category at 11 kV			
HT-I	Industry	2.03	2.02
HT-II	Others	2.45	2.43
HT-III	Airports, Railway stations and Bus stations	2.24	2.10
HT-IV	Irrigation, Agriculture & CPWS	0.95	0.31
HT-VI	Townships and Residential Colonies	1.83	1.88
HT-VII	Temporary Supply	3.16	3.16
HT-IX	Electric Vehicle Charging Station	1.44	-
HT Category at 33 kV			
HT-I	Industry	1.79	1.71
HT-II	Others	2.04	2.58
HT-IV	Irrigation, Agriculture & CPWS	1.28	1.29
HT-VI	Townships and Residential Colonies	1.74	1.98
HT-VII	Temporary Supply	2.80	5.29
HT Category at 132 kV and above			
HT-I	Industry	1.59	1.67
HT-II	Others	1.77	8.24
HT-III	Airports, Railway Stations and Bus Stations	1.80	-
HT-IV	Irrigation, Agriculture & CPWS	1.40	1.58
HT-V	Railway Traction & HMR	1.65	1.36
HT-VI	Townships and Residential Colonies	-	1.65

9.3 APPLICABILITY

- 9.3.1 The CSS applicable for FY 2023-24 as approved by the Commission in this Order shall be effective from 01.04.2023 to 31.03.2024.

Chapter-10

Terms & Conditions of Tariff

10.1 TERMS & CONDITIONS OF TARIFF

10.1.1 Applicable with effect from 01.04.2023 to 31.03.2024 in respect of two Distribution Licensees in the Telangana State (i.e., TSSPDCL and TSNPDCL) and also CESS, Sircilla.

10.1.2 The LT Tariffs determined in PART 'A' and HT Tariffs determined in PART 'B' below are subject to the following two general conditions.

- Fuel Surcharge Adjustment (FSA)/Fuel Cost Adjustment (FCA) will be extra as per Regulation No.1 of 2023 as amended from time to time.
- The Tariffs are exclusive of the Electricity duty payable as per the provisions of the Telangana State Electricity Duty Act, 1939 as amended from time to time.

Part 'A'

LT-Tariffs

System of Supply: Low Tension A.C. 50 Cycles

Three Phase Supply at 415 Volts

Single Phase supply at 240 Volts

These tariffs are applicable for supply of electricity to LT consumers with a contracted load of 56 kW/75 HP and below. However, contracted load up to 75 kW/100 HP will be treated as LT, for LT-III Industrial category (for Rice Mills, the contracted load upto 93 kW/125 HP will be treated under LT-III Industrial category).

10.2 LT-I: DOMESTIC

Applicability

10.2.1 This tariff is applicable for supply of electricity for lights, fans and other domestic purposes to domestic premises. *Domestic establishment/Premises is one which is used for dwelling/residential purpose.*

Explanation: For domestic category, the households having a separate kitchen will be treated as a separate establishment.

10.2.2 The LT-Domestic consumers are divided broadly into two sub-categories, viz. LT-I(A), LT-I(B).

- The sub-category LT-I(A) shall be applicable to the consumers having consumption not exceeding 100 units per month.
- The sub-category LT-I(B) has been further sub-divided into LT-I(B)(i) and LT-I(B)(ii).
- LT-I(B)(i) shall be applicable to the consumer with consumption above

100 units but not exceeding 200 units per month.

- LT-I(B)(ii) shall be applicable to the consumer having consumption of above 200 units per month.

10.2.3 The consumer shall be billed electricity charges as shown below:

Category	Fixed Charge (Rs./month)		Energy Charge Rs./kWh
	Unit	Rate	
LT-I: Domestic			
LT-I(A): Not exceeding 100 units/month			
0-50	kW	10	1.95
51-100	kW	10	3.10
LT-I(B)(i): Above 100 units/month & not exceeding 200 units/month			
0-100	kW	10	3.40
101-200	kW	10	4.80
LT-I(B)(ii): Above 200 units/month			
0-200	kW	10	5.10
201-300	kW	10	7.70
301-400	kW	10	9.00
401-800	kW	10	9.50
Above 800 units	kW	10	10.00
Subject to monthly minimum energy charges of			
<u>Single-phase supply:</u>			
Contracted load up to 1 kW:		Rs.25 per month	
Contracted load above 1 kW:		Rs.50 per month	
<u>Three-phase supply:</u>			
		Rs.150 per month	

10.3 LT-II: NON-DOMESTIC/COMMERCIAL

10.3.1 This category has been sub-divided into LT-II(A), LT-II(B), LT-II(C) and LT-II(D)

LT-II(A) and LT-II(B)

Applicability

- A consumer who undertakes Non-Domestic activity.
- A consumer who undertakes Commercial activity.
- A consumer who does not fall in any other LT category i.e., LT-I, LT-III to LT-IX categories.
- Consumers who avail supply of energy for lighting, fans, heating, air conditioning and power appliances in Commercial or Non-Domestic premises.

For example, shops, business houses, offices, public buildings, hospitals, hostels, hotels, choultries, restaurants, clubs, theatres, cinema halls, bus stands and attached offices, railway stations, timber depots, photo studios, printing presses, all servicing & repairing centres including transformer servicing/repairing centres (other than that of TSRTC), bus depots (other than that of TSRTC), laundries, dry cleaning units, gas/oil storage/transfer stations, warehouses, godowns (other than cold storage godowns), storage units or of such similar nature.

- Educational institutions run by individuals, Non-Government Organizations or Private Trusts including student hostels of such educational institutions.

10.3.2 The sub-category LT-II(A) shall be applicable to the consumers having consumption not exceeding 50 units per month.

10.3.3 The sub-category LT-II(B) shall be applicable to the consumers having consumption above 50 units per month.

10.3.4 The consumer shall be billed electricity charges as shown below:

Category	Fixed Charge (Rs./month)		Energy Charge Rs./kWh or (Rs./kVAh)
	Unit	Rate	
LT-II: Non-Domestic/Commercial			
LT-II(A): Not exceeding 50 units/month			
0-50	kW	60	7.00
LT-II(B): Above 50 units/month			
0-100	kW	70	8.50
101-300	kW	70	9.90
301-500	kW	70	10.40
Above 500	kW	70	11.00
Monthly minimum energy charges	Rs.65 per month for single-phase supply Rs.200 per month for three-phase supply		

LT-II(C): Advertising Hoardings

Applicability

10.3.5 Electricity supply availed of through a separate(independent) connection for the purpose of advertisements, hoardings and other conspicuous consumption such as external flood light, displays, neon signs at public places (roads, railway stations, airports etc.), departmental stores, commercial establishments, malls, multiplexes, theatres, clubs, hotels and other such entertainment/leisure establishments.

10.3.6 The consumer shall be billed electricity charges as shown below:

Category	Fixed Charge (Rs./month)		Energy Charge Rs./kWh or (Rs./kVAh)
	Unit	Rate	
LT-II(C): Advertisement Hoardings	kW	70	13.00
Subject to a monthly minimum energy charge of Rs.300 per month.			

LT-II(D): Haircutting Salons

Applicability

- 10.3.7 The tariff is applicable for supply of electricity to hair cutting salons with consumption not exceeding 200 units per month. For consumers whose consumption exceeds 200 units per month shall be billed under LT-II(B) sub-category.
- 10.3.8 The consumer shall be billed electricity charges as shown below:

Category	Fixed Charge (Rs./month)		Energy Charge Rs./kWh or (Rs./kVAh)
	Unit	Rate	
LT-II(D): Haircutting salons consuming not exceeding 200 units/month			
0-50	kW	60	5.30
51-100	kW	60	6.60
101-200	kW	60	7.50
Monthly minimum energycharges	Rs.65 per month for single phase supply		
	Rs.200 per month for three phase supply		

10.4 LT-III: INDUSTRY

Applicability

- 10.4.1 The tariff is applicable for supply of electricity to Low Tension Industrial consumer with a Contracted load upto 75 kW/100 HP, in case of Rice Mills the Contracted load is upto 93 kW/125 HP. Industrial purpose shall mean, supply for purpose of manufacturing, processing and/or preserving goods for sale, cold storage/cold storage godowns but shall not include shops, business houses, offices, public buildings, hospitals, hotels, hostels, choultries, restaurants, clubs, theaters, cinemas, bus stations, railway stations and other similar premises, notwithstanding any manufacturing, processing or preserving goods for sale.
- 10.4.2 This tariff shall also apply to
- Water Works & Sewerage Pumping Stations operated by the Government Departments or Co-operative Societies and pump sets of Railways, pumping of water by industries as subsidiary function and sewerage pumping stations operated by local bodies and Drinking Water filtering plants using Reverse Osmosis (R.O.) process/any other filtering process.
 - Workshops (involving activity of manufacturing), bus depots of TSRTC, servicing and repairing centres of TSRTC, flour mills, oil mills, saw mills, coffee grinders and wet grinders, Ice candy units with or without sale outlets, Goshalas, grass cutting and fodder cutting units.

- iii) The Information Technology (IT) units identified and approved by the Consultative Committee on IT Industry (CCITI) constituted by the Government of Telangana State.
- iv) Newspaper printing unit.
- v) Powder coating units.
- vi) Poultry Farming Units.
- vii) Pisciculture and Prawn culture units.
- viii) Mushroom production units, Rabbit Farms other than those coming under LT-IV with load exceeding 10 HP.
- ix) Sheep Farms, Goat Farms and Dairy Farms other than those coming under LT-IV with load exceeding 15 HP.
- x) Sugar cane crushing.

10.4.3 The consumer shall be billed electricity charges as shown below:

Category	Fixed Charge (Rs./month)		Energy Charge Rs./kWh or (Rs./kVAh)
	Unit	Rate	
LT-III: Industry			
Industries	kW	75	7.70
Pisciculture/Prawn culture	kW	36	6.20
Sugarcane crushing	kW	36	6.20
Poultry farms	kW	65	7.00
Mushroom, Rabbit, Sheep and Goat farm	kW	75	7.30

- Where the metering is on HT side, 1% of total energy consumed shall be deducted from recorded energy for the purpose of billing.
- No manufacturing/production certification shall be required, if the poultry farm has no in-house manufacturing activity such as feed mills. Poultry farms are exempted from general condition of 3 HP minimum load for releasing the service.
- No manufacturing/production certification shall be required for drinking water filtering plants using Reverse Osmosis (R.O.) process/any other filtering process likely. These services are exempted from general condition of 3 HP minimum load.
- These services can be released under single phase supply.

Rates for Seasonal Industries under LT-III

10.4.4 Where a consumer avails supply of energy under LT-III for manufacture of sugar or ice or salt, decorticating, seed processing, fruit processing, ginning and pressing, cotton seed oil mills, tobacco processing and re-drying and for such other industries or processes as may be approved by the Commission from time to time principally during certain seasons or limited periods in the tariff year and if the main plant is regularly closed down during certain months of the tariff year, such consumer may be charged for the months during which the

plant is shut down (**which period shall be referred to as the off-season period**) as follows:

10.4.5 The LT-III off-season tariff rates are

Fixed charge

On 30%of contracted load Rs.75.00/kW/Month

Energy charges

For energy consumed at kVAh or kWh: Rs.8.40

- If the metering is on HT side, 1% of total energy consumed shall be deducted from recorded energy for the purpose of billing.

10.5 LT-IV(A): COTTAGE INDUSTRIES

Applicability

10.5.1 Applicable for supply of energy to Dhobighats & bonafide (as certified by DE/Operations) small Cottage Industries specifically Power looms, Carpentry, Blacksmithy, Kanchari, Gold smithy, Shilpi, Pottery, Mochi, Phenyl production units, Agarbathi production units, Wax Candle making units, Papads manufacturing units, Leather Chappals making, Soap Industry, Plaster of Paris units, Laque Toy making units, Pop Toys, Wood carving/toy making units, Pickles manufacturing, Mango jelly units, Adda leaf plate industry having connected load not exceeding 10 HP including incidental lighting in the premises.

10.5.2 The consumer shall be billed electricity charges as shown below:

Category	Fixed Charge (Rs./month)		Energy Charge (Rs./kWh)
	Unit	Rate	
LT-IV(A): Cottage Industries	kW	Rs.20/- per month per kW of contracted load subject to a minimum of Rs.30/- per month	4.00
Note: Units which exceed 10 HP connected load shall be billed at electricity charges specified for LT-III Industry category.			

LT-IV(B): Agro Based Activities

Applicability

10.5.3 This tariff is applicable to bonafide (as certified by DE/Operations) small-agro based industrial units located in rural areas covering Sisal fibre extraction co-operative units, Vermiculture, Sericulture, Mushroom growing, Rabbit farming, Emu Birds farming, Apiculture (honey making), Chaff-cutting, Millets making with connected load upto 10 HP (including incidental lighting load) and Sheep

farming, Goat farming, Dairy farming activities with connected load upto 15 HP (including incidental lighting load).

10.5.4 The consumer shall be billed electricity charges as shown below:

Category	Fixed Charge (Rs./month)		Energy Charge (Rs./kWh)
	Unit	Rate	
LT-IV(B): Agro Based Activities	kW	Rs.20/- per month per kW of contracted load subject to a minimum of Rs.30/- per month	4.00
Note: Units which exceed connected load specified under applicability for this category shall be billed at tariff specified for LT-III Industry category.			

10.6 LT-V: AGRICULTURAL

Applicability

LT-V(A): Agricultural

10.6.1 This tariff shall apply to the following:

Corporate Farmer (includes poly-houses/green-houses):

- A consumer registered under the Companies Act
- A consumer who is a partnership firm or a Limited Liability Partnership
- Association of persons, Co-operative society and Body of Individuals
- Any permanent Reinforced Cement Concrete (RCC) roof structures not exclusively used for the purposes of farming or storage and located in the farm lands such as farm houses or any other place of dwelling shall be charged in accordance with applicable tariffs.

Other than Corporate Farmer:

- Individual farmer or Joint Family Farmer including poly-houses/green-houses who are individuals or joint families.
- This category is applicable only to those consumers who undertake agricultural activity including floriculture and cultivation of palm trees. The agricultural activities undertaken in green houses/poly-houses shall also be included in this category.

10.6.2 The electricity charges applicable to LT-V Agricultural category is as shown below:

Category	Fixed Charge (Rs./year)		Energy Charge (Rs./kWh)
	Unit	Rate	
LT-V(A): Agricultural with mandatory DSM measures			
Corporate Farmer	HP		2.50
Other than Corporate Farmer	HP		0.00
LT-V(B): Others			
Horticulture Nurseries with CL up to 15 HP	HP	20	4.00

Category	Fixed Charge (Rs./year)		Energy Charge (Rs./kWh)
	Unit	Rate	
<i>Explanation: Horticulture Nurseries with connected load of more than 15 HP shall be billed under LT-III: Industry (General) tariff.</i>			

10.7 LT-VI: STREET LIGHTING AND PWS SCHEMES

Applicability

10.7.1 Applicable for supply of energy for lighting on public roads, streets, thoroughfares including Parks, Markets, Cart-stands, Taxi stands, Bridges and also for PWS schemes and Mission Bhagiratha schemes in the Local Bodies viz., Panchayats/Municipalities/Municipal Corporations. Metering is compulsory irrespective of tariff structure.

10.7.2 The electricity charges for LT-VI(A): Street lighting & PWS schemes are as shown below:

Category	Fixed Charge (Rs./month)		Energy Charge (Rs./kWh)
	Unit	Rate	
LT-VI(A): Street Lighting			
Panchayats	kW	32	7.10
Municipalities	kW	32	7.60
Municipal Corporations	kW	32	8.10
LT-VI(B): PWS Schemes			
Panchayats	HP	Rs.32/HP of contracted load subject to a minimum of Rs.50/-	6.00
Municipalities	HP	Rs.32/HP of contracted load subject to a minimum of Rs.100/-	7.10
Municipal Corporations	HP	Rs.32/HP of contracted load subject to a minimum of Rs.100/-	7.60

10.8 LT-VII: GENERAL

LT-VII(A): General Purpose

Applicability

10.8.1 Applicable for supply of energy to places of worship like Churches, Temples, Mosques, Gurudwaras, Crematoriums which are not covered under LT-VII(B), Government Educational Institutions and Student Hostels run by Government agencies, Charitable Institutions i.e., Public charitable trusts and societies registered under the Societies Registration Act running educational and

medical institutions on a no profit basis, recognized service institutions and registered Old age homes.

10.8.2 The charges applicable are shown below:

Category	Fixed Charge (Rs./month)		Energy Charge (Rs./kVAh or Rs./kWh)
	Unit	Rate	
LT-VII(A): General Purpose	kW	21	8.30
Monthly minimum energy charges	Rs.50 per month for single phase supply		
	Rs.150 per month for three phase supply		
<i>Note: Trivector meters shall be provided for all 10 kW and above load services. Energy charges shall be billed on kVAh for all 10 kW & above services. For loads below 10 kW, energy charges shall be billed on kWh basis.</i>			

LT-VII(B): Wholly Religious Places

Applicability

10.8.3 Applicable for supply of energy to places of worship (namely Churches, Temples, Mosques, Gurudwaras) and Crematoriums.

Applicability of this category shall be subject to the following conditions:

- i) The religious institution owning the place of worship should run such place of worship on no profit basis.
- ii) The religious institution should be registered under the Income Tax Act, 1961.
- iii) The premise for the place of worship shall be structurally distinct from the premises running the activities other than the places of worship.
- iv) The premise for the purpose shall not be owned by any individual (name) but shall be owned by a religious institution or association of a community i.e., a class of persons not less than 15 distinct individuals, having their names registered under one place of worship only.

10.8.4 The charges/tariff applicable are shown below:

Category	Fixed Charge (Rs./month)		Energy Charge (Rs./kVAh or Rs./kWh)
	Unit	Rate	
LT-VII(B): Wholly Religious Places			
Load upto 2 kW	kW	30	5.00
Load above 2 kW	kW	30	5.00
Minimum monthly charges shall not be levied on this sub-category.			

10.9 LT-VIII: TEMPORARY SUPPLY

Applicability

10.9.1 Construction activities like construction of all types of structures/infrastructure such as residential/commercial buildings (height of 10 meters and above), Row houses, Gated communities construction by Real Estate Developers meant for

sale purpose, bridges, fly-overs, dams, power stations, roads, aerodromes, tunnels for laying of pipelines, etc. The relevant tariff for temporary supply shall be applicable during the phase of construction. Construction activities of structures of height less than 10 meters will fall under LT-II and HT-II, as relevant.

10.9.2 Exhibitions, Circuses, Outdoor film shootings, Touring talkies, Make-shift pandals for festivals, Makeshift pandals for public gatherings and such other similar activities that are set up in open areas with no permanent structure.

10.9.3 For buildings above 10 meters height regular supply shall be provided with a regular supply upon submission of occupancy certificate/completion certificate as per Para 21 of Hyderabad Revised Building Rules, 2006 issued vide erstwhile Andhra Pradesh G.O.Ms.No.86 dated 03.03.2006 or by any other municipal authority in the Telangana State and on payment of the required charges.

10.9.4 The charges applicable are shown below:

Category	Fixed Charge (Rs./month)		Energy Charge (Rs./kVAh or Rs./kWh)
	Unit	Rate	
LT-VIII: Temporary Supply	kW	21	12.00
A monthly minimum energy charge at Rs.125 per kW or part thereof of the contracted load for first 30 days or part thereof and for every subsequent period of 15 days or part thereof a charge of Rs.75 per kW to be levied.			
<i>Note: Trivector meters shall be provided for all 10 kW and above load services. Energy charges shall be billed on kVAh for all 10 kW & above services. For loads below 10 kW, energy charges shall be billed on kWh basis.</i>			

10.10 LT-IX: ELECTRIC VEHICLE CHARGING STATIONS

10.10.1 The charges applicable to this category are shown below:

Category	Fixed Charge (Rs./month)		Energy Charge (Rs./kVAh or Rs./kWh)
	Unit	Rate	
LT-IX: Electric Vehicle Charging Stations	kW	50	6.00
Monthly minimum energy charges	Rs.65 per month for single phase supply Rs.200 per month for three phase supply		

10.11 TERMS & CONDITIONS OF LT SUPPLY

10.11.1 General Conditions of LT Tariff:

i) Fuel Surcharge Adjustment (FSA)/Fuel Cost Adjustment (FCA) will be

- extra as per Regulation No.1 of 2023 as amended from time to time.
- ii) For Categories LT-I, LT-II and LT-VII supply shall be extended on a single phase only up to 5 kW of Contracted Load.
 - iii) The Tariffs are exclusive of Electricity Duty payable as per the provisions of the Telangana State Electricity Duty Act,1939 as amended from time to time.
 - iv) The Licensee shall have the right to classify or re-classify the category of supply of energy to any premises under an appropriate category of LT Tariff.

10.11.2 Additional charges for belated payments of charges

- i) The C.C. bills shall be paid by the consumers within the due date mentioned in the bill, i.e., 15 days from and including the date of the bill.
- ii) If payment is made after due date in case of LT- I(A), LT-I(B), LT-II(A), LT-II(D), LT-IV and LT-V(B), the consumers are liable to pay Delayed Payment Surcharge (DPS) per month on the bill amount at the rates given in table below:

LT-I(A)	Rs.10 per month
LT-I(B), LT-II(A), LT-II(D), LT-IV and LT-V(B)	Rs.25 per month

- iii) In case of LT- II(B), LT-II(C), LT-III, LT-VI, LT-VII & LT-IX, the Licensee shall levy Delayed Payment Surcharge (DPS) on the bill amount at the rate of 5 paisa/Rs.100/day calculated from the due date mentioned on the bill, up to the date of payment or Rs.150/- whichever is higher. In case of grant of instalments, the Licensees shall levy interest at the rate of 18% per annum on the outstanding amounts compounded annually and the two (DPS and Interest) shall not be levied at the same time.
- iv) Where the C.C. bills amount is not paid within 15 days from the due date the power supply is liable for disconnection.
- v) For re-connection of power supply after disconnection, the consumer has to pay reconnection fee. The re-connection charges shall not be collected without actual disconnection.

10.12 CATEGORY-WISE SPECIFIC CONDITIONS OF LT TARIFF

LT-I: Domestic

10.12.1 Where electricity supplied to domestic premises is required to be used for non-domestic or commercial purposes, a separate connection should be taken for such loads under LT-II category, failing which the entire supply shall be charged at LT-II category tariff, apart from liability for penal charges as per the terms and conditions of the supply.

10.12.2 For common services like water supply, common lights in corridors and supply for lifts in multistoried buildings, consumers shall be billed electricity charges as follows:

- i) At LT-I(B)(ii) if the plinth area occupied by the domestic consumers is

- 50% or more of the total plinth area.
- ii) At LT-II(B), if the plinth area occupied by the domestic consumers is less than 50% of the total plinth area.
- iii) If the service in a flat is for domestic purpose, it shall be charged at LT-I (Domestic) as applicable. If the service in a flat is for commercial or office use or any other purpose, which does not fall under any of LT-I and/or LT-III to IX, it shall be charged at LT-II(A), II(B) or II(D) Non-Domestic/Commercial as applicable.
- iv) Number of service connections for common usage in multistoried buildings/apartment/residential houses are limited to one and the same is to be billed under LT-I(B)(ii) or LT-II(B) as applicable.
- v) If more than one service is provided for common usage in the same premises, multistoried buildings/apartment/residential houses, the consumption of all the common meters shall be clubbed and billed under LT-I(B)(ii) or LT-II(B) as applicable.

10.12.3 Single Point LT-services released to residential complexes of State Government/Central Government Departments under specific orders of Licensee with Contracted Load/Connected Load in excess of 56 kW/75 HP shall continue to be billed under LT-I(B) Domestic tariff slab rate applicable based on the average monthly energy consumption per each authorized dwelling i.e., total energy consumption in the month divided by the number of such dwelling units, in the respective residential complexes. The above orders are subject to the following conditions, namely:

- i) Orders are applicable to Police Quarters and other State/Central Government residential complexes specifically sanctioned by the Licensee.
- ii) Provided that, it is at the request of the designated officer, who shall give an unconditional undertaking that he will pay up the bill for CC charges to the Licensee irrespective of collection from the individual occupants.
- iii) The consumers shall be billed at the appropriate slab rate in tariff, based on the average monthly consumption per dwelling unit in the complex.
- iv) Meter reading shall be taken monthly in all such cases.
- v) Customer charges calculated at corresponding rate applicable slab-wise per month for each dwelling unit shall be billed.

10.12.4 Where an individual consumer seeks to avail of supply for Domestic purpose with a connected load of over 56 kW/75 HP, such consumers may be given supply under this category subject to the following conditions:

- i) The metering shall be provided by TSDISCOMs on HT side of the distribution transformer.
- ii) Meter reading shall be done monthly and the energy recorded in the HT metering shall be billed at tariff rates under LT-I(B)(ii).

LT-II: Non-Domestic/Commercial

- 10.12.5 For loads 10 kW and above, a LT tri-vector meter shall be provided and energy charges shall be billed on kVAh.
- 10.12.6 For loads below 10 kW, the billing shall be based on kWh only.
- 10.12.7 In respect of the complexes having connected load of more than 56 kW/75 HP released under specific orders of Licensee for a Single Point Bulk supply, where such complex is under the control of a specified organization/agency taking responsibility to pay monthly current consumption bills regularly and abide by the Terms and Conditions of supply as per the agreement, the billing shall be done at the highest slab tariff rate under LT-II(B). The energy shall be measured on the HT side of the transformer. Where energy measured on LT side of the transformer, 3% of the recorded energy during the month shall be added to arrive at the consumption on High Tension side of the transformer.

LT-III: Industry

- 10.12.8 The connected load shall not exceed the contracted load specified in the agreement as per sanction accorded for the service. The fixed charges shall be computed based on the contracted Load or actual Recorded Demand whichever is higher. For the purpose of billing, 1 kVA shall be treated as equal to 1 kW.
- 10.12.9 **Sugarcane Crushing:** Sugar cane crushing operations will be allowed under the existing agricultural connections with the specific permission from DE (Operation) concerned.
- 10.12.10 **Metering and Load Conditions:**
- i) A LT Tri-vector meter shall be provided for the consumers with contracted load of 10 kW/13 HP to 37.5 kW/50 HP.
 - ii) For loads above 37.5 kW/50 HP to 75 kW/100 HP (93 kW/125 HP for Rice Mills), the metering shall be provided on HT side of the Distribution Transformer.
 - iii) Energy charges shall be billed on kVAh basis, for all consumers with contracted load of 10 kW/13 HP and above. For loads below 10 kW/13 HP, billing shall be done based on kWh.
 - iv) Where the recorded demand of any service connection under this category exceeds the 75 kVA (93 kVA for Rice Mills) (1 kVA = 1 kW), such excess demand shall be billed at the demand charge prescribed under HT-I (11 kV supply).

- v) Where metering is provided on LT side of transformer (due to space constraints), 3% of the recorded energy during the month shall be added to arrive at the consumption on High Tension side of the transformer.

Seasonal Industries

- 10.12.11 Consumers, classified as seasonal load consumers, who are desirous of availing of the seasonal benefits shall specifically declare their season at the time of entering into the agreement that their loads should be classified as seasonal loads.
- 10.12.12 The period of season shall not be less than four (4) continuous months. However, consumer can declare a longer seasonal period as per actuals.
- 10.12.13 Existing eligible consumers who have not opted earlier for availing of seasonal tariffs will also be permitted to opt for seasonal tariff on the basis of application to the concerned Divisional Engineer of the Licensee.
- 10.12.14 A consumer, who desires to have a change in the period classified as “season” declared by him, shall file a declaration at least a month before commencement of the respective tariff year.
- 10.12.15 The seasonal period once notified cannot be changed, during one Tariff year.
- 10.12.16 The off-season tariff is not available to composite units having seasonal and other categories of loads.
- 10.12.17 Any consumer who after declaring the period of season consumes power for his main plant during the off-season period, shall not be entitled to this concession during that tariff year.
- 10.12.18 Development charges as applicable to regular LT consumers shall be paid by the consumers for availing of supply under the above said category with seasonal benefits. The consumers who have paid the development charges already as regular consumers need not pay the development charges.

LT-V: Agricultural

- 10.12.19 Agricultural consumers are permitted to use one lamp of 15 watts or three lamps of 5 watts each, near the main switch as pilot lamps.
- 10.12.20 Supply to the LT Agricultural services will be suitably regulated as notified by the Licensee from time to time.

10.12.21 DSM Measures includes frictionless foot valve, capacitor of adequate rating, HDPE or RPVC piping at suction and/or delivery and ISI marked mono-block or submersible pump set.

10.12.22 All new connections shall be given only if the farmer uses a five (5) star rated pump and complies with the DSM measures and with meters.

LT-VI: Street lighting and PWS Scheme

LT-VI(A): Street lighting

10.12.23 The cost of fittings shall be borne or paid for by the Local bodies. The responsibility for maintenance including renewals and replacements rests with the Local bodies viz., Panchayats, Municipalities, Municipal Corporations etc.

10.12.24 Where the cost of fittings is borne by the Licensee, the first supply of filament lamps, fluorescent tubes, mercury vapor lamps including special type lamps along with their fittings will be made by the Licensee at its cost. In such cases, consumer (Local bodies) will have to pay fixed charges. However, where the cost of fittings is borne by the consumer but maintenance is done by the Licensee, the consumer will have to pay the fixed charges. The details of the fixed charges to be paid in each case are detailed below:

Sl. No.	Fittings for	Fixed charges Per Month where the cost of fittings is borne by Licensee	Fixed charges per month where the cost of fittings is borne by the Local Body but maintenance by Licensee
		Rs.	Rs.
1	Ordinary Filament Lamp	2	1
2	Fluorescent Lamp 40 W Single Fixture	7	4
3	Fluorescent Lamp 40 W Double Fixture	8	4
4	M.V.Lamps 80 W Fixture	12	6
5	M.V.Lamps 125 W Fixture	15	8
6	M.V.Lamps 250 W Fixture	45	23
7	M.V.Lamps 400 W Fixture	50	25

10.12.25 The replacement of filament lamps, fluorescent tubes, mercury vapor and other special type of lamps will be done by the Local Body at its cost. However, in urban areas till such time the Municipalities and Corporations make their own arrangements for such replacements the Licensee may, if the consumer so desires, carry out the replacement provided the Local Body supplies the lamps and tubes. The consumer will in such cases be billed for labour charges at the

rate of Rs.2 per replacement. However, in rural areas, such replacement of bulbs supplied by the Local Body will be made by the Licensee without collecting labour charges. For this purpose the area coming under Gram Panchayat shall constitute the 'Rural Area'.

10.12.26 **Additional Charges:** Every local body shall pay an additional charge equivalent to any tax or fee levied by it under the provisions of any law including the Corporation Act, District Municipalities Act or Gram Panchayat Act on the poles, lines, transformers and other installations through which the local body receives the supply.

LT-VIII: Temporary Supply

10.12.27 Temporary supply can be given on the request of a consumer initially for a period up to one year as per the tariff applicable under the temporary supply category. After the expiry of one year, the consumer is at liberty to seek further extension.

10.12.28 Requests for temporary supply of energy cannot be considered unless there is a clear notice of at least one week in the case of domestic and three months in case of other types of supply. If supply is required at a short notice, in addition to the applicable electricity charges, an urgency charge, as specified in miscellaneous charges is also to be paid.

10.12.29 Estimated cost of the works means the cost of works for making the necessary arrangements for supplying energy including the cost of distribution lines, switchgear, metering equipment, etc., as may be worked out on the basis of standards and norms prescribed by the Licensee, from time to time plus cost of dismantling the lines and other works when the supply is no more required less the cost of retrievable material.

10.12.30(a) Estimated cost of the works, as detailed above, shall be paid by the consumer in advance. After the works are dismantled and retrievable materials returned to stores, a bill for the actual amount payable by the consumer shall be prepared and the difference shall be collected from or refunded to the consumer, as the case may be. No development charges shall be collected for temporary supply.

(b) In addition to the aforesaid charges payable by consumers availing of

temporary supply, they shall pay hire charges at 2% on cost of retrievable material per month or part thereof, for the duration of temporary supply. These charges shall be claimed along with the consumption bills.

10.12.31(a) The consumer requiring supply on temporary basis shall be required to deposit in advance, in addition to the estimated cost of works, the estimated consumption charges at the rate stipulated in Tariff Order for Temporary supply, and worked out on the basis for use of electricity by the consumer for six (6) hours per day for a period of two (2) months in case the supply is required for more than ten (10) days. If the period of temporary supply is for ten (10) days or less, the advance consumption charges for the actual period requisitioned shall be paid.

(b) The Bill for electricity consumed in any month shall be prepared at the tariff applicable plus hire charges as mentioned above in 10.12.30(b). The consumers have to pay monthly CC charges regularly during the period of availing of temporary supply and the estimated energy consumption deposit shall be adjusted with the last month consumption and the balance if any shall be refunded.

(c) In the case of consumers requiring temporary supply for the purposes of Cinema, the estimated energy charges for a minimum period of three (3) months shall have to be deposited by the consumer subject to the condition that the consumer shall pay every month energy and other miscellaneous charges for the preceding month and the amount deposited by him in advance shall be adjusted with the last month consumption and the balance amount shall be refunded.

(d) In the event of estimated energy charges deposited by the consumer having been found insufficient, the consumer shall deposit such additional amount, as may be demanded by the Licensee failing which the Licensee may discontinue the supply of electricity.

10.12.32 **Estimated cost of works and estimated energy charges:** These charges shall be paid in advance by the consumer in accordance with the procedure prescribed above.

10.12.33 **Regular consumers requiring temporary additional supply:** In cases where consumers availing of regular supply of energy require additional supply for temporary period, the additional supply shall be given as a temporary service under a separate connection and charged as such in accordance with the above procedure.

LT-IX: Electric Vehicle Charging Stations

10.12.34 For loads above 10 kW and above, a LT tri-vector meter shall be provided and energy shall be billed on kVAh.

10.12.35 For loads below 10 kW, the billing shall be based on kWh only.

10.13 OTHER CHARGES IN LT

Service Connection Charges

10.13.1 The service connection charges shall be collected as per the Regulations issued by the Commission from time to time. Service connection wires for LT-V Irrigation and Agricultural purposes shall be laid collecting an amount of Rs.25/- per HP of contracted load towards service connection charges.

Reconnection

LTService	
LT-I(A)	Rs.25
Overhead LTservices	Rs.75
U.G. services	Rs.200

Testing

Installation	Charges
The first test and inspection of a new installation or of an extension to an existing installation.	Nil
Charges payable by the consumer in advance for each subsequent test and/or inspection if found necessary owing to any fault in the installation or to non-compliance of the conditions of supply	Rs.20
Meter	Charges
Single Phase Energy meter	Rs.100
Three Phase Energy meter	Rs.300
LT TriVector meter	Rs.2,000

Service calls

	Charges
Charges for attendance of fuse man for Low Tension Consumers	
i. Replacing of Licensee's cut out fuses	Nil
ii. Replacing of consumer's fuses	Rs.3
Charges for attendance of fuse man/Wireman at the consumer's premises during any function or	Rs.100 foreach day or part thereof.

temporary illumination provided a Fuse man/Wireman can be spared for such work	
Charges for infructuous visit of Licensee employees to the consumer's premises	Rs.25 foreach visit when there is no defect in Licensee's equipment

Miscellaneous charges

Application Registration Fees	Charges
i. For LT Agricultural & Domestic	Rs.25
ii. For all other LT Categories	Rs.50
Revision of estimates	Rs.10
Fee for re-rating of consumer's installation at the request of the consumer. This does not include the additional charges payable by the consumer for increasing his connected load in excess of the contracted load, as provided in General Terms and conditions of supply.	Rs.20
Resealing of	
LT Meter Cut outs in the consumer's Premises	Rs.5
M.D. Indicator meters and other apparatus in the consumer's premises. For all other LT Categories	Rs.100
The aforesaid charges do not include the additional charges payable by the consumer for breaking the seals	
For changing meter only at the request of the consumer (where it is not necessitated by increase in demand permanently)	Rs.25
For changing or moving a meter board	Actual cost of material and labour plus 25% supervision charges on cost of materials and labour
Customer charges	
Consumer category	Rs./month
LT-I: Domestic (Units/month)	
0-50	Rs.40
51-100	Rs.70
101-200	Rs.90
201-300	Rs.100
301-400	Rs.120
401-800	Rs.140
Above 800 units	Rs.160
LT-II: Non-Domestic/Commercial (Units/month)	
0-50	Rs.50
51-100	Rs.90
101-300	Rs.105
301-500	Rs.120
Above 500 units	Rs.160
LT-II(C): Advertisement Hoardings	Rs.160
LT-II(D): Hair cutting Salons with consumption upto 200 units per month	

0-50	Rs.45
51-100	Rs.55
101-200	Rs.65
LT-III: Industry up to 20 HP	Rs.100
LT-III: Industry 21-50 HP	Rs.350
LT-III: Industry 51-125 HP	Rs.1200
LT-IV: Cottage Industries	Rs.50
LT-V: Agricultural	Rs.30
LT-VI: Street Lighting & PWS	Rs.120
LT-VII: General	Rs.100
LT-VIII: Temporary Supply	Rs.100
LT-IX: Electric Vehicle Charging Stations	Rs.120
Urgency charges for temporary supply at short notice	Rs.100
Special rates chargeable for theft/pilferage and malpractice cases	As per the General Terms and Conditions of Supply (GTCS) approved by the Commission from time to time.
Supervision/Inspection & checking charges	Charges
For LT-I(A): Domestic	Rs.100
For LT-I(B): Domestic	Rs.100
For LT-V: Agricultural	Rs.100
For all other LT Categories	Rs.100

10.14 MISCELLANEOUS WORKS IN LT

10.14.1 The charges for any work which the Licensee may be required to undertake for the consumer and which is not included in the foregoing schedule, shall be the actual cost of labour and material plus 25% on cost of labour and material to cover overhead charges. The aforesaid charges shall be paid by the consumer in advance.

10.15 POWER FACTOR APPARATUS AND CAPACITOR SURCHARGE FOR LT

10.15.1 Every LT consumer not provided with Tri-vector meters, except LT-I Domestic, using induction motors and/or welding transformers shall install shunt capacitors of the rating specified by the Licensees in the General Terms and Conditions of Supply (GTCS) approved by the Commission from time to time. In case the rated capacity of the induction motor or welding transformer falls in between the steps of the stipulated ratings, the capacitors suitable for the next higher step shall be installed by the consumer.

- 10.15.2 The failure on part of the consumer with the above requirement shall be treated as violation of the terms and conditions of supply and the Licensee can terminate the contract and collect the sum equivalent to the minimum charges for the balance initial period of agreement, apart from disconnection of supply as provided in the General Terms and Conditions of Supply.
- 10.15.3 In the case of LT consumers (except LT Domestic, LT-IV, LT-VI(A), LT-VII(B)) not covered by kVAh billing, if during inspection, no capacitor is found, or the capacitors already installed are found damaged or having defect or ceased to function, such consumer shall be liable to pay capacitor surcharge at 25% of the monthly bill amount, as per the terms and conditions of supply notified by the licensee and Licensees shall not levy LPF surcharge.
- 10.15.4 LT consumers, except LT-I Domestic, who are provided with metering capable of measuring active and reactive power under the orders of the Commission, shall maintain their power factor preferably in between 0.95 lag and 0.95 lead in the interest of the system security. The consumers should not maintain the power factor on leading side less than 0.95. If any consumer maintains the power factor less than 0.95 lead for a period of 2 consecutive months, it must be brought back in the range of ± 0.95 within a period of 3 months failing which without prejudice to such other rights as having accrued to the Licensee or any other right of the Licensee, the supply to the consumer may be discontinued. However, for the purpose of kVAh billing leading kVArh shall be blocked.

Part 'B'

HT-Tariffs

These tariffs are applicable for supply of Electricity to HT consumers, having loads with a contracted demand of 70 kVA and above and/or having a contracted load exceeding 56 kW/75 HP, excluding LT-III industrial categories. For LT-III Industrial category having contracted load of more than 100 HP/125 HP as applicable, the HT tariffs are applicable.

10.16 HT-I: INDUSTRY

Applicability

- 10.16.1 This tariff is applicable for supply to all HT consumers using electricity for industrial purpose. Industrial purpose shall mean manufacturing, processing and/or preserving goods for sale, but shall not include shops, Business Houses, Offices, Public Buildings, Hospitals, Hotels, Hostels, Choultries, Restaurants,

Clubs, Theatres, Cinemas, Printing Presses, Photo Studios, Research & Development Institutions, Airports, Bus stations, Railway stations and other similar premises (The enumeration above is illustrative but not exhaustive) not withstanding any manufacturing, processing or preserving goods for sale.

10.16.2 This tariff shall also apply to:

- i) Water Works & Sewerage Pumping Stations operated by the Government Departments or Co-operative Societies and pump sets of Railways, pumping of water by industries as subsidiary function and sewerage pumping stations operated by local bodies.
- ii) Workshops (involving activity of manufacturing), bus depots of TSRTC, servicing and repairing centres of TSRTC, cold storages, flour mills, oil mills, saw mills, Ice candy, Ice manufacturing units with or without sale outlets.
- iii) These shall not be included in HT-I(A) category: All servicing & repairing centres other than that of TSRTC, bus depots other than that of TSRTC, gas/oil storage/transfer stations, warehouses/godowns/storage units (except for cold storages), etc.
- iv) The Information Technology (IT) units identified and approved by the Consultative Committee on IT Industry (CCITI) constituted by Government Telangana State.
- v) Newspaper printing units.
- vi) Poultry Farming Units.
- vii) Pisciculture and Prawn culture units.

HT-I(A): Industry – General

10.16.3 A time-of-day tariff of Rs.1.00 per kVAh in addition to the normal energy charges at respective voltages is applicable during peak hours of 06:00 am to 10:00 am and 06:00 pm to 10:00 pm. Similarly, a reduction in tariff of (incentive) of Rs.1.00 per kVAh to the normal energy charges at respective voltages is applicable during the nighttime i.e., from 10:00 pm to 06:00 am. The normal energy charges for respective voltages are applicable during 10:00 am to 06:00 pm.

10.16.4 The normal energy charges applicable (for this category other than Poultry farms) between 10:00 am and 6:00 pm are as follows:

Category	Demand Charge* (Rs./month)		Energy Charge (Rs./kVAh)
	Unit	Rate	
HT-I(A): Industry General			
11 kV	kVA	475	7.65
33 kV	kVA	475	7.15
132 kV and above	kVA	475	6.65

Category	Demand Charge* (Rs./month)		Energy Charge (Rs./kVAh)
	Unit	Rate	
* Demand charge is calculated at Rs./kVA/month of the Billing Demand			

10.16.5 The energy charges applicable (for this category other than Poultry farms) during the peak hours and night time hours are shown below:

Category	Demand Charge (Rs./month)		Energy Charge (Rs./kVAh)
	Unit	Rate	
HT-I: Time of Day Tariffs (6 AM to 10 AM)			
11 kV			8.65
33 kV			8.15
132 kV and above			7.65
HT-I: Time of Day Tariffs (6 PM to 10 PM)			
11 kV			8.65
33 kV			8.15
132 kV and above			7.65
HT-I: Time of Day Tariffs (10 PM to 6 AM)			
11 kV			6.65
33 kV			6.15
132 kV and above			5.65

Note:

Tariff for HMWSSB:

The Commission is in receipt of GoTS direction u/s 108 of the Electricity Act, 2003 vide letter No.630/Power.I/2022, dated 06.03.2023 and is stated as

"to extend the concessional tariff under Category V(B) to all the pumping stations of HMWSSB, as was extended in the earlier years on par with the concessional tariff extended to HMRL whichever is earlier."

As such, the applicability tariff of HMWSSB for FY 2023-24 will be on par with the tariff of HMRL subject to the subvention commitment being agreed to and extended from time to time by the Government of Telangana.

HT-I(A): Industry – General – Optional Category for contract maximum demand upto 150 kVA

10.16.6 This Optional category is applicable to HT-I Industry-General consumers whose contracted maximum demand is up to 150 kVA and availing supply at 11 kV only. The consumers who qualify under this category are free to opt to remain under HT-1(A) or choose this Optional sub-category.

10.16.7 The electricity charges applicable are as follows:

Category	Demand Charge* (Rs./month)		Energy Charge (Rs./kVAh)
	Unit	Rate	
HT-I(A): Industry General – General – Optional Category for contract maximum demand upto 150 kVA			

Category	Demand Charge* (Rs./month)		Energy Charge (Rs./kVAh)
	Unit	Rate	
11 kV	kVA	100	8.00
* Demand charge is calculated at Rs./kVA/month of the Billing Demand			

10.16.8 Services under HT-I (Optional) Category can be converted to HT-I Industrial (General) and levy penalty for exceeding CMD under following conditions duly following the General Terms and Conditions of Supply (GTCS):

if any consumer who is availing supply under HT-I Optional category exceeding CMD in 2 billing cycles in the consecutive months

(or)

if the consumer exceeds CMD in any 3 billing cycles in a financial year.

10.16.9 A consumer cannot fall both under HT-I Optional sub-category with a load upto 150 kVA and HT Seasonal Industry at the same time. A consumer who has chosen the HT-I Optional Sub-Category with a load up to 150 kVA, cannot be charged any other tariff than that approved for optional category

HT-I(A): Industry – General - Poultry farms

10.16.10 A time-of-day tariff of Rs.1.00 per kVAh in addition to the normal energy charges at respective voltages is applicable during the peak hours of 06:00 am to 10:00 am and 06:00 pm to 10:00 pm. Similarly, a reduction in tariff (incentive) of Rs.1.00 per kVAh to the normal energy charges at respective voltages is applicable during the nighttime i.e. from 10:00 pm to 06:00 am. The normal energy charges for respective voltages are applicable during 10:00 am and 06:00 pm.

10.16.11 The normal energy charges applicable for Poultry farms, between 10:00 am and 06:00 pm are as follows:

Category	Demand Charge* (Rs./month)		Energy Charge (Rs./kVAh)
	Unit	Rate	
HT-I(A): Poultry Farms			
11 kV	kVA	475	7.65
33 kV	kVA	475	7.15
* Demand charge is calculated at Rs./kVA/month of the Billing Demand			

10.16.12 The energy charges applicable for Poultry farms, during the peak hours and nighttime hours is shown below:

Category	Demand Charge (Rs./month)		Energy Charge (Rs./kVAh)
	Unit	Rate	
HT-I: Time of Day Tariffs (6 AM to 10 AM)			
11 kV			8.65
33 kV			8.15
HT-I: Time of Day Tariffs (6 PM to 10 PM)			
11 kV			8.65
33 kV			8.15
HT-I: Time of Day Tariffs (10 PM to 6 AM)			
11 kV			6.65
33 kV			6.15

Colony Consumption

- 10.16.13 The consumption of energy exclusively for the residential colony/township in a month, separately metered with meters installed by the consumer and tested and sealed by the Licensee shall be billed at Rs.7.30 per kVAh.
- 10.16.14 In case segregation of colony consumption has not been done, 15% of the total energy consumption shall be billed at Rs.7.30 per kVAh and the balance kVAh shall be charged at the corresponding energy tariff under HT-I(A): Industry - General.
- 10.16.15 Wherever possible colonies of Industry shall be given a separate HT service under HT-VI: Townships and Residential Colonies.

Seasonal Industries coming under HT-I(A)

- 10.16.16 Where a consumer avails supply of energy for manufacture of sugar or ice or salt, decorticating, ginning and pressing, cotton seed oil mills, seed processing, fruit processing, tobacco processing and re-drying and for such other industries or processes as may be approved by the Commission from time to time principally during certain seasons or limited periods in the tariff year and the main plant is regularly closed down during certain months, such consumer shall be charged for the months during which the plant is shutdown (which period shall be referred to as the **off-season period**) as follows:

Category	Demand Charge* (Rs./month)		Energy Charge (Rs./kVAh)
	Unit	Rate	
HT-I(A): Seasonal Industries			
11 kV	kVA	475	8.60
33 kV	kVA	475	7.90
132 kV and above	kVA	475	7.70

Category	Demand Charge* (Rs./month)		Energy Charge (Rs./kVAh)
	Unit	Rate	
<i>Demand charge is calculated at Rs./kVA/month of the Billing Demand Billing Demand is based on Recorded Maximum Demand or 30% of the Contracted Demand whichever is higher.</i>			

HT-I(B): Ferro Alloys

Category	Demand Charge* (Rs./month)		Energy Charge (Rs./kVAh)
	Unit	Rate	
HT-I(B): Ferro Alloys			
11 kV	kVA	475	7.65
33 kV	kVA	475	7.15
132 kV and above	kVA	475	6.65
<i>* Demand charge is calculated at Rs./kVA/month of the Billing Demand</i>			

10.17 HT-II(A): OTHERS

Applicability

10.17.1 This tariff is applicable to:

- i) All HT Consumers other than those covered under HT-I and HT-III to HT-IX.
- ii) Consumers who undertake Non-Domestic activity,
- iii) Consumers who undertake Commercial activity,
- iv) Consumers who avail supply of energy for lighting, fans, heating, air conditioning and power appliances in Commercial or Non-Domestic premises.

For example shops, business houses, offices, public buildings, hospitals, hostels, hotels, choultries, restaurants, clubs, theatres, cinema halls, timber depots, photo studios, printing presses, all servicing & repairing centres (other than that of TSRTC), bus depots (other than that of TSRTC), laundries, dry cleaning units. Gas/oil storage/transfer stations, warehouses, godowns (other than cold storage godowns), storage units or of similar nature and educational institutions run by individuals, Non-Government Organizations or Private Trusts and their student hostels are also classified under this category.

10.17.2 A time-of-day tariff of Rs.1.00 per kVAh in addition to the normal energy charges at respective voltages is applicable during peak hours of 06:00 am to 10:00 am and 06:00 pm to 10:00 pm. Similarly, a reduction in tariff (incentive) of Rs.1.00 per kVAh to the normal energy charges at respective voltages is applicable during the nighttime i.e., from 10:00 pm to 06:00 am. The normal energy charges for respective voltages are applicable during 10:00 am to 06:00 pm.

10.17.3 The normal energy charges applicable for HT-II Others, between 10:00 am and 06:00 pm are as follows:

Category	Demand Charge* (Rs./month)		Energy Charge (Rs./kVAh)
	Unit	Rate	
HT-II: Others			
11 kV	kVA	475	8.80
33 kV	kVA	475	8.00
132 kV and above	kVA	475	7.80
<i>* Demand charge is calculated at Rs./kVA/month of the Billing Demand</i>			

10.17.4 The energy charges applicable for HT-II Others, during the peak hours and nighttime hours is shown below:

Category	Demand Charge (Rs./month)		Energy Charge (Rs./kVAh)
	Unit	Rate	
HT-II: Time of Day Tariffs (6 AM to 10 AM)			
11 kV			9.80
33 kV			9.00
132 kV and above			8.80
HT-II: Time of Day Tariffs (6 PM to 10 PM)			
11 kV			9.80
33 kV			9.00
132 kV and above			8.80
HT-II: Time of Day Tariffs (10 PM to 6 AM)			
11 kV			7.80
33 kV			7.00
132 kV and above			6.80

Explanation: In respect of Government controlled Auditoriums and Theatres run by public charitable institutions for purpose of propagation of art and culture which are not let out with a profit motive and in respect of other Public Charitable Institutions rendering totally free service to the general public and the crematoriums operated and maintained by the local bodies, the overall kVAh rate (including customer charges) may be limited to the tariff rates under LT-VII: General purpose, in specific cases as decided by the Licensee.

10.18 HT-II(B): WHOLLY RELIGIOUS PLACES

Applicability

10.18.1 This tariff is applicable to:

- i) places of worship (namely Churches, Temples, Mosques, Gurudwaras) and Crematoriums.
- ii) Religious institution owning the place of worship should run such place of worship on no profit basis.
- iii) Religious institution should be registered under the Income Tax Act, 1961.

- iv) Premise for the place of worship shall be structurally distinct from the premises running the activities other than the places of worship.
- v) Premise for the purpose shall not be owned by any individual (name) but shall be owned by a religious institution or association of a community i.e., a class of persons not less than 15 distinct individuals, having their names registered under one place of worship only.

10.18.2 A time-of-day tariff of Rs.1.00 per kVAh in addition to the normal energy charges at respective voltages is applicable during peak hours of 06:00 am to 10:00 am and 06:00 pm to 10:00 pm. Similarly, a reduction in tariff (incentive) of Rs.1.00 per kVAh to the normal energy charges at respective voltages is applicable during the nighttime i.e., from 10:00 pm to 06:00 am. The normal energy charges for respective voltages are applicable during 10:00 am to 06:00 pm.

10.18.3 The normal energy charges applicable for HT-II(B) Wholly Religious Places, between 10:00 am and 06:00 pm are as follows:

Category	Demand Charge* (Rs./month)		Energy Charge (Rs./kVAh)
	Unit	Rate	
HT-II(B): Wholly Religious Places			
11 kV	kVA	260	5.00
33 kV	kVA	260	5.00
132 kV and above	kVA	260	5.00
<i>* Demand charge is calculated at Rs./kVA/month of the Billing Demand</i>			

10.18.4 The energy charges applicable for HT-II(B) Wholly Religious Places, during the peak hours and night time hours is shown below:

Category	Demand Charge (Rs./month)		Energy Charge (Rs./kVAh)
	Unit	Rate	
HT-II: Time of Day Tariffs (6 AM to 10 AM)			
11 kV			6.00
33 kV			6.00
132 kV and above			6.00
HT-II: Time of Day Tariffs (6 PM to 10 PM)			
11 kV			6.00
33 kV			6.00
132 kV and above			6.00
HT-II: Time of Day Tariffs (10 PM to 6 AM)			
11 kV			4.00
33 kV			4.00
132 kV and above			4.00

10.19 HT-III: AIRPORTS, RAILWAY STATIONS AND BUS STATIONS

Applicability

- 10.19.1 This tariff is applicable to Airports, Railway stations and Bus stations.
- 10.19.2 A time-of-day tariff of Rs.1.00 per kVAh in addition to the normal energy charges at respective voltages is applicable during peak hours of 06:00 am to 10:00 am and 06:00 pm to 10:00 pm. Similarly, a reduction in tariff (incentive) of Rs.1.00 per kVAh to the normal energy charges at respective voltages is applicable during the nighttime i.e., from 10:00 pm to 06:00 am. The normal energy charges for respective voltages are applicable during 10:00 am to 06:00 pm.
- 10.19.3 The normal electricity charges applicable for HT-III Airports, Railway stations and Bus stations, between 10:00 am to 06:00 pm are as follows:

Category	Demand Charge* (Rs./month)		Energy Charge (Rs./kVAh)
	Unit	Rate	
HT-III: Airports, Railway stations and Bus stations			
11 kV	kVA	475	8.50
33 kV	kVA	475	7.85
132 kV and above	kVA	475	7.45
<i>* Demand charge is calculated at Rs./kVA/month of the Billing Demand</i>			

- 10.19.4 The energy charges applicable for HT-III Airports, Railway stations and Bus stations, during the peak hours and night time hours is shown below:

Category	Demand Charge (Rs./month)		Energy Charge (Rs./kVAh)
	Unit	Rate	
HT-III: Time of Day Tariffs (6 AM to 10 AM)			
11 kV			9.50
33 kV			8.85
132 kV and above			8.45
HT-III: Time of Day Tariffs (6 PM to 10 PM)			
11 kV			9.50
33 kV			8.85
132 kV and above			8.45
HT-III: Time of Day Tariffs (10 PM to 6 AM)			
11 kV			7.50
33 kV			6.85
132 kV and above			6.45

10.20 HT-IV: IRRIGATION, AGRICULTURE & CPWS SCHEMES

HT-IV(A): Irrigation and Agriculture

Applicability

- 10.20.1 This tariff is applicable to lift irrigation schemes managed by the Government of Telangana State and for consumers availing of HT supply for Irrigation and Agricultural purposes.

Category	Demand Charge* (Rs./month)		Energy Charge (Rs./kVAh)
	Unit	Rate	
HT-IV(A): Irrigation and Agriculture			
11 kV	kVA	275	6.30
33 kV	kVA	275	6.30
132 kV and above	kVA	275	6.30
<i>* Demand charge is calculated at Rs./kVA/month of the Billing Demand</i>			

- 10.20.2 Demand Charges would be levied on higher of 80% of Contracted Maximum Demand (CMD) or Recorded Maximum Demand (RMD) for operational months – July to November (5 months).
- 10.20.3 Demand Charges would be levied on higher of 25% of CMD or RMD for non-operational months – December to June (7 months).

10.21 HT-IV(B): CPWS SCHEMES

Applicability

- 10.21.1 This tariff is applicable to energy consumption by HT services pertaining to Composite Protected Water Supply (CPWS) Schemes in rural areas and Mission Bhagiratha schemes. The CPWS Schemes shall be as defined and modified by the Commission from time to time.

Category	Demand Charge* (Rs./month)		Energy Charge (Rs./kVAh)
	Unit	Rate	
HT-IV(B): CPWS			
11 kV			6.10
33 kV			6.10
132 kV and above			6.10
<i>* Demand charge is calculated at Rs./kVA/month of the Billing Demand</i>			
Subject to a minimum charge of Rs.300/kVA/year			

10.22 HT-V: RAILWAY TRACTION

HT-V(A): Railway Traction

Applicability

- 10.22.1 This tariff is applicable to HT Railway Traction (other than Hyderabad Metro Rail traction load).

Category	Demand Charge* (Rs./month)		Energy Charge (Rs./kVAh)
	Unit	Rate	
HT-V(A): Railway Traction	kVA	475	5.05
<i>* Demand charge is calculated at Rs./kVA/month of the Billing Demand</i>			

HT-V(B): Hyderabad Metro Rail

Applicability

- 10.22.2 This tariff is available for HMR to run its operations (other than construction projects) to the extent of following:

- i) Traction load.
- ii) Access pathways to the station such as elevators, staircases (including escalators) and platforms used for the purposes of boarding the train.
- iii) Enabling areas such as ticket counters, station office, operation/control rooms, depots and public washrooms located within the station premises (excluding areas allotted for vehicle parking).

Category	Demand Charge* (Rs./month)		Energy Charge (Rs./kVAh)
	Unit	Rate	
HT-V(B): HMR	kVA	475	4.95
<i>* Demand charge is calculated at Rs./kVA/month of the Billing Demand</i>			

Explanation: The commercial load (other than that in the above clause) at HMR stations and other HMR premises including any retail counters that are set up under the Telangana Shops and Establishments Act, 1988 shall be metered and billed separately as per the relevant tariff category.

10.23 HT-VI: TOWNSHIPS AND RESIDENTIAL COLONIES

Applicability

- 10.23.1 This tariff is applicable exclusively for (i) Townships and Residential colonies or Cooperative group housing societies who own the premises and avail of supply at single point for making electricity available to the members of such society residing in the same premises at HT, (ii) any person who avails of supply at single point at HT for making electricity available to his employees residing in contiguous premises, the supply in all cases being only for domestic purposes, such as lighting, fans, heating etc., provided that the connected load for

common facilities such as non-domestic supply in residential area, street lighting and water supply etc., shall be within the limits specified hereunder.

Water Supply & Sewerage and Street Lighting put together	10% of total connected load
Non-domestic/Commercial & General purpose put together	10% of total connected load

The electricity charges are as follows:

Category	Demand Charge* (Rs./month)		Energy Charge (Rs./kVAh)
	Unit	Rate	
HT-VI: Townships & Residential Colonies			
11 kV	kVA	260	7.30
33 kV	kVA	260	7.30
132 kV and above	kVA	260	7.30
<i>* Demand charge is calculated at Rs./kVA/month of the Billing Demand</i>			

10.24 HT-VII: TEMPORARY SUPPLY

Applicability

- 10.24.1 Construction activities like construction of all types of structures/infrastructure such as residential/commercial buildings (height of 10 meters and above), Row houses, Gated communities construction by Real Estates/Firms meant for sale purpose, bridges, fly-overs, dams, power stations, roads, aerodromes, tunnels for laying of pipelines, etc. The relevant tariff for temporary supply shall be applicable during the phase of construction. Construction activities of structures of height less than 10 meters will fall under LT-II and HT-II, as relevant.
- 10.24.2 Exhibitions, circuses, outdoor film shootings, touring talkies, make-shift pandals for festivals, make-shift pandals for public gatherings and such other similar activities that are set up in open areas with no permanent structure.
- 10.24.3 For buildings above 10 meters in height regular supply shall be provided upon submission of occupancy certificate/completion certificate as per Para 21 of Hyderabad Revised Building Rules, 2006 issued vide erstwhile Andhra Pradesh G.O.Ms.No.86 dated 03.03.2006 and any other municipal authority in the Telangana State and on payment of required charges.

Category	Demand Charge* (Rs./month)		Energy Charge (Rs./kVAh)
	Unit	Rate	
HT-VII: Temporary Supply			
11 kV	kVA	500	11.80
33 kV	kVA	500	11.00

Category	Demand Charge* (Rs./month)		Energy Charge (Rs./kVAh)
	Unit	Rate	
132 kV and above	kVA	500	10.80
<i>* Demand charge is calculated at Rs./kVA/month of the Billing Demand</i>			

10.25 HT-VIII: RURAL ELECTRIC CO-OPERATIVE SOCIETIES (RESCO)

Category	Demand Charge (Rs./month)		Energy Charge (Rs./kVAh)
	Unit	Rate	
HT-VIII: RESCO			
11 kV			4.84

- i) RESCO, shall, as far as possible maintain a power factor of ± 0.95 at its drawl points.
- ii) No penal charges shall be made applicable.
- iii) Customer charge is not applicable.

10.26 HT-IX: ELECTRIC VEHICLE CHARGING STATIONS

10.26.1 This tariff is applicable to Electric Vehicle Charging Stations.

10.26.2 A time-of-day tariff of Rs.1.00 per kVAh in addition to the normal energy charges at respective voltages is applicable during peak hours of 06:00 am to 10:00 am and 06:00 pm to 10:00 pm. Similarly, a reduction in tariff (incentive) of Rs.1.00 per kVAh to the normal energy charges at respective voltages is applicable during the nighttime i.e., from 10:00 pm to 06:00 am. The normal energy charges for respective voltages are applicable during 10:00 am to 06:00 pm.

10.26.3 The normal energy charges applicable for HT-IX Electric Vehicle Charging Stations, between 10:00 am to 06:00 pm are as follows:

Category	Demand Charge* (Rs./month)		Energy Charge (Rs./kVAh)
	Unit	Rate	
HT-IX: Electric Vehicle Charging Stations			
11 kV	kVA	100	6.00
33 kV	kVA	100	6.00
132 kV and above	kVA	100	6.00
<i>* Demand charge is calculated at Rs./kVA/month of the Billing Demand</i>			

10.26.4 The energy charges applicable for HT-IX Electric Vehicle Charging Stations, during the peak hours and night time hours is shown below:

Category	Demand Charge (Rs./month)		Energy Charge (Rs./kVAh)
	Unit	Rate	
HT-IX: Time of Day Tariffs (6 AM to 10 AM)			
11 kV			7.00
33 kV			7.00
132 kV and above			7.00
HT-IX: Time of Day Tariffs (6 PM to 10 PM)			
11 kV			7.00
33 kV			7.00
132 kV and above			7.00
HT-IX: Time of Day Tariffs (10 PM to 6 AM)			
11 kV			5.00
33 kV			5.00
132 kV and above			5.00

10.27 GREEN TARIFF

- 10.27.1 Green Tariff is applicable to all consumers under LT and HT categories who opt for Green Energy.
- 10.27.2 Green Tariff of Rs.0.66/unit, which is over and above the normal tariff of the respective category, shall be levied on the energy consumption for the period for which the consumer has opted for Green Tariff.
- 10.27.3 Green Energy Certificate on monthly basis clearly mentioning the green attributes belonging to the consumer shall be issued to the consumers availing green power through TSDISCOM.

10.28 TERMS & CONDITIONS OF HT SUPPLY

- 10.28.1 Fuel Surcharge Adjustment (FSA)/Fuel Cost Adjustment (FCA) is applicable as per Regulation No.1 of 2023 as amended from time to time.
- 10.28.2 The tariffs are exclusive of the Electricity duty payable as per the provisions of the Telangana State Electricity Duty Act,1939 as amended from time to time.
- 10.28.3 **Voltage of Supply:** The voltage at which supply has to be availed by the consumers as per the GTCS notified by the Commission and as amended from time to time.
- 10.28.4 **Maximum Demand:** The maximum demand of supply of electricity to a consumer during a month shall be twice the largest number of kilo-volt- ampere hours (kVAh) delivered at the point of supply to the consumer during any consecutive 30 minutes in the month. However, for the consumers having

contracted demand above 4,000 kVA the maximum demand shall be four times the largest number of kilo-volt-ampere-hours (kVAh) delivered at the point of supply to the consumer during any consecutive 15 minutes in the month.

10.28.5 **Billing Demand:** The billing demand shall be the maximum demand recorded during the month or 80% of the contracted demand whichever is higher, except HT-VI category i.e., Townships & Residential Colonies. For HT-VI category the minimum billing demand shall be the recorded maximum demand condition of 80% Contract Maximum Demand is not applicable.

10.28.6 **Monthly Minimum Charges:** Every consumer whether he consumes energy or not shall pay monthly minimum charges calculated on the billing demand plus energy charges specified for each category in this Part (B) to cover the cost of a part of the fixed charges of the Licensee.

10.28.7 **Additional Charges for Maximum Demand exceeding the Contracted Demand:** In case, in any month the Recorded Maximum Demand (RMD) of the consumer exceeds his Contracted Demand with the Licensee, the consumer shall pay the following charges on excess demand recorded and on the entire energy consumed.

RMD over CMD	Demand charges on excess demand	Energy charges on full energy
100 to 120%	2 times normal charge	Normal
Above 120% and up to 200%	2 times normal charge	1.15 times normal charge
More than 200%	2 times normal charge	1.20 times normal charge

In case of HT-V(A) & HT-V(B): Railway Traction and Hyderabad Metro Rail, the energy charges shall be computed at 1.05 times of normal charges on the entire consumption, if RMD exceeds 120% of Contracted Demand.

10.28.8 **Additional Charges for Belated Payment of Charges:** The Licensees shall charge the Delayed Payment Surcharge (DPS) per month on the bill amount at the rate of 5 paise/Rs.100/day or Rs.550 whichever is higher. In case of grant of installments, the Licensee shall levy interest at the rate of 18% per annum on the outstanding amounts, compounded annually and the two charges shall not be levied at the same time.

10.28.9 **Customer Charges:** Every HT consumer shall pay customer charges as applicable to them, in addition to demand and energy charges billed.

10.28.10 **Maintenance of Power Factor at Consumer End:** HT consumers, who are provided with metering capable of measuring active and reactive power under the orders of the Commission, shall maintain their power factor preferably in between 0.95 lag and 0.95 lead in the interest of the system security. The consumers should not maintain the power factor on leading side less than 0.95. If any consumer maintains the power factor less than 0.95 lead for a period of 2 consecutive months, it must be brought back in the range of ± 0.95 within a period of 3 months failing which without prejudice to such other rights as having accrued to the licensee or any other right of the Licensee the supply to the consumer may be discontinued. However, for the purpose of kVAh billing leading kVArh shall be blocked.

10.29 CATEGORY-WISE SPECIFIC CONDITION OF HT TARIFF

HT-I: Industry

HT-I(A): Industry – General

- 10.29.1 The billing demand shall be the maximum demand recorded during the month or 80% of the contracted demand, whichever is higher.
- 10.29.2 Energy charges will be billed on the basis of actual energy consumption or 50 kVAh per kVA of billing demand, whichever is higher.
- 10.29.3 The power plants availing power for start-up power shall pay demand charges at the rate of 50% of the rate approved for this category.

HT-I(B): Ferro Alloys

- 10.29.4 The billing demand shall be the maximum demand recorded during the month or 80% of the contracted demand, whichever is higher.
- 10.29.5 Energy charges will be billed on the basis of actual energy consumption or 50 kVAh per kVA of billing demand, whichever is higher.

HT-I(A): Industry – Seasonal Industries

- 10.29.6 Consumers, classified as seasonal load consumers, who are desirous of availing of the seasonal benefits shall specifically declare their season at the time of entering into agreement that their loads should be classified as seasonal loads.

- 10.29.7 The period of season shall not be less than four (4) continuous months. However, consumer can declare longer seasonal period as per actual.
- 10.29.8 Consumer, who desires to have a change in the period classified as “season” declared by him, shall file a declaration at least a month before commencement of the respective tariff year.
- 10.29.9 Existing eligible consumers who have not opted earlier for seasonal tariffs will also be permitted to opt for seasonal tariff on the basis of application to the Divisional Engineer concerned of the respective Licensee.
- 10.29.10 The seasonal period once notified cannot be changed, during one Tariff year.
- 10.29.11 The off-season tariff is not available to composite units having seasonal and other categories of loads.
- 10.29.12 The off-season tariff is also not available for such of those units who have captive generation exclusively for process during season and who avail supply from Licensee for miscellaneous loads and other non-process loads.
- 10.29.13 Any consumer who after declaring the period of season consumes power for his main plant during the off-season period, shall not be entitled to this concession during that year.
- 10.29.14 Development charges as applicable to regular HT consumers shall be paid by the consumers for availing supply under the above said category with seasonal benefits. Consumers who have paid the development charges already as regular consumers need not pay the development charges.

HT-II(A): Others

- 10.29.15 The billing demand shall be the maximum demand recorded during the month or 80% of the contracted demand, whichever is higher.
- 10.29.16 Energy charges will be billed on the basis of actual Energy consumption or 25 kVAh per kVA of Billing Demand, whichever is higher.
- 10.29.17 The power plants availing power for start-up power shall pay demand charges at the rate of 50% of the rate approved for this category.

HT-II(B): Wholly Religious Places

10.29.18 The billing demand shall be the maximum demand recorded during the month or 80% of the contracted demand, whichever is higher.

10.29.19 Energy charges will be billed on the basis of actual Energy consumption or 25 kVAh per kVA of Billing Demand, whichever is higher.

HT-III: Airports, Railway stations and Bus stations

10.29.20 The billing demand shall be the maximum demand recorded during the month or 80% of the contracted demand whichever is higher.

10.29.21 Energy charges will be billed on the basis of actual energy consumption or 50 kVAh per kVA of billing demand whichever is higher.

HT-IV: Irrigation, Agriculture and CPWS

10.29.22 The metering is mandatory for this category i.e., HT-IV(A) & HT-IV(B).

HT-V: Railway Traction

10.29.23 The billing demand shall be the maximum demand recorded during the month or 80% of the contracted demand, whichever is higher.

10.29.24 Energy charges will be billed on the basis of actual energy Consumption or 32 kVAh per month per kVA of Contracted Demand whichever is higher.

HT-VI: Townships and Residential Colonies

10.29.25 The billing demand shall be the recorded maximum demand during the month.

10.29.26 Energy Charges will be billed on the basis of actual consumption or 25 kVAh per kVA of Contracted Demand, whichever is higher.

10.29.27 The above provisions shall not in any way affect the right of a person residing in the housing unit sold or leased by such Cooperative Group Housing Society, to demand supply of electricity directly from the distribution licensee of the area.

HT-VII: Temporary Supply

10.29.28(a) Temporary supply can be given initially for a period up to one year as per the tariff applicable under temporary supply category. After the expiry of one year, the consumer is at liberty to seek further extension.

10.29.29(b) The billing demand for Temporary supply shall be contracted demand or recorded maximum demand registered during the month whichever is higher.

10.29.30 Requests for temporary supply of energy cannot be considered unless there is a clear notice of at least one week in the case of domestic and three months in case of other types of supply. If supply is required at a short notice, in addition to the applicable electricity charges, an urgency charge, as specified in miscellaneous charges is also to be paid.

10.29.31 Estimated cost of the works means the cost of works for making necessary arrangements for supplying energy including the cost of distribution lines, switchgear, metering equipment, etc., as may be worked out on the basis of standards and norms prescribed by the Licensee, from time to time plus cost of dismantling the lines and other works when the supply is no more required less the cost of retrievable material.

10.29.32(a) Estimated cost of the works, as detailed above, shall be paid by the consumer in advance. After the works are dismantled and retrievable materials returned to stores, a bill for the actual amount payable by the consumer shall be prepared and the difference would be collected from or refunded to the consumer, as the case may be. No development charges shall be collected for temporary supply.

(b) In addition to the aforesaid charges payable by consumers availing temporary supply, they shall pay hire charges at 2% on cost of retrievable material per month or part thereof, for the duration of temporary supply. These charges will be claimed along with the consumption bills.

10.29.33(a) The consumer requiring supply on temporary basis shall be required to deposit in advance, in addition to the estimated cost of works mentioned in 10.29.32(b), the estimated consumption charges at the rate stipulated in Tariff Order for Temporary supply, and worked out on the basis for use of electricity by the consumer for 6 hours per day for a period of 2 months in case the supply is required for more than 10 days. If the period of temporary supply is for 10 days or less, the advance consumption charges for the actual period requisitioned shall be paid.

(b) The bill for electricity consumed in any month shall be prepared at the tariff applicable plus hire charges as mentioned above. The consumers have to pay monthly CC charges regularly during the period of availing temporary

supply and the estimated energy consumption deposit shall be adjusted with the last month consumption and the balance if any shall be refunded.

(c) In the case of consumers requiring temporary supply for the purposes of Cinema, the estimated energy charges for a minimum period of three (3) months shall have to be deposited by the consumer subject to the condition that the consumer shall pay every month energy and other miscellaneous charges for the preceding month and the amount deposited by him in advance shall be adjusted with the last month consumption and the balance amount shall be refunded.

(d) In the event of estimated energy charges deposited by the consumer having been found insufficient, the consumer shall deposit such additional amount, as may be demanded by the Licensee failing which the Licensee may discontinue the supply of electricity.

10.29.34 **Existing consumers requiring temporary supply or temporary increase in supply:** If any consumer availing regular supply of electricity at High Tension requires an additional supply of electricity at the same point for a temporary period, the temporary additional supply shall be treated as a separate service and charged as per HT Temporary supply, subject to the following conditions.

10.29.35(a) The contracted demand of the temporary supply shall be the billing demand for that service. The recorded demand for the regular service shall be arrived at by deducting the billing demand for the temporary supply from the maximum demand recorded in the month.

(b) The total energy consumed in a month including that relating to temporary additional supply, shall be apportioned between the regular and temporary supply in proportion to the respective billing demands.

HT-IX: Electric Vehicle Charging Stations

10.29.36 The billing demand shall be the recorded maximum demand during the month or 80% of contracted demand whichever is higher.

10.29.37 Energy Charges will be billed on the basis of actual consumption or 25 kVAh per kVA of Contracted Demand, whichever is higher.

10.30 OTHER CHARGES IN HT

Service Connection Charges

10.30.1 The service connection charges shall be collected as per the Regulations issued by the Commission from time to time.

Reconnection Charges	
HT	
11 kV	Rs.1000
33 kV	Rs.2000
132 kV/220 kV	Rs.3000
Testing charges	
Consumer Installation	
The first test and inspection of a new installation or of an extension to an existing installation.	Nil
Charges payable by the consumer in advance for each subsequent test and/or inspection if found necessary owing to any fault in the installation or to non-compliance of the conditions of supply	Rs.200
HT Meter	Rs.3,000
Transformer Oils	
For each sample of Oil	Rs.150
Miscellaneous Charges	
Application Registration Fees	Rs.100
For changing meter only at there quest of the consumer (where it is not necessitated by increase in demand permanently)	Rs.100
For changing or moving a meterboard	Actual cost of material and labour plus 25% supervision charges on cost of materials and labour
Customer Charges	
Consumer Category	Rs./month
HT Consumer at 11 kV	Rs.2,000
HT Consumers at 33 kV	Rs.3,500
HT Consumers at 132 kV and above	Rs.5,000
Urgency charges for temporary supply at short notice	Rs.200
Special rates chargeable for theft/pilferage and malpractice cases	As per the General Terms and Conditions of Supply (GTCS) approved bythe Commission fromtime to time.
Supervision/Inspection & checking charges	Rs.600

10.31 MISCELLANEOUS WORKS IN HT

10.31.1 The charges for any work which the Licensee may be required to undertake for the consumer and which is not included in the foregoing schedule, shall be the

actual cost of labour and material plus 25% on cost of labour and material to cover overhead charges. The aforesaid charges shall be paid by the consumer in advance.

Applicability

- 10.31.2 The rates indicated in the Retail Supply Tariff Schedule for FY 2023-24, together with the terms and conditions prescribed there under shall be applicable in the areas of operation of two Distribution Companies viz., Southern Power Distribution company of Telangana Limited (TSSPDCL), Northern Power Distribution company of Telangana Limited (TSNPDCL) and CESS, Sircilla for the FY 2023-24 with effect from 01.04.2023 to 31.03.2024.
- 10.31.3 The abstract of the tariff rates determined above, together with the terms & conditions governing the same is enclosed at **Appendix-A**.

This Order is corrected and signed on this the 24th day of March, 2023.

Sd/-
(BANDARU KRISHNAIAH)
MEMBER

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

Sd/-
(T.SRIRANGA RAO)
CHAIRMAN

//CERTIFIED COPY//

Appendix-A

Abstract of the Retail Supply Tariffs for FY 2023-24

(Applicable with effect from 01.04.2023 to 31.03.2024 in respect of the two Distribution Licensees (TSSPDCL & TSNPDCL) in the Telangana State and the Co-operative Electric Supply Society, Sircilla)

Category	Fixed/Demand Charge		Energy Charge (Rs./kWh or Rs./kVAh)
	Unit	Rs./Unit/month	
Low Tension			
LT-I: Domestic			
LT-I(A): Upto 100 units/month			
0-50	kW	10	1.95
51-100	kW	10	3.10
LT-I(B)(i): Above 100 units/month & up to 200 units/month			
0-100	kW	10	3.40
101-200	kW	10	4.80
LT-I(B)(ii): Above 200 units/month			
0-200	kW	10	5.10
201-300	kW	10	7.70
301-400	kW	10	9.00
401-800	kW	10	9.50
Above 800 units	kW	10	10.00
LT-II: Non-Domestic/Commercial			
LT-II(A): Upto 50 units/month			
0-50	kW	60	7.00
LT-II(B): Above 50 units/month			
0-100	kW	70	8.50
101-300	kW	70	9.90
301-500	kW	70	10.40
Above 500	kW	70	11.00
LT-II(C): Advertisement Hoardings	kW	70	13.00
LT-II(D): Haircutting Salons consuming upto 200 units/month			
0-50	kW	60	5.30
51-100	kW	60	6.60
101-200	kW	60	7.50
LT-III: Industry			
Industries	kW	75	7.70
Seasonal Industries (off- season)	kW	75	8.40
Pisciculture/Prawn culture	kW	36	6.20
Sugarcane crushing	kW	36	6.20
Poultry farms	kW	65	7.00
Mushroom, Rabbit, Sheep and Goat farms	kW	75	7.30

For Rice Mills under LT-III Industry, the upper limit of Contract Load shall be 93 kW/125 HP; For the remaining consumers under LT-III Industry, the upper limit of Contract Load shall be 75 kW/100 HP.

Category	Fixed/Demand Charge		Energy Charge (Rs./kWh or Rs./kVAh)
	Unit	Rs./Unit/month	
LT-IV: Cottage Industries			
LT-IV(A): Cottage Industries	kW	20/kW subject to a minimum of Rs.30/month	4.00
LT-IV(B): Agro Based Activities	kW	20/kW subject to a minimum of Rs.30/month	4.00
<i>For LT-IV(B) Agro Based Activity, the upper limit of Connected Load for Sheep farming, Goat farming, and Dairy farming activities shall be 15 HP; For the remaining consumers under LT-IV(B) Agro Based Activity, the upper limit of Connected Load shall be 10 HP.</i>			
LT-V: Agricultural			
LT-V(A): Agriculture (DSM Measures mandatory)			
Corporate Farmers	HP		2.50
Other than Corporate Farmers	HP		0.00
LT-V(B): Others			
Horticulture Nurseries with CL upto 15 HP	HP	20	4.00
LT-VI: Street Lighting & PWS			
LT-VI(A): Street Lighting			
Panchayats	kW	32	7.10
Municipalities	kW	32	7.60
Municipal Corporations	kW	32	8.10
LT-VI(B): PWS Schemes			
Panchayats	HP	32/HP subject to a minimum of Rs.50/month	6.00
Municipalities	HP	32/HP subject to a minimum of Rs.100/month	7.10
Municipal Corporations	HP	32/HP subject to a minimum of Rs.100/month	7.60
LT-VII: General			
LT-VII(A): General Purpose	kW	21	8.30
LT-VII(B): Wholly Religious Places			
Load upto 2 kW	kW	30	5.00
Load above 2 kW	kW	30	5.00
LT-VIII: Temporary Supply	kW	21	12.00
<i>For LT-VIII Temporary Supply, the consumer shall be required to deposit in advance the estimated consumption charges along with other charges as stipulated in the Tariff Order.</i>			
LT-IX: EV Charging Stations	kW	50	6.00
High Tension			
HT-I(A): Industry General			
11 kV	kVA	475	7.65
33 kV	kVA	475	7.15
132 kV and above	kVA	475	6.65

Category	Fixed/Demand Charge		Energy Charge (Rs./kWh or Rs./kVAh)
	Unit	Rs./Unit/month	
HT-I(A): Lights and Fans			
11 kV			7.65
33 kV			7.15
132 kV and above			6.65
HT-I(A): Poultry Farms			
11 kV	kVA	475	7.65
33 kV	kVA	475	7.15
HT-I(A): Industrial Colonies			
11 kV			7.30
33 kV			7.30
132 kV and above			7.30
HT-I(A): Seasonal Industries			
11 kV	kVA	475	8.60
33 kV	kVA	475	7.90
132 kV and above	kVA	475	7.70
HT-I(A): Optional Category with Load Up to 150 kVA			
11 kV	kVA	100	8.00
HT-I(B): Ferro Alloy Units			
11 kV	kVA	475	7.65
33 kV	kVA	475	7.15
132 kV and above	kVA	475	6.65
<i>No stipulation of Guaranteed off-take for HT-I(B) Ferro Alloy Units</i>			
HT-II(A): Others			
11 kV	kVA	475	8.80
33 kV	kVA	475	8.00
132 kV and above	kVA	475	7.80
HT-II(B): Wholly Religious Places (new category)			
11 kV	kVA	260	5.00
33 kV	kVA	260	5.00
132 kV and above	kVA	260	5.00
HT-III Airports, Railway stations and Bus stations			
11 kV	kVA	475	8.50
33 kV	kVA	475	7.85
132 kV and above	kVA	475	7.45
HT-IV(A) Irrigation and Agriculture			
11 kV	kVA	275	6.30
33 kV	kVA	275	6.30
132 kV and above	kVA	275	6.30
HT-IV(B) CPWS Schemes			
11 kV	kVA		6.10
33 kV	kVA		6.10
132 kV and above	kVA		6.10
HT-V(A) Railway Traction	kVA	475	5.05
HT-V(B) HMR	kVA	475	4.95

Category	Fixed/Demand Charge		Energy Charge (Rs./kWh or Rs./kVAh)
	Unit	Rs./Unit/month	
HT-VI Townships and Residential Colonies			
11 kV	kVA	260	7.30
33 kV	kVA	260	7.30
132 kV and above	kVA	260	7.30
HT-VII: Temporary			
11 kV	kVA	500	11.80
33 kV	kVA	500	11.00
132 kV and above	kVA	500	10.80
<i>For HT-VII Temporary Supply, the consumer shall be required to deposit in advance the estimated consumption charges along with other charges as stipulated in the Tariff Order.</i>			
HT-VIII: RESCO			
11 kV			4.84
HT-IX: Electric Vehicle Charging Stations			
11 kV	kVA	100	6.00
33 kV	kVA	100	6.00
132 kV and above	kVA	100	6.00

Terms & Conditions

1) Time of Day (TOD) Tariffs/Incentive:

Applicability

The following Time of Day (TOD) Tariffs/Incentives are applicable for categories viz.,

- i) HT-I(A) Industry General.
- ii) HT-I(A) Poultry Farms.
- iii) HT-II(A) Others.
- iv) HT-II(B) Wholly Religious Places.
- v) HT-III Airports, Railway stations and Bus stations
- vi) HT-IX EV Charging Station.

Description	During the Period	ToD Tariff over Retail Supply Energy Charges for FY 2023-24
Time of Day (TOD) Tariff	6 am to 10 am and 6 pm to 10 pm	Plus Re.1/unit
Time of Day (TOD) Tariff	10 pm to 6 am	Less Re.1/unit

2) Tariff for HMWSSB:

The Commission is in receipt of GoTS direction u/s 108 of the Electricity Act, 2003 vide letter No.630/Power.I/2022, dated 06.03.2023 and is stated as

"to extend the concessional tariff under Category V(B) to all the pumping stations of HMWSSB, as was extended in the earlier years on par with the concessional tariff extended to HMRL whichever is earlier."

As such, the applicability tariff of HMWSSB for FY 2023-24 will be on par with the tariff of HMRL subject to the subvention commitment being agreed to and extended from time to time by the Government of Telangana.

- 3) **Fuel Surcharge Adjustment (FSA)/Fuel Cost Adjustment (FCA)** will be extra as per Regulation No.1 of 2023 as amended from time to time.
- 4) The Tariffs are exclusive of the Electricity duty payable as per the provisions of the Telangana State Electricity Duty Act ,1939 as amended from time to time.
- 5) **Voltage of Supply:** The voltage at which supply has to be availed by the consumers as per the GTCS notified by the Commission and as amended from time to time.

6) **Additional Charges for Maximum Demand exceeding the Contracted Demand**

In case, in any month the Recorded Maximum Demand (RMD) of the consumer exceeds his Contracted Demand with the Licensee, the consumer shall pay the following charges on excess demand recorded and on the entire energy consumed.

RMD over CMD	Demand charges on excess demand	Energy charges on full energy
100 to 120%	2 times of normal charge	Normal
Above 120% and upto 200%	2 times of normal charge	1.15 times of normal charge
More than 200%	2 times of normal charge	1.20 times of normal charge

In case of HT-V(A) and HT-V(B): Railway Traction and HMR, the energy charges shall be computed at 1.05 times of normal charges on the entire consumption, if RMD exceeds 120% of Contracted Demand.

7) **Minimum Charges**

Category		Rates for FY 2023-24	
LT-categories			
LT-I(A)	Domestic	Contracted Load of 1000 Watts and below	
		Single Phase	Rs.25/month
LT-I(B)(i)		Contracted Load of above 1000 Watts	
		Single Phase	Rs.50/month
LT-I(B)(ii)		Three Phase	Rs.150/month
LT-II(A) & II(B)	Non-Domestic/ Commercial	Single Phase	Rs.65/month
		Three Phase	Rs.200/month
LT-II(C)		Advertisement Hoardings	Rs.300/month
LT-II(D)		Single Phase	Rs.65/month
		Three Phase	Rs.200/month
LT-VI(A)	Street Lighting	Panchayats	Rs.2/point/month
		Municipalities and Municipal Corporations	Rs.6/point/month
LT-VII(A)	General Purpose	Single Phase	Rs.50/month
		Three Phase	Rs.150/month
LT-VIII	Temporary Supply	Rs.125 per kW or part thereof of the	

Category		Rates for FY 2023-24	
		contracted load for first 30 days or part thereof and for every subsequent period of 15 days or part thereof a charge of Rs.75 per kW.	
LT-IX	EV Charging station	Single Phase	Rs.65/month
		Three Phase	Rs.200/month
HT Categories			
Billing Demand		<p>Billing Demand shall be maximum demand recorded during the month or 80% of the contracted demand whichever is higher except HT-IV(A) and HT-VI</p> <p>For HT-IV(A) (Lift Irrigation), during the operational months July to November, Billing Demand shall be maximum demand recorded during the month or 80% of the contracted demand whichever is higher and, during the non-operational months December to June, Billing Demand shall be maximum demand recorded during the month or 25% of the contracted demand whichever is higher</p> <p>For HT-VI (Township and Residential Colonies), the billing demand is Actual Demand Recorded)</p>	
Minimum Energy Charges			
HT-I(A)	Industry-General	50 kVAh per kVA of billing demand per month	
HT-I(B)	Ferro Alloy units	50 kVAh per kVA of billing demand per month	
HT-II(A)	Others	25 kVAh per kVA of billing demand per month	
HT-II(B)	Wholly Religious Places	25 kVAh per kVA of billing demand per month	
HT-III	Airports, Railway stations and Bus stations	50 kVAh per kVA of billing demand per month	
HT-V(A) & V(B)	Railway Traction & HMR	32 kVAh per kVA of Contracted Demand per month	
HT-VI	Townships & Residential Colonies	Billing Demand shall be Actual Recorded Demand. 25 kVAh per kVA of contracted demand per month.	
HT-IX	EV Charging station	25 kVAh per kVA of contracted demand per month.	

8) **Customer Charges**

Consumer Category	Rs./month
Low Tension	
LT-I: Domestic (units/month)	
0-50	40
51-100	70
101-200	90
201-300	100
301-400	120
401-800	140
Above 800 units	160
LT-II(A&B): Non-Domestic/Commercial (units/month)	
0-50	50
51-100	90
101-300	105
301-500	120
Above 500 units	160
LT-II(C): Advertisement Hoardings	160
LT-II(D) Haircutting Salons with consumption upto 200 units per month	
0-50	45
51-100	55
101-200	65
LT-III: Industry up to 20 HP	100
LT-III: Industry 21-50 HP	350
LT-III: Industry 51-125 HP	1200
LT-IV: Cottage Industries	50
LT-V: Agriculture	30
LT-VI: Street Lighting & PWS	120
LT-VII: General Purpose	100
LT-VIII: Temporary Supply	100
LT-IX: EV Charging station	120
High Tension	
HT consumers at 11 kV	2000
HT consumers at 33 kV	3500
HT consumers at 132 kV and above	5000

9) **Delayed Payment Surcharge (DPS)****LT-Category**

- a) In case of LT-I(A), LT-I(B), LT-II(A), LT-II(D), LT-IV and LT-V(B), if payment is made after due date, the consumers are liable to pay, Delayed Payment Surcharge (DPS) per month on the bill amount at the rates given in table below:

LT-I(A)	Rs.10 per month
LT-I(B), LT-II(A), LT-II(D), LT-IV and LT-V(B)	Rs.25 per month

- b) In case of LT-II(B), LT-II(C), LT-III, LT-VI, and LT-VII, and LT-IX the Licensee shall levy Delayed Payment Surcharge (DPS) on the bill amount at the rate of 5 paise/Rs.100/day calculated from the due date mentioned on the bill, up to the date of payment or Rs.150 whichever is

higher. In case of grant of installments, the Licensees shall levy interest at the rate of 18% per annum on the outstanding amounts compounded annually and the two (DPS and interest) shall not be levied at the same time.

HT Category

The Licensees shall charge the Delayed Payment Surcharge (DPS) per month on the bill amount at the rate of 5 paise/Rs.100/day or Rs.550 whichever is higher. In case of grant of installments, the Licensee shall levy interest at the rate of 18% per annum on the outstanding amounts, compounded annually and the two charges shall not be levied at the same time.

10) Reconnection Charges

Low Tension services	
LT-I(A)	Rs.25
Overhead LT services	Rs.75
U.G. services	Rs.200
High Tension service	
11 kV	Rs.1000
33 kV	Rs.2000
132 kV and above	Rs.3000

11) Testing Charges

Installation	LT	HT
The first test and inspection of a new installation or of an extension to an existing installation	Nil	Nil
Charges payable by the consumer in advance for each subsequent test and/or inspection if found necessary owing to any fault in the installation or to non-compliance of the conditions of supply	Rs.20	Rs.200
Meter		
A.C. Single Phase Energy meter	Rs.100	
A.C. Three Phase Energy meter	Rs.300	
LT Tri Vector meter	Rs.2000	
11 kV		Rs.3000
33 kV		Rs.3000
132 kV and above		Rs.3000
Transformer oil		
Each sample of oil	Rs.150 per sample	

12) Supervision/Inspection and Checking Charges

For LT-I(A) Domestic	Rs.100
For LT-I(B) Domestic	Rs.100
LT-V Agricultural	Rs.100
For all other LT Categories	Rs.100
For all HT Categories	Rs.600

13) **Low Power Factor Charges:** For all consumer categories where kVAh billing is done, no Low Power Factor surcharge shall be levied.

14) **Capacitor Surcharge:** LT consumers (except LT-I Domestic) having connected loads mentioned in table below shall pay capacitor surcharge (as

per rules in vogue) at the rate of 25% of the billed amount, if capacitors are found defunct.

Category	Connected Load
LT-II and LT-VII(A)	< 10 kW
LT-III and LT-VI(B)	< 20 HP

- 15) **Fixed Charges – Seasonal Industries:**
LT-III: Rs.75/kW/month on 30% contracted load.
HT: Demand Charges – 30% of CMD or recorded demand whichever is higher.
- 16) **Temporary Supply for LT and HT Consumers:** Temporary supply can be given initially for a period up to one year as per the tariff applicable under temporary supply category. After the expiry of one year, the consumer is at liberty to seek further extension.
- 17) **Green Tariff:** Green Tariff of Rs.0.66/unit which is over and above the normal tariff of respective category shall be levied on the energy consumption for the period for which the consumer as opted for Green tariff. The Green tariff is extended to all categories of consumers both HT & LT, who opt for it. TSDISCOMs are directed to issue Green energy certificate on monthly basis clearly mentioning the green attributes.

Appendix-B Commission's Directives

EARLIER DIRECTIVES

1. **Imported Coal** - The TSDISCOMs are directed to verify whether imported coal is being procured through competitive bidding process, or under any guidelines issued in this regard by GoI, before admitting the Station-wise power purchase bills.
2. **Quality of Domestic Coal** - The TSDISCOMs are directed to verify that the GCV of coal for which the price is being paid by its contracted generating stations should not be less than the minimum of the range of GCV specified for that particular grade.
3. **Transportation of failed transformers** - The TSDISCOMs shall ensure that the transportation of failed transformers is done at the cost of TSDISCOMs. In case, vehicle provided to sub-division, for this purpose, is unable to meet the requirement, replacement of failed DTRs should be done by hiring a private vehicle for this purpose only. For hiring the vehicles (the tractor trailers are available in villages) wherever necessary, the schedule of rates either on kilometre basis or on per day basis may be fixed. The TSDISCOMs are directed to submit the measures taken in this regard and expenditure incurred towards the same on half-yearly basis.
4. **Automatic starters for agricultural consumption** - In view of the State Government's initiative to provide 24-hours power supply for agricultural consumers, TSDISCOMs are directed to do away with the usage of automatic starters so as to regulate the consumption of electricity. A detailed report of the same shall be submitted by 31.07.2023.
5. **Furnishing of subsidy amount borne by the State Government in consumer bills** - The TSDISCOMs are directed to furnish the subsidy amount borne by the State Government, in the consumer bills of the applicable LT-I Domestic category consumers in both Rs./kWh and the amount in absolute terms.
6. **Procurement of short-term power** - Procurement of power to meet demand on short-term basis shall always be on competitive bidding.

7. **Poor distribution infrastructure** - Several stakeholders have expressed concerns regarding the sagging distribution lines, absence of AB switches and lack of protection for the DTRs. The TSDISCOMs are directed to take measures for providing adequate protective measures for the distribution infrastructure. The TSDISCOMs are directed to submit an action plan on the measures proposed to address the aforementioned issues within 3 months of issue of this Order. The TSDISCOMs are further directed to submit the progress of the proposed measures on half yearly basis.
8. Several stakeholders have expressed concerns that the poor distribution infrastructure is the main cause of electrical accidents. The TSDISCOMs are directed to submit a detailed report on its root-cause analysis of the electrical accidents in their respective supply areas during FY 2022-23 and the preventive measures adopted (at the place of accident as well as in the other areas of supply) for preventing such accidents within 3 months of issue of this Order.
9. **Release of ex-gratia in cases of electrical accidents** - Several stakeholders have expressed concerns that the ex-gratia for affected parties due to electrical accidents is not being released promptly. The Commission directs TSDISCOMs to strive to release the ex-gratia to the affected parties due to electrical accidents promptly. The applicants should be provided with a unique identification number upon receipt of application and status of the same should be intimated to the applicant and status of the application should be made available on the respective TSDISCOM's website.
10. The Commission directs TSDISCOMs to actively pursue the matter with APGenco/APTransco for availing the State share in Machkund PH and Tungabhadra PH.
11. The Commission directs TSDISCOMs to submit the station-wise and month-wise details of GCV of coal as received and as fired for each of its contracted thermal generating station before 15th day of the ensuing month.
12. The Commission directs TSDISCOMs to submit the details of variable charge of thermal generating stations considered by the Commission vis-a-vis the actual variable charges billed and that considered for Merit Order despatch on actual basis for each month before 15th day of the ensuing month.

13. The Commission directs TSDISCOMs to take strict measures to reduce the distribution losses and submit the quarterly report on the measures taken. The TSDISCOMs are also directed to ensure the timely availability of quarter-wise energy audit reports available in public domain. The Commission also directs TSDISCOMs to submit circle-wise/area-wise time bound action plan for reduction of AT&C losses wherever the AT&C losses are more than 15%. If action plan is not submitted and TSDISCOMs have not reduced the AT&C losses below 15%, then the Commission will take strict action.
14. The Commission directs TSDISCOMs to take steps for the installation of prepaid smart meters with latest technology for all interested consumers.
15. The Commission directs TSDISCOMs to submit a time bound action plan for replacement of existing meters with prepaid smart meters with two way communication in the interest of revenue realisation of TSDISCOMs.
16. The Commission directs TSDISCOMs to conduct consumer awareness programs in areas with high AT&C losses.
17. The Commission directs TSDISCOMs to explore the possibility of arriving at a consensus among its agricultural consumers regarding the hours of supply for its peak load management.

NEW DIRECTIVES

1. **Segregation of loads in airport** - The TSSPDCL is directed to segregate aviation activity loads and non-aviation activity loads of the consumer (GMR International Airport at Hyderabad) at TSDISCOMs metering point itself so as to have separate metering for both categories of loads in order to bill under appropriate category and submit the report to the Commission by 30.09.2023.
2. The Commission directs TSDISCOMs to take strict measures to reduce the distribution losses and submit the quarterly report on the measures taken. The TSDISCOMs are also directed to ensure timely availability of quarterly energy audit reports in public domain.
3. The TSDISCOMs are directed to collect 100% outstanding dues from all its consumers including Government Department regularly.

4. The TSDISCOMs are directed to make all possible efforts to improve their internal efficiency and reduce the gap between ACS and ARR.
5. The Commission directs TSDISCOMs to achieve 100% Agricultural DTR metering within a period of twelve (12) months and to furnish the quarterly progress on the status of implementation in this regard.
6. The TSDISCOMs are directed to conduct awareness programs among the consumers regarding safety standards, use of electricity **TO AVOID ELECTRICAL ACCIDENTS.**
7. The TSDISCOMs are directed to implement safety measures and provide safety appliances to O&M staff in order **TO AVOID ELECTRICAL ACCIDENTS.**
8. TSDISCOMs are directed to issue green energy certificate to the consumers who opt for Green energy from TSDISCOMs on monthly basis clearly mentioning the green attributes.
9. The TSDISCOMs are directed to bring awareness among the consumers about energy conservation measures to reduce the consumption during peak hours to optimize the power purchase cost.

Newspaper clippings appeared on 21.12.2022 in THE INDIAN EXPRESS, THE PIONEER and ETEMAAD (Urdu)

**BEFORE THE HONOURABLE
TELANGANA STATE ELECTRICITY REGULATORY COMMISSION
D.No.11-4-660, 5th Floor, Singareni Bhavan, Red Hills, Hyderabad 500 004**

<p style="text-align: center;">SOUTHERN POWER DISTRIBUTION COMPANY OF TELANGANA LIMITED TSSPDCL</p> <p style="text-align: center;">PUBLIC NOTICE</p> <p>1. Notice is hereby given to all that the Distribution Company viz., (SOUTHERN POWER DISTRIBUTION COMPANY OF TELANGANA LIMITED (TSSPDCL)) holding Distribution and Retail Supply License No. (14/2000), as on 29-12-2000, filed petition before the Telangana State Electricity Regulatory Commission (TSERC) for their Retail Supply business for approval of ARR & FPT and CSS for FY 2023-24 and Petitions along with delay condonation Interlocutory Applications for approval of Retail Supply (Power Purchase) True-up for the period from FY 2016-17 to FY 2022-23. These filings have been taken on record by the Hon'ble Commission from O.P. No.81 of 2022 to O.P. No.86 of 2022. I.A.Nos from I.A.No.63 of 2022 to I.A.No.64 of 2022 & I.A.No.70 of 2022 to I.A.No.71 of 2022.</p> <p>2. Copies of the filings referred are available in the Office of the Chief General Manager (RAC), TSSPDCL, Corporate Office, First floor, 'A' block, Mini Compound, Hyderabad-500093 and the Superintending Engineer, Operation circles of the Distribution Company at Banjara Hills, Hyderabad (South), Hyderabad (Central), Medchal, Cybercity, Habsiguda, Secunderabad, Rajendranagar, Saroornagar, Vikarabad, Mahabubnagar, Gadwal, Nagarkurnool, Wazirpur, Medak, Siddipet, Sargacety, Nalgonda, Yadadri, Suryapet and Narsimhapet. 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.tssouthernpower.com 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 21.12.2022 onwards on payment of charges for photocopying.</p> <p>3. Objections/suggestions, if any, on the filings, together with supporting material may be sent to the Chief General Manager (RAC), TSSPDCL, Corporate Office, First floor, 'A' block, Mini Compound, Hyderabad-500093 in person or through Registered Post so as to reach on or before 31.01.2023 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)/shareholder(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.</p> <p>4. The objection/suggestion should accompany the following statement:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Name & full address of the Objector along with e-mail id and contact number</td> <td style="width: 25%;">Brief details of objection(s)/ suggestions against ARR, FPT, CSS and True-up proposals of (TSSPDCL)</td> <td style="width: 25%;">Whether copy of objection/ suggestion & proof of delivery at Licensee's office enclosed (Yes/No)</td> <td style="width: 25%;">Whether Objector wants to be heard in person (Yes/No)</td> </tr> </table> <p>5. The gist of the filings of the TSSPDCL for their Retail Supply business for approval of ARR & FPT and CSS for FY 2023-24 and Petitions along with delay condonation Interlocutory Applications for approval of Retail Supply (Power Purchase) True-up for the period from FY 2016-17 to FY 2022-23 are indicated in Schedule-I, II, III & IV as given below.</p> <p>6. Further, in this matter the Telangana State Electricity Regulatory Commission intends to conduct a Public Hearing on TSSPDCL filings at TSCENCO Auditorium, GTS Colony, Enagadda, Hyderabad 500 045 on 24.02.2023 (Friday) from 10:30 Hrs onwards.</p> <p style="text-align: center;">Sd/-CHAIRMAN & MANAGING DIRECTOR Southern Power Distribution Company of Telangana Limited Date: 21.12.2022</p>	Name & full address of the Objector along with e-mail id and contact number	Brief details of objection(s)/ suggestions against ARR, FPT, CSS and True-up proposals of (TSSPDCL)	Whether copy of objection/ suggestion & proof of delivery at Licensee's office enclosed (Yes/No)	Whether Objector wants to be heard in person (Yes/No)	<p style="text-align: center;">NORTHERN POWER DISTRIBUTION COMPANY OF TELANGANA LIMITED (TSNPDC)</p> <p style="text-align: center;">PUBLIC NOTICE</p> <p>1. Notice is hereby given to all that the Distribution Company viz., (NORTHERN POWER DISTRIBUTION COMPANY OF TELANGANA LIMITED (TSNPDC)) holding Distribution and Retail Supply License No. (14/2000), as on 29-12-2000, filed petition before the Telangana State Electricity Regulatory Commission (TSERC) for their Retail Supply business for approval of ARR & FPT and CSS for FY 2023-24 and Petitions along with delay condonation Interlocutory Applications for approval of Retail Supply (Power Purchase) True-up for the period from FY 2016-17 to FY 2022-23. These filings have been taken on record by the Hon'ble Commission in O.P. No.80 of 2022 & from O.P. No.89 of 2022 to O.P. No.95 of 2022. I.A.Nos from I.A.No.65 of 2022 to I.A.No.69 of 2022 & I.A.No.72 of 2022 to I.A.No.73 of 2022.</p> <p>2. Copies of the filings referred are available in the Office of the Chief General Manager (PC & RAC), TSNPDC, H.No.2-5-312, Vidyuth Bhavan, Nalkaiguda, Hanamankonda-506001 and the Superintending Engineer, Operation circle of the Distribution Company at Hanamankonda, Warangal, Mahabubnagar, Jayashankar (Bhupalpally), Jangaon, Karimnagar, Jagtial, Peddapally, Khammam, Bhadrachalam, Nizamabad, Kamareddy, Adilabad, Nirmal, Mancherial and Komarambheem (Aofabod). 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.tsnpdcl.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 21.12.2022 onwards on payment of charges for photocopying.</p> <p>3. Objections/suggestions, if any, on the filings, together with supporting material may be sent to the Chief General Manager (PC & RAC), TSNPDC, H.No.2-5-312, Vidyuth Bhavan, Nalkaiguda, Hanamankonda-506001 in person or through Registered Post so as to reach on or before 31.01.2023 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)/shareholder(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.</p> <p>4. The objection/suggestion should accompany the following statement:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Name & full address of the Objector along with e-mail id and contact number</td> <td style="width: 25%;">Brief details of objection(s)/ suggestions against ARR, FPT, CSS and True-up proposals of (TSNPDC)</td> <td style="width: 25%;">Whether copy of objection/ suggestion & proof of delivery at Licensee's office enclosed (Yes/No)</td> <td style="width: 25%;">Whether Objector wants to be heard in person (Yes/No)</td> </tr> </table> <p>5. The gist of the filings of the TSNPDC for their Retail Supply business for approval of ARR & FPT and CSS for FY 2023-24 and Petitions along with delay condonation Interlocutory Applications for approval of Retail Supply (Power Purchase) True-up for the period from FY 2016-17 to FY 2022-23 are indicated in Schedule-I, II, III & IV as given below.</p> <p>6. Further, in this matter the Telangana State Electricity Regulatory Commission intends to conduct a Public Hearing on TSNPDC filings at Meeting Hall, Integrated District Collector's Complex, Hanamankonda District, on 22.02.2023 (Wednesday) from 10:30 hrs onwards.</p> <p style="text-align: center;">Sd/-CHAIRMAN & MANAGING DIRECTOR Northern Power Distribution Company of Telangana Limited Date: 21.12.2022</p>	Name & full address of the Objector along with e-mail id and contact number	Brief details of objection(s)/ suggestions against ARR, FPT, CSS and True-up proposals of (TSNPDC)	Whether copy of objection/ suggestion & proof of delivery at Licensee's office enclosed (Yes/No)	Whether Objector wants to be heard in person (Yes/No)
Name & full address of the Objector along with e-mail id and contact number	Brief details of objection(s)/ suggestions against ARR, FPT, CSS and True-up proposals of (TSSPDCL)	Whether copy of objection/ suggestion & proof of delivery at Licensee's office enclosed (Yes/No)	Whether Objector wants to be heard in person (Yes/No)						
Name & full address of the Objector along with e-mail id and contact number	Brief details of objection(s)/ suggestions against ARR, FPT, CSS and True-up proposals of (TSNPDC)	Whether copy of objection/ suggestion & proof of delivery at Licensee's office enclosed (Yes/No)	Whether Objector wants to be heard in person (Yes/No)						

**SCHEDULE-I
Aggregate Revenue Requirement (ARR) for FY 2023-24**

DISCOM	Rs. Crores
TSSPDCL	38,993
TSNPDC	17,096
State Total	54,098

**SCHEDULE-II
Filing of Proposed Tariff (FPT) for FY 2023-24**

Tariff Proposals for FY 2023-24:
The licensee humbly submit to the Hon'ble Commission for retaining the tariffs as per the Tariff Order for FY 2022-23 for the ensuing year FY 2023-24 except the following few proposals/modifications.

a. LT and HT Wholly Religious places:
The licensee proposes to revise tariff for LT VII B Wholly Religious Places. Further, licensee proposes to introduce a separate category for all the service connections falling under HT Wholly Religious Places which are currently being billed under HT II Others category. The licensee proposes the following:

Category	Voltage	Existing Tariff		Proposed Tariff	
		Fixed /Demand Charges (Rs/kVA/month)	Energy Charges (Rs/kVAh or Rs/kWh)	Fixed /Demand Charges (Rs/kVA/month)	Energy Charges (Rs/kVAh or Rs/kWh)
LT VII (B) Wholly Religious places	Load up to 2kW	21	6.50		5.00
	Load above 2kW	21	7.00	30	5.00

HT Wholly Religious places:

Category	Voltage	Existing Tariff		Proposed Tariff	
		Fixed /Demand Charges (Rs/kVA/month)	Energy Charges (Rs/kVAh)	Fixed /Demand Charges (Rs/kVA/month)	Energy Charges (Rs/kVAh)
HT- Wholly Religious places	HT (All Voltages)	-	-	30	5.00

b. Green Tariff for all Tariff categories:
The licensee propose to extend the applicability of the Green tariff to all the consumers under LT and HT categories.

c. Parallel operation charges-Grid Support Charges proposal:
The licensee propose to levy Grid Support Charges for FY 2023-24 on all the generators (Captive Generating Plants, Co-generation Plants, Third party Generation Units, Merchant Power Generation units, Rooftop Power Plants etc.) who are not having PPA/having PPA for partial capacity with the licensee as follows:
Grid Support Charges = Total Installed Capacity X Rate of GSC (Rs./kWh/month)
Rate of GSC:
i. The parallel operation/grid support charges are to be applied to the total installed capacity of the generators connected to the Grid.
ii. Conventional generators shall pay Rs. 50 per kW per month.
iii. Renewable energy plants including waste heat recovery plants, the plants based on municipal solid waste, and the co-gen plants shall pay Rs.25 per kW per month.
iv. Rooftop solar plants under net metering/gross metering policy shall pay Rs. 15 per kW per month.
v. Co-gen sugar mills shall pay charges of Rs. 25 per kW per month, for a period of 4 months or actual operation period, whichever is higher.
vi. These charges shall not be applicable when the plant is under shutdown for any reason and when such shutdown period exceeds two months.
vii. To the extent of PPA capacities of the generators with the DISCOMs shall be exempted from payment of these charges.

d. Applicability of LT II Non-Domestic/Commercial category:
The licensee proposes to modify the applicability of LT II Non-Domestic/Commercial (Clause No. 9.3.1) category to include transformer servicing/repairing centers under commercial activity.

e. Applicability of Mission Bhagiratha services:
The licensee proposes to categorize all Mission Bhagiratha services under LT-VI (B) or HT-IV (B) as applicable for respective voltage levels.

**SCHEDULE-III
Cross Subsidy Surcharge (CSS) for FY 2023-24**

Categories	TSSPDCL (Rs./Unit)	TSNPDC (Rs./Unit)	Categories	TSSPDCL (Rs./Unit)	TSNPDC (Rs./Unit)
11 KV					
HT-I Industry	1.32	0.15	HT-VI Townships & Residential Colonies	1.00	1.75
HT-II - Others	2.25	0.21	HT-VII Temporary Supply	2.88	4.68
HT-III - Airports, Railway and Bus stations	2.57	0.82	HT-I Industry	1.32	1.75
HT-IV Irrigation, Agriculture and CPWS	1.38	1.81	HT-(B) Ferro Alloys	1.80	1.52
HT-V Townships & Residential Colonies	1.50	3.00	HT-I - Others	0.62	1.54
HT-VII Temporary Supply	3.30		HT-II - Airports, Railway and Bus stations	1.72	1.46
33 KV			HT-IV Irrigation, Agriculture and CPWS	1.38	1.28
HT-I Industry	1.12	1.88	HT-IV Railway/MSR Tractor	1.00	1.28
HT-(B) Ferro Alloys	1.59		HT-VI Townships and Residential Colonies		1.60
HT-II - Others	1.84	2.20			
HT-IV Irrigation, Agriculture and CPWS	2.21				

**SCHEDULE-IV
Retail Supply (Power Purchase) True-up (+) / True-down (-) for FYs 2016-17 to FY 2022-23**

FY	TSSPDCL	TSNPDC	State Total	FY	TSSPDCL	TSNPDC	State Total
2016-17	-231	-39	-269	2020-21	1107	480	1587
2017-18	-365	127	-239	2021-22	6372	2418	8790
2018-19	877	-285	592	2022-23	12779	2692	15471
2019-20	30	594	624	Total	9060	2955	12015

SAVE ENERGY R.D. No. : 1064-PP/CL-AGENCY/ADVT/1/2022-23 Date: 28-12-2022

Annexure-II
**List of Stakeholders who submitted written Objections/
Suggestions on filings of TSDISCOMs**

Written Objections/Suggestions submitted exclusively in respect of TSNPDCL

Sl. No.	Objector Name and Address
1	Sri J.Mariyanna, District Horticulture & Sericulture Officer, Bhadradi Kothagudem District, Dept. of Horticulture & Sericulture, GoTS
2	Sri Sai Sanjay Suraneni, 56-4-25, Thyagarajan Complex, Patamata, Vijayawada, Andhra Pradesh 520010
3	Sri Kothuri Raju, 2-4-408/4, Road No 3, Kranthi Nagar Colony, Ramnagar, Hanamkonda

Written Objections/Suggestions submitted exclusively in respect of TSSPDCL

Sl. No.	Objector Name and Address
1	Sri Venkatesh Sangam, Regional Head - Facilities, M/s Infosys Limited, Survey No.210, Manikonda Village, Lingampally, Hyderabad, Ranga Reddy District 500 032
2	Ms. Manisha Saboo, President, HYSEA (Hyderabad Software Enterprises Association) VP & Campus Head - Infosys Hyderabad SEZ & Indore
3	Sri K.Paparao, Plant Head, Zuari Cement Limited, Sitapuram Power plant, Dondapadu Village, Chinthala Palem Mandal, Suryapet 508246
4	Sri Sanjay Suraneni, Flat No.101, 102, Saai Priya Apartments, 6-3-663/7/6, Jaffar Ali Bagh, Somajiguda, Hyderabad 500 082.

Common written Objections/Suggestions submitted in respect of both TSDISCOMs
(TSSPDCL & TSNPDCL)

Sl. No.	Objector Name and Address
1	Sri M.Venugopal Rao, Sr Journalist & Convenor, Centre for Power Studies, Hyd 500 032
2	Sri Sarampally Malla Reddy, Akhila Bharatheeya Kisan Saba, 1-1-60/2, MB Bhavan RTC X Roads, Hyd 500020
3	Rachamalla Punnamacharyulu , National President Akhila Bharatheeya Vishwakarma Parishad,
4	Sri N.Ramesh, Nancherla Village , Pegadapalli Mandal, Jagityal District 505 235
5	Sri Dabba Ravi, H.No.8-90, Jaggasagar Village, Metpalli Mandal, Jagityal District 505 325
6	Sri A.Ananda Rao, H.No.3-117, Brahmanpally Village, Tadwai Mandal, Kamareddy District 503 111
7	Sri Gondla Chandraiah, H.No.5-15, Nandi Vaddeman village, Bijinepally mandal, Nagarkurnool district 509215
8	Sri L.Manik Reddy, H.No.1-39/A, Naregudem Village, Nawabpet Mandal, vikarabad District 501101
9	Sri Sangishetty Swamy, H.No.4-135, Nandi Vaddeman village, Bijinepally mandal, Nagarkurnool district 509215
10	Sri P.Muralidhar, H.No.2-7-175, Road No.5 C 2, Excise Colony, Hanumankonda 506 001

Sl. No.	Objector Name and Address
11	Sri A.Veerabhadra Rao, H.No.12-13-486/39/1, Street No.14, Lane No.6, Beside Balaji Apartment, Tarnaka, Secunderabad, Hyderabad 500 017
12	Sri Laksheti Shankar, H.No.1-110, Mohmadabad Village , Jukkal Mandal, Nizamabad District 503 305
13	Sri Marripalli Raja Goud, H.No.1-97, Perumalla Village, Lingampet Mandal, Kamareddy District 503 124
14	Sri D.C.Sailu, H.No.1-16/12, Kalvarai village, Sadashiva nagar Kamareddy district 503 145
15	Sri Madireddy Rajireddy, H.No.20-160/1/1/1, R B Nagar, Near Pochamma Temple, Shamshabad, Ranga Reddy District 501 218
16	Sri Komireddy Anjanna, H.No.7-31, Lingapur Village, Kamareddy Mandal, Kamareddy District
17	Sri D.Ramu, H.No.2-1-174 & 175, Rajput Residency, Old Ramalayam Road, Nallakunta, Hyderabad 500 044
18	Sri K.Jaswant Reddy, H.No.11-1-78/2, Bharat Nagar, Siddipet District
19	Sri P.Narasimha Reddy, Nandikandi village, Sadasivpet Mandal, Sangareddy District 502306
20	Sri P. Ramakrishna Reddy, H.No.4-86, Gollapalle Village, Kondapur Mandal, Sangareddy district.
21	Sri B.Sanjivareddy, H.No.2-99, Elukurthy Haveli Village, Geesugonda Mandal, Telangana, Warangal, 506330
22	Sri Eaga Ganapathi Reddy, H.No.5-47, Nandiwada Village , Tadwai Mandal, Kamareddy District 503 120
23	Sri Madhuganti Sridhar Reddy, Plot No.504, H.No.2-1-174, 175, Rajputra Residency, Nallakunta, Hyderabad 500044
24	Sri Bandi Krishnareddy, H.No.164/2, Backside of Rajyalakshmi Super Market, Kalluru Mandal, Khammam District 507 209
25	Sri Srireddy Satyanarayana Reddy, Sankepalli Village, Shabad Mandal, Ranga Reddy District 509217
26	Sri J.Sampath Rao, H.No.1-52, Narsingapur Village, Boinpalli Mandal, Siricilla District
27	Sri Naini Yella Reddy, H.No.2-9/2, Shanthapuram Village, Palakurthi Mandal, Janagama District 506 302
28	Sri G.Vinod Kumar Rao, H.No.16-13-U.361, Plot No.361, Vasantha Nagar, Kukatpally, Hyderabad 500 085
29	Sri J.Sriranga Rao, H.No.2-2-18/18/7, Flat No.503, Srilaxmi Solitude, DD Colony, Hyderabad 500 013
30	Sri Bakka Judson, Madikonda, Kazipet, Warangal 506 003 (Post card)
31	Sri Swamy Jaganmayananda, #4-96/2, Gandhi Chowk, Husnabad, Kodangal Mandal, Vikarabad District 509 350
32	Sri Anil Agarwal, President, The Federation of Telangana Chambers of Commerce and Industry, Federation Office, Federation Marg, 11-6-841, Red Hills, Hyderabad 500 004
33	Sri Ch.Naveen Kumar, Q News Office, #1-89/4, Raghavendra Nagar Colony, Boduppal, Hyderabad 500 092
34	Sri S.Surya Prakasa Rao, [Former Director (Commercial) and Secretary, APERC] Flat No.105, Ashok Chandra Enclave, 11-4-660, Red Hills, Hyd 004

Sl. No.	Objector Name and Address
35	Sri Venkateshwar Stone Crusher, R/O: Fathepur , Chilpur Mandal, Jangaon, Warngal
36	Sri P.Ravi Kumar, Director (Technical), HMWS&SB, Khairatabad, Hyderabad 500 004
37	Sri G.R.K.Prasad, Director, Nava Bharat Energy India Limited, Nava Bharat Chambers, Raj Bhavan Road, Hyderabad 500 082
38	Sri S.Gopal Reddy, # 1-6-15, MIG, Old Housing Board Colony, Gadwal Jogulamba Gadwal District 509 125
39	Sri P.Muralidhar, H.No.1-7-1211, Advocates Colony, Balasamudram, Hanumakonda, Warangal 506 001
40	Sri G.R.K.Prasad, Executive Director, Nava Limited, (Formerly Nava Bharat Ventures Ltd), Corp Office: Silicon House, No.8-3-318/1, Plot.No.78, Road No.14, Banjara Hills, Hyderabad 500 034
41	Sri Jogendra Behera, Vice President Market Design & Economics, Indian Energy Exchange (IEX), Plot.No.C-001/A/1, 9 th Floor, Max Towers, Sector 16 B, Noida, Gautam Buddha Nagar, Uttar Pradesh 201 301
42	Sri R.K.Agarwal, Chairman, Telangana Spinning & Textile Mills Association
43	South Indian Cement Manufacturers' Association
44	Sri V.Lakshmi Kumar, Manager Energy, ITC Limited, Paper Boards & Speciality Paper Division, SP Road, Secunderabad 500003
45	Sri Vinod Kumar Agarwal, General Secretary, Telangana Iron & Steel Manufacturers Association, Flat No.101, 1 st Floor, Satya Sarovar Apt, Ghansi Bazar, Near High Court, Hyderabad 500 002
46	Lt Gen Dr. SP Kochhar, Director General, COAI, 14, Bhai Veer Singh Marg, New Delhi 110 001
47	M/s Reliance Jio Infocomm Limited, Lakshore Towers, 4th Floor, Somajiguda, Rajbhavan Road, Hyderabad 500082
48	M/s Summit Digital Infrastucture, Lakshore Towers, 4th Floor, Somajiguda, Rajbhavan Road, Hyderabad 500082
49	Sri P.Ashaiah, Telangana Rajaka Vruthidarula, Sangam, Telangana State Committee
50	Sri Tilak Raj Dua, Director – General, Digital infrastructure Providers Association (DIPA)
51	Botta Sridhar, Village Shanthapuram, Mandal Palakurthi, Dist Jangoan 506302
52	Itikala Somaji, Village:Shanthapuram, Mandal Palakurthi, Dist:Jangoan 506302
53	Buhmandla Bhaskar, Village Mutharam, Mandal Palakurthi, Dist:Jangoan
54	Bottu Somanatham, Village Shanthapuram, Mandal Palakurthi, Dist:Jangoan506302

Objectors/participants who heard in person in public hearing of TSNPDCL,
Hanamkonda, Warangal held on 22.02.2023

Sl. No.	Objector Name and Address
1	Sri P.Muralidhar Excise Colony, Hanumankonda.
2	Sri D.Ramu (Bharatiya Kisan Sangh) Nallakunta, Hyderabad.
3	Sri.P.Ashaiah (Telanga Rajaka Vruthidarula Sangam) Musheerabad, Hyderabad, (Representation on behalf of Sri Basavaraju Saraiah, MLC (TRS).
4	Sri M.Sridhar Reddy (Bharatiya Kisan Sangh), Nallakunta, Hyderabad.
5	Sri P.Ravi Kumar, HMWS&SB, Khairatabad, Hyderabad.
6	Sri G.R.K.Prasad, Director Navabharath Energy India Limited. Banjara Hills, Hyderabad.
7	Sri P.Kiran, BJP Hanamkonda District Vice-president. Warangal.
8	Sri J.Sampath Rao(Bharatiya Kisan Sangh) Narsingapur Village, Boinpalli Mandal, Siricilla.
9	Smt Sunnam Nagamani garu, ZPTC Mulkalapally Ashwarao peta Dist: B.Kothagudem
10	Sri B.Satish, Mano Netra Education Society.
11	Prof. Venkat Narayana Hanumakonda.
12	Sri Pulluri Sudhakar
13	Sri J.Srinivas MSME ,LUB Secretary Hanumakonda.
14	Sri Naini Yella Reddy, H.No.2-9/2, Shanthapuram Village, Palakurthi Mandal, Janagama District 506 302
15	Sri S.Bhuma Reddy CGRF NZB,4th Member Adilabad.
16	Sri K.Kallana Ashwaraopeta, Bhadradri kothagudem.
17	Sri Ram. Arem (Mulakalapalli area)
18	Sri K.Ravindra Reddy, Telangana state Rice Mill Association(Vice President)
19	Sri G.Prabhakar Reddy Revenue Colony, Hanumakonda.
20	Sri Murali, Dandepally. Mancheriyal.
21	Sri Shashi Bhushan, Kache(SAC Member) Manthani.
22	Sri N.Vikram Reddy (Bharatiya Kisan Sangh) Dharmapuri,Jagityal,
23	Sri Bottu Sridhar Village:Shathapur, Mandal:Palakurthi, Dist:Jangaon
24	Sri Kodela Sammaiah, (Bharatiya Kisan Sangh) Chityal, Dist:Bhupalpally

Objectors/participants who heard in person in public hearing of TSSPDCL,
Hyderabad held on 24.02.2023

Sl. No.	Objector Name and Address
1	Sri M.Venugopal Rao, Sr Journalist & Convenor, Centre for Power Studies, Hyd 500 032
2	Sri Swamy Jaganmayananda, #4-96/2, Gandhi Chowk, Husnabad, Kodangal Mandal, Vikarabad District 509 350
3	Dr. Sampath Rao, Indian Medical Association
4	Er. K.S.Ravindra Babu, SE-Civil, IIT, Hyderabad, Ph: 8331036090
5	Sri Rama Krishna, Hindu Paper

Sl. No.	Objector Name and Address
6	Sri Venkatesh Sangam, Regional Head - Facilities, M/s.Infosys Limited, Survey No.210, Manikonda Village, Lingampally, Hyderabad, Rangareddy District 500 032
7	Sri Maduganti Sridhar Reddy, BKS
8	Sri P.Ramakrishna Reddy
9	Sri P.Narasimha Reddy
10	Sri G .inod Kumar Rao, H.No.16-13-U.361, Plot No.361, Vasantha Nagar, Kukatpally, Hyderabad 500 085
11	Sri Naini Yella Reddy
12	Sri Vuduta Ravinder, Akhila Bharatheeya Kisan Saba, 1-1-60/2, MB Bhavan RTC X Roads, Hyd 500020
13	Sri Ch.Naveen Kumar, Q News Office, #1-89/4, Raghavendra Nagar Colony, Boduppall, Hyderabad 500 092
14	Sri P.Ravi Kumar, Director (Technical), HMWS&SB, Khairatabad, Hyderabad 500 004
15	Sri Anil Agarwal, President, The Federation of Telangana Chambers of Commerce and Industry, Federation Office, Federation Marg, 11-6-841, Red Hills, Hyderabad 500 004
16	Sri Gopal Choudhary, Advocate, M/s. Nava Bharat
17	Sri K.Paparao, Plant Head, Zuari Cement Limited, Sitapuram Power plant, Dondapadu Village, Chinthala Palem Mandal, Suryapet 508246
18	Sri Ramesh, Airtel
19	Sri P.Ashaiah, Telangana Rajaka Vruthidarula, Sangam, Telangana State Committee
20	Sri Ujjwal Surana, SEI Sri Ram Power Pvt. Ltd. Ph: 9979882425
21	Sri Venkat Ram, Sri Venkateshwar Stone Crusher, R/O: Fathepur, Chilpur Mandal, Jangaon, Warangal
22	Sri A.V.Krishna Reddy, MSME, Hyderabad
23	Sri Konkani Venkataiah, Hyderabad
24	Sri Jagadish, Kakloor, Shabab Mandal
25	Sri Shenkaraiah
26	Sri Bixam Bhukya, GMR Hyderabad International Airport Limited, Ph: 7894420933
27	Sri Krishnaiah, Veligandla, Shabab Mandal
28	Sri Ilesh Kumar, BKS
29	Sri Narasimha
30	Sri D.P.Varma, Sarvotham Care, Ph: 7680999535
31	Sri Mariyala Bonikiri
32	Sri Dinesh
33	Sri D Devaiah
34	Sri G. Nagaraj, Trade Union

2 Annexure-III

TSSPDCL – Category-wise and Month-wise Sales for FY 2023-24 – Approved

(MU)

Category		Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Total
LT Category		2910.27	2249.10	1992.77	2037.78	2314.77	2217.74	2270.42	1556.08	1991.83	2233.87	2302.54	3171.31	27248.48
LT-I)	Domestic	1199.10	1218.64	1046.02	889.71	950.12	872.38	926.25	814.90	771.91	762.44	783.52	1111.07	11346.06
LT-II	Non-Domestic/Commercial	280.26	287.36	262.04	226.17	245.84	241.50	244.40	229.55	223.73	209.50	226.87	297.62	2974.84
LT-III	Industrial	73.10	73.17	70.44	64.53	66.65	53.44	67.94	72.35	81.86	75.37	72.44	75.89	847.17
LT-IV(Cottage Industries & Dhobighats	0.88	0.88	0.81	0.74	0.76	0.78	0.83	0.80	0.81	0.69	0.66	0.87	9.50
LT-V	Irrigation and Agriculture	1297.23	613.55	562.12	808.69	999.49	999.49	975.12	383.35	856.48	1132.38	1162.80	1620.04	11410.74
LT-VI	Local Bodies, Street Lighting & PWS	39.12	37.79	34.79	32.43	35.12	34.61	40.08	38.36	40.32	39.48	38.95	43.26	454.29
LT-VII	General Purpose	10.88	8.34	7.85	7.81	8.79	7.38	7.67	9.20	8.73	6.04	8.81	12.24	103.75
LT-VIII	Temporary Supply	9.64	9.31	8.62	7.63	7.90	8.06	8.06	7.43	7.85	7.77	8.22	9.98	100.49
LT-IX	Electric Vehicle Charging Stations	0.06	0.06	0.06	0.07	0.10	0.10	0.08	0.14	0.15	0.21	0.28	0.34	1.64
HT Category at 11 kV		601.20	569.67	597.46	515.57	536.76	557.35	575.32	590.52	588.23	584.99	576.37	571.88	6865.33
HT-I	Industry	375.67	344.15	366.50	328.13	343.79	350.82	361.25	386.38	391.42	394.00	391.39	368.22	4401.71
HT-I(B)	Ferro Alloys	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41
HT-II(A)	Others	173.35	175.78	181.38	146.20	148.47	157.95	162.68	155.52	151.41	141.21	136.21	154.58	1884.74
HT-II(B)	Wholly Religious Places	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	1.00
HT-III	Airports, Railway stations and Bus stations	0.31	0.31	0.34	0.28	0.30	0.31	0.38	0.38	0.38	0.37	0.34	0.35	4.05
HT-IV(A)	Irrigation and Agriculture	3.93	0.76	0.67	1.02	2.02	4.08	5.01	3.86	1.86	4.85	5.03	5.74	38.83
HT-IV(B)	CPWS Schemes	12.08	12.09	12.19	11.33	11.95	12.55	13.83	14.23	13.79	14.11	13.84	13.21	155.21
HT-VI	Townships and Residential Colonies	21.56	22.85	21.81	15.88	15.77	16.40	15.44	14.99	14.19	14.35	14.16	14.87	202.26
HT-VII	Temporary Supply	13.72	13.15	13.97	12.18	13.52	14.68	15.19	14.61	14.63	15.58	14.90	14.42	170.56
HT-VIII	RESCOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HT-IX	Electric Vehicle Charging Stations	0.49	0.49	0.52	0.46	0.45	0.48	1.46	0.46	0.47	0.44	0.41	0.42	6.55
HT Category at 33 kV		677.15	664.20	686.67	645.97	651.02	680.54	797.07	740.54	745.95	746.82	763.76	754.41	8554.08
HT-I	Industry	522.13	500.69	515.14	492.39	493.13	512.40	650.22	594.92	603.35	607.03	626.24	615.72	6733.34
HT-I(B)	Ferro Alloys	4.63	4.38	4.38	3.31	1.84	1.65	1.65	1.75	2.83	3.73	3.34	3.59	37.08
HT-II	Others	110.65	118.57	127.23	114.40	119.45	127.53	103.30	100.65	98.47	95.11	92.66	94.01	1302.04
HT-III	Airports, Railway stations and Bus stations	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HT-IV(A)	Irrigation and Agriculture	0.87	0.40	0.07	0.54	1.18	1.80	1.77	1.77	1.48	1.93	1.76	1.92	15.48
HT-IV(B)	CPWS Schemes	20.46	22.05	22.16	21.45	21.11	21.65	24.31	25.88	24.35	24.14	25.11	24.41	277.08
HT-VI	Townships and Residential Colonies	15.10	15.95	15.26	10.93	11.11	11.60	11.39	11.34	10.77	10.53	10.65	11.34	145.97
HT-VII	Temporary Supply	3.30	2.16	2.43	2.94	3.21	3.91	4.44	4.22	4.70	4.35	4.00	3.42	43.08
HT-VIII	RESCOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HT-IX	Electric Vehicle Charging Stations	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Category	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Total
HT Category at 132 kV and above	863.14	850.99	845.11	828.07	815.73	839.70	849.55	838.60	851.26	865.14	906.29	916.87	10270.46
HT-I Industry	440.22	428.08	435.77	416.71	400.14	415.11	428.83	417.61	430.34	439.07	474.69	487.57	5214.14
HT-I(B) Ferro Alloys	21.60	20.13	3.78	8.45	12.32	19.84	14.34	17.57	16.84	23.62	27.69	25.05	211.23
HT-II Others	3.91	3.95	4.19	3.30	3.31	3.43	3.56	3.21	3.03	2.77	2.68	3.05	40.39
HT-III Airports, Railway stations and Bus stations	3.68	6.00	5.90	5.41	5.57	5.30	4.42	4.39	4.07	3.77	3.60	3.66	55.76
HT-IV(A) Irrigation and Agriculture	315.86	315.86	315.86	315.86	315.86	315.86	315.86	315.86	315.86	315.86	315.86	315.86	3790.35
HT-IV(B) CPWS Schemes	21.51	20.61	23.25	21.98	22.17	23.81	26.18	23.60	24.75	23.69	25.41	25.32	282.28
HT-V(A) Railway Traction	47.19	47.19	47.19	47.19	47.19	47.19	47.19	47.19	47.19	47.19	47.19	47.19	566.31
HT-V(B) HMR	9.17	9.17	9.17	9.17	9.17	9.17	9.17	9.17	9.17	9.17	9.17	9.17	110.00
HT-VI Townships and Residential Colonies	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HT-VII Temporary Supply	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HT-VIII RESCOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HT-IX Electric Vehicle Charging Stations	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	5051.76	4333.96	4122.01	4027.39	4318.29	4295.33	4492.36	3725.74	4177.26	4430.82	4548.96	5414.47	52938.34

Annexure-IV
TSNPDCL – Category-wise and Month-wise Sales for FY 2023-24 – Approved

(MU)

Category	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Total
LT Category	1458.15	868.35	779.99	789.04	1244.10	1158.41	1223.92	747.25	1103.92	1252.42	1359.83	1956.18	13941.56
LT-I Domestic	379.69	438.04	457.73	387.88	325.26	359.35	373.96	348.89	300.15	258.25	253.34	278.14	4160.67
LT-II Non-Domestic/Commercial	69.60	75.34	78.89	68.28	59.22	64.15	63.85	65.87	62.50	58.30	54.97	59.44	780.43
LT-III Industrial	12.26	12.16	12.62	10.14	8.58	9.67	9.46	9.61	11.77	15.34	14.01	11.75	137.37
LT-IV Cottage Industries & Dhobighats	0.74	0.75	0.79	0.75	0.68	0.72	0.74	0.74	0.72	0.71	0.68	0.65	8.68
LT-V Irrigation and Agriculture	954.64	300.91	190.67	286.45	816.52	687.01	742.40	284.06	689.71	879.83	1000.22	1567.55	8399.97
LT-VI Local Bodies, Street Lighting & PWS	33.18	33.17	32.84	29.11	27.02	29.53	29.22	32.65	31.71	33.58	32.28	31.42	375.71
LT-VII General Purpose	7.23	7.14	5.43	5.51	5.91	6.95	3.72	4.84	6.83	5.72	3.64	6.49	69.41
LT-VIII Temporary Supply	0.72	0.78	0.93	0.83	0.83	0.91	0.46	0.48	0.42	0.56	0.54	0.60	8.07
LT-IX EV Charging Stations	0.07	0.07	0.07	0.08	0.09	0.10	0.10	0.11	0.12	0.13	0.14	0.15	1.25
HT Category at 11 kV	246.49	166.28	184.94	160.42	184.85	214.81	179.32	176.72	197.48	229.10	243.97	226.39	2410.79
HT-I Industry	78.55	71.59	86.76	64.92	74.38	81.10	81.05	101.70	103.75	103.57	102.45	84.04	1033.86
HT-I(B) Ferro Alloys	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HT-II(A) Others	17.89	20.00	21.13	15.59	17.47	18.17	13.96	14.20	12.50	11.18	11.26	13.62	186.98
HT-II(B) Wholly Religious Places	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	1.00
HT-III Airports, Railway stations and Bus stations	0.76	0.77	0.85	0.66	0.67	0.66	0.63	0.63	0.54	0.53	0.52	0.60	7.83
HT-IV(A) Irrigation and Agriculture	4.02	0.67	0.29	1.25	1.12	1.84	1.24	1.33	1.17	2.47	3.68	4.06	23.15
HT-IV(B) CPWS Schemes	14.00	13.90	14.63	11.55	12.30	12.98	12.79	13.63	12.97	13.50	14.24	13.18	159.65
HT-VI Townships and Residential Colonies	0.79	0.76	0.86	0.59	0.62	0.68	0.65	0.63	0.53	0.51	0.55	0.56	7.73
HT-VII Temporary Supply	1.76	2.31	2.29	2.06	2.83	3.13	1.98	1.89	1.73	1.88	1.94	1.53	25.34
HT-VIII RESCOs	128.64	56.20	58.05	63.72	75.36	96.16	66.93	42.64	64.21	95.39	109.24	108.72	965.26
HT-IX EV Charging Stations	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HT Category at 33 kV	63.81	51.60	51.16	45.51	52.65	54.29	66.17	63.87	59.86	62.52	61.89	58.64	691.97
HT-I Industry	19.39	12.15	11.47	10.52	13.23	15.62	24.48	23.78	21.84	21.36	20.02	17.50	211.36
HT-I(B) Ferro Alloys	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	73.18
HT-II Others	1.38	0.03	0.03	0.06	0.11	0.13	1.35	1.25	1.07	1.02	0.98	1.11	8.52
HT-III Airports, Railway stations and Bus stations	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HT-IV(A) Irrigation and Agriculture	2.69	0.77	0.20	0.14	2.28	1.57	0.83	0.26	0.19	1.40	1.56	3.23	15.12
HT-IV(B) CPWS Schemes	31.96	30.50	31.17	26.95	29.27	29.01	30.71	30.14	28.60	30.59	31.77	29.23	359.90
HT-VI Townships and Residential Colonies	1.79	2.01	2.15	1.72	1.63	1.83	2.27	1.85	1.62	1.62	0.99	1.12	20.59
HT-VII Temporary Supply	0.50	0.05	0.04	0.03	0.03	0.03	0.44	0.49	0.44	0.44	0.47	0.35	3.32
HT-VIII RESCOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HT-IX EV Charging Stations	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Category	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Total
HT Category at 132 kV and above	110.60	119.10	168.81	294.34	356.24	440.47	495.47	517.35	514.94	516.06	326.42	226.24	4086.04
HT-I Industry	50.92	58.01	54.79	53.69	53.23	56.54	54.67	64.74	52.67	53.97	55.04	43.57	651.85
HT-I(B) Ferro Alloys	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HT-II Others	0.12	0.36	0.19	0.34	0.24	0.30	0.16	0.30	0.24	0.26	0.39	0.16	3.05
HT-III Airports, Railway stations and Bus stations	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HT-IV(A) Irrigation and Agriculture	0.00	0.00	51.78	187.01	245.51	324.96	386.42	398.63	411.40	405.52	215.66	128.70	2755.58
HT-IV(B) CPWS Schemes	2.15	2.23	2.25	2.19	2.40	2.47	2.00	2.41	2.39	2.47	2.33	2.00	27.31
HT-V(A) Railway Traction	47.54	47.52	49.33	42.74	45.74	47.73	43.83	43.55	41.57	47.62	46.24	44.17	547.58
HT-V(B) HMR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HT-VI Townships and Residential Colonies	9.87	10.98	10.47	8.36	9.13	8.47	8.39	7.72	6.67	6.21	6.76	7.64	100.67
HT-VII Temporary Supply	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HT-VIII RESCOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HT-IX Electric Vehicle Charging Stations	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	1879.05	1205.33	1184.91	1289.31	1837.85	1867.97	1964.89	1505.19	1876.20	2060.10	1992.11	2467.46	21130.36

Annexure-V
TSDISCOMs – Category-wise and Month-wise Sales for FY 2023-24 – Approved

(MU)

Category	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Total
LT Category	4368.42	3117.45	2772.76	2826.82	3558.87	3376.14	3494.34	2303.33	3095.75	3486.30	3662.37	5127.49	41190.04
LT-I Domestic	1578.78	1656.67	1503.75	1277.59	1275.38	1231.73	1300.21	1163.78	1072.05	1020.69	1036.87	1389.21	15506.72
LT-II Non-Domestic/Commercial	349.87	362.70	340.94	294.45	305.06	305.65	308.25	295.42	286.23	267.80	281.84	357.06	3755.27
LT-III Industrial	85.36	85.33	83.07	74.66	75.23	63.11	77.40	81.96	93.63	90.71	86.45	87.64	984.54
LT-IV Cottage Industries & Dhobighats	1.62	1.63	1.61	1.49	1.43	1.50	1.57	1.54	1.52	1.40	1.34	1.52	18.18
LT-V Irrigation and Agriculture	2251.87	914.46	752.79	1095.14	1816.01	1686.50	1717.52	667.41	1546.19	2012.21	2163.02	3187.59	19810.71
LT-VI Local Bodies, Street Lighting & PWS	72.30	70.95	67.63	61.54	62.14	64.14	69.30	71.01	72.02	73.06	71.23	74.67	830.01
LT-VII General Purpose	18.11	15.48	13.28	13.32	14.70	14.33	11.38	14.05	15.56	11.76	12.45	18.74	173.16
LT-VIII Temporary Supply	10.36	10.09	9.55	8.47	8.73	8.98	8.53	7.92	8.27	8.32	8.76	10.58	108.56
LT-IX EV Charging Stations	0.13	0.14	0.14	0.15	0.19	0.20	0.18	0.25	0.27	0.34	0.42	0.49	2.90
HT Category at 11 kV	847.69	735.95	782.40	676.00	721.61	772.15	754.64	767.24	785.71	814.10	820.34	798.28	9276.12
HT-I Industry	454.23	415.74	453.26	393.05	418.17	431.91	442.30	488.08	495.17	497.57	493.84	452.25	5435.57
HT-I(B) Ferro Alloys	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41
HT-II(A) Others	191.25	195.78	202.51	161.80	165.94	176.12	176.64	169.72	163.90	152.39	147.48	168.20	2071.72
HT-II(B) Wholly Religious Places	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	2.00
HT-III Airports, Railway stations and Bus stations	1.07	1.08	1.19	0.94	0.98	0.98	1.01	1.01	0.92	0.89	0.86	0.94	11.87
HT-IV(A) Irrigation and Agriculture	7.95	1.43	0.96	2.27	3.14	5.92	6.25	5.19	3.03	7.33	8.71	9.80	61.98
HT-IV(B) CPWS Schemes	26.07	25.99	26.82	22.89	24.25	25.53	26.62	27.86	26.76	27.61	28.08	26.39	314.86
HT-VI Townships and Residential Colonies	22.35	23.61	22.67	16.47	16.40	17.07	16.09	15.61	14.73	14.86	14.71	15.43	209.99
HT-VII Temporary Supply	15.48	15.47	16.26	14.24	16.35	17.81	17.18	16.49	16.36	17.46	16.84	15.95	195.90
HT-VIII RESCOs	128.64	56.20	58.05	63.72	75.36	96.16	66.93	42.64	64.21	95.39	109.24	108.72	965.26
HT-IX EV Charging Stations	0.49	0.49	0.52	0.46	0.45	0.48	1.46	0.46	0.47	0.44	0.41	0.42	6.55
HT Category at 33 kV	740.96	715.80	737.83	691.48	703.67	734.84	863.24	804.41	805.81	809.33	825.64	813.04	9246.05
HT-I Industry	541.52	512.83	526.61	502.90	506.35	528.02	674.69	618.70	625.20	628.39	646.25	633.22	6944.69
HT-I(B) Ferro Alloys	10.73	10.48	10.48	9.41	7.94	7.75	7.74	7.85	8.93	9.83	9.43	9.68	110.26
HT-II Others	112.03	118.60	127.26	114.46	119.56	127.66	104.65	101.91	99.54	96.12	93.64	95.13	1310.56
HT-III Airports, Railway stations and Bus stations	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HT-IV(A) Irrigation and Agriculture	3.56	1.17	0.28	0.69	3.46	3.37	2.59	2.03	1.67	3.32	3.32	5.14	30.60
HT-IV(B) CPWS Schemes	52.42	52.55	53.33	48.41	50.38	50.66	55.02	56.02	52.95	54.73	56.88	53.64	636.98
HT-VI Townships and Residential Colonies	16.89	17.96	17.41	12.65	12.73	13.43	13.66	13.20	12.39	12.15	11.64	12.46	166.56
HT Temporary Supply	3.80	2.21	2.47	2.97	3.24	3.95	4.88	4.71	5.13	4.79	4.47	3.78	46.40
HT RESCOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HT-IX EV Charging Stations	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Category	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Total
HT Category at 132 kV and above	973.74	970.09	1013.93	1122.41	1171.98	1280.17	1345.02	1355.95	1366.19	1381.19	1232.71	1143.12	14356.50
HT-I Industry	491.14	486.10	490.57	470.40	453.37	471.65	483.51	482.35	483.01	493.05	529.73	531.14	5866.00
HT-I(B) Ferro Alloys	21.60	20.13	3.78	8.45	12.32	19.84	14.34	17.57	16.84	23.62	27.69	25.05	211.23
HT-II Others	4.03	4.31	4.37	3.64	3.55	3.72	3.72	3.51	3.27	3.03	3.07	3.21	43.43
HT-III Airports, Railway stations and Bus stations	3.68	6.00	5.90	5.41	5.57	5.30	4.42	4.39	4.07	3.77	3.60	3.66	55.76
HT-IV(A) Irrigation and Agriculture	315.86	315.86	367.64	502.87	561.37	640.82	702.28	714.50	727.26	721.38	531.52	444.56	6545.93
HT-IV(B) CPWS Schemes	23.66	22.83	25.50	24.18	24.57	26.28	28.17	26.01	27.14	26.17	27.74	27.33	309.59
HT-V(A) Railway Traction	94.74	94.71	96.52	89.93	92.93	94.92	91.02	90.74	88.76	94.81	93.44	91.36	1113.89
HT-V(B) HMR	9.17	9.17	9.17	9.17	9.17	9.17	9.17	9.17	9.17	9.17	9.17	9.17	110.00
HT-VI Townships and Residential Colonies	9.87	10.98	10.47	8.36	9.13	8.47	8.39	7.72	6.67	6.21	6.76	7.64	100.67
HT-VII Temporary Supply	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HT-VIII RESCOs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HT-IX EV Charging Stations	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	6930.81	5539.29	5306.92	5316.70	6156.13	6163.30	6457.24	5230.94	6053.45	6490.92	6541.07	7881.93	74068.70

Annexure-VI

Station Wise and Month Wise Availability of Energy – Approved

(MU)

Name of the Station	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Total
TSGenco-Thermal													
KTPS-V	280.45	289.80	280.45	235.02	135.41	265.51	289.80	280.45	289.80	289.80	271.11	289.80	3197.39
KTPS-VI	281.80	291.20	281.80	291.20	291.20	281.80	291.20	281.80	187.87	206.65	272.41	291.20	3250.14
KTPS-VII	463.90	479.36	463.90	479.36	479.36	463.90	479.36	463.90	479.36	479.36	448.43	479.36	5659.53
RTS-B	31.67	32.73	31.67	32.73	32.73	31.67	32.73	15.84	32.73	32.73	30.62	32.73	370.60
KTPP-I	266.40	275.28	266.40	275.28	275.28	266.40	275.28	266.40	275.28	275.28	257.52	275.28	3250.08
KTPP-II	366.47	378.69	0.00	195.45	378.69	366.47	378.69	366.47	378.69	378.69	354.26	378.69	3921.22
BTPS	622.25	643.00	622.25	557.70	621.68	622.25	643.00	622.25	643.00	536.37	601.52	643.00	7378.29
YTPS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	437.66	467.84	905.50
Sub-total	2312.94	2390.05	1946.48	2066.74	2214.34	2298.00	2390.05	2297.11	2286.72	2198.88	2673.52	2857.90	27932.75
TSGenco-Inter State													
PJHES	-0.07	-0.09	21.65	11.78	40.31	45.85	41.87	5.99	2.70	-0.10	-0.08	-0.08	169.72
Sub-total	-0.07	-0.09	21.65	11.78	40.31	45.85	41.87	5.99	2.70	-0.10	-0.08	-0.08	169.72
TSGencoHydel													
Nagarjuna Sagar complex	38.00	29.81	44.41	203.27	584.38	434.76	608.17	288.15	29.79	51.48	84.64	98.50	2495.35
SLBHES	19.34	-0.04	50.20	297.06	493.38	423.19	525.09	158.72	54.39	92.14	46.31	-0.64	2159.13
LJHES	0.01	-0.23	28.30	35.85	67.16	125.62	99.52	13.50	5.97	0.46	-0.13	0.23	376.27
PCHES	8.97	2.69	0.34	31.42	53.34	60.98	65.24	40.24	15.01	13.36	17.72	15.43	324.74
Pochampad II	0.00	0.00	0.00	1.44	3.21	6.17	6.56	0.01	0.00	0.00	0.00	0.00	17.38
Small Hydel	5.92	-0.08	0.21	6.42	17.52	27.81	32.89	3.26	1.11	10.82	9.52	15.15	130.53
Mini Hydel	0.37	-0.03	-0.03	-0.03	0.54	0.59	0.58	0.29	0.01	0.27	0.24	0.72	3.52
Sub-total	72.61	32.11	123.43	575.44	1219.52	1079.12	1338.05	504.16	106.28	168.53	158.30	129.38	5506.93
Total TSGenco	2385.48	2422.08	2091.55	2653.96	3474.17	3422.96	3769.97	2807.27	2395.70	2367.32	2831.75	2987.19	33609.40
CSGS-Thermal													
NTPC Ramagundam Stage I & II	230.38	238.06	230.38	238.06	238.06	230.38	214.80	200.37	193.05	238.06	203.77	226.81	2682.16
NTPC Ramagundam Stage III	58.24	60.19	58.24	60.19	60.19	58.24	60.19	58.24	60.19	12.40	42.41	60.19	648.90
NTPC Talcher TPS II	139.43	143.34	101.61	123.78	121.77	121.89	143.26	137.89	142.75	143.09	134.70	143.75	1597.26
NTPC Simhadri Stage I	347.41	358.99	347.41	358.99	358.99	347.41	358.99	225.82	277.93	358.99	324.25	358.99	4024.20
NTPC Simhadri Stage II	165.55	171.07	121.40	132.44	171.07	165.55	171.07	165.55	171.07	171.07	154.51	171.07	1931.43
NTPC Kudgi	180.22	186.22	120.14	184.13	124.15	172.18	186.22	180.22	186.22	186.22	168.20	186.22	2060.36
NLC TPS II Stage I	3.14	3.25	3.14	2.31	3.25	2.13	3.16	2.11	3.16	3.20	3.05	3.25	35.15
NLC TPS II Stage II	4.17	4.28	3.22	4.28	3.35	4.17	3.35	4.10	3.21	3.83	4.03	4.31	46.31
NNTPP	36.46	37.82	36.46	37.20	37.20	35.96	21.29	17.33	21.29	28.29	35.10	37.33	381.74
Neyveli new Unit-1	3.67	3.77	3.67	3.78	3.77	2.51	1.95	3.29	3.59	3.67	3.43	3.67	40.76
Neyveli new Unit-2	2.96	1.55	2.31	2.18	3.06	2.96	3.06	1.48	1.94	2.63	2.85	3.04	30.02
TSTPP Unit 1	385.99	398.85	385.99	797.71	797.71	771.98	797.71	771.98	797.71	797.71	746.24	797.71	8247.29
NTECL Vallur TPS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NLC TamilNadu Power Ltd.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total	1557.62	1607.40	1413.98	1945.05	1922.57	1915.37	1965.05	1768.38	1862.11	1949.14	1822.55	1996.32	21725.55

Name of the Station	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Total
CSGS-Nuclear													
NPC Madras APS	5.26	5.52	5.26	-0.94	3.60	5.26	5.52	5.26	5.52	5.52	5.11	5.52	56.44
NPC Kaiga APS Units 1 & 2	36.91	38.29	36.91	38.29	38.29	18.46	32.09	36.91	38.29	38.29	35.81	38.29	426.86
NPC Kaiga APS Units 3 & 4	21.54	40.73	39.27	40.73	40.73	39.27	40.73	39.27	40.73	40.73	38.09	40.73	462.54
NPC Kudankulam	2.88	2.98	2.88	2.98	2.98	2.88	2.98	2.88	1.44	0.00	0.05	2.98	27.88
NPC Kudankulam NPP Unit 2	0.00	0.00	27.90	34.60	34.60	33.48	34.60	33.48	34.60	34.60	32.36	34.60	334.80
Sub-total	66.59	87.52	112.22	115.66	120.19	99.34	115.92	117.80	120.58	119.14	111.42	122.12	1308.51
Bundled Power (Coal)													
JNNSM Phase 1	28.03	28.03	28.03	28.03	28.03	28.03	28.03	28.03	28.03	28.03	28.03	28.03	336.36
NTPC	114.33	118.14	114.33	118.14	118.14	114.33	118.14	114.33	118.14	118.14	110.39	118.14	1394.71
Sub-total	142.36	146.17	142.36	146.17	146.17	142.36	146.17	142.36	146.17	146.17	138.42	146.17	1731.07
Total CSGS	1766.57	1841.09	1668.57	2206.88	2188.93	2157.07	2227.14	2028.54	2128.87	2214.45	2072.40	2264.61	24765.13
Others													
SEIL (LT 1)	184.30	190.45	184.30	190.45	190.45	184.30	190.45	108.00	152.29	190.45	172.02	190.45	2127.91
SEIL (LT 2)	389.88	402.88	389.88	402.88	402.88	389.88	402.88	228.46	322.17	402.88	363.89	402.88	4501.41
STPP	798.03	824.64	798.03	824.64	412.32	412.32	824.64	798.03	824.64	824.64	774.43	824.64	8940.98
CSPDCL	559.40	578.05	559.40	578.05	578.05	559.40	578.05	559.40	578.05	578.05	540.76	578.05	6824.73
PTC (MT)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Others	1931.62	1996.01	1931.62	1996.01	1583.69	1545.90	1996.01	1693.90	1877.15	1996.01	1851.09	1996.01	22395.03
NCE													
Biomass	1.93	0.78	0.00	0.88	0.00	0.00	2.91	2.95	1.57	3.24	3.19	2.68	20.13
Bagasse	0.00	0.00	0.00	0.00	0.00	0.00	4.10	4.46	9.92	8.80	9.88	9.79	46.95
Municipal waste	9.72	10.05	9.72	10.05	10.05	9.72	10.05	9.72	10.05	10.05	9.07	10.05	118.28
Industrial waste	4.97	8.78	9.22	9.14	8.76	8.76	6.32	0.87	0.62	5.17	4.72	4.00	71.35
Wind	12.87	17.60	25.54	37.17	31.55	20.50	9.98	20.08	16.57	15.27	17.31	11.21	235.65
Mini Hydel	0.00	0.00	0.00	0.23	0.18	0.18	0.58	0.29	0.00	0.00	0.00	0.00	1.46
Solar	481.42	458.09	467.73	289.35	374.47	379.45	417.18	366.35	396.42	407.18	512.26	472.00	5021.88
Solar (JNNSM Phase I)	4.07	3.31	3.26	2.01	2.30	2.88	2.54	1.69	2.09	3.26	4.66	5.14	37.22
Solar (NTPC)	74.80	72.25	69.62	49.10	61.82	61.82	68.75	52.95	65.36	68.37	78.91	76.11	799.88
Solar (SECI)	65.09	67.26	65.09	67.26	67.26	65.09	67.26	65.09	67.26	67.26	60.76	67.26	791.99
Solar (NTPC, NHPC CPSU)Tr-III 1545 MW	29.58	30.57	29.58	30.57	30.57	29.58	30.57	100.45	103.80	103.80	93.75	103.80	716.61
Solar (PM KUSUM)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar (NTPC CPSU)Tr-I & II 1692 MW	231.23	238.94	231.23	238.94	238.94	231.23	238.94	231.23	238.94	238.94	215.82	238.94	2813.35
Solar (SECI ISTS-IX)	50.42	52.10	50.42	52.10	52.10	50.42	52.10	171.19	176.89	176.89	159.78	176.89	1221.28
Total NCE	966.10	959.72	961.42	786.80	878.00	859.63	911.28	1027.33	1089.50	1108.23	1170.11	1177.88	11896.02
Grand total	7049.77	7218.90	6653.16	7643.65	8124.79	7985.57	8904.40	7557.04	7491.22	7686.02	7925.35	8425.70	92665.57

Annexure-VII
Merit Order Despatch of Energy – Approved

(MU)

Name of the Station	Variable charge (Rs./kWh)	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Total
TSGenco-Thermal														
KTPS-V	2.760	280.45	289.80	280.45	186.19	135.41	265.51	289.80	180.18	289.80	289.80	271.11	289.80	3048.29
KTPS-VI	2.730	281.80	291.20	281.80	189.26	291.20	281.80	291.20	183.15	187.87	206.65	272.41	291.20	3049.54
KTPS-VII	2.409	463.90	479.36	463.90	338.61	479.36	463.90	479.36	300.17	479.36	479.36	448.43	479.36	5355.05
RTS-B	3.040	31.67	23.02	22.28	23.02	23.02	31.67	23.02	15.84	23.02	32.73	20.79	32.73	302.80
KTPP-I	3.020	266.40	219.44	183.15	189.26	189.26	266.40	189.26	183.15	189.26	275.28	233.16	275.28	2659.28
KTPP-II	2.900	366.47	378.69	0.00	195.45	238.79	366.47	378.69	220.97	378.69	378.69	354.26	378.69	3635.83
BTPS	2.363	622.25	643.00	622.25	557.70	621.68	622.25	643.00	498.99	643.00	536.37	601.52	643.00	7255.02
YTPS	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	437.66	467.84	905.50
Sub-total		2312.94	2324.50	1853.83	1679.47	1978.71	2298.00	2294.31	1582.45	2190.98	2198.88	2639.34	2857.90	26211.31
TSGenco-Inter State														
PJHES	-	-0.07	-0.09	21.65	11.78	40.31	45.85	41.87	5.99	2.70	-0.10	-0.08	-0.08	169.72
TSGenco Hydel														
Nagarjuna Sagar complex	-	38.00	29.81	44.41	203.27	584.38	434.76	608.17	288.15	29.79	51.48	84.64	98.50	2495.35
SLBHES	-	19.34	-0.04	50.20	297.06	493.38	423.19	525.09	158.72	54.39	92.14	46.31	-0.64	2159.13
LJHES	-	0.01	-0.23	28.30	35.85	67.16	125.62	99.52	13.50	5.97	0.46	-0.13	0.23	376.27
PCHES	-	8.97	2.69	0.34	31.42	53.34	60.98	65.24	40.24	15.01	13.36	17.72	15.43	324.74
Pochampad II	-	0.00	0.00	0.00	1.44	3.21	6.17	6.56	0.01	0.00	0.00	0.00	0.00	17.38
Small Hydel	-	5.92	-0.08	0.21	6.42	17.52	27.81	32.89	3.26	1.11	10.82	9.52	15.15	130.53
Mini Hydel	-	0.37	-0.03	-0.03	-0.03	0.54	0.59	0.58	0.29	0.01	0.27	0.24	0.72	3.52
Sub-total		72.61	32.11	123.43	575.44	1219.52	1079.12	1338.05	504.16	106.28	168.53	158.30	129.38	5506.93
Total TSGenco		2385.48	2356.52	1998.91	2266.69	3238.54	3422.96	3674.22	2092.60	2299.96	2367.32	2797.56	2987.19	31887.96
CSGS-Thermal														
NTPC Ramagundam Stage I & II	2.800	230.38	134.28	129.95	134.28	134.28	230.38	134.28	129.95	134.28	238.06	121.29	226.81	1978.22
NTPC Ramagundam Stage III	2.759	58.24	33.95	32.86	33.95	33.95	58.24	33.95	32.86	33.95	12.40	30.67	60.19	455.20
NTPC Talcher TPS II	1.749	139.43	143.34	101.61	123.78	121.77	121.89	143.26	137.89	142.75	143.09	134.70	143.75	1597.26
NTPC Simhadri Stage I	3.018	333.46	199.49	193.06	199.49	199.49	333.46	199.49	193.06	199.49	199.49	180.19	344.58	2774.74
NTPC Simhadri Stage II	3.002	165.55	99.04	95.85	99.04	99.04	165.55	99.04	95.85	99.04	161.15	89.46	171.07	1439.67
NTPC Kudgi	3.913	180.22	107.81	104.34	107.81	107.81	116.11	107.81	104.34	107.81	107.81	97.38	186.22	1435.49
NLC TPS II Stage I	2.737	3.14	3.25	3.14	2.31	3.25	2.13	3.16	1.86	3.16	3.20	3.05	3.25	34.91
NLC TPS II Stage II	2.737	4.17	4.28	3.22	4.28	3.35	4.17	3.35	2.45	3.21	3.83	4.03	4.31	44.66
NNTPP	2.207	36.46	37.82	36.46	23.75	37.20	35.96	21.29	17.33	21.29	28.29	35.10	37.33	368.28
Neyveli new Unit-1	2.054	3.67	3.77	3.67	3.78	3.77	2.51	1.95	3.29	3.59	3.67	3.43	3.67	40.76
Neyveli new Unit-2	3.862	2.96	1.55	2.31	2.18	3.06	2.96	3.06	1.48	1.94	2.63	2.85	3.04	30.02
TSTPP Unit 1	2.054	370.49	382.84	370.49	765.67	765.67	740.97	765.67	740.97	765.67	765.67	716.27	765.67	7916.06
NTECL Vallur TPS	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NLC TamilNadu Power Ltd.	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total		1528.16	1151.43	1076.94	1500.33	1512.66	1814.34	1516.32	1461.33	1516.20	1669.27	1418.41	1949.87	18115.25

Name of the Station	Variable charge (Rs./kWh)	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Total
CSGS-Nuclear														
NPC Madras APS	2.541	5.26	5.52	5.26	-0.94	3.60	5.26	5.52	5.26	5.52	5.52	5.11	5.52	56.44
NPC Kaiga APS Units 1 & 2	3.482	36.91	38.29	36.91	38.29	38.29	18.46	32.09	36.91	38.29	38.29	35.81	38.29	426.86
NPC Kaiga APS Units 3 & 4	3.482	21.54	40.73	39.27	40.73	40.73	39.27	40.73	39.27	40.73	40.73	38.09	40.73	462.54
NPC Kudankulam NPP Unit 2	4.158	0.00	0.00	27.90	34.60	34.60	33.48	34.60	33.48	34.60	34.60	32.36	34.60	334.80
Sub-total		63.71	84.55	109.34	112.68	117.21	96.47	112.94	114.92	119.14	119.14	111.38	119.14	1280.63
Bundled Power (Coal)														
JNNM Phase 1	3.578	28.03	28.03	28.03	28.03	28.03	28.03	28.03	28.03	28.03	28.03	28.03	28.03	336.36
NTPC	6.466	114.33	118.14	114.33	118.14	118.14	114.33	118.14	114.33	118.14	118.14	110.39	118.14	1394.71
Sub-total		142.36	146.17	142.36	146.17	146.17	142.36	146.17	142.36	146.17	146.17	138.42	146.17	1731.07
Total CSGS		1734.24	1382.14	1328.65	1759.19	1776.04	2053.16	1775.44	1718.61	1781.51	1934.59	1668.21	2215.18	21126.95
Others														
SEIL (LT 1)	2.314	192.02	198.42	192.02	198.42	198.42	192.02	198.42	112.52	158.67	198.42	179.21	198.42	2216.94
SEIL (LT 2)	3.858	406.19	419.73	406.19	243.00	419.73	406.19	419.73	235.16	335.65	419.73	379.11	419.73	4510.17
STPP	3.167	798.03	824.64	754.05	491.04	412.32	412.32	598.18	475.20	722.72	824.64	774.43	824.64	7912.21
CSPDCL	1.200	559.40	578.05	559.40	578.05	578.05	559.40	578.05	559.40	578.05	578.05	540.76	578.05	6824.73
PTC (MT)														0.00
Total Others		1955.65	2020.83	1911.67	1510.51	1608.52	1569.93	1794.38	1382.29	1795.09	2020.83	1873.52	2020.83	21464.05
NCE														
Biomass		1.93	0.78	0.00	0.88	0.00	0.00	2.91	2.95	1.57	3.24	3.19	2.68	20.13
Bagasse		0.00	0.00	0.00	0.00	0.00	0.00	4.10	4.46	9.92	8.80	9.88	9.79	46.95
Municipal waste		9.72	10.05	9.72	10.05	10.05	9.72	10.05	9.72	10.05	10.05	9.07	10.05	118.28
Industrial waste		4.97	8.78	9.22	9.14	8.76	8.76	6.32	0.87	0.62	5.17	4.72	4.00	71.35
Wind		12.87	17.60	25.54	37.17	31.55	20.50	9.98	20.08	16.57	15.27	17.31	11.21	235.65
Mini Hydel		0.00	0.00	0.00	0.23	0.18	0.18	0.58	0.29	0.00	0.00	0.00	0.00	1.46
Solar		481.42	458.09	467.73	289.35	374.47	379.45	417.18	366.35	396.42	407.18	512.26	472.00	5021.88
Solar (JNNM Phase I)		4.07	3.31	3.26	2.01	2.30	2.88	2.54	1.69	2.09	3.26	4.66	5.14	37.22
Solar (NTPC)		74.80	72.25	69.62	49.10	61.82	61.82	68.75	52.95	65.36	68.37	78.91	76.11	799.88
Solar (SECI)		65.09	67.26	65.09	67.26	67.26	65.09	67.26	65.09	67.26	67.26	60.76	67.26	791.99
Solar (NTPC, NHPC CPSU)Tr-III 1545 MW		29.58	30.57	29.58	30.57	30.57	29.58	30.57	100.45	103.80	103.80	93.75	103.80	716.61
Solar (PM KUSUM)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar (NTPC CPSU)Tr-I & II 1692 MW		231.23	238.94	231.23	238.94	238.94	231.23	238.94	231.23	238.94	238.94	215.82	238.94	2813.35
Solar (SECI ISTS-IX)		50.42	52.10	50.42	52.10	52.10	50.42	52.10	171.19	176.89	176.89	159.78	176.89	1221.28
Total NCE		966.10	959.72	961.42	786.80	878.00	859.63	911.28	1027.33	1089.50	1108.23	1170.11	1177.88	11896.02
Short-term purchases		887.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	618.28	1505.42
Sale of surplus power		0.00	-405.33	-171.99	-291.82	-496.95	-909.71	-842.06	-336.26	-118.35	-67.43	-84.15	0.00	-3724.05
Grand total		7928.61	6313.89	6028.65	6031.37	7004.14	6995.98	7313.26	5884.58	6847.71	7363.55	7425.25	9019.37	84156.35

Annexure-VIII TSSPDCL – Cost of Service

Consumer Category	Generation Cost						Transmission - Inter-State			Transmission - Intra-State			
	Demand			Energy			Demand			Demand			
	Cost	Rate Basis - Contracts/ NCP G-T interface	CoS	Cost	Recovery Basis - Energy Sales	CoS	Cost	Rate Basis - Contracts/ NCP G-T interface	CoS	Cost	Rate Basis - Contracts/ NCP G-T interface	CoS	
	Rs.crore	MW	Rs./kVA/Month	Rs.crore	MU	Rs./kWh	Rs.crore	MW	Rs./kVA/Month	Rs.crore	MW	Rs./kVA/Month	
LT Categories													
LT-I	Domestic	2200.23	1533.42	1195.71	3526.88	11346.06	3.11	121.65	1533.42	66.11	303.92	1533.42	165.17
LT-II	Non-Domestic/Commercial	639.89	436.79	1220.80	924.72	2974.84	3.11	34.65	436.79	66.11	86.57	436.79	165.17
LT-III	Industrial	196.81	125.94	1302.20	263.34	847.17	3.11	9.99	125.94	66.11	24.96	125.94	165.17
LT-IV	Cottage Industries	1.80	1.41	1063.85	2.95	9.50	3.11	0.11	1.41	66.11	0.28	1.41	165.17
LT-V	Agricultural	2708.04	1655.00	1363.57	3546.99	11410.74	3.11	131.30	1655.00	66.11	328.02	1655.00	165.17
LT-VI	Street Lighting & PWS	95.96	62.83	1272.89	141.22	454.29	3.11	4.98	62.83	66.11	12.45	62.83	165.17
LT-VII	General Purpose	13.71	22.03	518.56	32.25	103.75	3.11	1.75	22.03	66.11	4.37	22.03	165.17
LT-VIII	Temporary Supply	38.69	25.43	1268.12	31.24	100.49	3.11	2.02	25.43	66.11	5.04	25.43	165.17
LT-IX	EV Charing station	0.32	0.20	1363.57	0.51	1.64	3.11	0.02	0.20	66.11	0.04	0.20	165.17
HT Categories													
HT-I	Industry												
	11 kV	914.28	2136.37	356.63	1321.61	4401.71	3.00	169.49	2136.37	66.11	423.43	2136.37	165.17
	33 kV	1297.41	2218.09	487.44	1926.68	6733.34	2.86	175.97	2218.09	66.11	439.62	2218.09	165.17
	132 kV	765.95	1210.54	527.28	1422.48	5214.14	2.73	96.04	1210.54	66.11	239.93	1210.54	165.17
HT-I(B)	Ferro Alloys												
	11 kV	0.07	0.09	663.43	0.12	0.41	3.00	0.01	0.09	66.11	0.02	0.09	165.17
	33 kV	5.47	9.98	456.71	10.61	37.08	2.86	0.79	9.98	66.11	1.98	9.98	165.17
	132 kV	29.20	70.90	343.20	57.63	211.23	2.73	5.63	70.90	66.11	14.05	70.90	165.17
HT-II	Others												
	11 kV	328.01	1155.55	236.55	566.19	1885.74	3.00	91.67	1155.55	66.11	229.03	1155.55	165.17
	33 kV	215.04	457.03	392.10	372.57	1302.04	2.86	36.26	457.03	66.11	90.58	457.03	165.17
	132 kV	7.21	20.43	294.11	11.02	40.39	2.73	1.62	20.43	66.11	4.05	20.43	165.17
HT-III	Airports, Railway stations and Bus stations												
	11 kV	0.77	2.03	314.88	1.21	4.05	3.00	0.16	2.03	66.11	0.40	2.03	165.17
	33 kV	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA
	132 kV	7.46	15.63	398.06	15.21	55.76	2.73	1.24	15.63	66.11	3.10	15.63	165.17
HT-IV	Irrigation, Agriculture & CPWS												
	11 kV	34.55	27.47	1047.88	58.26	194.05	3.00	2.18	27.47	66.11	5.45	27.47	165.17
	33 kV	34.38	63.26	452.83	83.71	292.56	2.86	5.02	63.26	66.11	12.54	63.26	165.17
	132 kV	638.47	1732.39	307.12	1111.06	4072.62	2.73	137.44	1732.39	66.11	343.36	1732.39	165.17
HT-V(A)	Railway Traction	94.95	331.68	238.56	154.50	566.31	2.73	26.31	331.68	66.11	65.74	331.68	165.17
HT-V(B)	HMR	15.61	66.33	196.13	30.01	110.00	2.73	5.26	66.33	66.11	13.15	66.33	165.17
HT-VI	Townships and Residential Colonies												
	11 kV	34.81	127.59	227.37	60.73	202.26	3.00	10.12	127.59	66.11	25.29	127.59	165.17
	33 kV	30.71	67.61	378.55	41.77	145.97	2.86	5.36	67.61	66.11	13.40	67.61	165.17
	132 kV	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA
HT-VII	Temporary Supply												
	11 kV	45.53	43.16	879.10	46.53	170.56	2.73	3.42	43.16	66.11	8.55	43.16	165.17
	33 kV	11.50	10.90	879.10	11.75	43.08	2.73	0.86	10.90	66.11	2.16	10.90	165.17
	132 kV	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA
HT-VIII	RESCOs	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA
HT-IX	EV Charging Stations	1.43	8.19	145.35	1.97	6.55	3.00	0.65	8.19	66.11	1.62	8.19	165.17
Total		10408.27	13638.28	19791.67	15775.71	52938.34	2.98	1081.98	13638.28	66.11	2703.08	13638.28	165.17

Consumer Category		Distribution			Retail Supply			Cost Allocation				Cost Allocation		Total Cost	Sales	CoS
		Demand			Energy			Demand G	Demand T	Demand D	Energy	Demand	Energy			
		Cost	Rate Basis - Contracts/ NCP G-T interface	CoS	Cost	Recovery Basis - Energy Sales	CoS									
		Rs.crore	MW	Rs./kVA/month	Rs.crore	MU	Rs./kWh	Rs.crore	Rs.crore	Rs.crore	Rs.crore	Rs.crore	Rs.crore	Rs.crore	MU	Rs./kWh
LT Categories																
LT-I	Domestic	1610.83	1533.42	875.40	75.18	11346.06	0.07	2200.23	425.57	1610.83	3602.06	4236.63	3602.06	7838.69	11346.06	6.91
LT-II	Non-Domestic/Commercial	458.85	436.79	875.40	19.71	2974.84	0.07	639.89	121.22	458.85	944.43	1219.96	944.43	2164.39	2974.84	7.28
LT-III	Industrial	132.30	125.94	875.40	5.61	847.17	0.07	196.81	34.95	132.30	268.95	364.06	268.95	633.02	847.17	7.47
LT-IV	Cottage Industries	1.48	1.41	875.40	0.06	9.50	0.07	1.80	0.39	1.48	3.01	3.68	3.01	6.69	9.50	7.05
LT-V	Agricultural	1738.55	1655.00	875.40	75.61	11410.74	0.07	2708.04	459.32	1738.55	3622.59	4905.90	3622.59	8528.50	11410.74	7.47
LT-VI	Street Lighting & PWS	66.00	62.83	875.40	3.01	454.29	0.07	95.96	17.44	66.00	144.23	179.40	144.23	323.62	454.29	7.12
LT-VII	General Purpose	23.15	22.03	875.40	0.69	103.75	0.07	13.71	6.12	23.15	32.94	42.97	32.94	75.91	103.75	7.32
LT-VIII	Temporary Supply	26.71	25.43	875.40	0.67	100.49	0.07	38.69	7.06	26.71	31.90	72.46	31.90	104.37	100.49	10.39
LT-IX	EV Charing Stations	0.21	0.20	875.40	0.01	1.64	0.07	0.32	0.05	0.21	0.52	0.58	0.52	1.10	1.64	6.70
HT Categories																
HT-I	Industry															
	11 kV	593.41	2136.37	231.47	28.17	4401.71	0.06	914.28	592.91	593.41	1349.78	2100.61	1349.78	3450.38	4401.71	7.84
	33 kV	108.27	2218.09	40.68	41.07	6733.34	0.06	1297.41	615.59	108.27	1967.74	2021.27	1967.74	3989.01	6733.34	5.92
	132 kV	0.00	1210.54	0.00	30.32	5214.14	0.06	765.95	335.96	0.00	1452.80	1101.91	1452.80	2554.71	5214.14	4.90
HT-I(B)	Ferro Alloys															
	11 kV	0.02	0.09	231.47	0.00	0.41	0.06	0.07	0.02	0.02	0.13	0.12	0.13	0.25	0.41	6.02
	33 kV	0.49	9.98	40.68	0.23	37.08	0.06	5.47	2.77	0.49	10.84	8.72	10.84	19.56	37.08	5.27
	132 kV	0.00	70.90	0.00	1.23	211.23	0.06	29.20	19.68	0.00	58.85	48.88	58.85	107.73	211.23	5.10
HT-II	Others															
	11 kV	320.97	1155.55	231.47	12.07	1885.74	0.06	328.01	320.70	320.97	578.26	969.69	578.26	1547.95	1885.74	8.21
	33 kV	22.31	457.03	40.68	7.94	1302.04	0.06	215.04	126.84	22.31	380.51	364.19	380.51	744.70	1302.04	5.72
	132 kV	0.00	20.43	0.00	0.23	40.39	0.06	7.21	5.67	0.00	11.25	12.88	11.25	24.13	40.39	5.98
HT-III	Airports, Railway stations and Bus stations															
	11 kV	0.56	2.03	231.47	0.03	4.05	0.06	0.77	0.56	0.56	1.24	1.90	1.24	3.14	4.05	7.75
	33 kV	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA
	132 kV	0.00	15.63	0.00	0.32	55.76	0.06	7.46	4.34	0.00	15.54	11.80	15.54	27.34	55.76	4.90
HT-IV	Irrigation, Agriculture & CPWS															
	11 kV	7.63	27.47	231.47	1.24	194.05	0.06	34.55	7.62	7.63	59.50	49.80	59.50	109.31	194.05	5.63
	33 kV	3.09	63.26	40.68	1.78	292.56	0.06	34.38	17.56	3.09	85.50	55.02	85.50	140.52	292.56	4.80
	132 kV	0.00	1732.39	0.00	23.68	4072.62	0.06	638.47	480.79	0.00	1134.74	1119.26	1134.74	2254.01	4072.62	5.53
HT-V(A)	Railway Traction	0.00	331.68	0.00	3.29	566.31	0.06	94.95	92.05	0.00	157.79	187.01	157.79	344.80	566.31	6.09
HT-V(B)	HMR	0.00	66.33	0.00	0.64	110.00	0.06	15.61	18.41	0.00	30.65	34.02	30.65	64.67	110.00	5.88
HT-VI	Townships and Residential Colonies															
	11 kV	35.44	127.59	231.47	1.29	202.26	0.06	34.81	35.41	35.44	62.02	105.67	62.02	167.69	202.26	8.29
	33 kV	3.30	67.61	40.68	0.89	145.97	0.06	30.71	18.76	3.30	42.66	52.78	42.66	95.44	145.97	6.54
	132 kV	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA
HT-VII	Temporary Supply															
	11 kV	11.99	43.16	231.47	0.99	170.56	0.06	45.53	11.98	11.99	47.52	69.49	47.52	117.02	170.56	6.86
	33 kV	0.53	10.90	40.68	0.25	43.08	0.06	11.50	3.03	0.53	12.00	15.06	12.00	27.06	43.08	6.28
	132 kV	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA
HT-VIII	RESCOs	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA
HT-IX	EV Charing Stations	2.27	8.19	231.47	0.04	6.55	0.06	1.43	2.27	2.27	2.01	5.97	2.01	7.98	6.55	12.18
Total		5168.36	13638.28	315.80	336.26	52938.34	0.06	10408.27	3785.06	5168.36	16111.98	19361.69	16111.98	35473.67	52938.34	6.70

Annexure-IX TSNPDCL – Cost of Service

Consumer Category	Generation Cost						Transmission - Inter-State			Transmission - Intra-State			
	Demand		Energy		Demand		Demand		Demand		Demand		
	Cost	Rate Basis - Contracts/ NCP G-T interface	CoS	Cost	Recovery Basis - Energy Sales	CoS	Cost	Rate Basis - Contracts/ NCP G-T interface	CoS	Cost	Rate Basis - Contracts/ NCP G-T interface	CoS	
	Rs.crore	MW	Rs./kVA/Month	Rs.crore	MU	Rs./kWh	Rs.crore	MW	Rs./kVA/Month	Rs.crore	MW	Rs./kVA/Month	
LT Categories													
LT-I	Domestic	765.21	594.09	1073.36	1299.54	4160.67	3.12	43.24	594.09	60.65	109.25	594.09	153.25
LT-II	Non-Domestic/Commercial	179.72	124.52	1202.73	243.76	780.43	3.12	9.06	124.52	60.65	22.90	124.52	153.25
LT-III	Industrial	30.03	18.61	1344.73	42.91	137.37	3.12	1.35	18.61	60.65	3.42	18.61	153.25
LT-IV	Cottage Industries	2.47	1.66	1238.79	2.71	8.68	3.12	0.12	1.66	60.65	0.31	1.66	153.25
LT-V	Agricultural	2050.57	1450.22	1178.31	2623.63	8399.97	3.12	105.55	1450.22	60.65	266.69	1450.22	153.25
LT-VI	Street Lighting & PWS	76.73	89.00	718.49	117.35	375.71	3.12	6.48	89.00	60.65	16.37	89.00	153.25
LT-VII	General Purpose	14.18	16.44	718.49	21.68	69.41	3.12	1.20	16.44	60.65	3.02	16.44	153.25
LT-VIII	Temporary Supply	2.69	2.13	1050.85	2.52	8.07	3.12	0.16	2.13	60.65	0.39	2.13	153.25
LT-IX	EV Charing Stations	0.00	0.00	NA	0.00	1.25	0.00	0.00	0.00	NA	0.00	0.00	NA
HT Categories													
HT-I	Industry												
	11 kV	196.82	527.57	310.89	311.75	1033.86	3.02	38.40	527.57	60.65	97.02	527.57	153.25
	33 kV	37.55	71.10	440.09	60.96	211.36	2.88	5.18	71.10	60.65	13.08	71.10	153.25
	132 kV	102.86	209.22	409.70	179.48	651.85	2.75	15.23	209.22	60.65	38.48	209.22	153.25
HT-I(B)	Ferro Alloys												
	11 kV	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA
	33 kV	13.00	0.00	NA	21.10	73.18	2.88	0.00	0.00	NA	0.00	0.00	NA
	132 kV	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA
HT-II	Others												
	11 kV	35.07	107.79	271.17	56.68	187.98	3.02	7.85	107.79	60.65	19.82	107.79	153.25
	33 kV	1.33	7.04	157.72	2.46	8.52	2.88	0.51	7.04	60.65	1.29	7.04	153.25
	132 kV	0.45	18.60	19.99	0.84	3.05	2.75	1.35	18.60	60.65	3.42	18.60	153.25
HT-III	Airports, Railway stations and Bus stations												
	11 kV	1.72	2.77	519.03	2.36	7.83	3.02	0.20	2.77	60.65	0.51	2.77	153.25
	33 kV	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA
	132 kV	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA
HT-IV	Irrigation, Agriculture & CPWS												
	11 kV	34.11	24.06	1181.42	55.12	182.80	3.02	1.75	24.06	60.65	4.42	24.06	153.25
	33 kV	59.91	48.75	1024.25	108.16	375.02	2.88	3.55	48.75	60.65	8.96	48.75	153.25
	132 kV	408.75	2511.29	135.64	766.23	2782.89	2.75	182.78	2511.29	60.65	461.82	2511.29	153.25
HT-V(A)	Railway Traction	97.02	173.78	465.27	150.77	547.58	2.75	12.65	173.78	60.65	31.96	173.78	153.25
HT-V(B)	HMR	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA
HT-VI	Townships and Residential Colonies												
	11 kV	1.07	5.24	170.61	2.33	7.73	3.02	0.38	5.24	60.65	0.96	5.24	153.25
	33 kV	3.62	17.89	168.55	5.94	20.59	2.88	1.30	17.89	60.65	3.29	17.89	153.25
	132 kV	14.55	31.26	387.86	27.72	100.67	2.75	2.27	31.26	60.65	5.75	31.26	153.25
HT-VII	Temporary Supply												
	11 kV	7.60	6.70	945.66	7.64	25.34	3.02	0.49	6.70	60.65	1.23	6.70	153.25
	33 kV	0.99	0.88	945.66	1.00	3.32	3.02	0.06	0.88	60.65	0.16	0.88	153.25
	132 kV	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA
HT-VIII	RESCOs	206.73	138.45	1244.28	291.06	965.26	3.02	10.08	138.45	60.65	25.46	138.45	153.25
HT-IX	EV Charing Stations	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA
Total		4344.77	6199.04	584.06	6405.70	21130.36	3.03	451.19	6199.04	60.65	1139.98	6199.04	153.25

Consumer Category	Distribution			Retail Supply			Cost Allocation				Cost Allocation		Total Cost	Sales	CoS	
	Demand			Energy			Demand G	Demand T	Demand D	Energy	Demand	Energy				
	Cost	Rate Basis - Contracts/ NCP G-T interface	CoS	Cost	Recovery Basis - Energy Sales	CoS										
	Rs.crore	MW	Rs./kVA/Month	Rs.crore	MU	Rs./kWh	Rs.crore	Rs.crore	Rs.crore	Rs.crore	Rs.crore	Rs.crore	Rs.crore	MU	Rs./kWh	
LT Categories																
LT-I	Domestic	917.77	594.09	1287.36	22.32	4160.67	0.05	765.21	152.49	917.77	1321.86	1835.48	1321.86	3157.34	4160.67	7.59
LT-II	Non-Domestic/Commercial	192.37	124.52	1287.36	4.19	780.43	0.05	179.72	31.96	192.37	247.94	404.05	247.94	652.00	780.43	8.35
LT-III	Industrial	28.75	18.61	1287.36	0.74	137.37	0.05	30.03	4.78	28.75	43.64	63.56	43.64	107.20	137.37	7.80
LT-IV	Cottage Industries	2.57	1.66	1287.36	0.05	8.68	0.05	2.47	0.43	2.57	2.76	5.47	2.76	8.23	8.68	9.48
LT-V	Agricultural	2240.35	1450.22	1287.36	45.07	8399.97	0.05	2050.57	372.24	2240.35	2668.70	4663.17	2668.70	7331.87	8399.97	8.73
LT-VI	Street Lighting & PWS	137.49	89.00	1287.36	2.02	375.71	0.05	76.73	22.84	137.49	119.37	237.06	119.37	356.43	375.71	9.49
LT-VII	General Purpose	25.40	16.44	1287.36	0.37	69.41	0.05	14.18	4.22	25.40	22.05	43.79	22.05	65.85	69.41	9.49
LT-VIII	Temporary Supply	3.29	2.13	1287.36	0.04	8.07	0.05	2.69	0.55	3.29	2.56	6.53	2.56	9.09	8.07	11.27
LT-IX	EV Charing Stations	0.00	0.00	NA	0.00	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.25	0.00
HT Categories																
HT-I	Industry															
	11 kV	339.08	527.57	535.59	5.36	1033.86	0.05	196.82	135.42	339.08	317.11	671.32	317.11	988.42	1033.86	9.56
	33 kV	5.46	71.10	63.98	1.05	211.36	0.05	37.55	18.25	5.46	62.01	61.26	62.01	123.26	211.36	5.83
	132 kV	0.00	209.22	0.00	3.08	651.85	0.05	102.86	53.70	0.00	182.56	156.57	182.56	339.13	651.85	5.20
HT-I(B)	Ferro Alloys															
	11 kV	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA
	33 kV	0.00	0.00	NA	0.36	73.18	0.05	13.00	0.00	0.00	21.47	13.00	21.47	34.47	73.18	4.71
	132 kV	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA
HT-II	Others															
	11 kV	69.28	107.79	535.59	0.97	187.98	0.05	35.07	27.67	69.28	57.66	132.02	57.66	189.67	187.98	10.09
	33 kV	0.54	7.04	63.98	0.04	8.52	0.05	1.33	1.81	0.54	2.50	3.68	2.50	6.18	8.52	7.25
	132 kV	0.00	18.60	0.00	0.01	3.05	0.05	0.45	4.77	0.00	0.85	5.22	0.85	6.07	3.05	19.93
HT-III	Airports, Railway stations and Bus stations															
	11 kV	1.78	2.77	535.59	0.04	7.83	0.05	1.72	0.71	1.78	2.40	4.21	2.40	6.61	7.83	8.45
	33 kV	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA
	132 kV	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA
HT-IV	Irrigation, Agriculture & CPWS															
	11 kV	15.46	24.06	535.59	0.95	182.80	0.05	34.11	6.17	15.46	56.07	55.74	56.07	111.81	182.80	6.12
	33 kV	3.74	48.75	63.98	1.86	375.02	0.05	59.91	12.51	3.74	110.02	76.17	110.02	186.19	375.02	4.96
	132 kV	0.00	2511.29	0.00	13.16	2782.89	0.05	408.75	644.60	0.00	779.40	1053.35	779.40	1832.75	2782.89	6.59
HT-V(A)	Railway Traction	0.00	173.78	0.00	2.59	547.58	0.05	97.02	44.61	0.00	153.36	141.63	153.36	294.99	547.58	5.39
HT-V(B)	HMR	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA
HT-VI	Townships and Residential Colonies															
	11 kV	3.36	5.24	535.59	0.04	7.73	0.05	1.07	1.34	3.36	2.37	5.78	2.37	8.15	7.73	10.55
	33 kV	1.37	17.89	63.98	0.10	20.59	0.05	3.62	4.59	1.37	6.04	9.58	6.04	15.62	20.59	7.59
	132 kV	0.00	31.26	0.00	0.48	100.67	0.05	14.55	8.02	0.00	28.19	22.57	28.19	50.76	100.67	5.04
HT-VII	Temporary Supply															
	11 kV	4.30	6.70	535.59	0.13	25.34	0.05	7.60	1.72	4.30	7.77	13.62	7.77	21.40	25.34	8.44
	33 kV	0.07	0.88	63.98	0.02	3.32	0.05	0.99	0.22	0.07	1.02	1.29	1.02	2.30	3.32	6.95
	132 kV	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA
HT-VIII	RESCOs	88.98	138.45	535.59	5.00	965.26	0.05	206.73	35.54	88.98	296.06	331.25	296.06	627.31	965.26	6.50
HT-IX	EV Charing Stations	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA
Total		4081.42	6199.04	548.66	110.04	21130.36	0.05	4344.77	1591.17	4081.42	6515.74	10017.37	6515.74	16533.11	21130.36	7.82

Annexure-X TSDISCOMs – Cost of Service

Consumer Category	Generation Cost												Transmission - Inter-State			Transmission - Intra-State		
	Demand			Energy			Demand			Demand								
	Cost	Rate Basis - Contracts/ NCP G-T interface	CoS	Cost	Rate Basis - Contracts/ NCP G-T interface	CoS	Cost	Rate Basis - Contracts/ NCP G-T interface	CoS	Cost	Rate Basis - Contracts/ NCP G-T interface	CoS						
	Rs.crore	MW	Rs./kVA/Month	Rs.crore	MU	Rs./kWh	Rs.crore	MW	Rs./kVA/Month	Rs.crore	MW	Rs./kVA/Month						
LT Categories																		
LT-I	Domestic	2965.44	2127.51	1161.54	4826.42	15506.72	3.11	164.89	2127.51	64.59	413.17	2127.51	161.84					
LT-II	Non-Domestic/Commercial	819.61	561.32	1216.79	1168.48	3755.27	3.11	43.72	561.32	64.90	109.47	561.32	162.52					
LT-III	Industrial	226.84	144.55	1307.68	306.25	984.54	3.11	11.35	144.55	65.41	28.38	144.55	163.63					
LT-IV	Cottage Industries	4.28	3.08	1158.50	5.66	18.18	3.12	0.23	3.08	63.16	0.59	3.08	158.72					
LT-V	Agricultural	4758.61	3105.22	1277.05	6170.62	19810.71	3.11	236.85	3105.22	63.56	594.71	3105.22	159.60					
LT-VI	Street Lighting & PWS	172.70	151.82	947.90	258.57	830.01	3.12	11.46	151.82	62.91	28.82	151.82	158.18					
LT-VII	General Purpose	27.89	38.48	604.00	53.93	173.16	3.11	2.94	38.48	63.78	7.39	38.48	160.07					
LT-VIII	Temporary Supply	41.38	27.56	1251.30	33.76	108.56	3.11	2.17	27.56	65.69	5.43	27.56	164.24					
LT-IX	EV Charing Stations	0.32	0.20	1363.57	0.51	2.90	1.76	0.02	0.20	66.11	0.04	0.20	165.17					
HT Categories																		
HT-I	Industry																	
	11 kV	1111.10	2663.95	347.57	1633.36	5435.57	3.00	207.89	2663.95	65.03	520.44	2663.95	162.80					
	33 kV	1334.96	2289.19	485.97	1987.63	6944.69	2.86	181.15	2289.19	65.94	452.70	2289.19	164.79					
	132 kV	868.81	1419.76	509.95	1601.96	5866.00	2.73	111.27	1419.76	65.31	278.40	1419.76	163.41					
HT-I(B)	Ferro Alloys																	
	11 kV	0.07	0.09	663.43	0.12	0.41	3.00	0.01	0.09	66.11	0.02	0.09	165.17					
	33 kV	18.47	9.98	1542.53	31.72	110.26	2.88	0.79	9.98	66.11	1.98	9.98	165.17					
	132 kV	29.20	70.90	343.20	57.63	211.23	2.73	5.63	70.90	66.11	14.05	70.90	165.17					
HT-II	Others																	
	11 kV	363.09	1263.33	239.50	622.87	2073.72	3.00	99.52	1263.33	65.65	248.85	1263.33	164.15					
	33 kV	216.37	464.06	388.55	375.02	1310.56	2.86	36.77	464.06	66.03	91.88	464.06	164.98					
	132 kV	7.66	39.03	163.49	11.86	43.43	2.73	2.97	39.03	63.51	7.47	39.03	159.49					
HT-III	Airports, Railway stations and Bus stations																	
	11 kV	2.49	4.80	432.56	3.58	11.87	3.01	0.36	4.80	62.96	0.91	4.80	158.29					
	33 kV	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA					
	132 kV	7.46	15.63	398.06	15.21	55.76	2.73	1.24	15.63	66.11	3.10	15.63	165.17					
HT-IV	Irrigation, Agriculture & CPWS																	
	11 kV	68.65	51.53	1110.22	113.38	376.84	3.01	3.93	51.53	63.56	9.87	51.53	159.60					
	33 kV	94.29	112.01	701.51	191.87	667.58	2.87	8.57	112.01	63.74	21.50	112.01	159.98					
	132 kV	1047.22	4243.68	205.64	1877.29	6855.52	2.74	320.22	4243.68	62.88	805.17	4243.68	158.11					
HT-V(A)	Railway Traction	191.98	505.46	316.51	305.26	1113.89	2.74	38.96	505.46	64.23	97.70	505.46	161.07					
HT-V(B)	HMR	15.61	66.33	196.13	30.01	110.00	2.73	5.26	66.33	66.11	13.15	66.33	165.17					
HT-VI	Townships and Residential Colonies																	
	11 kV	35.89	132.83	225.14	63.06	209.99	3.00	10.50	132.83	65.90	26.25	132.83	164.70					
	33 kV	34.33	85.50	334.62	47.71	166.56	2.86	6.67	85.50	64.97	16.69	85.50	162.67					
	132 kV	14.55	31.26	387.86	27.72	100.67	2.75	2.27	31.26	60.65	5.75	31.26	153.25					
H-VII	Temporary Supply																	
	11 kV	53.13	49.86	888.04	54.17	195.90	2.77	3.91	49.86	65.38	9.79	49.86	163.56					
	33 kV	12.49	11.78	884.05	12.75	46.40	2.75	0.93	11.78	65.71	2.32	11.78	164.28					
	132 kV	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	NA					
HT-VIII	RESCOs	206.73	138.45	1244.28	291.06	965.26	3.02	10.08	138.45	60.65	25.46	138.45	153.25					
HT-IX	EV Charing Stations	1.43	8.19	145.35	1.97	6.55	3.00	0.65	8.19	66.11	1.62	8.19	165.17					
	Total	14753.05	19837.32	619.75	22181.41	74068.70	2.99	1533.17	19837.32	64.41	3843.06	19837.32	161.44					

Consumer Category	Distribution			Retail Supply			Cost Allocation				Cost Allocation		Total Cost	Sales	CoS	
	Demand			Energy			Demand G	Demand T	Demand D	Energy	Demand	Energy				
	Cost	Rate Basis - Contracts/ NCP G-T interface	CoS	Cost	Recovery Basis - Energy Sales	CoS										
	Rs.crore	MW	Rs./kVA/month	Rs.crore	MU	Rs./kWh	Rs.crore	Rs.crore	Rs.crore	Rs.crore	Rs.crore	Rs.crore	Rs.crore	Rs.crore	MU	Rs./kWh
LT Categories																
LT-I	Domestic	2528.61	2127.51	990.44	97.50	15506.72	0.06	2965.44	578.06	2528.61	4923.92	6072.10	4923.92	10996.02	15506.72	7.09
LT-II	Non-Domestic/Commercial	651.21	561.32	966.79	23.90	3755.27	0.06	819.61	153.19	651.21	1192.38	1624.01	1192.38	2816.38	3755.27	7.50
LT-III	Industrial	161.05	144.55	928.44	6.35	984.54	0.06	226.84	39.73	161.05	312.60	427.62	312.60	740.22	984.54	7.52
LT-IV	Cottage Industries	4.05	3.08	1098.29	0.11	18.18	0.06	4.28	0.82	4.05	5.77	9.15	5.77	14.92	18.18	8.21
LT-V	Agricultural	3978.90	3105.22	1067.80	120.68	19810.71	0.06	4758.61	831.56	3978.90	6291.30	9569.07	6291.30	15860.37	19810.71	8.01
LT-VI	Street Lighting & PWS	203.48	151.82	1116.89	5.03	830.01	0.06	172.70	40.28	203.48	263.59	416.46	263.59	680.05	830.01	8.19
LT-VII	General Purpose	48.55	38.48	1051.44	1.06	173.16	0.06	27.89	10.34	48.55	54.99	86.77	54.99	141.76	173.16	8.19
LT-VIII	Temporary Supply	30.01	27.56	907.28	0.71	108.56	0.07	41.38	7.60	30.01	34.47	78.99	34.47	113.46	108.56	10.45
LT-IX	EV Charing Stations	0.21	0.20	875.40	0.01	2.90	0.04	0.32	0.05	0.21	0.52	0.58	0.52	1.10	2.90	3.80
HT Categories																
HT-I	Industry															
	11 kV	932.49	2663.95	291.70	33.53	5435.57	0.06	1111.10	728.33	932.49	1666.88	2771.92	1666.88	4438.81	5435.57	8.17
	33 kV	113.72	2289.19	41.40	42.11	6944.69	0.06	1334.96	633.84	113.72	2029.75	2082.53	2029.75	4112.28	6944.69	5.92
	132 kV	0.00	1419.76	0.00	33.40	5866.00	0.06	868.81	389.67	0.00	1635.37	1258.48	1635.37	2893.84	5866.00	4.93
HT-I(B)	Ferro Alloys															
	11 kV	0.02	0.09	231.47	0.00	0.41	0.06	0.07	0.02	0.02	0.13	0.12	0.13	0.25	0.41	6.02
	33 kV	0.49	9.98	40.68	0.59	110.26	0.05	18.47	2.77	0.49	32.30	21.72	32.30	54.03	110.26	4.90
	132 kV	0.00	70.90	0.00	1.23	211.23	0.06	29.20	19.68	0.00	58.85	48.88	58.85	107.73	211.23	5.10
HT-II	Others															
	11 kV	390.25	1263.33	257.42	13.04	2073.72	0.06	363.09	348.37	390.25	635.92	1101.70	635.92	1737.62	2073.72	8.38
	33 kV	22.85	464.06	41.03	7.98	1310.56	0.06	216.37	128.65	22.85	383.01	367.87	383.01	750.87	1310.56	5.73
	132 kV	0.00	39.03	0.00	0.25	43.43	0.06	7.66	10.44	0.00	12.11	18.10	12.11	30.21	43.43	6.95
HT-III	Airports, Railway stations and Bus stations															
	11 kV	2.34	4.80	406.78	0.07	11.87	0.06	2.49	1.27	2.34	3.64	6.11	3.64	9.75	11.87	8.21
	33 kV	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA
	132 kV	0.00	15.63	0.00	0.32	55.76	0.06	7.46	4.34	0.00	15.54	11.80	15.54	27.34	55.76	4.90
HT-IV	Irrigation, Agriculture & CPWS															
	11 kV	23.09	51.53	373.45	2.19	376.84	0.06	68.65	13.80	23.09	115.57	105.55	115.57	221.12	376.84	5.87
	33 kV	6.83	112.01	50.82	3.64	667.58	0.05	94.29	30.07	6.83	195.52	131.19	195.52	326.71	667.58	4.89
	132 kV	0.00	4243.68	0.00	36.85	6855.52	0.05	1047.22	1125.39	0.00	1914.14	2172.61	1914.14	4086.75	6855.52	5.96
HT-V(A)	Railway Traction	0.00	505.46	0.00	5.88	1113.89	0.05	191.98	136.66	0.00	311.15	328.64	311.15	639.78	1113.89	5.74
HT-V(B)	HMR	0.00	66.33	0.00	0.64	110.00	0.06	15.61	18.41	0.00	30.65	34.02	30.65	64.67	110.00	5.88
HT-VI	Townships and Residential Colonies															
	11 kV	38.81	132.83	243.46	1.33	209.99	0.06	35.89	36.76	38.81	64.39	111.45	64.39	175.84	209.99	8.37
	33 kV	4.67	85.50	45.55	0.99	166.56	0.06	34.33	23.36	4.67	48.70	62.36	48.70	111.06	166.56	6.67
	132 kV	0.00	31.26	0.00	0.48	100.67	0.05	14.55	8.02	0.00	28.19	22.57	28.19	50.76	100.67	5.04
HT-VII	Temporary Supply															
	11 kV	16.29	49.86	272.32	1.12	195.90	0.06	53.13	13.70	16.29	55.29	83.12	55.29	138.41	195.90	7.07
	33 kV	0.60	11.78	42.41	0.27	46.40	0.06	12.49	3.25	0.60	13.02	16.34	13.02	29.36	46.40	6.33
	132 kV	0.00	0.00	NA	0.00	0.00	NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA
HT-VIII	RESCOs	88.98	138.45	535.59	5.00	965.26	0.05	206.73	35.54	88.98	296.06	331.25	296.06	627.31	965.26	6.50
HT-IX	EV Charing Stations	2.27	8.19	231.47	0.04	6.55	0.06	1.43	2.27	2.27	2.01	5.97	2.01	7.98	6.55	12.18
Total		9249.78	19837.32	388.57	446.30	74068.70	0.06	14753.05	5376.23	9249.78	22627.72	29379.06	22627.72	52006.78	74068.70	7.02