

**BEFORE THE HONOURABLE ANDHRA PRADESH ELECTRICITY
REGULATORY COMMISSION**

At its office at 4th Floor, Singareni Bhavan, Red Hills, Hyderabad-500 004

I.A.No. 26 of 2019 in OP.Nos. 60 & 61 of 2017

File No. /2019

Case No. /2019

IN THE MATTER OF:

Filing of Petition for Determination of the True up for Retail Supply Business for FY 2018-19 in accordance with the "Andhra Pradesh Electricity Regulatory Commission (Terms And Conditions For Determination Of Tariff For Wheeling And Retail Sale Of Electricity) Regulation No.4 of 2005 and amendments issued from time to time".

AND

IN THE MATTER OF:

1. SOUTHERN POWER DISTRIBUTION COMPANY OF ANDHRA PRADESH LIMITED

&

2. EASTERN POWER DISTRIBUTION COMPANY OF ANDHRA PRADESH LIMITED

- Petitioners

Affidavit

I, B. Lalitha, D/o B. Raja Rao, aged 51 years, working for gain at the Southern Power Distribution Company of Andhra Pradesh Ltd do solemnly affirm and say as follows:

1. I am the Chief General Manager/RAC/APSPDCL, the body corporate that has been awarded Distribution License by the Honourable Commission. I am competent and duly authorized by APSPDCL to affirm, swear, execute and file this affidavit in the present proceedings.
2. I am competent and duly authorized by APSPDCL to affirm, swear, execute and file this petition on behalf of both DISCOMs (APSPDCL & APEPDCL).

3. I have read and understood the contents of the accompanying petition. The statements made in the paragraphs of the accompanying application now shown to me are true to my knowledge derived from the official records made available to me and are based on information and advice received which I believe to be true and correct.

K. dd
DEONENT
CHIEF GENERAL MANAGER
RAC
APSPDCL :: TIRUPATI

VERIFICATION:

I, the above named deponent do hereby verify & affirm the contents of this affidavit as true & correct.

Verified and attested at Tirupati on this^{6TH} day of November, 2019

K. dd
DEONENT
CHIEF GENERAL MANAGER
RAC
APSPDCL :: TIRUPATI

Solemnly affirmed and signed before me

[Signature]
COMPANY SECRETARY
APSPDCL :: TIRUPATI
A.

BEFORE THE
**HONOURABLE ANDHRA PRADESH ELECTRICITY REGULATORY COMMISSION
AT ITS OFFICE AT 4th FLOOR, SINGARENI BHAVAN, RED HILLS, HYDERABAD 500 004**

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for FY 2018-19 in accordance with the "Andhra Pradesh Electricity Regulatory
Commission (Terms And Conditions For Determination Of Tariff For Wheeling
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issued from time to time".**

Filed by:

- 1. SOUTHERN POWER DISTRIBUTION COMPANY OF ANDHRA PRADESH LIMITED**
 - &**
 - 2. EASTERNPOWER DISTRIBUTION COMPANY OF ANDHRA PRADESH LIMITED**
- ... Petitioners

MOST RESPECTFULLY SHOWETH THE SUBMISSION:

The APDISCOMS humbly submit the following:

Petition for True-up of ARR for Retail Supply Business for FY 2018-19

1 Introduction

"Terms and Conditions for determination of Tariff for Wheeling and retail supply of electricity" Regulation 4 of 2005 and First Amendment Regulation 2014 ("Regulation 1 of 2014"), lays down the principles for determination of True Up and Aggregate Revenue Requirement (ARR) for (a) Distribution Business and (b) Retail Supply Business of the Petitioners. True Up is being filed herewith this petition for FY 2018-19 that is 4th year of the 3rd Control Period."

Sub-Clause 10.4 of the principal regulation 4 of 2005 determines the expenditure to be considered for distribution business and retail supply business. The said Clause is reproduced below:

"The expenditure of the Distribution licensee considered as "controllable" and "uncontrollable" shall be as follows:

Distribution Business	
ARR Item	"Controllable" / "Uncontrollable"
Operation & Maintenance Expenses	Controllable
Return on Capital Employed	Controllable
Depreciation	Controllable
Taxes on Income	Uncontrollable
Non-tariff Income	Controllable

In addition to the above items the retail supply business shall include the following:

Retail Supply Business	
ARR Item	"Controllable" / "Uncontrollable"
Cost of power purchase	Uncontrollable

Further, on pass-through of gains and losses on variation in "uncontrollable" items, Sub-Clause 10.5 of the principal regulation 4 of 2005 states that *"The Distribution licensee shall be eligible to claim variations in "uncontrollable" items in the ARR for the year succeeding the relevant year of the Control period depending on the availability of data as per actuals with respect to effect of uncontrollable items".*

As per First Amendment to Principal Regulation 4 of 2005 (i.e. Regulation 1 of 2014), Sub-Clause 12.5 states that variation of power purchase cost can be claimed and also provides for its computation. The said sub-clause is mentioned below:

"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 at the power purchase cost variation, the least of the following 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 Agriculture 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."

2 Petitioners' Filings on True-up for FY 2018-19

The current filing follows the principles laid down under above Regulations, mentioned in Section 1 above, for determination of the true-up for the retail supply business for the year FY 2018-19. Therefore, the Petitioners herewith submit the Petition providing details with regard to the deviations resulting in True-Up requirement for FY 2018-19.

3 Deviation in power purchase quantum

As part of the tariff order, the Honourable Commission approves monthly energy despatch for every year. In reality, actual energy despatch is different from approved energy despatch due to several factors like coal availability, transportation issues, renewable power generation, peak load, agricultural load, seasonal changes, drought, humidity, rainfall etc.

The Petitioners in the following sections have provided the following details

- a) Deviation in Source Wise Energy Despatch in FY 2018-19 with respect to the Approved Despatch as per Tariff Order FY 2018-19.
- b) Comparison of Approved Power Purchase Costs and Actual Power Purchase Costs

4 Deviation in Source wise Energy Despatch

The following table shows the difference between the approved and actual despatch from the major sources as approved by the Hon'ble Commission in the Tariff Order FY 2018-19:

Table 1 Comparison of approved and actual energy despatch

Source	Energy (MU)		
	Approved	Actual	Varlance
Total APGENCO	14,108	15,937	1,829
Total APPDCL	9,223	6,470	(2,754)
Total APGENCO Hydel	3,258	2,713	(545)
Total CGS	14,750	12,939	(1,811)
Total APGPCL	81	144	63
Total IPPs - Gas	2,711	3,539	828
Total NCE	12,623	12,772	150
Total IPPs - Others	4,088	3,254	(834)
Total Market	0	5,544	5,544
Sale of Surplus Power	0	(1,634)	(1,634)
Total	60,843	61,678	835

It can be observed from the above Table that, even though overall deviation in power procurement is only 1.4% with reference to the approved quantum, the Petitioners have procured more power from APGENCO, Market Sources, and Gas based IPPs. APDISCOMs have also undertaken Sale of Surplus power to the extent of 1634 MU during FY 2018-19. Reasons for variations in procurement of energy from different sources are enumerated as under.

- i) Actual procurement from AP Genco -Thermal Stations is more than the approved quantum by 1829 MU.
- ii) There was Less procurement from APPDCL -Krishnapatnam Thermal Station to the extent of 2754 MU, owing to the reasons attributable to Coal & logistics.
- iii) Lesser procurement from CGS Stations to the extent of 1811 MU and more procurement of 828 MU from Gas based IPPs.
- iv) From Market Sources a quantum of 5544 MU has been procured out of which 3295 is through Swapping arrangement (Banking arrangement) from other States such as Punjab, Delhi & Haryana during the period Nov 18 to March 19 with a condition to return the power during June -19 to September- 19
- v) APDISCOMs undertook Sale of Surplus Power to the extent of 1634 MU during different time slots /seasons in the year based on the availability of generation & Grid Demand at that point of time.
- vi) Even after procuring more power available from AP Genco stations & Gas Stations , the licensee fell short of energy requirement. Hence, the licensees in order to ensure reliable and uninterrupted power supply had to meet the shortfall through short term purchases from Market sources.
- vii) Plant wise, Fuel type wise approved procurement & actual purchase details are given in Annexure-I

4.1 Deviation in Sales from approved values

The actual sales are almost equal to the approved sales, whereas actual power purchase is more by 835 MU. The following table shows the details of the same:

Table 2: Comparison of approved and actual losses & Energy Procurement

Particulars	UoM	FY 2018-19		
		APEPDCL	APSPDCL	State
Approved Sales	MU	19470	34922	54392
Approved Losses	%	9.55%	11.18%	10.60%
Approved Power Procurement	MU	21526	39317	60843
Actual Sales	MU	19,678	34,889	54557
Actual Power Purchase	MU	22,408	39,269	61,678

Comparison of Approved Power Purchase Costs and Actual Power Purchase Costs

4.2 Fixed Costs

The Hon'ble Commission approved Rs. 8393.78 Cr. as fixed costs payable to generators for FY 2018-19. Against the said amount, the Petitioners incurred Rs. 8264Cr. as fixed costs, i.e. the Petitioners paid fixed costs less by Rs.130Cr.

The following table shows the source wise comparison between the approved and actual fixed costs for FY 2018-19:

Table 3: Comparison of approved and actual fixed costs

Source	Energy (MU)			Fixed Cost (Rs. in Cr)		
	Approved	Actual	Variance	Approved	Actual	Variance
Total APGENCO	14,108	15,937	1,829	1,986	2,176	190
Total APPDCL	9,223	6,470	(2,754)	941	147	(793)
Total APGENCO Hydel	3,258	2,713	(545)	475	475	0
Total CGS	14,750	12,939	(1,811)	1,777	1,604	(173)
Total APGPCL	81	144	63	4	7	4
Total IPPs - Gas	2,711	3,539	828	244	209	(35)
Total NCE	12,623	12,772	150	0	0	0
Total IPPs - Others	4,088	3,254	(834)	747	371	(376)
Total Market	0	5,544	5,544	0	0	0
Sale of Surplus Power	0	(1,634)	(1,634)	0	0	0
Total Transmission Charges	0	0	0	2,220	2,240	20
SDSTPS Additional Cost	0	0	0	0	776	776
Total	60,843	61,678	835	8,394	8,005	(389)

The reasons for variation in Fixed Costs are briefly described as below.

- a) The Petitioners were paying an interim tariff of Rs.3.63/Unit (Fixed Cost – Rs.1.02/Unit; Variable Cost – Rs.2.61/Unit) to SDSTPS-I. However, the Honourable Commission has determined the fixed costs of SDSTPS Stage-I (2*800 MW) on 02.03.2019. Consequent to this order, the Petitioners have incurred a total fixed cost of Rs. 923 Cr and the same has been paid towards fixed cost of SDSTPS Stage-I for FY 18-19.
- b) There is an increase of Rs 555 Crs on account of Transmission Charges payable to PGCIL & the associated ULDC charges. This is mainly attributable to steep increase in Inter State Transmission Charges levied based on Point of Connection (PoC) methodology. The rate of PoC slab rate (including POC, Reliability charges and HVDC charges) applicable for drawals in AP has increased from Rs 3.70 Lakh/MW per month level as on 31st March 2018 to level Rs 4.79 Lakh/MW/Month as on 31st March 2019. The increase in POC rate has been phenomenal to the extent of 30%.
- c) Further during the year the APDISCOMs have undertaken Swap transactions from their counterparts in Northern Region. This has caused incidence of Inter State PoC charges .

4.3 Variable Costs

The Hon'ble Commission approved Rs. 2.89 per unit as the weighted average variable costs for FY 2018-19. The actual weighted average per unit variable cost is observed to be Rs 3.60 per unit and the variation is about Rs 0.71 per unit. The variation is mainly on account of increase in Fuel & transportation cost than the level approved in the Tariff Order and purchase of power from external sources to make good the shortage of power due to unavailability of fuel to the full extent as approved in the Tariff Order. Summary of source wise/plant wise variable cost is presented as below:

Table 4: Comparison of approved and actual variable costs

Source	Energy (MU)			Variable Cost (Rs. in Cr)			Per Unit Cost (Rs/Unit)		
	Approved	Actual	Variance	Approved	Actual	Variance	Approved	Actual	Variance
Total APGENCO	14,108	15,937	1,829	3,878	5,675	1,798	2.75	3.56	0.81
Total APPDCL	9,223	6,470	(2,754)	2,407	2,275	(133)	2.61	3.52	0.91
Total APGENCO Hydel	3,258	2,713	(545)	0	0	0	0.00	0.00	0.00
Total CGS	14,750	12,939	(1,811)	3,578	3,935	358	2.43	3.04	0.62
Total APGPCL	81	144	63	18	42	24	2.21	2.90	0.69
Total IPPs - Gas	2,711	3,539	828	626	881	256	2.31	2.49	0.18
Total NCE	12,623	12,772	150	6,109	6,216	107	4.84	4.87	0.03
Total IPPs - Others	4,088	3,254	(834)	961	879	(82)	2.35	2.70	0.35
Total Market	0	5,544	5,544	0	2,774	2,774		5.00	5.00
Sale of Surplus Power	0	(1,634)	(1,634)	0	(720)	(720)		4.41	4.41
Total Transmission Charges	0	0	0	0	0	0			
SDSTPS Additional Cost	0	0	0	0	269	269			
Total	60,843	61,678	835	17,576	22,227	4,651	2.89	3.60	0.71

4.4 Other Costs

Major item in other costs is the interest on pension bonds payable to APGENCO on account of discharging of pension liability and Income tax payable. The total deviation on this head is Rs 57 Crs. This amount is additionally incurred over and above the approved pension bond interest. An amount of Rs 7 Crs has been provided for Income Tax and no expenditure is incurred towards this head. The overall deviation on account of Other costs works out to Rs 50Crs.

4.5 Summary of Costs

The following table shows the summary of source wise power purchase costs borne by the Petitioners during the year FY 2018-19. (The detailed station-wise comparison of Costs is shown in Annexure-I):

Table 5: Comparison of approved and actual power purchase costs

Source	Fixed Cost (Rs. in Cr)			Variable Cost (Rs. in Cr)			Other Cost (Rs. in Cr)			Total Cost (Rs. in Cr)		
	Approved	Actual	Variance	Approved	Actual	Variance	Approved	Actual	Variance	Approved	Actual	Variance
Total APGENCO	1,986	2,176	190	3,878	5,675	1,798	815	865	50	6,679	8,716	2,037
Total APPDCL	941	147	(793)	2,407	2,275	(133)	0	0	0	3,348	2,422	(926)
Total APGENCO Hydel	475	475	0	0	0	0	0	0	0	475	475	0
Total CGS	1,777	1,604	(173)	3,578	3,935	358	0	0	0	5,355	5,539	184
Total APGPCL	4	7	4	18	42	24	0	0	0	22	49	28
Total IPPs - Gas	244	209	(35)	626	881	256	0	0	0	870	1,090	221
Total NCE	0	0	0	6,109	6,216	107	0	0	0	6,109	6,216	107
Total IPPs - Others	747	371	(376)	961	879	(82)	0	0	0	1,708	1,250	(458)
Total Market	0	0	0	0	2,774	2,774	0	0	0	0	2,774	2,774
Sale of Surplus Power	0	0	0	0	(720)	(720)	0	0	0	0	(720)	(720)
Total Transmission Charges	2,220	2,240	20	0	0	0	0	0	0	2,220	2,240	20
SDSTPS Additional Cost	0	776	776	0	269	269	0	0	0	0	1,045	1,045
Total	8,394	8,005	(389)	17,576	22,227	4,651	815	865	50	26,785	31,097	4,311

- a) As can be seen from the above table, there is an increase in power purchase costs for the Petitioners by Rs. 4311 Crs for the financial year under consideration i.e FY 2018-19.
- b) However, for the computation of true-up as per Regulation 1 of 2014 and the directions contained in the Retail Supply Tariff Order for FY 2018-19, the LT agriculture sales have to be contained at the Tariff Order approved values. The same has been carried out in the next section in order to compute the True-up for FY 2018-19.

5 True-up Computation for FY 2018-19 as per Regulations

The Petitioners have computed the true-up for FY 2018-19, as per Andhra Pradesh Electricity Regulatory Commission (Terms and Conditions for Determination of Tariff for Wheeling and Retail Sale of Electricity) First Amendment Regulation, 2014.

As per the said regulation,

"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 saving) in the ARR as special item with relevant details. To arrive at the power purchase cost variation, the least of the following quantity is to be considered:

- iii) Actual power purchase quantity procured by the Discoms for its consumers
- iv) Power purchase quantity computed based on actual sales except LT Agriculture sales. LT Agriculture 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."

Allowable Power Purchase Quantum for True-Up Calculations:

The Petitioners have used the above methodology to compute the allowable power purchase quantity as per the following table:

Table 6: Allowable power purchase as per True-up Regulation

Formula	Particulars	UoM	FY 2018-19		
			APEPDCL	APSPDCL	State
(1)	Approved Sales	MU	19470	34922	54392
(2)	Actual Sales	MU	19,678	34,889	54567
(3)	Agricultural Sales - Approved	MU	2,090	8,742	10832
(4)	Agricultural Sales - Actual	MU	2,180	9,831	12010
(5) = (2) - (4) + (3)	Allowable Sales for True-Up	MU	19,589	33,800	53,389
(6)	Approved Losses	%	9.55%	11.18%	10.60%
(7) = (5)/(1-(6))	Revised Power Purchase	MU	21,657	38,055	59,711
(8)	Actual Power Purchase	MU	22,408	39,269	61,678
(9) = min((6),(7))	Allowable Power Purchase for True-Up	MU	21,657	38,055	59,711
(10)	Allowable Power Purchase Ratio	%	36.27%	63.73%	100.00%

The aggregate of the differences between the approved and actual values of fixed costs, variable costs (as computed using the allowable power purchase quantum), and other expenses gives the regulatory True-up for FY 2018-19. The following table shows the summary of the computation of True-up for the state.

Table 7: Allowable power purchase as per True-up Regulation

Source	Fixed Cost (Rs. in Cr)			Variable Cost (Rs. in Cr)			Other Cost (Rs. in Cr)			Total Cost (Rs. in Cr)		
	Approved	Actual	Variance	Approved	Actual	Variance	Approved	Actual	Variance	Approved	Actual	Variance
Total APGENCO	1,986.00	2,175.64	189.64	3,877.88	5,675.48	1,797.60	814.92	864.79	49.87	6,678.80	8,715.91	2,037.11
Total APPDCL	940.78	147.49	(793.29)	2,407.28	2,274.61	(132.67)	0.00	0.00	0.00	3,348.06	2,422.10	(925.96)
Total APGENCO Hydel	475.26	475.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	475.26	475.26	0.00
Total CGS	1,777.31	1,603.97	(173.34)	3,577.50	3,935.29	357.79	0.00	0.00	0.00	5,354.81	5,539.26	184.45
Total APGPCL	3.61	7.46	3.85	18.01	41.76	23.75	0.00	0.00	0.00	21.62	49.22	27.60
Total IPPs - Gas	244.15	209.03	(35.12)	625.69	881.44	255.75	0.00	0.00	0.00	869.84	1,090.47	220.63
Total NCE	0.00	0.00	0.00	6,108.84	6,216.01	107.17	0.00	0.00	0.00	6,108.84	6,216.01	107.17
Total IPPs - Others	746.82	370.57	(376.25)	961.23	879.19	(82.04)	0.00	0.00	0.00	1,708.05	1,249.76	(458.29)
Total Market	0.00	0.00	0.00	0.00	2,452.05	2,452.05	0.00	0.00	0.00	0.00	2,452.05	2,452.05
Sale of Surplus Power	0.00	0.00	0.00	0.00	(719.91)	(719.91)	0.00	0.00	0.00	0.00	(719.91)	(719.91)
Total Transmission Charges	2,219.85	2,239.64	19.79	0.00	0.00	0.00	0.00	0.00	0.00	2,219.85	2,239.64	19.79
SDSTPS Additional Cost	0.00	775.63	775.63	0.00	269.37	269.37	0.00	0.00	0.00	0.00	1,045.00	1,045.00
Total	8,393.78	8,004.68	(389.10)	17,576.43	21,905.28	4,328.85	814.92	864.79	49.87	26,785.13	30,774.74	3,989.61

Thus, the required power purchase cost True-up for FY 2018-19 is Rs. 3989.61 Crs. The detailed source wise computation of true-up is shown in the Annexure-II.

6 Revenue True-Up / (True-down) :

The Honorable Commission approves tariff and non-tariff income for the Retail Supply Business in its Retail Supply Tariff Order for every financial year. However, tariff and non-tariff income approved by the Hon'ble Commission is different from the actual revenue realized. If the actual revenue realized is lower than the approved revenue, the Petitioners incur losses. Hence, the Petitioners request the Hon'ble Commission to consider true-up/true-down for the revenue also.

Further, the Petitioners have written to a letter (Lr.No.CGM/Opn/SPDCL/TPT/RAC/F.Regn.4/D.No.12/16 dated 15-01-2017) to the Hon'ble Commission seeking amendment to the Regulation 4 of 2005 (seeking allowing variation of agricultural sales, allowing deviation in technical losses, allowing revenue true-up etc.)

The revenue true-up / (True-down) for the FY 18-19 is shown below.

Table 8: Comparison of approved and actual power purchase costs as per True-up Regulations

Revenue True-up for 2018-19 (Rs. In Cr)				
S.No	Particulars	EPDCL	SPDCL	State
A	Approved Tariff and Non-Tariff Revenue (Without Subsidy)	10,288.91	15,663.79	25,952.70
B	Actual Tariff and Non-Tariff Revenue (Without Subsidy)	10,362.51	15,703.07	26,065.58
C = A - B	Revenue True-Up / (True-down)	(73.60)	(39.28)	(112.88)

7 Total True-Up Claim:

Final true-up considering the expense true-up and revenue true-up is shown in the following table. Carrying cost for the true-up is calculated considering a working capital interest rate of 12% (As per CERC Tariff Regulation for Generating Stations for the Control period FY 19-20 to FY 23-24, the interest on working capital loans is SBI MCLR + 3.50%).

Table 9: Comparison of approved and actual power purchase costs as per True-up Regulations

Total True-up for 18-19 (Rs. In Cr)				
S.No	Particulars	EPDCL	SPDCL	State
A	Expense True-up	1446.99	2542.62	3989.61
B	Revenue True-up / (True-down)	(73.60)	(39.28)	(112.88)
C	Total	1373.39	2503.34	3876.74
D	Carrying Cost @ 12% interest Rate (for one year)	164.81	300.40	465.21
E	Total true-up	1538.20	2803.75	4341.95

Note: Considering FY 2020-21 as the year of approval.

The Petitioners also request the Hon'ble Commission to take into consideration the carrying cost to be incurred by the licensee in the future till the complete true-up mentioned above is recovered.

8 Prayer

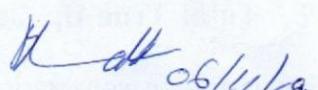
The Petitioners humbly pray that the Honourable Commission may:

- a) Approve the true-up on account of Power Purchase Cost variations and revenue for the Retail Supply Business for FY 2018-19.
- b) To approve the total true-up required for FY 2018-19 pertaining to the Retail Supply Business of AP DISCOMs for Rs. 4341.95 Crs.
- c) To pass such order as the Honorable Commission may deem fit and proper in the facts and circumstances explained above.

**SOUTHERN POWER DISTRIBUTION COMPANY OF ANDHRA PRADESH LIMITED
EASTERN POWER DISTRIBUTION COMPANY OF ANDHRA PRADESH LIMITED**

(Petitioners)

Through


06/11/19
**Chief General Manager/RAC
APSPDCL: Tirupathi**

Place: Tirupathi
Date: 6 -11-2019

Annexure-1

Station No	Station	Energy Purchased						Cost Components (Rs.C)										Cost Variance Claim (Rs.C)						
		Installed Capacity (MW)		A.P Share (%)	A.P Share (MW)		Tariff Order	Fixed		Variable		Incentive	Income Tax	Others	Total	Fixed		Variable		Incentive	Income Tax	Others	Total	
		Tariff Order	Actual		Tariff Order	Actual		Tariff Order	Actual	Tariff Order	Actual					Tariff Order	Actual	Variance	Variance					
APGENCO																								
1	Dr-NITPS - I, II, III	1250	46.11%	580.99	7,028.44	6,911.88	649.35	692.66	1,876.59	2,417.97	0.00	2.45	298.66	319.54	2,827.05	3,430.17	43.31	541.38	0.00	(2.45)	20.88	603.12		
2	Dr-NITPS - IV	500	46.11%	230.55	3,038.63	2,955.72	415.17	442.85	732.31	911.21	0.00	0.97	118.52	126.80	1,266.97	1,480.86	27.68	178.90	0.00	(0.97)	8.29	213.89		
3	RITP -I	420	46.11%	193.66	2,714.47	2,065.36	241.26	275.72	538.34	821.14	0.00	0.82	99.55	106.51	879.97	1,203.37	34.46	282.80	0.00	(0.82)	6.96	323.40		
4	RITP -II	420	46.11%	193.66	1,065.34	1,956.79	353.72	404.25	334.52	774.43	0.00	0.82	99.55	106.51	788.61	1,285.19	50.53	439.91	0.00	(0.82)	6.96	496.58		
5	RITP -III	210	46.11%	96.83	435.16	921.01	235.60	269.26	366.34	1,361.13	0.00	0.41	49.78	53.26	422.43	688.65	33.66	229.49	0.00	(0.41)	3.48	266.22		
6	RITP -IV	600	46.11%	276.66	826.37	1,126.25	90.90	90.90	259.48	384.60	0.00	1.17	142.22	152.16	493.77	627.66	0.00	125.12	0.00	(1.17)	9.94	133.90		
Total APGENCO		1572.35	141,108.41	15,937.00	1,986.00	2,175.64	3,877.58	5,675.48	0.00	0.00	6.64	0.00	808.28	864.79	6,678.80	8,715.91	189.64	1,797.60	0.00	(6.64)	56.51	2,037.11		
APPDCL																								
7	SDSP Stage-I & II	1600	100%	160.00	9,223.28	6,469.54	940.78	147.49	2,407.28	2,274.61	0.00	0.00	0.00	0.00	0.00	0.00	3,348.06	2,422.10	(793.29)	(132.67)	0.00	0.00	0.00	(925.96)
Total APPDCL					9,223.28	6,469.54	940.78	147.49	2,407.28	2,274.61	0.00	0.00	0.00	0.00	0.00	0.00	3,348.06	2,422.10	(793.29)	(132.67)	0.00	0.00	0.00	(925.96)
APGENCO Hydel																								
8	MACHKUND PH/AP Share	84	46.11%	38.73	338.00	297.77	31.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.89	31.89	0.00	0.00	0.00	0.00	0.00	0.00	
9	TUNGBHADRA PH/AP Share	57.6	46.11%	26.56	130.00	112.59	21.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.87	21.87	0.00	0.00	0.00	0.00	0.00	0.00	
10	Upper Sienu Power House	240	100%	240.00	430.00	462.42	57.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57.45	57.45	0.00	0.00	0.00	0.00	0.00	0.00	
11	Lower Sienu Power House	460	100%	460.00	1,080.00	1,075.17	110.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	110.11	110.11	(0.00)	0.00	0.00	0.00	0.00	0.00	
12	DONKARAYI	25	100%	100.00	76.61	5.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.98	5.98	(0.00)	0.00	0.00	0.00	0.00	0.00	
13	Srisailam Right Bank Tower	770	100%	770.00	992.00	536.38	170.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	170.52	170.52	0.00	0.00	0.00	0.00	0.00	0.00	
14	Ramagiri Wind Mills	0	100%	0.00	(0.00)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
15	Nagaparnasagar Right Bank	90	100%	90.00	85.00	99.97	17.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.85	17.85	0.00	0.00	0.00	0.00	0.00	0.00	
16	Penna Ahobilam	20	100%	20.00	7.00	1.19	10.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.55	10.55	0.00	0.00	0.00	0.00	0.00	0.00	
17	MNH HYDEL (Chettipet)	1	100%	3.00	2.29	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.78	0.78	0.00	0.00	0.00	0.00	0.00	0.00	
18	Nagaparnasagar Tail Pond Dam	50	100%	103.00	48.40	48.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	48.25	48.25	0.00	0.00	0.00	0.00	0.00	0.00	
Total APGENCO Hydel					3,258.00	2,712.40	475.25	475.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	475.25	475.25	0.00	0.00	0.00	0.00	0.00	0.00	
CGS																								
19	NTPC (SR)-Ramagundam	2100	14.92%	313.24	1,065.48	1,766.92	126.63	161.18	367.43	444.77	0.00	0.00	0.00	0.00	0.00	0.00	496.06	605.95	32.55	77.34	0.00	0.00	0.00	109.89
20	NTPC (SR)-Ramagundam Stage	500	15.70%	78.48	393.88	442.15	34.34	42.77	84.68	108.70	0.00	0.00	0.00	0.00	0.00	0.00	119.02	151.47	8.43	24.02	0.00	0.00	0.00	32.45
21	Talcher Stage 2	2000	9.22%	184.40	1,250.18	1,117.76	83.27	98.24	173.05	190.05	0.00	0.00	0.00	0.00	0.00	0.00	257.04	288.29	14.97	16.28	0.00	0.00	0.00	31.18
22	NLCT-II Stage-I	630	8.49%	53.49	183.07	268.20	21.94	25.69	52.73	69.16	0.00	0.00	0.00	0.00	0.00	0.00	74.67	94.85	3.75	16.43	0.00	0.00	0.00	20.18
23	NLCT-II Stage-II	840	11.20%	94.08	348.34	504.49	41.15	45.07	100.32	130.13	0.00	0.00	0.00	0.00	0.00	0.00	141.47	175.20	3.92	29.81	0.00	0.00	0.00	33.73
24	NPC-MAFS	420	4.83%	20.29	100.01	47.62	0.00	0.00	22.30	13.30	0.00	0.00	0.00	0.00	0.00	0.00	22.30	13.30	0.00	(9.00)	0.00	0.00	0.00	(9.00)
25	NPC-Kaga unit I&II	420	14.93%	62.71	354.74	570.86	0.00	0.00	114.25	214.27	0.00	0.00	0.00	0.00	0.00	0.00	114.23	214.27	0.00	100.04	0.00	0.00	0.00	100.04
26	NTPC-Simhadri Stage I	1000	46.11%	461.10	2,946.35	2,585.99	309.48	528.50	669.02	768.16	0.00	0.00	0.00	0.00	0.00	0.00	978.50	1,296.66	219.02	99.14	0.00	0.00	0.00	318.16
27	NTPC-Simhadri Stage II	212.10	21.21%	913.70	895.88	201.89	256.07	244.87	267.74	0.00	0.00	0.00	0.00	0.00	0.00	446.76	523.82	54.18	22.87	0.00	0.00	0.00	77.06	
28	Bundled power under VNNSM	70	0.00%	4,773.30	3,067.80	486.06	0.00	1,169.84	1,144.24	0.00	0.00	0.00	0.00	0.00	0.00	1,655.90	1,144.24	(486.06)	(62.60)	0.00	0.00	0.00	(511.66)	
29	Vallur Thermal Power Plant	1500	6.79%	101.85	791.63	336.28	140.84	117.83	174.16	111.75	0.00	0.00	0.00	0.00	0.00	0.00	315.00	229.58	(23.01)	(62.41)	0.00	0.00	0.00	(85.42)
30	Kudligi	2400	8.35%	200.32	52.40	161.84	188.59	187.30	0.00	0.00	0.00	0.00	0.00	0.00	198.99	375.89	265.75	150.15	0.00	0.00	0.00	176.90		
31	Neveli New TPS	1000	11.76%	117.60	971.01	563.36	152.92	140.03	232.07	178.58	0.00	0.00	0.00	0.00	0.00	0.00	32.03	0.00	(14.95)	(17.08)	0.00	0.00	0.00	(32.03)
32	Tuticorni																							
33	Total CGS				14,750.04	12,999.38	1,777.31	1,603.97	3,577.50	3,935.29	0.00	0.00	0.00	0.00	0.00	0.00	5,354.81	5,539.26	(173.34)	357.79	0.00	0.00	0.00	184.45
APGCL																								
34	APGCL I - Allocated capacity	100	9.33%	9.33	19.44	31.32	0.95	2.29	4.69	9.97	0.00	0.00	0.00	0.00	0.00	0.00	5.64	12.27	1.34	5.28	0.00	0.00	0.00	6.63
35	APGCL II - Allocated capacity	172	14.51%	24.96	61.97	112.75	2.66	5.16	13.32	31.79	0.00	0.00	0.00	0.00	0.00	0.00	15.98	36.95	2.50	18.47	0.00	0.00	0.00	20.97
Total APGCL					14,750.04	12,999.38	1,777.31	1,603.97	3,577.50	3,935.29	0.00	0.00	0.00	0.00	0.00	0.00	5,354.81	5,539.26	(173.34)	357.79	0.00	0.00	0.00	27.60

Station No	Station	Installed Capacity (MW)	AP Share (%)	AF Share (MW)	Energy Purchased				Cost Components (Rs Cr)										
					Fixed		Variable		Incentive		Income Tax		Others		Total				
					Tariff Order	Actual	Tariff Order	Actual	Tariff Order	Actual	Tariff Order	Actual	Tariff Order	Actual	Variance	Variance	Variance		
IPPs - Gas		205	46%	94.61	697.41	1,109.62	64.16	64.16	166.68	266.44	0.00	0.00	230.84	330.60	0.00	99.76	0.00		
36 Spectrum																			
37 Kondapalli (Gas)		362	46%	166.88	1,230.12	1,633.02	118.09	118.09	286.62	386.54	0.00	0.00	404.71	504.63	(0.00)	99.92	0.00		
38 CGPP		217	100%	216.82	783.60	796.53	61.90	26.78	172.39	228.46	0.00	0.00	234.29	255.12	56.07	0.00	0.00		
Total IPPs - Gas																			
NCE																			
39 NCE - Bio-Mass		145		350.00	172.32	0.00	0.00	245.00	107.83	0.00	0.00	245.00	107.83	0.00	(137.17)	0.00	0.00		
40 NCE - Bagasse		105		75.08	46.60	0.00	0.00	36.11	15.87	0.00	0.00	36.11	15.87	0.00	(20.24)	0.00	0.00		
NCE - Industrial Waste-based power project		22																	
41 NCE - Wind Power		4811		30.45	23.92	0.00	0.00	20.85	14.78	0.00	0.00	20.85	14.78	0.00	(6.07)	0.00	0.00		
42 NCE - Mini Hydel		46		7,808.58	7,825.19	0.00	0.00	3,623.18	3,481.02	0.00	0.00	3,623.18	3,481.02	0.00	(142.16)	0.00	0.00		
43 NCE - NCL Energy Ltd		8		105.05	95.18	0.00	0.00	28.57	36.31	0.00	0.00	28.57	36.31	0.00	7.74	0.00	0.00		
44 NCE - Solar		2701		13.60	0.00	0.00	0.00	2.46	0.00	0.00	0.00	2.46	0.00	0.00	(2.46)	0.00	0.00		
Total NCE																			
IPPs - Others																			
46 SriSattra (Exclusive EPDCL)		17,202	100.00%	17.20	30.80	1.77		9.91	0.00			0.00	11.68	1.77	9.91	0.00	0.00	11.68	
47 KSK Mahanadi (MT)		400	100.00%	400.00	2,500.01	800.20	446.76	85.88	650.00	208.05	0.00	1,096.76	293.93	(360.88)	(441.95)	0.00	0.00	(802.83)	
48 Hindujia		1040	100.00%	1040.00				887.53	0.00	339.04	0.00	0.00	339.04	0.00	339.04	0.00	0.00	339.04	
49 Thermal Power Tech		500	46.11%	231	1,587.92	0.00	300.06	311.23	0.00	0.00	611.29	0.00	(300.06)	(311.23)	0.00	0.00	0.00	(611.29)	
50 Sembcorp Energy India Ltd (SEIL) Energy Charges																			
Total IPPs - Others																			
Market																			
51 UI																			
52 Other Short Term Sources																			
53 Swapping Energy																			
54 Reactive Charges																			
Total Market																			
55 Sale of Surplus Power																			
Transmission Charges																			
56 AFTRANSCO Transmission Charge																			
57 SLDC Charges																			
58 PGCL Expenses																			
59 ULDC Charges																			
Total Transmission Charges																			
60 SDSTPS Additional Cost																			
Total		60,542.79	61,677.69	8,393.78	8,004.68	17,576.43	22,227.06	0.00	6.64	0.00	808.28	864.79	26,785.13	31,094.53	(389.10)	4,650.63	0.00	(6.64)	56.51

Annexure-I

Station No	Station	Installed Capacity (MW)	AP Share (%)	Cost Components (Rs.Cr)												Total Variance		
				Energy Purchased (MU)				Variable				Income Tax						
				Tariff Order	Actual	Tariff Order	Actual	Tariff Order	Actual	Tariff Order	Actual	Tariff Order	Actual	Tariff Order	Actual	Variance		
IPPs - Gas				94.61	1,109.62	64.16	166.68	266.44	0.00	0.00	0.00	230.84	330.60	0.00	99.76	0.00		
36 Spectrum	205	46%	94.61	1,230.12	1,633.02	118.09	118.09	286.54	0.00	0.00	0.00	404.71	504.63	(0.00)	99.92	0.00		
37 Kanrapalli (Gas)	362	46%	166.88	796.53	61.90	26.78	172.39	228.46	0.00	0.00	0.00	234.29	255.24	(35.12)	56.07	0.00		
38 GGRP	217	100%	216.82	783.60	244.15	209.03	625.69	881.44	0.00	0.00	0.00	889.84	1,060.47	(35.12)	285.75	0.00		
Total IPPs - Gas																220.63		
NCE																		
39 NCE - Bio-Mass	145		350.00	172.32	0.00	245.00	107.83	0.00	0.00	0.00	245.00	107.83	0.00	0.00	0.00	(137.17)		
40 NCE - Bagasse	105		75.08	46.60	0.00	0.00	36.11	15.87	0.00	0.00	0.00	36.11	15.87	0.00	0.00	0.00	(20.24)	
NCE - Industrial Waste based																	(20.24)	
41 power project	2		30.45	23.92	0.00	0.00	20.85	14.78	0.00	0.00	0.00	20.85	14.78	0.00	0.00	0.00	(6.07)	
42 NCE - Wind Power	4811		7,808.58	7,825.19	0.00	0.00	3,623.18	3,481.02	0.00	0.00	0.00	3,623.18	3,481.02	0.00	0.00	0.00	(142.16)	
43 NCE - Mini Hydel	46		105.05	95.18	0.00	0.00	28.57	36.31	0.00	0.00	0.00	28.57	36.31	0.00	7.74	0.00	7.74	
44 NCE - NCL Energy Ltd	8		13.60	0.00	0.00	2.46	0.00	0.00	0.00	0.00	0.00	2.46	0.00	0.00	0.00	0.00	(2.46)	
45 NCE - Solar	2701		4,239.33	4,608.99	0.00	0.00	2,152.67	2,560.19	0.00	0.00	0.00	2,152.67	2,560.19	0.00	407.52	0.00	407.52	
Total NCE			12,632.59	12,772.20	0.00	0.00	6,108.84	6,216.01	0.00	0.00	0.00	6,108.84	6,216.01	0.00	107.17	0.00	107.17	
IPPs - Others																		
46 Srivathsava (Exclusive EPDCL)	17	100.00%	17.20	0.00	30.80	0.00	1.77	0.00	9.91	0.00	0.00	0.00	11.68	1.77	9.91	0.00	0.00	11.68
47 KSK Mahanadi (MT)	400	100.00%	2,500.01	800.20	446.76	85.88	650.00	208.05	0.00	0.00	0.00	1,096.76	293.93	(360.88)	(441.95)	0.00	0.00	(802.83)
48 Hinduja	1040	100.00%	1040.00	0.00	887.53	0.00	0.00	0.00	339.04	0.00	0.00	0.00	339.04	0.00	0.00	0.00	0.00	339.04
49 Thermal Power Tech	500	46.11%	231	1,587.92	0.00	300.06	0.00	311.23	0.00	0.00	0.00	611.29	0.00	(300.06)	(311.23)	0.00	0.00	(611.29)
Sembcorp Energy India Ltd (SEIL) Energy Charges	0		0.00	282.91	0.00	322.20	0.00	0.00	0.00	0.00	0.00	605.11	282.91	322.20	0.00	0.00	605.11	
Total IPPs - Others			4,087.93	1,718.53	746.82	370.57	961.23	879.19	0.00	0.00	0.00	1,708.05	1,249.76	(376.25)	(62.04)	0.00	0.00	(456.29)
Market																		
51 UI	0		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
52 Other Short Term Sources	0		0.00	1,817.42	0.00	0.00	1,207.07	0.00	0.00	0.00	0.00	1,207.07	0.00	0.00	0.00	0.00	1,207.07	
53 Swapping Energy	0		0.00	3,295.27	0.00	0.00	1,244.97	0.00	0.00	0.00	0.00	1,244.97	0.00	0.00	0.00	0.00	1,244.97	
54 Reactive Changes	0		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total Market			0.00	5,112.69	0.00	0.00	2,452.05	0.00	0.00	0.00	0.00	2,452.05	0.00	2,452.05	0.00	0.00	2,452.05	
55 Sale of Surplus Power			0.00	(1,554.13)	0.00	0.00	(719.91)	0.00	0.00	0.00	0.00	(719.91)	0.00	(719.91)	0.00	0.00	(719.91)	
Transmission Charges																		
56 APTRANSCO Transmission Charge			0.00	1,197.00	1,377.59	0.00	0.00	0.00	0.00	0.00	1,197.00	1,377.59	180.59	0.00	0.00	0.00	0.00	180.59
57 SLDC Charges			0.00	40.41	0.00	0.00	0.00	0.00	0.00	0.00	40.41	0.00	0.00	0.00	0.00	0.00	0.00	
58 PGCL Expenses			0.00	966.12	821.06	0.00	0.00	0.00	0.00	0.00	966.12	821.06	(145.06)	0.00	0.00	0.00	0.00	(145.06)
59 ULDC Charges			0.00	16.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.32	0.00	(15.74)	0.00	0.00	0.00	(15.74)
Total Transmission Charges			0.00	2,219.85	2,236.64	0.00	0.00	0.00	0.00	0.00	0.00	2,219.85	2,236.64	19.79	0.00	0.00	0.00	19.79
60 SDSTPS Additional Cost			59,711.33	8,393.78	8,394.68	17,576.43	21,905.28	0.00	0.00	0.00	0.00	1,045.00	775.63	269.37	0.00	0.00	0.00	1,045.00
Total			60,842.79									644.79	26,785.13	4,326.85	0.00	0.00	0.00	4,326.85