



BEFORE THE HONOURABLE TELANGANA STATE ELECTRICITY REGULATORY
COMMISSION

Office at 5th Floor, Singareni Bhavan, Red Hills, Hyderabad - 500 004

FILING NO. _____/2022
O-P. CASE NO. 86/2022

In the matter of:

Filing of the Power Purchase True-up applications for Retail Supply Business for the FY 2020-21 in accordance with the “Andhra Pradesh Electricity Regulatory Commission (Terms and Conditions for determination of Tariff for Wheeling and Retail Sale of Electricity) Regulation, 2005” and its first amendment Regulation 1 of 2014 thereof (adopted by TSERC) by the Southern Power Distribution Company of Telangana Limited (‘TSSPDCL’ or ‘the Company’ or ‘the Licensee’) as the Distribution and Retail Supply Licensee

In the matter of:

SOUTHERN POWER DISTRIBUTION COMPANY OF TELANGANA LIMITED

... Applicant

The Applicant respectfully submits as under: -

1. Consequent to the formation of Telangana State on 02-06-2014 as per the Andhra Pradesh Reorganisation Act, 2014, a separate Telangana Electricity Regulation Commission was constituted on 03-11-2014. TSERC vide Telangana Official Gazette has issued its first regulation, Regulation No. 1 of 2014 on 10.12.2014 (Adoption of Previously Subsisting Regulations, Decisions, Directions or Orders, Licenses and Practice of Directions) wherein clause 2 states that:

“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in electricity in the State of Telangana including the Commission and shall continue to have effect until duly altered, repealed or amended, any of Regulation by the Commission with effect from the date of notification as per Notification issued by the Government of Telangana in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."

2. This filing is made by the **SOUTHERN POWER DISTRIBUTION COMPANY OF TELANGANA LIMITED (TSSPDCL)** under Section 62(4) of the Electricity Act 2003 for determination of the Power Purchase True-ups for the Retail Supply Business for the period **FY 2020-21** in accordance to the Andhra Pradesh Electricity Regulatory Commission (Terms and Conditions for determination of Tariff for Wheeling and Retail Sale of Electricity) Regulation, 2005" and its first amendment Regulation 1 of 2014 thereof (adopted by TSERC vide Regulation No. 1 of 2014).
3. Accordingly, the Licensee in this filing submits the following Proposal of final Power Purchase True-ups for **FY 2020-21** in accordance to APERC Regulation No. 1 of 2014 as adopted by TSERC vide Regulation No. 1 of 2014: -
4. **Power Purchase True-ups:**
 - i. As per the directions of the Hon'ble Commission, the Licensee had submitted provisional true up cost for the FY 2016-17 as a part of additional information in the filing of ARR for Retail Supply Business for FY 2017-18. Accordingly, the Hon'ble Commission had approved the final true-up for the FY 2015-16 and provisional true-down for the FY 2016-17 in Retail Supply Tariff Order for the FY 2017-18 (Ref: Page 67-68 of the Tariff Order).
 - ii. It is to further submit that the Licensee in the ARR filing for the FY 2018-19 requested the Hon'ble Commission to allow to file the provisional true-up for the FY 2017-18 & final true-up for the FY 2016-17 separately in view of high degree of uncertainty involved in estimating the trueing up for FY 2017-18 due to 24 hours

- supply to agricultural consumers w.e.f. 01.01.2018 as well as energization of Lift Irrigation (LI) schemes.
- iii. Further, the Licensees have submitted an application to the Commission for making amendments to the Principal Regulation No. 4 of 2005 on 11.08.2017 wherein the licensee has requested the Hon'ble Commission to amend the regulation on True-up by allowing the actual agricultural sales in arriving Power Purchase cost True-ups so as to allow the DISCOMs to pass on the excess Power purchase cost in the ARR of Retail Supply Business.
 - iv. Hence, to avoid any undue burden on the consumers, the licensees requested the Commission for filing of true-up in the ensuing year i.e., FY 2019-20 (*Ref: Pg 44 of RST for the FY 2018-19*)
 - v. Further to submit that the licensee has continued the same tariffs as applicable for FY 2018-19 in accordance to the Orders on continuation of Retail supply tariffs of FY 2018-19 for the FY 2019-20, FY 2020-21 and FY 2021-22 issued by the Hon'ble TSERC.
 - vi. As the same tariffs of FY 2018-19 are continued for FY 2019-20, FY 2020-21 and FY 2021-22, the Aggregate Revenue Requirement approved for FY 2018-19 is continued to be applicable for FY 2019-20, FY 2020-21 and FY 2021-22.
 - vii. Accordingly, the licensee has arrived at power purchase True-ups for FY 2019-20, FY 2020-21 and FY 2021-22 considering the approved power purchase true-ups for FY 2018-19.
 - viii. In accordance to the APERC Regulation 1 of 2014 as adopted by TSERC vide Regulation 1 of 2014 dated 10.12.2014, the Licensee herewith submits the Power Purchase True-up arrived considering the actual 24x7 Agricultural consumption for consideration and then restricting the Agricultural sales as stipulated in the Regulation.

Year	Net Power purchase True-up as arrived by TSSPDCL (in Rs. Crs)	
	Considering actual agriculture sales	Considering agriculture sales as per the Regulation
FY 2020-21	5,081	3,231

5. Treatment of True-ups:

- i. It is to submit that as mentioned in the Para supra, the licensee has True-ups claim of Rs. **5081 crores after considering the actual agriculture sales for the FY 2020-21** showing the impact of 24*7 supply of power supply given to agriculture.
- ii. It is pertinent to mention that, the licensees had prayed before the Hon'ble Commission at various junctures to include the same in the relevant regulations or review the approved sales. However, the same has been declined by the Hon'ble Commission stating that submissions of the TSDISCOMs would be treated as suggestion/input as and when the Commission initiates the process of adding to or amending or varying regulation.
- iii. **Hence, in view of the above, the licensee is adhering to the Regulation 1 of 2014 adopted by the Hon'ble TSERC in claiming the true-ups for relevant period strictly limiting the agricultural sales as per the Regulation.**
- iv. Further, Loss funding amount of Rs. 2124 Crores provided by Government of Telangana (vide G.O. Ms. No. 15 dated 18.06.2022) is added up for the FY 2020-21.
- v. Thus, TS Discoms requests the Hon'ble Commission to consider the Net Power Purchase True up after deducting the loss funding provided by the Government of Telangana from the total Power Purchase True up as per the regulation.

- vi. The below tables briefs about the Power Purchase true up for TSSPDCL calculated in line with the regulatory provisions of Clause 12.5 of APERC Regulation 1 of 2014.

FY	Power Purchase True up/True down as per Regulation (Rs. Crs)
2020-21*	3,230.80
Loss Funding	2124.00
Net True-up claim	1106.80

- vii. The licensee proposes to recover the Net Power Purchase true up amount of Rs. **1106.80** crores from the Consumers in the form of additional ARR in the ensuing Tariff Order.
6. Based on the information available, the applicant has made sincere efforts to comply with the Regulation of the Hon'ble Commission and discharge its obligations to the best of its abilities. However, should any further material information become available in the near future, the applicant reserves the right to file such additional information and consequently amend/ revise the application.
7. This filing has been discussed and approved by the Board of Directors of TSSPDCL and Sri. Ch. Chakrapani, Chief General Manager/RAC of TSSPDCL has been authorised to execute and file the said document on behalf of TSSPDCL. Accordingly, the current filing documents are signed and verified by, and backed by the affidavit of Sri. Ch. Chakrapani, the Chief General Manager/RAC of TSSPDCL.
8. In the aforesaid facts and circumstances, the Applicant requests that this Hon'ble Commission may be pleased to:
- To admit the Power Purchase True Up Petition filed by the Licensee, in accordance with Clause 12.5 of APERC Regulation 1 of 2014 for the for FY 2020-21
 - To approve the Power Purchase True Up cost as submitted in the Petition in order to recover financial losses of the licensee.

- c) To allow the impact of Power Purchase True up to be passed on, in the subsequent Tariff Orders to be issued by Hon'ble Commission
- d) Grant suitable opportunity to TSSPDCL within a reasonable time frame to file additional material information that may be subsequently available;
- e) Consider and approve TSSPDCL's power purchase True-up application including all requested regulatory treatments in the filing;
- f) Pass such order as the Hon'ble Commission may deem fit and proper in the facts and circumstances of the case.

SOUTHERN POWER DISTRIBUTION COMPANY OF TELANGANA LIMITED
(APPLICANT)

Through


CHIEF GENERAL MANAGER/RAC/TSSPDCL

CHIEF GENERAL MANAGER
(RAC), TSSPDCL,
Corporate Office, 6-1-50,
Mint Compound, Hyd-500 063

Place: Hyderabad

Dated: 14-12-2022

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

Office at 5th Floor, Singareni Bhavan, Red Hills, Hyderabad - 500 004

FILING NO. _____/2022

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In the matter of:

Filing of the Power Purchase True-up applications for Retail Supply Business for the for FY 2020-21 in accordance with the “Andhra Pradesh Electricity Regulatory Commission (Terms and Conditions for determination of Tariff for Wheeling and Retail Sale of Electricity) Regulation, 2005” and its first amendment Regulation 1 of 2014 thereof (adopted by TSERC) by the Southern Power Distribution Company of Telangana Limited (‘TSSPDCL’ or ‘the Company’ or ‘the Licensee’) as the Distribution and Retail Supply Licensee

In the matter of:

SOUTHERN POWER DISTRIBUTION COMPANY OF TELANGANA LIMITED

... Applicant

**AFFIDAVIT OF APPLICANT VERIFYING THE APPLICATION ACCOMPANYING
FILING AS PER TERMS AND CONDITIONS OF TARIFF FOR WHEELING AND
RETAIL SALE OF ELECTRICITY**

I, Sri. CHILUKAMARI CHAKRAPANI, son of Sri NARSAIAH, aged 54 years, working for gain at the Southern Power Distribution Company of Telangana Limited do solemnly affirm and say as follows:

1 I am the Chief General Manager/RAC of TSSPDCL, the Licensee that has, vide the Hon’ble Commission’s approval in proceedings No. APERC/Secy/Engg/No.6 dt.31.3.2000, been granted the distribution and retail supply functions that Transco was authorised to conduct or carry out under the Act and the license, with respect to the business of distribution and retail supply of electricity in the Southern distribution zone in Telangana. On December 27, 2000,

the Hon'ble Commission has awarded a Distribution and Retail Supply License to TSSPDCL effected from April 1, 2001.

- 2 I am competent and duly authorised by TSSPDCL to affirm, swear, execute and file this affidavit in the present proceedings.
- 3 As such, I submit that I have been duly authorised by the Board of Directors of TSSPDCL to submit the true-up application, as per Terms and Conditions of Tariff for Wheeling and Retail Sale of Electricity (Regulation 4 of 2005) of TSSPDCL for the FY 2020-21 to Hon'ble Commission.
- 4 I submit that I have read and understood the contents of the appended application of TSSPDCL. The facts stated in the application are true to the best of my knowledge, which are derived from the official records made available and certain facts stated are based on information and advice which, I believe to be true and correct.
- 5 I submit that for the reasons, and facts stated in the appended application this Applicant pray that the Hon'ble Commission may be pleased to
 - To admit the Power Purchase True Up Petition filed by the Licensee, in accordance with Clause 12.5 of APERC Regulation 1 of 2014 for the FY 2020-21
 - To approve the Power Purchase True Up cost as submitted in the Petition in order to recover financial losses of the licensee.
 - To allow the impact of Power Purchase True up to be passed on, in the subsequent Tariff Orders to be issued by Hon'ble Commission
 - Grant suitable opportunity to TSSPDCL within a reasonable time frame to file additional material information that may be subsequently available;
 - Consider and approve TSSPDCL's power purchase True-up application including all requested regulatory treatments in the filing;
 - Pass such order as the Hon'ble Commission may deem fit and proper in the facts and circumstances of the case.


DEPONENT

CHIEF GENERAL MANAGER
(RAC), TSSPDCL,
Corporate Office, 6-1-50,
Mint Compound, Hyderabad

VERIFICATION:

I, the above named Deponent solemnly affirm at Hyderabad on this 14th Day of December, 2022 that the contents of the above affidavit are true to my knowledge, no part of it is false and nothing material has been concealed there from.

V. Anil Kumar
Solemnly affirmed and signed before me.

V. ANIL KUMAR
COMPANY SECRETARY
TSSPDCL, Corporate Office & Registered Office
6-1-50, Mint Compound,
HYDERABAD-500 063. T.S.



DEPONENT
CHIEF GENERAL MANAGER
(RAC), TSSPDCL,
Corporate Office, 6-1-50,
Mint Compound, Hyd-500 063

Table of Contents

1	Power Purchase True-ups	2
1.1	Introduction.....	2
1.2	Power Purchase True up for the FY 2020-21 at the State level	5
1.3	Amendment of Regulation 4 of 2005.....	13
2	Treatment of True-up	16
2.1	The Context.....	16
2.2	Power Purchase True Up/True down.....	16
3	Prayer	18

1 Power Purchase True-ups

1.1 Introduction

Regulatory Provisions:

Clause 12.5 of APERC Regulation 1 of 2014 stipulates as follows:

"12.5 True-up for 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 Discoms 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."

As per the Regulation, the Licensee is now filing the Power Purchase True up for the FY2020-21.

The Licensees have submitted an application to the Commission for making amendments to the Principal Regulation No. 4 of 2005 on 11.08.2017 wherein the licensee has requested the Hon'ble Commission to amend the regulation on True-up by allowing the actual agricultural sales in arriving Power Purchase cost True-ups so as to allow the DISCOMs to pass on the excess Power purchase cost in the ARR of Retail Supply Business. The matter was still under consideration by the Hon'ble Commission at that juncture.

Eventually, the licensee has submitted the petition for ARR for Retail Supply Business for FY2019-20, FY2020-21 and FY2021-22 before the Hon'ble Commission dated 31.03.2021 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 the licensee viz., enforcement of Model Code of Conduct in view of elections to the Parliament, State Legislature, local bodies; defunct of the Hon'ble commission for a certain period and further imposition of lockdown in the country in view of outbreak of pandemic COVID-19.

It is pertinent to mention that, the licensee has once again filed the petition for Amendment of Regulation No. 4 of 2005 on 30.09.2019 requesting the Hon'ble 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 of the licensees to cope up with the present day situations.

Eventually, the Hon'ble Commission dismissed the petition vide order in O.P.(S.R.) No.33 of 2019 dated 02.06.2021 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 the TSDISCOMs would be treated as suggestion/input as and when the Commission initiates the process of adding to or amending or varying regulation.

The licensee could not file the power purchase true-ups in the ARR filings for FY22-23 to avoid undue burden on the consumers in view of proposed tariff hike. Hence, the licensee

proposed to file the power purchase true-ups separately to pass-on the burden in the ensuing tariff order.

However, the licensee would like to mention that, the Hon'ble Commission has approved Agriculture Sales in the Retail Supply Tariff (RST) Order for FY18-19 considering 10hrs of supply (*Ref: Pg 59 of RST for the FY 2018-19*). In this regard, it is to submit that, the Discoms has been supplying 24hrs supply to agriculture w.e.f. 01.01.2018 as per the policy of Govt. of Telangana that had significantly increased the Agriculture sales deviating from the approved values (at state level) as presented below:

FY	Approved Agriculture Sales (MU)	Actual Agriculture Sales (MU)	% Variation
2018-19	14262	20838	46%
2019-20*	14262	17959	26%
2020-21*	14262	19649	38%

*considering the approved values to be same as that of FY2018-19

Further, it is pertinent to mention that, the licensee has been estimating the Agriculture sales based on the ISI methodology that has been approved by the Hon'ble Commission.

Hence, any disallowance of the actual consumption as specified above in view of major policy decision in the state would significantly impact the financials of the Discoms that would eventually affect the sustenance of the Discoms.

Further, the licensee had received loss funding for the FY 2020-21 from Government of Telangana in June 2022.

Due to the aforementioned reasons, the licensee could not file the power purchase true-ups in the stipulated timeline. Hence, the licensee humbly requests the Hon'ble Commission to condone the delay in filing the present petition. The licensee is also herewith submitting the petition for condonation of delay along with the present petition.

The Licensee, TSSPDCL, hereby submits the Power Purchase true up for FY2020-21 calculated separately first after considering the Actual Agriculture sales and then Agricultural sales as approved by the commission along with this filing. A summary of Net

Power purchase True up submitted by TSSPDCL, in this Petition is provided in the table below:

Year	Net Power purchase True-up as submitted by TSSPDCL (in Rs. Crs)	
	Considering actual agriculture sales	Considering agriculture sales as approved by the Hon'ble Commission
FY 2020-21	5,081	3,231

The Licensees in the state of Telangana purchase power from TSGENCO generating thermal and hydro stations, Central generating stations and other sources such as, Solar and other RE sources, IPPs, viz. Singareni, Thermal Power Tech and CSPGCL, and short-term sources to meet the energy requirement of the State.

1.2 Power Purchase True up for the FY 2020-21 at the State level

- As mentioned earlier, the licensees could not file the Power Purchase True-ups for FY2020-21 awaiting the Hon'ble Commission's decision on the petition submitted by the Discoms on Amendment to Reg. No. 4 of 2005.
- Subsequently, the Hon'ble Commission vide its letter dated 17.06.2021 directed the Discoms to submit the power purchase true-ups for relevant years viz., FY2018-19 to FY2020-21 along with the FPT filing for consideration by the commission in continuation to the ARR filings for FY2019-20 to FY2020-21 submitted by the licensees dated 31.03.2021.
- It is pertinent to mention, that Hon'ble Commission passed orders dated 06.11.2019, 20.03.2020 and 27.03.2021 in I.A.Nos. 3 of 2019, 8 of 2020 and 4 of 2021 in O.P. No. 21 & 22 of 2017 filed by the Discoms, continuing the existing Retail Supply Tariffs, Cross Subsidy Surcharge & Additional Surcharge for FY2019-20, FY2020-21 & FY2021-22 respectively.
- Hence, in view of the above, the licensees have considered the approved power purchase cost for FY2018-19 in arriving at the True-up for FY2020-21. Further, the licensees have considered the approved transmission cost & SLDC cost as per the MYT Transmission Tariff Order & SLDC Order for 4th control period (FY2019-20 to FY2023-24) respectively for the relevant years in arriving the true-up.

- Further, the Licensees had started supplying 24hrs power to all agricultural consumers w.e.f. date January 1, 2018. This has resulted in 38% increase in agricultural sales (FY2020-21) over the approved values for the FY 2018-19.
- In light of the actual sales number being available for the FY 2020-21, the Licensees present before the commission, the impact of provision of 24*7 supply to all agricultural consumers. Following table shows the increase in sales over approved figures for the year 2018-19.

Category wise Approved v/s Actual sales						
Consumer Category	TSSPDCL		TSNPDCL		Total	
	Approved	Actuals	Approved	Actuals	Approved	Actuals
LT Category	20,779.61	24,286.22	10,443.58	12,927.82	31,223.19	37,214.04
Category V(Irrigation & Agriculture)	8,272.34	11,744.84	5,989.69	7,904.02	14,262.02	19,648.86
HT Category at 11 kV	5,111.63	5,013.61	1,590.86	2,014.51	6,702.48	7,028.12
HT Category at 33 kV	4,074.23	4,537.05	388.97	610.79	4,463.20	5,147.84
HT Category at 132 kV	4,135.12	4,437.80	3,196.80	3,220.81	7,331.93	7,658.61
Total	34,100.59	38,274.67	15,620.20	18,773.94	49,720.79	57,048.61

- The Petitioners submit that based on annual audited accounts and approved distribution losses, power purchase cost (including transmission charges) arrives at Rs.23,361 Cr for TSSPDCL and Rs.10,967 Cr. for TSNPDCL, aggregating to Rs. 34,328 Cr for the Telangana for FY 2020-21 as shown in the table below.

PP cost Variation Analysis TSDISCOMS FY 21											
Category	Energy Dispatched		Fixed cost		Variable cost		Other Cost		Total INR Cr. Impact		
	Appr.	Act.	Appr.	Act.	Appr.	Act.	Appr.	Act.	Appr.	Act.	Diff.
Genco Thermal	18676	19598	2998	3726	4418	4927	0	-	7416	8653	1237
Genco Hydel	2986	3424	1063	1081	0	0	0	-	1063	1081	18
CGS	15873	11747	1251	1646	3820	3428	0	365	5072	5438	367
APGPCL and IPPS Gas	58	0	4	0	12	0	0	-	16	0	-16
NCE	5200	6558	38	-	2865	3795	0	78	2903	3873	971
Others	21727	16235	4866	3794	3501	3476	0	132	8367	7402	-965
Market	1159	8689	0	420	448	2925	0	100	448	3445	2997
Interstate Sale/UI/Sale/Purchase in	-8047	-1072	0	-	-2494	-337	0	-	-2494	-337	2158

PP cost Variation Analysis TSDISCOMS FY 21											
Category	Energy Dispatched		Fixed cost		Variable cost		Other Cost		Total INR Cr. Impact		
	Appr.	Act.	Appr.	Act.	Appr.	Act.	Appr.	Act.	Appr.	Act.	Diff.
33kV & below											
D-D		0	0	-		0	0	-		0	0
Interest on pension bonds	0	-	684	1173	0	-	0	-	684	1173	488
Transmission charges	0	-	0	-	0	-			3289	3878	589
Miscellaneous	0		0		0		0	-279	0	-279	-279
Total	57631	65180	10904	11840	12570	18214	0	396	26763	34328	7564

*other costs pertain to LPSC, NCE provisions for FY19-20 & FY20-21, provisions for singareni& STOA charges.

1.2.1 Reasons for deviation in Power Purchase Quantum and Cost for the State:

The actual energy dispatched by the State is 13% higher for FY20-21 and is following a similar trend of the previous years viz., FY18-19 & FY19-20 that is majorly due to 24 * 7 power supply to agricultural consumers in the state. Hence, the relevant cost commitments by the licensees have also significantly increased. The detailed explanation for the same is presented below:

i) Deviations in Energy Dispatch:

- **Hydel Power:** The State of Telangana has witnessed significantly higher rainfall levels, across the state during the FY 2020-21. As the recorded rainfall is high, a quantum amounting to 3424 MUs was generated from hydel power stations during the year.
 - The actual hydel generation, thus achieved in the FY 2020-21, is 14% higher than the energy dispatch as approved by the Hon'ble Commission, which stands at 2,986 MUs
- **Central Generating Stations (CGS):** There was lower dispatch from NTPC stations as compared to approved dispatch. This led to the decrease in energy received from CGS stations by 4126 MUs (26% decrease) from the approved energy dispatch by the Hon'ble Commission.

- **Others:** CSPGCL is declaring a lower plant availability, as compared to normative PAF, leading to a significant variation in actual PP quantum over the approved figures.

To make up for the shortfall in generation and provide for the additional demand arising due to supply of 24*7 power to all consumers and demand arising from LIS loads, the Licensee, had managed to procure the shortfall in energy dispatch, from various other sources as detailed below.

- **State GENCO - (Thermal):**
 - To make up for the shortfall in generation and provide for the additional demand arising due to supply of 24*7 power to all consumers including agricultural consumers, the Licensees have procured additional energy from Thermal stations of TSGENCO.
 - An additional 923 MUs have been procured from TSGENCO Thermal stations during the FY 2020-21, which is 4.9% higher than the approved dispatch by the Hon'ble Commission.
- **Non-Conventional Energy Sources (NCES):**
 - The Licensee is committed to procure clean and sustainable energy sources to meet the Renewable energy obligation requirement.
 - In accordance with the same, incremental energy was procured from NCE sources to meet the demand of the state. The Licensees have procured an additional 1,358 MUs from the NCES sources in FY 2020-21, amounting to a total of 6,558 MUs as against 5,200 MUs approved by the Hon'ble Commission.
- **Short term power sources:**
 - It is Pertinent to mention that the state of Telangana has started supplying 24 * 7 power to agricultural sector from January 1, 2018. This has increased the power purchase requirement for the whole FY 2020-21.

- The Licensees, after exhausting all their sources, have resorted to procure power from short term market for the FY 2020-21.
 - The Licensees submit that the power was procured to meet the sudden increase in power demand in the state for the FY 2020-21.
 - To meet the power demand, the Licensees had purchased a total of 8,689 MUs from the Short-term market for the State of Telangana for the FY 2020-21. An additional 7,531 MUs have been purchased in addition to Commission's approval which stands at 1,159 MUs.
 - The Licensees submit that they have made enormous effort to procure power from long term sources. However, due to paucity of time, it was not possible to find a long-term Power purchase source in FY 2020-21.
 - The Licensee has made continual effort in this regard and has executed few power purchase agreements with long term sources (CGS & NCES sources) during the FY 2020-21 to meet the rising demands in the state. These Plants are expected to commission by FY 22/23
 - In this context, the Licensees humbly requests the Hon'ble Commission to allow the Short-term power purchase quantum for the FY 2020-21.
- ii) **Deviations in Power Purchase Cost:** The deviations in power purchase cost is further classified into two categories (fixed cost and variable cost) and is discussed below in detail:
- **Variations in Fixed Cost (FC):** There was an overall increase in the fixed costs from the approved Rs. 10,220 Cr. to an actual Rs. 10,667 Cr. (4.4% increase from approved value) incurred by the Licensees during the FY 2020-21. This is mostly attributable to increase in overall fixed costs of TSGENCO (Thermal) and CGS.
 - Further, the commissioning of TS Genco Station BTPS and the decommissioning of KTPS had led to an increase in fixed cost commitments of the licensee to a tune of Rs.728 Cr.
 - **Variations in Variable cost (VC):** Variable Costs has increased to the tune of Rs. 5,644 Cr, from the approved costs. The reason for such increase can be

mostly attributed to the increase in per unit VC of TSGENCO Thermal power stations, NCEs, other IPPs and procurement from Short term market to meet the 24 * 7 power supply initiative to the agricultural consumers in the state. The details have been further explained below:

- For Thermal Stations (TSGENCO Thermal power stations, CGS, Singareni, Thermal Power Tech) at the time of issuance of order, the cost assumptions considered by the Hon'ble Commission were provisional, but due to increase in cost of Coal, Freight, Royalty and levy of Green CESS, the variable cost of thermal stations has increased significantly. While TSGENCO recovers the deviation in actual variable cost on a quarterly basis from the licensees, the same is not passed on to the consumers by the DISCOMS.
- **TSGENCO Thermal Stations:** The variable costs of the TSGENCO stations increased by 6% from the approved Rs 2.37/kWh to Rs. 2.51/kWh. With the increase in power procurement from these stations, the overall Variable cost has increased to an extent of Rs. 509 Cr for the FY 2020-21.
- **CGS Stations:** The Variable cost has increased significantly by 21% from the approved costs by the Hon'ble Commission (from Rs. 2.41/kWh to Rs. 2.92/kWh).
- **IPP (Thermal Power Tech):** For IPP – Thermal Power tech increase in purchase cost was caused due to the increase in domestic coal prices, freight charges and forex rate variations on the imported coal component. The Variable cost has increased significantly by 33% from the approved costs by the Hon'ble Commission (from Rs. 1.61/kWh to Rs. 2.14/kWh).
- **PGCIL** announces quarterly transmission charges. At the time of issuance of order, total cost considered for PGCIL charges was Rs 922.72 Cr. which was revised to INR 1,511 Cr based on actual applicable charges and energy drawn, amounting to an upwards revision of INR 589 Cr. in the cost .
- The **dispatch from NCEs**, being the must-run stations at a higher per unit cost of Rs.5.79/kWh from an approved cost of Rs.5.51/kWh also led to an increase in cost commitments of the licensees to the tune of Rs. 930 Cr.

- The **dispatch from Solar Power Generators**, being the must-run stations at a higher per unit cost of Rs.5.87/kWh from an approved cost of Rs.5.38/kWh also led to an increase in cost commitments of the licensees.
- The **Late Payment Surcharge** mechanism for the Central Generating Stations by the Ministry of Power also added the financial burden on the licensees to a tune of Rs.365 Cr.
- **Short-Term Power:** As explained in the earlier sections, the Licensees had sourced additional power requirement for the state by procuring power from short term sources. This has increased the power purchase costs of the Licensees by Rs. 2997 Cr.
- The actual quantum and revenue of sale of surplus power in FY 2020-21 was significantly lower than the approved figures leading to increase in true up cost claims.

1.2.2 Power Purchase True-up for TSSPDCL for the FY 2020-21

- The Licensee TSSPDCL for the FY 2020-21 had incurred few miscellaneous expenses and certain received miscellaneous revenue as explained below:
 - Certain Receivables from TSTRANSCO towards LIS funds of Rs. 371.55 Cr. were paid to the licensees in miscellaneous charges, that was passed on to the consumers of which revenue of Rs. 262.13 Cr pertains to TSSPDCL. Following table shows the breakup of miscellaneous charges for TSSPDCL.

Miscellaneous charges for TSSPDCL	
Item/Particular	Amount (Rs. Crore)
Banked Energy in one time vendor	25.38
UI/SRPC deviation charges	24.24
Thermal incentive 20-21	11.80
Reactive	9.65
LPSC Cost	1.95
Advance Income Tax 2020-21(Net)	1.07
Wheeling TRANSCO/Asset Maintenance	0.16
Wheeling KPTCL/Reactive KPTCL/AP	0.01
Received from Saraswati Power	(0.03)
GBI Receivables	(7.55)
Receivable from TRANSCO towards LIS Funds	(262.13)
Total	(189.83)

- Basis the above power purchase cost incurred at the State level for the FY 2020-21, TSSPDCL is allocated its share of the Power Purchase cost in the approved ratio of 70.55 % and further additions for any additional energy required to meet demand.
- The Power purchase true-up cost of the Licensee TSSPDCL for the FY 2020-21 is tabulated below:

PP cost variation TSSPDCL FY 21					
Category	Energy Dispatched		Total INR Cr. Impact		
	Approved	Actual	Approved	Actual	Difference
Genco Thermal	13176	13827	5232	6105	873
Genco Hydel	2106	2416	750	763	13
CGS	11198	8228	3578	3837	259
APGPCL and IPPS Gas	41	0	11	0	(11)
NCE	3634	4517	2022	2692	671
IPPS Others	15328	11454	5903	5231	(672)
Market	59	6130	23	2430	2408
Interstate Sale/UI/Sale/Purchase in 33kV & below	(4023)	(758)	(1247)	(218)	1029
D-D purchase	(1972)	(2174)	(789)	(846)	(57)
Interest on pension bonds			483	827	345
Transmission charges			2315	2730	415
Miscellaneous			0	(190)	(190)
Total	39547	43698	18280	23361	5081

- The details of station wise deviations of power purchase cost for the FY 2020-21 is enclosed as **Annexure-E**

The previous sections detail about the impact of 24*7 supply of power to agriculture on the power purchase cost. It is pertinent to mention that, the licensees had prayed before the Hon'ble Commission at various junctures to include the same in the relevant regulations or review the approved sales viz., Review petition filed by the licensees on Tariff Order for FY17-18 and Petition filed for Amendment to Regulation 4 of 2005.

However, the same has been declined by the Hon'ble Commission stating that submissions of the TSDISCOMs would be treated as suggestion/input as and when the Commission initiates the process of adding to or amending or varying regulation.

Hence, in view of the above, the licensee is adhering to the Regulation 1 of 2014 adopted by the Hon'ble TSERC in claiming the true-ups for relevant period strictly limiting the agricultural sales as per the Regulation. The below table briefs about the Power Purchase true up for TSSPDCL calculated in line with the regulatory provisions of Clause 12.5 of APERC Regulation 1 of 2014.

FY	Power Purchase True up as per Regulation(Rs. Crs)
2020-21*	3,231

*considering ARR for FY 2020-21 to be same as that approved for FY18-19

The detailed station wise deviations of power purchase cost for the FY 2020-21- as per the Regulation is enclosed as **Annexure-G**

Loss takeover by GoTS:

The GoTS vide G.O. Ms. No. 15 dated 18.06.2022 has sanctioned and later released Rs. 2124.12 Crore towards takeover of 50% of losses for FY 2020-21.

In view of the above, TS Discoms requests the Hon'ble Commission to consider the Net Power Purchase True up after deducting the loss funding provided by the Government of Telangana from the total Power Purchase True up as per the regulation.

1.3 Amendment of Regulation 4 of 2005

The Licensee humbly submits that the present-day power sector depicts different set of conditions from the earlier days owing to the latest developments relating to the significant inclusion of clean energy sources, enlarging the energy market, supplying 24*7 power to all the consumers etc. All these developments have a significant impact on the cost implications of the distribution licensees.

However, Regulation No. 4 of 2005 viz., Terms and Conditions for Determination of Tariff for wheeling and Retail Sale of Electricity that was notified by the Hon'ble Commission suiting the earlier situations does not adapt to the present-day scenario (like incorporating certain provisions relating to banked energy, purchase from solar roof top, considering the actual sales, automatic fuel surcharge adjustment etc) impacting the financials of the licensees.

Further, the licensee submits that, the National Tariff Policy (NTP),2016 mentions that the solvency of distribution sector is key to the success of power sector reforms and

hence mandates the Regulatory Commissions to strike the right balance between the requirements of the commercial viability of Distribution Licensees and the Consumer interest and the same is presented below:

*"8.0..... Making the **distribution segment of the industry efficient and solvent is the key to success of power sector reforms** and provision of services of specified standards. Therefore, **the Regulatory Commissions need to strike the right balance between the requirements of the commercial viability of distribution licensees and consumer interest.....**"*

Hence, timely revaluation of the Regulations or acts is highly essential in the interests of the stakeholders for the sustainability of the sector.

It is also pertinent to mention that many other state ERCs viz., Gujarat, Delhi, Maharashtra and Uttar Pradesh had issued latest tariff regulations for generation, distribution and retail supply business in line with the tariff policy and latest developments by making suitable amendments.

Recently, the Central Government in exercise of the powers conferred in Section 176 of the Electricity Act, notified "Electricity (Timely Recovery of Costs due to change in Law) Rules,2021" on 22.10.2021. In this connection a letter was received from the Joint Secretary to the Government of India on 09.11.2021 for taking necessary action.

The Central Government after detailed consultation with all the stakeholders made the above Rules for an automatic pass through of impact in cost due to change in law automatically by a formula. These rules shall apply to a generating company and transmission licensee to recover costs due to change in Law from the Distribution companies on monthly basis.

However, it is to submit that there is no such automatic pass-through mechanism of power purchase true-up applicable to the DISCOMs in the erstwhile APERC Regulation No. 4 of 2005 read with its 1st amendment in Regulation No.1 of 2014 as adopted by Hon'ble TSERC vide its Regulation No.1 of 2014. The implementation of the above said Rules by the Generating Company or transmission licensee on monthly basis without provision for the Distribution licensee to recover the same on monthly basis

from the consumers shall have adverse impact on the financials of the DISCOM leading to huge working capital costs and also affect the entire value chain of the power sector

Hence, in a similar way, **the licensees humbly request the Hon'ble Commission to amend the Regulation No. 4 of 2005 adapting the present-day situations and in accordance to the Central Government Rules on "Electricity (Timely Recovery of Costs due to change in Law) Rules,2021" thereby safeguarding the interests of the distribution licensees.**

2 Treatment of True-up

2.1 The Context

- Cost true ups are warranted as tariff filings and tariff orders are issued based on futuristic projections of various revenue and cost elements. The variations in projections and actuals should ideally be due to unforeseen changes such as new regulations (increase in Taxes /Coal CESS), natural disasters leading to higher capital investments / operating expenses and other force majeure conditions.
- Efforts should be made by all the stakeholders involved to reduce such true ups of costs in business-as-usual scenarios. Higher true up costs will have an adverse effect on both the performance of utility (as the gap has to be funded through short term sources) and customers (tariff increases to recover such gaps with carrying costs).
- This leads to reduced financial capacity of the utility to raise long term finances at competitive rates. Current true ups and the carrying costs have to be borne by customers for future energy procurement.

2.2 Power Purchase True Up/True down

- The Licensee has already elaborated the basis on which it claims the Power purchase true ups in the relevant selections of this Petition. It wants to place further emphasis on the concern of lower sales approvals leading to significant variation in approved vs actual power procurement cost, as listed below:

FY	Power Purchase True up considering actual agri. Sales (Rs. Crs)	Approved ARR (in Rs. Crs)	True up as a % of ARR
2016-17	1,588	19,144	8%
2017-18	2,991	18,863	16%
2018-19	6,431	20,162	32%
2019-20*	5,453	20,162	27%
2020-21*	5,081	20,162	25%

*considering ARR for FY2019-20 and FY 2020-21 to be same as that approved for FY18-19

- The major reason for variation in agriculture sales is the non-recognition of 24 hours supply by the Commission. True up due to agriculture sales is not considered fully as per

the prevailing regulations. The relevant regulation is reproduced below for ready reference of the Hon'ble Commission:

"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:

Actual power purchase quantity procured by the DISCOSMs for its consumers.

Power purchase quantity computed based on actual sales except LT agricultural sales. LT agricultural sales will be limited to Tariff Order quantity. The aggregated sales will be grossed up with approved losses for the relevant year in the MYT orders"

- The variation in power purchase cost for the FY 2018-19 is around 32% of the total approved ARR. This clearly indicates that that the Licensee had been undertaking the business with a deficit of around 32%, which adds to financial strain leading to short term borrowings.
- In this petition the licensee has several times stressed upon considering the actual agricultural sales for calculating the true up. Licensee presented Power Purchase true up calculation after considering the actual agricultural sales. However, for the reasons mentioned in the earlier chapter, the licensee have also calculated the Power purchase true up by limiting the agriculture sales (10 Hrs. agriculture supply) as per the Regulation. The below table briefs about the Power Purchase true up for TSSPDCL calculated in line with the regulatory provisions of Clause 12.5 of APERC Regulation 1 of 2014 and also considering the additional support from Government of Telangana.

FY	Power Purchase True up as per Regulation (Rs. Crs)
2020-21*	3,230.80
Loss Funding	2124.00
Net True-up claim	1106.80

*considering ARR for FY 2020-21 to be same as that approved for FY18-19

3 Prayer

The Licensee requests the Hon'ble Regulatory Commission:

- To admit the Power Purchase True Up Petition filed by the Licensee, in accordance with Clause 12.5 of APERC Regulation 1 of 2014
- To approve the Power Purchase True Up cost as follows for the FY 2020-21

FY	Power Purchase True up as per Regulation (Rs. Crs)
2020-21*	3230.80
Loss Funding	2124.00
Net True-up claim	1106.80

- To approve the deviation from the approved values for Power Purchase quantum and cost for as approved in the earlier Tariff Orders and to allow pass through of the same
- To allow the impact of Power Purchase True up to be passed on, in the subsequent Tariff Order to be issued by Hon'ble Commission
- To pass any other order as the Hon'ble Commission may deem fit and appropriate under the circumstances of the case and in the interest of justice.
- To condone any errors/omissions and to give opportunity to rectify the same
- To permit the Licensees to make further submissions, addition and alteration to this True-up as may be necessary from time to time.
- To Amend the Regulation 4 of 2005 adapting the present-day situations and in accordance to the Central Government Rules on "Electricity (Timely Recovery of Costs due to change in Law) Rules, 2021".

39
Race
Cost FY 2018-19

ANNEXURE - E

Sl. No.	Generating Station	Annual PP Cost FY 2020-21										FY 2020-21 Approved (FY18-19)				FY 2020-21 Variance							
		Energy		Annual PP Cost (Rs. Cr.)				Annual PP Cost (Rs./kWh)				Annual PP Cost (Rs. Cr.)				PP Cost Variance							
		Approved	Actual	Fixed	Variable	Others	Total	Fixed	Variable	Others	Total	Fixed	Variable	Inc. Tax	Others	Total	Fixed	Variable	Inc. Tax	Others	Total		
GENCO																							
Thermal																							
8	KTPS A	790.27994	0	0	0	0	0	0	0	0	0	127.83425	171.76809	0	0	0	299.6023	-128	-172	0	0	0	-300
9	KTPS B	790.27994	0	0	0	0	0	0	0	0	0	127.83425	171.76809	0	0	0	299.6023	-128	-172	0	0	0	-300
10	KTPS C	790.27994	0	0	0	0	0	0	0	0	0	127.83425	171.76809	0	0	0	299.6023	-128	-172	0	0	0	-300
11	KTPS D	1970.4403	1724.1085	193.88495	458.06741	0	652	1.1245519	2.6568364	0	3.7813882	201.96349	398.96731	0	0	0	600.9308	-8	59	0	0	0	51
12	KTPS Stage VI	1752.0458	2389.1734	362.65522	638.36283	0	1001	1.5179108	2.6718982	0	4.1898091	362.65522	450.71573	0	0	0	813.371	0	188	0	0	0	188
13	RTS B	272.63342	176.7246	35.900351	54.382381	0	90	2.0314292	3.0772388	0	5.108668	38.442695	67.55868	0	0	0	106.0014	-3	-13	0	0	0	-16
14	NTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	Kakatiya Thermal Power Plant Stage I	1837.8839	1659.7866	374.40885	430.55941	0	805	2.255765	2.5940649	0	4.84983	374.40885	468.6604	0	0	0	843.0693	0	-38	0	0	0	-38
16	Kakatiya Thermal Power Plant Stage II	2986.4168	2591.5207	534.55735	658.86343	0	1193	2.0627169	2.5423815	0	4.6050983	534.55735	704.79436	0	0	0	1239.352	0	-46	0	0	0	-46
17	BTPS (Manuguru New Project)	0	1169.8689	393.57442	294.74555	0	688	3.3642608	2.519475	0	5.8837358	0	0	0	0	0	394	295	0	0	0	0	688
18	KTPS VII	1985.4887	4115.3976	733.95987	940.75404	0	1675	1.7834483	2.2859372	0	4.0693854	219.48811	510.76789	0	0	0	730.256	514	430	0	0	0	944
TOTAL THERMAL		13175.749	13827	2629	3476	0	6105					2115	3117	0	0	0	5232	514	359	0	0	0	873
Hydel																							
19	MACHKUND PH Telangana Share	209.89331	0	0	0	0	0	0	0	0	0	7.668785	0	0	0	0	7.668785	0	0	0	0	0	-8
20	TUNGBHADRA PH Telangana Share	60.524845	0	0	0	0	0	0	0	0	0	5.255975	0	0	0	0	5.255975	0	0	0	0	0	-5
21	USL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	LSR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	DONKARAYI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	SSLM	0	860.75157	243.61327	0	0	244	2.8302391	0	0	2.8302391	0	0	0	0	244	0	244	0	0	0	0	244
25	NSPH	567.15851	937.80769	187.60768	0	0	188	2.000492	0	0	2.000492	99.524885	0	0	0	99.524885	88	0	0	0	0	0	88
26	NSRCPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	NSLCPH	35.28911	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	POCHAMPAD PH	43.07783	43.641195	16.42902	0	0	16	3.7645669	0	0	3.7645669	12.842379	0	0	0	12.84238	4	0	0	0	0	0	4
29	NIZAMSAGAR PH	16.55103	6.1145685	0	0	0	0	0	0	0	0	4.9341992	0	0	0	4.934199	-5	0	0	0	0	0	-5
30	PABM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	MINI-HYDRO&OTHERS (Chettipeta)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	SINGUR	18.44177	18.18381	6.845425	0	0	7	3.7645669	0	0	3.7645669	5.4978673	0	0	0	5.497867	1	0	0	0	0	0	1
33	SSLM LCPH	957.39172	0	0	0	0	0	0	0	0	0	310.46233	0	0	0	310.4623	-310	0	0	0	0	0	-310
34	Nagarjunasagar Tail Pond Dam Power House	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	Priyadarshini Jurala Hydro Electric Project- Telangana Share	97.26023	125.9992	40.294185	0	0	40	3.1979714	0	0	3.1979714	41.38463	0	0	0	41.38463	-1	0	0	0	0	0	-1
36	Lower Jurala Hydro Electric Project	79.559235	275.79317	200.68653	0	0	201	7.2767042	0	0	7.2767042	200.68653	0	0	0	200.6865	0	0	0	0	0	0	0
37	POCHAMPAD Stage-II	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38	PULICHINTAL(New Project)	6.850405	139.31328	56.997345	0	0	57	4.0913073	0	0	4.0913073	56.997345	0	0	0	56.99735	0	0	0	0	0	0	0
39	Mini Hydel & Others (Peddapalli, Palair)	14.385145	0.7864209	4.804455	0	0	5	61.092671	0	0	61.092671	4.804455	0	0	0	4.804455	0	0	0	0	0	0	0
40	Ramagiri Wind Mills (AP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41	Pochampad Stage-IV	0	7.2490125	5.566395	0	0	6	7.6788321	0	0	7.6788321	0	0	0	0	6	0	0	0	0	0	0	6
TOTAL HYDRO		2106.3831	2415.6399	763	0	0	763					750	0	0	0	750	26	0	0	0	0	0	13
TOTAL GENCO		15282.132	16242.22	3392	3476	0	6868					2865	3117	0	0	0	5982	540	359	0	0	0	886
Central Generating Stations																							
NTPC																							
NTPC (SR)																							
42	NTPC (SR)	1726.422	1499.1403	114.12914	363.18066	65.197429	543	0.7612973	2.4225929	0.4348988	3.618789	121.81163	395.35064	0	0	0	517.1623	-8	-32	0	0	65	25
43	NTPC (SR) Stage III	442.54604	353.62082	28.621299	84.109502	0	113	0.8093782	2.3785223	0	3.1879006	32.74931	101.78559	0	0	0	134.5349	-4	-18	0	0	0	-22
Total NTPC(SR)		2168.968	1852.7611	143	447	65	655					155	497	0	0	0	652	-12	-50	0	0	65	4
NTPC (ER)																							
44	Farakka	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45	Kahalgao	0	133.94016	24.346708	30.955754	0	55	1.8177303	2.311163	0	4.1288933	0	0	0	0	24	31	0	0	0	0	0	55
46	Talcher - Stage 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47	Talcher Stage 2	1101.3843	1061.3738	77.931906	206.75541	0	285	0.734255	1.9479979	0	2.6822529	75.749535	149.78826	0	0	0	225.5378	2	57	0	0	0	59
48	CGS: Others	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total NTPC(ER)		1101.3843	1195.314	102	238	0	340					76	150	0	0	0	226	27	88	0	0	0	114
NTPC - Simhadri																							
49	NTPC Simhadri Stage I	2415.7237	1131.5785	284.60655	372.53072	0	657	2.5151286	3.2921332	0	5.8072618	251.68713	553.20073	0	0	0	804.8879	33	-181	0	0	0	-148
50	NTPC Simhadri Stage II	1028.3156	770.72209	171.48797	238.95862	0	410	2.2250298	3.1004511	0	5.325481	170.58285	236.5126	0	0	0	407.0954	1	2	0	0	0	3
Total NTPC - Simhadri		3444.0394	1902.3006	456	611	0	1067					422	790	0	0	0	1212	34	-178	0	0	0	-144
Total NTPC		6714.3917	4950.3757	701	1296	65	2063					653	1437	0	0	0	2089	49	-140	0	0	65	-26
NLC TS-II																							
51	NLC TS II- Stage I	273.43769	208.06296	15.451262	56.723483	59.033768	131	0.7426243	2.7262653	2.8373031	6.3061928	20.269015	74.648489	0	0	0	94.9175	-5	-18	0	0	59	36
52	NLC TS II- Stage II	482.78071	222.08758	19.800049	60.269839	0	80	0.8915424	2.713787	0	3.6053293	37.426775	131.79913	0	0	0	169.2259	-18	-72	0	0	0	-89

Total NLC	756.2184	430.15054	35	117	59	211					58	206	0	0	0	264	-22	-89	0	0	59	-53
NPC																						
53 NPC-MAPS	108.01205	49.080808	0	12.734739	0	13	0	2.5946473	0	2.5946473	0	23.546627	0	0	0	23.54663	0	-11	0	0	0	-11
54 NPC-Kaiga unit II&III	377.28729	742.20538	0	255.86849	9.3674039	265	0	3.4474082	0.1262104	3.5736186	0	117.71363	0	0	0	117.7136	0	138	0	0	9	148
55 NPC-Kaiga unit III&IV	400.19488	0	0	0	0	0	0	0	0	0	0	124.8608	0	0	0	124.8608	0	-125	0	0	0	-125
Total NPC	885.49422	791.28619	0	269	9	278						266	0	0	0	266	0	2	0	0	9	12
CGS - New																						
56 Vallur Thermal Power Plant	0	0	91.988251	0	25.724306	118	0	0	0	0	0	0	0	0	0	0	92	0	0	0	26	118
57 Tuticorin	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58 NPC - Kudankulam	241.87362	207.64727	0	85.985961	0	86	0	4.1409628	0	4.1409628	0	99.168184	0	0	0	99.16818	0	-13	0	0	0	-13
59 NLC Tamilnadu Power Ltd	0	568.76863	119.96635	162.33226	32.417527	315	2.1092293	2.8541001	0.5699598	5.5332892	0	0	0	0	0	120	162	0	0	0	32	315
60 Kudigi	1336.7179	379.86592	212.7988	117.75578	0	331	5.601945	3.0999302	0	8.7018752	172.63585	264.67015	0	0	0	437.306	40	-147	0	0	0	-107
80 NCE - Bundled Power (Coal) (NTPC 200 MW)	252.73832	815.71188	0	305.8945	65.581797	371	0	3.7500312	0.8039824	4.5540136	0	84.414599	0	0	0	84.4146	0	221	0	0	66	287
83 NCE - Bundled power NVVNL (Coal) JNNSM Ph1	1010.9462	143.73606	0	64.132872	0	64	0	4.4618498	0	4.4618498	0	337.65604	0	0	0	337.656	0	-274	0	0	0	-274
TOTAL CGS	11198.38	8288	1161	2418	257	3837					883	2695	0	0	0	3578	278	-277	0	0	257	259
APGCL																						
61 APGCL I - Allocated capacity	9.799395	0	0	0	0	0	0	0	0	0	0.825435	1.4601099	0	0	0	2.285545	-1	-1	0	0	0	-2
62 APGCL I - Unutilised capacity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63 APGCL II - Allocated capacity	31.23954	0	0	0	0	0	0	0	0	0	1.6932	7.3412919	0	0	0	9.034492	-2	-7	0	0	0	-9
64 APGCL II - Unutilised capacity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total APGCL	41.038935	0	0	0	0	0					3	8.80	0	0	0	11	-3	-9	0	0	0	-11
IPPs-Gas																						
TOTAL IPPS			0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0
NCE																						
74 NCE - Bio-Mass	46.55	55	0	36	0.52	36	0	6.544162	0.0945839	6.6387459	7.08	20.53				27.61	-7	15	0	0	1	9
75 NCE - Bagasse	8.28	9	0	4	0	4	0	4.2081583	0	4.2081583	0.96	2.33				3.29	-1	1	0	0	0	0
76 NCE - Municipal Waste to Energy	79.45	59	0	45	1.56	47	0	7.7332277	0.2661888	7.9994165	0	56.49				56.49	0	-11	0	0	2	-10
77 NCE - Industrial Waste based power project	25.22	36	0	22	0.63	23	0	6.1285185	0.1763014	6.3048199	4.14	11.12				15.26	-4	11	0	0	1	7
78 NCE - Wind Power	184.35	192	0	92	2.37	94	0	4.7800606	0.1235189	4.9035795	0	86.65				86.65	0	5	0	0	2	7
79 NCE - Mini Hydel	1.77	3	0	1	0.003	1	0.00	0.0105441	2.8854657	0.49	0	0				0.49	0	1	0	0	0	0
			0	0	0	0	0	0	0	0	0	0				0	0	0	0	0	0	0
81 NCE - Solar Projects (SPDCL)	3288.59	3553	0	2125	-4.71	2120	0	5.9809919	-0.013244	5.9677481	0	1831.74				1831.74	0	293	0	0	-5	289
82 NCE - Bundled Power NVVNL (solar) JNNSM Ph 1	0	36.53	0.00	39.24	0	39	0	10.742757	0	10.742757	0	0				0	0	39	0	0	0	39
99 NCE - Bundled Power (Solar) (NTPC.400 MW)	0	575.01	0.00	276.54	52	329	0	4.8093279	0.9079531	5.7172809	0	0				0	0	277	0	0	52	329
84 NCE - Solar Projects (NPDCL)	0	0	0	0	0	0	0	0	0	0	0	0				0	0	0	0	0	0	0
TOTAL NCE	3634.21	4516.577	0	2640	53	2692					13	2009	0	0	0	2022	-13	631	0	0	53	671
IPPs-Others																						
92 Singareni	5941.3189	4850.0783	1037.8328	1235.4593	8.9264961	2282	2.139827	2.5472976	0.0184048	4.7055295	1068.7761	1054.2851				2123.061	-31	181	0	0	9	159
93 Thermal Power Tech	1415.4588	1325.4749	266.91031	309.24146	77.558256	654	2.0136958	2.3330616	0.5851356	4.931893	247.40474	246.31827				493.723	20	63	0	0	78	160
94 CSPGCL	4977.366	2310.7452	627.16564	277.28943	0	904	2.7141272	1.2	0	3.9141272	1320.4985	597.28392				1917.782	-693	-320	0	0	0	-1013
95 Thermal Power Tech Unit II	2994.2972	2967.7263	744.6648	630.63768	15.378859	1391	2.5092098	2.124986	0.0518203	4.6860167	796.31902	572.20989				1368.529	-52	58	0	0	15	22
96	0						0	0	0	0	0	0				0						
TOTAL OTHERS	15328.441	11454.025	2677	2453	102	5231					3433	2470	0	0	0	5903	-756	-17	0	0	102	-672
MARKET																						
97 Bi-lateral Sales(PTC etc.)	58.73	6130.1871	296.08326	2063.3099	70.893045	2430	0.4829922	3.3658189	0.1156458	3.9644569	0	22.69				22.69	296	2041	0	0	71	2408
98 Ihajjar	0	0	0	0	0	0	0	0	0	0	0	0				0	0	0	0	0	0	0
Miscellaneous	0	0	0	0	-189.83	-190	0	0	0	0	0	0				0	0	0	0	0	-190	-190
100 Interest on Pension Bonds	0	0	827.28218	0	0	827	0	0	0	0	482.77365	0				482.7737	345	0	0	0	0	345
Interstate Sale/Ui/Sale/Purchase in 33kV & below	-4023.3	-757.79	0	-217.8	0	-218	0	2.8741604	0	2.8741604	0	-1247.22				-1247.22	0	1029	0	0	0	1029
D to D sales/Purchase	-1972.49	-2174.46	0	-846.42	0	-846	0	0	0	3.8925665	0	-789				-789	0	-57	0	0	0	-57
Transmission Cost (Rs. Cr.)			0	0	1629.0683	1629	0	0	0	0						1629.068	1629.068	0	0	0	0	0
SLDC Cost (Rs. Cr.)			0	0	34.595384	35	0	0	0	0						34.59538	34.59538	0	0	0	0	0
PGCIL & ULDC OR POSOCO charges (Rs. Cr.)			0	0	1066.3043	1066	0	0	0	0						650.98	650.98	0	0	0	0	415
			0	0	0	0	0	0	0	0						0	0	0	0	0	0	0
TOTAL MARKET	-5937	3198	1123	999	2611	4733	3.5127896	3.1241573	8.1647677	14.801715	483	-2014	0	0	2315	784	641	3013	0	0	296	3950
TOTAL	39547.142	43698.294	8352.8526	11985.469	3022.8017	23361.124	1.9114825	2.7427774	0.6917436	5.3460036	7678.9505	8286.1127	0	0	2314.644	18279.71	686.8269	3699.357	0	0	708.158	5081.417

1		2		Annexure G(III)									17				21			
		Annual PP Cost FY 2020-21									FY 2020-21 Approved (FY18-19)				FY 2020-21 Variance					
Index No.	Generating Station	Expenditure			Annual PP Cost (₹ Cr.)			Annual PP Cost (₹ Cr./KW)			Annual PP Cost (₹ Cr.)				PP Cost Variance					
		Approved	Actual	Spent	Approved	Actual	Total	Fixed	Variable	Total	Fixed	Variable	Others	Total	Fixed	Variable	Others	Total		
GENCO																				
Thermal																				
8	KTPS A	790.279935	0	0	0	0	0	0	0	0	127.8342	171.76809	0	299.6023	-128	-172	0	0	-300	
9	KTPS B	790.279935	0	0	0	0	0	0	0	0	127.8342	171.76809	0	299.6023	-128	-172	0	0	-300	
10	KTPS C	790.279935	0	0	0	0	0	0	0	0	127.8342	171.76809	0	299.6023	-128	-172	0	0	-300	
11	KTPS D	1970.440335	1724.108484	193.8849456	458.0674101	0	652	1.124551891	2.856836355	3.781388246	201.9635	398.96731	0	600.9308	-8	59	0	0	51	
12	KTPS Stage VI	1752.045755	2389.173422	362.65522	638.3628272	0	1001	1.517910825	2.671888245	4.18980907	362.6552	450.71573	0	813.371	0	188	0	0	188	
13	RTS B	272.63342	176.7246035	35.90035146	54.3823807	0	90	2.03142917	3.077238802	5.108667972	38.4427	67.55868	0	106.0014	-3	-13	0	0	-16	
14	NTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	Kakatiya Thermal Power Plant Stage I	1837.88394	1659.786555	374.40885	430.5594063	0	805	2.255765049	2.594064912	4.849829961	374.4089	468.6604	0	843.0693	0	-38	0	0	-38	
16	Kakatiya Thermal Power Plant Stage II	2986.416775	2591.520741	534.55735	658.8634341	0	1193	2.06271685	2.542381481	4.605098332	534.5574	704.79436	0	1239.352	0	-46	0	0	-46	
17	BTPS (Manuguru New Project)	0	1169.868919	391.5744201	294.7455478	0	688	3.364260848	2.519474884	5.883735833	0	295	0	394	0	295	0	0	688	
18	KTPS VII	1985.48865	4115.397623	733.95887	940.7540443	0	1675	1.783448253	2.285937182	4.069385434	219.4881	510.76789	0	730.256	514	430	0	0	944	
	TOTAL THERMAL	13175.74868	13827	2629	3476	0	6105				2115	3117	0	5232	514	359	0	0	873	
Hydel																				
19	MACHKUND PH Telangana Share	209.893305	0	0	0	0	0	0	0	0	7.668785	0	0	7.668785	0	0	0	0	-8	
20	TUNGABHADRA PH Telangana Share	60.524845	0	0	0	0	0	0	0	0	5.255975	0	0	5.255975	0	0	0	0	-5	
24	SSLM	0	860.7515652	243.6132718	0	0	244	2.83023908	0	2.83023908	0	0	0	244	0	0	0	0	244	
25	NSPH	567.158905	937.8076919	187.6076784	0	0	188	2.000491999	0	2.000491999	99.52489	0	99.52489	88	0	0	0	0	88	
26	NSRCPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
27	NSLCPH	35.28911	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
28	POCHAMPAD PH	43.07783	43.64119516	16.42902	0	0	16	3.764566928	0	3.764566928	12.84238	0	12.84238	4	0	0	0	0	4	
29	NIZAMSAGAR PH	16.55103	6.1145685	0	0	0	0	0	0	0	4.934199	0	4.934199	-5	0	0	0	0	-5	
30	FABM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
31	MINI HYDRO&OTHERS (Chettipeta)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
32	SINGUR	18.44177	18.18383132	6.845425	0	0	7	3.764566928	0	3.764566928	5.497867	0	5.497867	1	0	0	0	0	1	
33	SSLM LCPH	957.39172	0	0	0	0	0	0	0	0	310.4623	0	310.4623	-310	0	0	0	0	-310	
34	Nagarjunasagar Tail Pond Dam Power House	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
35	Priyadarshini Jurala Hydro Electric Project-Telangana Share	97.26023	125.9992045	40.29418461	0	0	40	3.197971351	0	3.197971351	41.38463	0	41.38463	-1	0	0	0	0	-1	
36	Lower Jurala Hydro Electric Project	79.539235	275.7931657	200.68653	0	0	201	7.276704246	0	7.276704246	200.6865	0	200.6865	0	0	0	0	0	0	
37	POCHAMPAD Stage-II	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
38	PULICHINTAL(New Project)	6.850405	139.3132824	56.997345	0	0	57	4.091307304	0	4.091307304	56.99735	0	56.99735	0	0	0	0	0	0	
39	Mini Hydel & Others (Peddapalli, Palair)	14.385145	0.78642085	4.804455	0	0	5	61.09267067	0	61.09267067	4.804455	0	4.804455	0	0	0	0	0	0	
40	Ramagiri Wind Mills (AP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
41	Pochampad Stage-IV	0	7.2490125	5.568395	0	0	6	7.678832117	0	7.678832117	0	0	0	6	0	0	0	0	6	
	TOTAL HYDRO	2106.38313	2415.639938	763	0	0	763				750	0	750	26	0	0	0	0	13	
	TOTAL GENCO	15282.13181	16242.22029	3392	3476	0	6868				2865	3117	0	5982	540	359	0	0	886	
Central Generating Stations																				
NTPC																				
NTPC (SR)																				
42	NTPC (SR)	1726.421995	1499.140289	114.1291432	363.1806644	65.1974285	543	0.761297285	2.422592915	3.618788981	121.8116	395.35064	0	517.1623	-8	-32	0	0	65	
43	NTPC (SR) Stage III	442.54604	355.6208212	28.62198887	84.10950218	0	113	0.809378214	2.378522336	3.18790055	32.74931	101.78559	0	134.5349	-4	-18	0	0	-22	
	Total NTPC(SR)	2168.968035	1852.761111	143	447	65	655				155	497	0	652	-12	-50	0	0	43	
NTPC (ER)																				
44	Farakka	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
45	Kahalgaon	0	133.9401599	24.34670838	30.95575397	0	55	1.817730276	2.311162985	4.128893261	0	0	0	24	31	0	0	0	55	
46	Talcher - Stage 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
47	Talcher Stage 2	1101.38427	1061.373846	77.93190597	206.7554066	0	285	0.734255006	1.947997941	2.682252947	75.74954	149.78826	0	225.5378	2	57	0	0	59	
48	CGS - Others	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Total NTPC(ER)	1101.38427	1195.314006	102	238	0	340				76	150	0	226	27	88	0	0	114	
NTPC - Simhadri																				
49	NTPC Simhadri Stage I	2415.723719	1131.578519	284.6095522	372.5307218	0	657	2.515128623	3.292113207	5.807261831	251.6871	553.20073	0	804.8879	33	-181	0	0	-148	
50	NTPC Simhadri Stage II	1028.316535	770.7220901	171.4879651	238.9586163	0	410	2.225029843	3.100451114	5.325480957	170.5828	236.5126	0	407.0954	1	2	0	0	3	
	Total NTPC - Simhadri	3444.03935	1902.300609	456	611	0	1068				422	790	0	1212	34	-178	0	0	-144	
	Total NTPC	6714.391655	4950.375725	701	1296	65	2063				653	1437	0	2089	49	-140	0	0	65	
NLC TS-II																				
51	NLC TS II- Stage I	273.43769	208.0629586	15.4512166	56.72348344	59.03376765	131	0.742624334	2.726265348	6.306192777	20.26802	74.648489	0	94.9175	-5	-18	0	0	59	
52	NLC TS II- Stage II	482.780705	222.0875832	19.80004905	60.26983899	0	80	0.891542371	2.713786971	3.605329342	37.24678	131.79913	0	169.2259	-18	-72	0	0	-89	
	Total NLC	756.218395	430.1505419	35	117	59	211				58	206	0	264	-22	-89	0	0	59	
NPC																				
53	NPC-MAPS	108.01205	49.0808015	0	12.73473865	0	13	0	2.594647304	2.594647304	0	23.546627	0	23.54663	0	-11	0	0	-11	
54	NPC-Kaiga unit I&II	377.28729	742.2053808	0	255.8684916	9.367403875	265	0	3.447408201	3.573618602	0	117.71363	0	117.7136	0	138	0	0	148	
55	NPC-Kaiga unit III&IV	400.194875	0	0	0	0	0	0	0	0	0	124.8608	0	124.8608	0	-125	0	0	-125	
	Total NPC	885.494215	791.2861889	0	269	9	278				0	266	0	266	0	2	0	0	12	
CGS - New																				
56	Vallur Thermal Power Plant	0	0	91.9882508	0	25.72480567	118	0	0	0	0	0	0	0	92	0	0	0	26	
57	Tuticorin	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
58	NPC - Kudankulam	241.87362	207.6472681	0	85.98596072	0	86	0	4.140962773	4.140962773	0	99.168184	0	99.16818	0	-13	0	0	-13	
59	Nl.G. Tamilnadu Power Ltd	0	568.7686317	119.966472	162.3322611	32.41752668	315	2.109229317	2.854100105	5.533289241	0	0	0	120	162	0	0	0	315	
60	Kudgi	1336.719095	379.8659158	212.7987975	117.7557821	0	331	5.601945019	3.09990192	8.701875										

