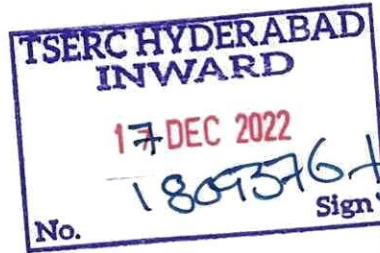


**BEFORE THE HONOURABLE TELANGANA STATE ELECTRICITY  
REGULATORY COMMISSION**

Office at 5<sup>th</sup> Floor, Singareni Bhavan, Red Hills, Hyderabad - 500 004



FILING NO. \_\_\_\_\_/2022

CASE NO. 87/2022

**In the matter of:**

**Filing of the Power Purchase True-up applications for Retail Supply Business for the FY 2021-22 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in electricity in the State of Telangana including the Commission and shall continue to have effect until duly altered, repealed or amended, any of Regulation by the Commission with effect from the date of notification as per Notification issued by the Government of Telangana in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 2021-22** 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 2021-22** 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 trueing 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 2021-22	7,612	6,372

**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. **7,612 crores after considering the actual agriculture sales for the FY 2021-22** 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. **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.**

<b>FY</b>	<b>Power Purchase True up/True down as per Regulation (Rs. Crs)</b>
<b>2021-22*</b>	<b>6,372.00</b>

- v. The licensee proposes to recover the Net Power Purchase true up amount of Rs. **6372.00** 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 2021-22
  - 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.

**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: 16-12-2022

BEFORE THE HONOURABLE TELANGANA STATE ELECTRICITY REGULATORY  
COMMISSION

Office at 5<sup>th</sup> Floor, Singareni Bhavan, Red Hills, Hyderabad - 500 004

FILING NO. \_\_\_\_\_/2022

CASE NO. \_\_\_\_\_/2022

In the matter of:

**Filing of the Power Purchase True-up applications for Retail Supply Business for the for FY 2021-22 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 2021-22 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 2021-22
  - 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, Hyd-500 067

**VERIFICATION:**

I, the above named Deponent solemnly affirm at Hyderabad on this 16 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.

*[Signature]*  
**DEPONENT**

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



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## 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 FY2021-22.

It is to submit that the Licensees 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 truing 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.

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. The matter was under consideration by the Hon'ble Commission at that juncture.

Hence, to avoid any undue burden on the consumers, the licensees requested the Commission for filing of truing up in the ensuing year. (Ref: Pg 44 of RST for the FY 2018-19).

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; non-operational 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 provisional power purchase true-up for FY 2021-22 in the ARR filings for FY 2022-23 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%
2021-22*	14262	19144	34%

\*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.

The Licensee, TSSPDCL, hereby submits the Power Purchase true up for FY2021-22 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 arrived by TSSPDCL (in Rs. Crs)	
	Considering actual agriculture sales	Considering agriculture sales as approved by the Hon'ble Commission
FY 2021-22	7,612	6,372

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 2021-22 at the State level

- The 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.
- In view of the above, the licensees have considered the approved power purchase cost for FY2018-19 in arriving at the True-up for FY2021-22. Further, the licensees have considered the approved transmission cost & SLDC cost as per the MYT Transmission Tariff Order & SLDC Order for 4<sup>th</sup> 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 34% increase in agricultural sales (FY2021-22) over the approved values for the FY 2018-19.
- In light of the actual sales number being available for the FY 2021-22, 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
<b>LT Category</b>	20,779.61	25,034.99	10,443.58	12,654.02	31,223.19	37,689.01
Category V( Irrigation & Agriculture)	8,272.34	11,724.36	5,989.69	7,419.51	14,262.02	19,143.87
HT Category at 11 kV	5,111.63	5,762.19	1,590.86	2,184.01	6,702.48	7,946.20
HT Category at 33 kV	4,074.23	5,780.56	388.97	663.92	4,463.20	6,444.48
HT Category at 132 kV	4,135.12	5,940.82	3,196.80	3,139.86	7,331.93	9,080.68
<b>Total</b>	<b>34,100.59</b>	<b>42,518.55</b>	<b>15,620.20</b>	<b>18,641.82</b>	<b>49,720.79</b>	<b>61,160.37</b>

- The Petitioners submit that based on annual audited accounts and approved distribution losses, power purchase cost (including transmission charges) arrives at Rs.26,273 Cr for TSSPDCL and Rs11,579 Cr. for TSNPDCL, aggregating to Rs. 37,852 Cr for the Telangana for FY 2021-22 as shown in the table below:

### PP cost Variation Analysis TSDISCOMS FY 2021-22

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	23193	2998	4225	4418	6531	-	-	7416	10756	3340
Genco Hydel	2986	5371	1063	1181	0	0	-	-	1063	1181	118
CGS	15873	15175	1251	1785	3820	4676	-	-	5072	6461	1389
APGPCL and IPPS Gas	58	0	4	0	12	0	-	-	16	0	-16
NCE	5200	6900	38	-	2865	3882	-	-	2903	3882	980
Others	21727	16316	4866	3307	3501	4520	-	-	8367	7826	-541
Market	1159	6784	-	3	448	3083	-	0	448	3086	2639
Interstate Sale/UI/Sale/Purchase in 33kV & below	-8047	-3618	-	-	-2494	-1894	-	-	-2494	-1894	600
D-D	-	0	-	-	-	0	-	-	-	0	0
Interest on pension bonds	-	-	684	1080	-	-	-	-	684	1080	396
Miscellaneous	-	-	-	-	-	-	-	997	-	997	997
Transmission charges	-	-	-	-	-	-	-	-	3830	4477	647
<b>Total</b>	<b>57631</b>	<b>70121</b>	<b>10904</b>	<b>11581</b>	<b>12570</b>	<b>20797</b>	<b>0</b>	<b>997</b>	<b>27304</b>	<b>37852</b>	<b>10548</b>

\*Other costs pertain to UI/Deviation charges, True up claims and Supplementary bills of TS Genco etc.

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

The actual energy dispatched by the State is 8% higher for FY 2021-22 and is following a similar trend of the previous years viz., FY19-20& FY20-21 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 2021-22. As the recorded rainfall is high, a quantum amounting to 5371 MUs was generated from hydel power stations during the year.

- The actual hydel generation, thus achieved in the FY 2021-22, is 80% 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 698 MUs (4% 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 4517 MUs have been procured from TSGENCO Thermal stations during the FY 2021-22, which is 24% 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 1700 MUs from the NCES sources in FY 2021-22, amounting to a total of 6,900 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 2021-22.
- The Licensees, after exhausting all their sources, have resorted to procure power from short term market for the FY 2021-22.
- The Licensees submit that the power was procured to meet the sudden increase in power demand in the state for the FY 2021-22.
- To meet the power demand, the Licensees had purchased a total of 6784 MUs from the Short-term market for the State of Telangana for the FY 2021-22. An additional 5625 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 2021-22.
- 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 2021-22 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 2021-22.

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. 10,904 Cr. to an actual Rs. 11,581 Cr. (6% increase from approved value) incurred by the Licensees during the FY 2021-22. This is mostly attributable to increase in overall fixed costs of TSGENCO (Thermal) and CGS.
- Further, the commissioning of TS Genco Station BTPS had led to an increase in fixed cost commitments of the licensee to a tune of Rs.1066 Cr.

- **Variations in Variable cost (VC):** Variable Costs have increased to the tune of Rs. 8,227 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 19% from the approved Rs 2.37/kWh to Rs. 2.82/kWh. With the increase in power procurement from these stations, the overall Variable cost has increased to an extent of Rs. 2113 Cr for the FY 2021-22.
  - **CGS Stations:** The Variable cost has increased significantly by 28% from the approved costs by the Hon'ble Commission (from Rs. 2.41/kWh to Rs. 3.08/kWh).
  - **IPP (Thermal Power Tech):** For IPP – Thermal Powertech 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 75% from the approved costs by the Hon'ble Commission (from Rs. 1.86/kWh to Rs. 3.26/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 Rs 1,569.71 Cr based on actual applicable charges and energy drawn, amounting to an upwards revision of INR 646.79 Cr. in the cost.
- **The dispatch from NCEs,** being the must-run stations at a higher per unit cost of Rs.5.63/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. 1017 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. 2639 Cr.
- The actual quantum and revenue from sale of surplus power in FY 2021-22 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 2021-22

- The Licensee TSSPDCL for the FY 2021-22 had incurred few miscellaneous expenses and certain received miscellaneous revenue as explained below:
  - Following table shows the breakup of miscellaneous charges for TSSPDCL.

Miscellaneous charges for TSSPDCL	
Item/Particular	Amount (Rs. Crore)
UI-SRPC/Deviation charges	5.68
Thermal Incentive 2020-21	5.23
Advance Income Tax	7.44
2014-19 Trueup claim	42.48
2014-19 Review petition order	61.31
TSGenco Supplementary Bill 2019-20	197.98
TS Genco Supplementary Bill 2020-21	70.50
Wheeling Transco/Asset Maintenance	0.21
Reactive	20.54
TSGENCO Supplementary bill 21 - 22- prior period	292.04
Adjustment of audited accounts	3.40
<b>Total</b>	<b>706.82</b>

- Basis the above power purchase cost incurred at the State level for the FY 2021-22, 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 2021-22 is tabulated below:

PP cost variation TSSPDCL FY 2021-22					
Category	Energy Dispatched		Total INR Cr. Impact		
	Approved	Actual	Approved	Actual	Difference
Genco Thermal	13176	16363	5232	7588	2357
Genco Hydel	2106	3789	750	833	83
CGS	11198	10706	3578	4558	980

PP cost variation TSSPDCL FY 2021-22					
Category	Energy Dispatched		Total INR Cr. Impact		
	Approved	Actual	Approved	Actual	Difference
APGPCL. and IPPS Gas	41	0	11	0	(11)
NCE	3634	4785	2022	2710	689
IPPS Others	15328	11511	5903	5522	(382)
Market	59	4786	23	2177	2155
Interstate Sale/UI/Sale/Purchase in 33kV & below	(4023)	(2553)	(1247)	(1336)	(89)
D-D purchase	(1972)	(958)	(789)	(400)	389
Interest on pension bonds		-	483	762	279
Miscellaneous		-	-	707	707
Transmission charges			2696	3152	456
<b>Total</b>	<b>39547</b>	<b>48429</b>	<b>18661</b>	<b>26273</b>	<b>7612</b>

- The details of station wise deviations of power purchase cost for the FY 2021-22 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)
2021-22*	6,372

\*considering ARR for FY 2021-22 to be same as that approved for FY18-19

The detailed station wise deviations of power purchase cost for the FY 2021-22- as per the Regulation is enclosed as Annexure-G

### 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 1<sup>st</sup> 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%
2021-22*	7,612	20,162	38%

\*considering ARR for FY2019-20, FY 2020-21 and FY 2021-22 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)
2021-22*	6,372

\*considering ARR for FY 2021-22 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 2021-22

FY	Power Purchase True up as per Regulation (Rs. Crs)
2021-22	6,372

- 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".

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		Annexure F													
Index No	Generating Station	Annual PP Cost FY 2021-22						FY 2021-22 Approved (FY18-19)				FY 2021-22 Variance			
		Energy		Annual PP Cost (Rs. Crs.)				Annual PP Cost (Rs. Crs.)				PP Cost Variance			
		Approved	Actual	Fixed	Variable	Others	Total	Fixed	Variable	Others	Total	Fixed	Variable	Others	Total
<b>GENCO</b>															
<b>Thermal</b>															
8	KTPS A	790	0	0	0	0	0	128	172	0	300	-128	-172	0	-300
9	KTPS B	790	0	0	0	0	0	128	172	0	300	-128	-172	0	-300
10	KTPS C	790	0	0	0	0	0	128	172	0	300	-128	-172	0	-300
11	KTPS D	1970	2061	249	587	0	836	202	399	0	601	47	188	0	235
12	KTPS Stage VI	1752	2086	361	613	0	974	363	451	0	813	-2	162	0	160
13	RTS B	273	166	66	61	0	127	38	68	0	106	27	-6	0	21
14	NTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	Kakatiya Thermal Power Plant Stage I	1838	2391	333	694	0	1027	374	469	0	843	-42	225	0	184
16	Kakatiya Thermal Power Plant Stage II	2986	2375	493	681	0	1173	535	705	0	1239	-42	-24	0	-66
17	BTPS (Manuguru New Project)	0	3343	752	951	0	1703	0	0	0	0	752	951	0	1703
18	KTPS VII	1985	3941	728	1020	0	1748	219	511	0	730	508	509	0	1018
<b>TOTAL THERMAL</b>		<b>13175.74868</b>	<b>16363</b>	<b>2981</b>	<b>4607</b>	<b>0</b>	<b>7588</b>	<b>2115</b>	<b>3117</b>	<b>0</b>	<b>5232</b>	<b>866</b>	<b>1491</b>	<b>0</b>	<b>2357</b>
<b>Hydel</b>															
19	MACHKUND PH Telangana Share	209.893305	0	0	0	0	0	8	0	0	8	0	0	0	-8
20	TUNGBHADRA PH Telangana Share	60.524845	0	0	0	0	0	5	0	0	5	0	0	0	-5
21	USL	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
23	DONKARAYI	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	SSLM	0	1439.123303	282	0	0	282	0	0	0	0	282	0	0	282
25	NSPH	567.158505	1663.222731	219	0	0	219	100	0	0	100	119	0	0	119
26	NSRCPH	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
28	POCHAMPAD PH	43.07783	48.17376428	17	0	0	17	13	0	0	13	4	0	0	4
29	NIZAMSAGAR PH	16.55103	12.0662094	6	0	0	6	5	0	0	5	1	0	0	1
30	PABM	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
32	SINGUR	18.44177	26.76320238	9	0	0	9	5	0	0	5	4	0	0	4
33	SSLM LCPH	957.39172	0	0	0	0	0	310	0	0	310	-310	0	0	-310
34	Nagarjunasagar Tail Pond Dam Power House	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	Priyadarshini Jurala Hydro Electric Project- Telangana Share	97.26023	118.7780775	40	0	0	40	41	0	0	41	-2	0	0	-2
36	Lower Jurala Hydro Electric Project	79.559235	250.7970285	176	0	0	176	201	0	0	201	-24	0	0	-24
37	POCHAMPAD Stage-II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38	PULICHINTAL(New Project)	6.850405	216.4510476	71	0	0	71	57	0	0	57	14	0	0	14
39	Mini Hydel & Others (Peddapalli, Palair)	14.385145	2.348437503	6	0	0	6	5	0	0	5	1	0	0	1
40	Ramagiri Wind Mills (AP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41	Pochampad Stage-IV	0	11.58681944	7	0	0	7	0	0	0	0	7	0	0	7
<b>TOTAL HYDRO</b>		<b>2106.38313</b>	<b>3789.310633</b>	<b>833</b>	<b>0</b>	<b>0</b>	<b>833</b>	<b>750</b>	<b>0</b>	<b>0</b>	<b>750</b>	<b>96</b>	<b>0</b>	<b>0</b>	<b>83</b>
<b>TOTAL GENCO</b>		<b>15282.13181</b>	<b>20152.10645</b>	<b>3814</b>	<b>4607</b>	<b>0</b>	<b>8422</b>	<b>2865</b>	<b>3117</b>	<b>0</b>	<b>5982</b>	<b>962</b>	<b>1491</b>	<b>0</b>	<b>2440</b>
<b>Central Generating Stations</b>															
<b>NTPC</b>															
<b>NTPC (SR)</b>															
42	NTPC (SR)	1726.421995	1500.207185	129	421	0	550	122	395	0	517	7	26	0	33
43	NTPC (SR) Stage III	442.54604	443.1370557	42	122	0	165	33	102	0	135	10	20	0	30
<b>Total NTPC(SR)</b>		<b>2168.968035</b>	<b>1943.344241</b>	<b>171</b>	<b>543</b>	<b>0</b>	<b>714</b>	<b>155</b>	<b>497</b>	<b>0</b>	<b>652</b>	<b>17</b>	<b>46</b>	<b>0</b>	<b>63</b>
<b>NTPC (ER)</b>															
44	Farakka	0	0	3	0	0	3	0	0	0	0	3	0	0	3
45	Kahalgaon	0	257.1906896	48	68	0	116	0	0	0	0	48	68	0	116
46	Talcher - Stage 1	0	0	3	0	0	3	0	0	0	0	3	0	0	3
47	Talcher Stage 2	1101.38427	1099.404418	83	193	0	276	76	150	0	226	8	43	0	50
48	CGS: Others	0	0	3	0	0	3	0	0	0	0	3	0	0	3
<b>Total NTPC(ER)</b>		<b>1101.38427</b>	<b>1356.595108</b>	<b>141</b>	<b>260</b>	<b>0</b>	<b>401</b>	<b>76</b>	<b>150</b>	<b>0</b>	<b>226</b>	<b>65</b>	<b>111</b>	<b>0</b>	<b>176</b>
<b>NTPC - Simhadri</b>															
49	NTPC Simhadri Stage I	2415.723715	2247.332781	298	680	0	978	252	553	0	805	47	127	0	173
50	NTPC Simhadri Stage II	1028.315635	992.2704117	182	299	0	481	171	237	0	407	12	62	0	74

<b>Total NTPC- Simhadri</b>	3444.03935	3239.603193	481	978	0	1459	422	790	0	1212	58	189	0	247
<b>Total NTPC</b>	6714.391655	6539.542541	793	1782	0	2575	653	1437	0	2089	140	345	0	486
<b>NLC TS-II</b>														
51 NLC TS II- Stage I	273.43769	253.6218868	20	67	0	87	20	75	0	95	-1	-7	0	-8
52 NLC TS II- Stage II	482.780705	392.6410406	33	104	0	137	37	132	0	169	-5	-27	0	-32
<b>Total NLC</b>	756.218395	646.2629274	52	172	0	224	58	206	0	264	-5	-35	0	-40
<b>NPC</b>														
53 NPC-MAPS	108.01205	30.11327486	0	7	0	7	0	24	0	24	0	-16	0	-16
54 NPC-Kaiga unit I&II	377.28729	780.3432864	0	273	0	273	0	118	0	118	0	156	0	156
55 NPC-Kaiga unit III&IV	400.194875	0	0	0	0	0	0	125	0	125	0	-125	0	-125
<b>Total NPC</b>	885.494215	810.4565612	0	281	0	281	0	266	0	266	0	15	0	15
<b>CGS - New</b>														
56 Vallur Thermal Power Plant	0	403.1553915	98	148	0	246	0	0	0	0	98	148	0	246
57 Tuticorin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58 NPC- Kudankulam	241.87362	246.3805501	0	102	0	102	0	99	0	99	0	3	0	3
59 NLC Tamilnadu Power Ltd	0	457.4652577	100	169	0	270	0	0	0	0	100	169	0	270
60 Kudigi	1336.717905	584.0815691	215	229	0	444	173	265	0	437	42	-35	0	7
80 NCE - Bundled power NVVNL (Coal) JNNSM Ph1	252.73832	155.1992489	0	73	0	73	0	84	0	84	0	-12	0	-12
83 NCE - Bundled Power (Coal) ( NTPC 200 MW)	1010.946225	863.0701433	0	343	0	343	0	338	0	338	0	5	0	5
<b>TOTAL CGS</b>	11198.38034	10706	1259	3299	0	4558	883	2695	0	3578	376	604	0	980
<b>APGPCL</b>														
<b>Total APGPCL</b>	41.038935	0	0	0	0	0	3	9	0	11	-3	-9	0	-11
<b>IPPs-Gas</b>														
73 Konaseema						0			0	0	0	0	0	0
<b>TOTAL IPPS</b>			0	0	0	0	0	0	0	0	0	0	0	0
<b>NCE</b>														
74 NCE - Bio-Mass	46.55	35	0	23		23	7	21		28	-7	2	0	-5
75 NCE - Bagasse	8.28	9	0	4		4	1	2		3	-1	2	0	1
76 NCE - Municipal Waste to Energy	79.45	126	0	82		82	0	56		56	0	25	0	25
77 NCE - Industrial Waste based power project	25.22	42	0	28		28	4	11		15	-4	17	0	12
78 NCE - Wind Power	184.35	219	0	99		99	0	87		87	0	13	0	13
79 NCE - Mini Hydel	1.77	0	0	0		0	0	0		0	0	0	0	0
81 NCE - Solar Projects (SPDCL)	3288.59	3589	0	2124		2124	0	1832		1832	0	292	0	292
82 NCE - Bundled Power NVVNL (solar) JNNSM Ph.1	0	34.12	0.00	36	0	36	0	0		0	0	36	0	36
99 NCE - Bundled Power (Solar) (NTPC 400 MW)	0	588.45	0.00	277	0	277	0	0		0	0	277	0	277
100 NTPC -Solar-Phase I		45.5564018	0.00	13	0	13				0	0	13	0	13
101 Solar Energy Corporation of India		97.26959234	0.00	24	0	24				0	0	24	0	24
84 NCE- Solar Projects (NPDC)	0		0	0	0	0	0	0	0	0	0	0	0	0
<b>TOTAL NCE</b>	3634.21	4785.366552	0	2710	0	2710	13	2009	0	2022	-13	702	0	689
<b>IPPs-Others</b>														
92 Singareni	5941.318865	6189.566748	1018	1692		2711	1069	1054		2123	-50	638	0	588
93 Thermal Power Tech	1415.45876	3081.477013	773	799	0	1572	247	246		494	526	553	0	1078
94 CSPGCL	4977.365995	1150.8437	312	138	0	450	1320	597		1918	-1009	-459	0	-1468
95 Thermal Power Tech Unit II	2994.29721	1088.961722	230	559	0	789	796	572		1369	-566	-13	0	-580
<b>TOTAL OTHERS</b>	15328.44083	11510.84918	2333	3189	0	5522	3433	2470	0	5903	-1100	718	0	-382
<b>MARKET</b>														
97 Bi-lateral Sales( PTC etc.)	58.73	4786.158804	2	2175	0	2177	0	23		23	2	2153	0	2155
98 Jhajar	0	0	0	0	0	0	0	0		0	0	0	0	0
104 Miscellaneous	0	0	0	0	707	707	0	0		0	0	0	707	707
102 Interest on Pension Bonds	0	0	762	0	0	762	483	0		483	279	0	0	279
103 Interstate Sale/UI/Sale/Purchase in 33kV & below	-4023.3	-2552.75	0	-1336	0	-1336	0	-1247		-1247	0	-89	0	-89
D to D sales/Purchase	-1972.49	-958.10	0	-400	0	-400	0	-789		-789	0	389	0	389
Transmission Cost (Rs. Cr.)		0	0	0	2009	2009			2009	2009	0	0	0	0
SLDC Cost (Rs. Cr.)		0	0	0	36	36			36	36	0	0	0	0
PGCIL & ULDC OR POSOCO charges (Rs. Cr.)		0	0	0	1107	1107			651	651	0	0	456	456
<b>TOTAL MARKET</b>	-5937	1275	764	439	3859	5062	483	-2014	2696	1165	281	2452	1163	3897
<b>TOTAL</b>	39547.14191	48429.2422	8171	14244	3859	26273	7679	8286	2696	18661	504	5958	1163	7612

1	2	Annexure G(IV)													
Index No	Generating Station	Annual PP Cost FY 2021-22						FY 2021-22 Approved (FY18-19)				FY 2021-22 Variance			
		Energy		Annual PP Cost (Rs. Crs.)				Annual PP Cost (Rs. Crs.)				PP Cost Variance			
		Approved	Actual	Fixed	Variable	Others	Total	Fixed	Variable	Others	Total	Fixed	Variable	Others	Total
	<b>Genco</b>														
	<b>Thermal</b>														
8	KTPS A	790	0	0	0	0	0	128	172	0	300	-128	-172	0	-300
9	KTPS B	790	0	0	0	0	0	128	172	0	300	-128	-172	0	-300
10	KTPS C	790	0	0	0	0	0	128	172	0	300	-128	-172	0	-300
11	KTPS D	1970	2061	249	587	0	836	202	399	0	601	47	188	0	235
12	KTPS Stage VI	1752	2086	361	613	0	974	363	451	0	813	-2	162	0	160
13	RTS B	273	166	66	61	0	127	38	68	0	106	27	-6	0	21
14	NTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	Kakatiya Thermal Power Plant Stage I	1838	2391	333	694	0	1027	374	469	0	843	-42	225	0	184
16	Kakatiya Thermal Power Plant Stage II	2986	2375	493	681	0	1173	535	705	0	1239	-42	-24	0	-66
17	BTPS (Manuguru New Project)	0	3343	752	951	0	1703	0	0	0	0	752	951	0	1703
18	KTPS VII	1985	3941	728	1020	0	1748	219	511	0	730	508	509	0	1018
	<b>TOTAL THERMAL</b>	<b>13176</b>	<b>16363</b>	<b>2981</b>	<b>4607</b>	<b>0</b>	<b>7588</b>	<b>2115</b>	<b>3117</b>	<b>0</b>	<b>5232</b>	<b>866</b>	<b>1491</b>	<b>0</b>	<b>2357</b>
	<b>Hydel</b>														
19	MACHKUND PH Telangana Share	210	0	0	0	0	0	8	0	0	8			0	-8
20	TUNGBHADRA PH Telangana Share	61	0	0	0	0	0	5	0	0	5			0	-5
24	SSLM	0	1439	282	0	0	282	0	0	0	0	282	0	0	282
25	NSPH	567	1663	219	0	0	219	100	0	0	100	119	0	0	119
26	NSRCPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	NSLCPH	35	0	0	0	0	0	0	0	0	0	0	0	0	0
28	POCHAMPAD PH	43	48	17	0	0	17	13	0	0	13	4	0	0	4
29	NIZAMSAGAR PH	17	12	6	0	0	6	5	0	0	5	1	0	0	1
30	PABM	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
32	SINGUR	18	27	9	0	0	9	5	0	0	5	4	0	0	4
33	SSLM LCPH	957	0	0	0	0	0	310	0	0	310	-310	0	0	-310
34	Nagarjunasagar Tail Pond Dam Power House	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Priyadarshini Jurala Hydro Electric Project- Telangana														
35	Share	97	119	40	0	0	40	41	0	0	41	-2	0	0	-2
36	Lower Jurala Hydro Electric Project	80	251	176	0	0	176	201	0	0	201	-24	0	0	-24
37	POCHAMPAD Stage-II	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38	PULICHINTAL(New Project)	7	216	71	0	0	71	57	0	0	57	14	0	0	14
39	Mini Hydel & Others (Peddapalli, Palair)	14	2	6	0	0	6	5	0	0	5	1	0	0	1
40	Ramagiri Wind Mills (AP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41	Pochampad Stage-IV	0	12	7	0	0	7	0	0	0	0	7	0	0	7
							0								
							0								
	<b>TOTAL HYDRO</b>	<b>2106</b>	<b>3789</b>	<b>833</b>	<b>0</b>	<b>0</b>	<b>833</b>	<b>750</b>	<b>0</b>	<b>0</b>	<b>750</b>	<b>96</b>	<b>0</b>	<b>0</b>	<b>83</b>
	<b>TOTAL GENCO</b>	<b>15282</b>	<b>20152</b>	<b>3814</b>	<b>4607</b>	<b>0</b>	<b>8422</b>	<b>2865</b>	<b>3117</b>	<b>0</b>	<b>5982</b>	<b>962</b>	<b>1491</b>	<b>0</b>	<b>2440</b>
	<b>Central Generating Stations</b>														
	<b>NTPC</b>														
	<b>NTPC (SR)</b>														
42	NTPC (SR)	1726	1500	129	421	0	550	122	395	0	517	7	26	0	33
43	NTPC (SR) Stage III	443	443	42	122	0	165	33	102	0	135	10	20	0	30
	<b>Total NTPC(SR)</b>	<b>2169</b>	<b>1943</b>	<b>171</b>	<b>543</b>	<b>0</b>	<b>714</b>	<b>155</b>	<b>497</b>	<b>0</b>	<b>652</b>	<b>17</b>	<b>46</b>	<b>0</b>	<b>63</b>
	<b>NTPC (ER)</b>														
44	Farakka	0	0	3	0	0	3	0	0	0	0	3	0	0	3
45	Kahalgaon	0	257	48	68	0	116	0	0	0	0	48	68	0	116
46	Talcher - Stage 1	0	0	3	0	0	3	0	0	0	0	3	0	0	3
47	Talcher Stage 2	1101	1099	83	193	0	276	76	150	0	226	8	43	0	50
48	CGS: Others	0	0	3	0	0	3	0	0	0	0	3	0	0	3

	<b>Total NTPC(ER)</b>	1101	1357	141	260	0	401	76	150	0	226	65	111	0	176
	<b>NTPC - Simhadri</b>														
49	NTPC Simhadri Stage I	2416	2247	298	680	0	978	252	553	0	805	47	127	0	173
50	NTPC Simhadri Stage II	1028	992	182	299	0	481	171	237	0	407	12	62	0	74
	<b>Total NTPC- Simhadri</b>	3444	3240	481	978	0	1459	422	790	0	1212	58	189	0	247
	<b>Total NTPC</b>	6714	6540	793	1782	0	2575	653	1437	0	2089	140	345	0	486
	<b>NLC TS-II</b>														
51	NLC TS II- Stage I	273	254	20	67	0	87	20	75	0	95	-1	-7	0	-8
52	NLC TS II- Stage II	483	393	33	104	0	137	37	132	0	169	-5	-27	0	-32
	<b>Total NLC</b>	756	646	52	172	0	224	58	206	0	264	-5	-35	0	-40
	<b>NPC</b>														
53	NPC-MAPS	108	30	0	7	0	7	0	24	0	24	0	-16	0	-16
54	NPC-Kaiga unit I&II	377	780	0	273	0	273	0	118	0	118	0	156	0	156
55	NPC-Kaiga unit III&IV	400	0	0	0	0	0	0	125	0	125	0	-125	0	-125
	<b>Total NPC</b>	885	810	0	281	0	281	0	266	0	266	0	15	0	15
	<b>CGS - New</b>														
56	Vallur Thermal Power Plant	0	403	98	148	0	246	0	0	0	0	98	148	0	246
57	Tuticorin	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58	NPC- Kudankulam	242	246	0	102	0	102	0	99	0	99	0	3	0	3
59	NLC Tamilnadu Power Ltd	0	457	100	169	0	270	0	0	0	0	100	169	0	270
60	Kudigi	1337	584	215	229	0	444	173	265	0	437	42	-35	0	7
80	NCE -Bundled power NVVNL (Coal) JNNM Ph1	253	155	0	73	0	73	0	84	0	84	0	-12	0	-12
83	NCE - Bundled Power (Coal) ( NTPC 200 MW)	1011	863	0	343	0	343	0	338	0	338	0	5	0	5
	<b>TOTAL CGS</b>	11198	10706	1259	3299	0	4558	883	2695	0	3578	376	604	0	980
	<b>APGPCL</b>														
61	APGPCL I - Allocated capacity	10	0	0	0	0	0	1	1	0	2	-1	-1	0	-2
62	APGPCL I - Unutilised capacity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63	APGPCL II - Allocated capacity	31	0	0	0	0	0	2	7	0	9	-2	-7	0	-9
64	APGPCL II - Unutilised capacity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	<b>Total APGPCL</b>	41	0	0	0	0	0	3	9	0	11	-3	-9	0	-11

	<b>IPPs-Gas</b>															
	<b>TOTAL IPPS</b>			0	0	0	0	0	0	0	0	0	0	0	0	0
	<b>NCE</b>															
74	NCE - Bio-Mass	47	35	0	23	23	7	21		28	-7	2	0	-5		
75	NCE - Bagasse	8	9	0	4	4	1	2		3	-1	2	0	1		
76	NCE - Municipal Waste to Energy	79	126	0	82	82	0	56		56	0	25	0	25		
77	NCE - Industrial Waste based power project	25	42	0	28	28	4	11		15	-4	17	0	12		
78	NCE - Wind Power	184	219	0	99	99	0	87		87	0	13	0	13		
79	NCE - Mini Hydel	2	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)	3289	3589	0	2124	2124	0	1832		1832	0	292	0	292		
82	NCE - Bundled Power NVVNL (solar) JNNSM Ph 1	0	34	0	36	36	0	0		0	0	36	0	36		
99	NCE - Bundled Power (Solar) (NTPC 400 MW)	0	588	0	277	277	0	0		0	0	277	0	277		
100	NTPC-Solar-Phase I		46	0	13	13					0	13	0	13		
101	Solar Energy Corporation of India		97	0	24	24					0	24	0	24		
84	NCE- Solar Projects (NPDCL)	0		0	0	0	0	0		0	0	0	0	0		
	<b>TOTAL NCE</b>	3634	4785	0	2710	2710	13	2009	0	2022	-13	702	0	689		
	<b>IPPs-Others</b>															
92	Singareni	5941	6190	1018	1692	2711	1069	1054		2123	-50	638	0	588		
93	Thermal Power Tech	1415	3081	773	799	1572	247	246		494	526	553	0	1078		
94	CSPGCL	4977	1151	312	138	450	1320	597		1918	-1009	-459	0	-1468		
95	Thermal Power Tech Unit II	2994	0	230	0	230	796	572		1369	-566	-572	0	-1138		
96		0				0				0						
						0										
	<b>TOTAL OTHERS</b>	15328	10422	2333	2630	4963	3433	2470	0	5903	-1100	160	0	-940		
	<b>MARKET</b>															
97	Bi-lateral Sales( PTC etc.)	59	3286	2	1493	1496	0	23		23	2	1471	0	1473		
98	Jhajjar	0	0	0	0	0	0	0		0	0	0	0	0		
104	Miscellaneous	0	0	0	0	707	707	0		0	0	0	707	707		
102	Interest on Pension Bonds	0	0	762	0	762	483	0		483	279	0	0	279		
103	Interstate Sale/UI/Sale/Purchase in 33kV & below	-4023	-2553	0	-1336	-1336	0	-1247		-1247	0	-89	0	-89		
	D to D sales/Purchase	-1972	-958	0	-400	-400		-789		-789	0	389	0	389		
	Transmission Cost (Rs. Cr.)		0	0	0	2009	2009			2009	2009	0	0	0		
	SLDC Cost (Rs. Cr.)		0	0	0	36	36			36	36	0	0	0		
	PGCIL & ULDC OR POSOCO charges (Rs. Cr.)		0	0	0	1107	1107			651	651	0	0	456	456	
	<b>TOTAL MARKET</b>	-5937	-225	764	-243	3859	4380	483	-2014	2696	1165	281	1771	1163	3215	
	<b>TOTAL</b>	39547	45840	8171	13003	3859	25033	7679	8286	2696	18661	504	4717	1163	6372	

20718.15  
70069.24