

**PETITION BY DISCOM  
BEFORE THE  
ANDHRA PRADESH ELECTRICITY REGULATORY COMMISSION  
FOR THE STATE OF ANDHRA PRADESH**

FILE NO:

RA No. 20/2017 in OP No. 1/2016  
Petition No. /2017

**IN THE MATTER OF:**

Seeking approval of the Honourable Commission for additional units of supply to agriculture over and above the Tariff Order approved quantity due to extension of supply to agriculture over and above the stipulated 7 Hrs. supply and other factors in the jurisdiction of Eastern Power Distribution Company of Andhra Pradesh Limited in the state of Andhra Pradesh during FY 2016-17.

**AND**

**IN THE MATTER OF:**

**Eastern Power Distribution Company of A.P Limited (APEPDCL)**

- Petitioner

- 1) **Government of Andhra Pradesh represented by Chief Secretary, Velagapudi, Amaravathi, A.P.**
- 2) **Southern Power Distribution Company of A.P Limited Represented by its Chairman & Managing Director, Seethammadhara, Visakhapatnam, A.P.**

- Respondents

**Affidavit**

I, G. Sarath Kumar, Son of Sri G.Rama Murthy, aged about 56 years, residing at Visakhapatnam, the deponent named above do hereby solemnly affirm and state on oath as under:-

1. That the deponent is the Chief General Manager, Planning ,PPA & RA of Eastern Power Distribution Company of AP duly authorized by APEPDCL to make this affidavit on its behalf and the deponent is acquainted with the facts deposed below,

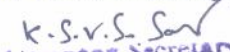
2. I, G. Sarath Kumar, the deponent named above do hereby verify that the contents of the affidavit and those of the accompanying petition are true to my personal knowledge and verify that no part of this affidavit is false and nothing material has been concealed.

  
**DEPONENT**  
Chief General Manager  
Planning, FPA & RA  
A.P.E.P.D.C. LTD.  
VISAKHAPATNAM-530 013

**VERIFICATION:**

I, the above named Deponent solemnly affirm at Visakhapatnam on this 26<sup>th</sup> day of August, 2017 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.

Solemnly affirmed and signed before me.

  
Company Secretary  
**CORPORATE OFFICE**  
Eastern Power Distribution  
Company of A.P. Ltd.,  
VISAKHAPATNAM

  
**DEPONENT**  
Chief General Manager  
Planning, PPA & RA  
A.P.E.P.D.C. LTD.  
VISAKHAPATNAM-530 013

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- 1) **Government of Andhra Pradesh represented by Chief Secretary, Velagapudi, Amaravathi, A.P.**
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- Respondents

**MOST RESPECTFULLY SHOWETH THE SUBMISSION:**

**The APEPDCL humbly submits the following:**

It is submitted that, the sales to agricultural proposed the ARR and approved in the Tariff Order for FY 2016-17 is based on the historical sales. The actual sales to this category is primarily dependent on the climatic conditions. Due to low rainfall during the year, the water level falling down resulting in more working hours of the pumpsets by individual farmers in most of the areas of the licensee's jurisdiction (within the stipulated 7 Hrs. supply). In spite of strict implementation of agricultural supply timings (7Hrs. duration per day), the agricultural sales volume has been increased considerably. Thus it is

submitted, the licensee have no control over the agricultural sales in the circumstances explained.

Further, the GoAP have directed the DISCOM to extend supply to agriculture in excess of stipulated 7 Hrs. a day to save the crops being dried up at various places in the state. Accordingly, supply was extended to agriculture for additional hours in Srikakulam, East Godavari and West Godavari districts. The consequent additional sales to agriculture has been estimated (11KV feeder wise data obtained and estimated the additional sales) and submitted hereunder.

**Table : Addl. Sales volume due to extension of supply to agriculture for additional hours in excess of stipulated 7 hours a day during the months of Aug'2016 to Oct'2016**

| Circle        | No.of 11KV feeders | No.of Addl. Hours per day | Period     |            | Addl. Agl. Sales volume in MU |
|---------------|--------------------|---------------------------|------------|------------|-------------------------------|
|               |                    |                           | From       | To         |                               |
| Srikakulam    | 173                | 2 Hrs.                    | 27.08.2016 | 31.10.2016 | 3.60                          |
| Vizainagaram  | 140                | 0                         | 27.08.2016 | 31.10.2016 | 0                             |
| Visakhapatnam | 150                | 0                         | 27.08.2016 | 31.10.2016 | 0                             |
| Rajahmundry   | 286                | 2 Hrs                     | 27.08.2016 | 31.10.2016 | 15.95                         |
| Eluru         | 542                | 3 Hrs                     | 27.08.2016 | 31.10.2016 | 55.48                         |
| <b>Total</b>  |                    |                           |            |            | <b>75.03</b>                  |

The overall actual sales to LT Agriculture Consumers during FY 2016-17 is estimated to be 2399.41 MU, which is in excess by 118.25 MU as against the approved quantity of 2281.16 MU.

The major reason for such huge increase is due to extension of supply beyond stipulated 7 Hrs. per day as directed by GoAP in order to save the crops due to acute rainfall and low water table at certain areas of the licensee's jurisdiction. The reasons are submitted below:

- a) Extending supply beyond stipulated 7 Hrs a day to save the crops due to acute rainfall at certain areas in all the eight districts of the licensee's jurisdiction, as per the directions of the GoAP.
- b) Acute lack of rainfall in most of the areas of the licensee's jurisdiction resulting in deep ground water tables.

The licensee have requested the GoAP for providing additional subsidy towards additional sales to agriculture for extending supply beyond stipulated 7 Hrs. a day to save the crops due to acute rainfall at certain areas of the licensee's jurisdiction, as per its directions. The GoAP directed the licensee to submit a petition to Honourable Commission with regard to additional subsidy requirement for the additional sales to agriculture due to extension of additional hours of supply beyond 7 Hrs. seeking approval of the Honourable Commission. The licensee have submitted to the Honourable Commission seeking approval for additional subsidy towards the additional sales to agriculture due to extension of additional hours of supply beyond 7 Hrs. The Honourable Commission have informed the licensee vide Lr.No.APERC/Secy/ Dir (Tariff) / F:28/ 2017, dated 17-01-2017 to file a detailed application with the Honourable Commission in appropriate form in accordance with prescribed procedure with necessary information and data in support of the licensees request.

The actual and approved sales (with excess quantities) to LT agricultural consumers during FY 2016-17 are herewith submitted.

| Actuals Agricultural Sales for FY 2016-17 in MU |  |               |               |               |               |               |               |               |               |               |               |               |               |                |
|---|--|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
| Sl. No.   | Circle                                     | Apr-16        | May-16        | Jun-16        | Jul-16        | Aug-16        | Sep-16        | Oct-16        | Nov-16        | Dec-16        | Jan-17        | Feb-17        | Mar-17        | TOTAL          |
| 1   | Srikakulam                                 | 6.20          | 8.01          | 8.11          | 8.00          | 12.00         | 5.00          | 10.00         | 4.21          | 8.00          | 8.00          | 4.00          | 33.00         | 114.53         |
| 2   | Vizianagaram                               | 9.10          | 6.98          | 7.89          | 2.97          | 7.05          | 9.00          | 8.81          | 5.51          | 8.00          | 8.00          | 4.50          | 28.00         | 105.82         |
| 3   | Visakhapatnam                              | 7.34          | 9.27          | 6.63          | 8.77          | 11.13         | 9.00          | 7.16          | 10.19         | 18.00         | 12.00         | 5.00          | 32.00         | 136.49         |
| 4   | Rajahmundry                                | 60.25         | 42.29         | 44.29         | 34.93         | 56.40         | 29.00         | 41.96         | 43.16         | 44.00         | 47.06         | 52.00         | 75.00         | 570.34         |
| 5   | Eluru                                      | 136.00        | 106.50        | 77.49         | 80.00         | 150.00        | 65.00         | 119.47        | 100.77        | 145.00        | 145.00        | 119.00        | 228.00        | 1472.22        |
| 6   | <b>TOTAL :</b>                             | <b>218.89</b> | <b>173.05</b> | <b>144.41</b> | <b>134.67</b> | <b>236.58</b> | <b>117.00</b> | <b>187.40</b> | <b>163.85</b> | <b>223.00</b> | <b>220.06</b> | <b>184.50</b> | <b>396.00</b> | <b>2399.41</b> |
| 7   | Approved as per Tariff Order for FY2016-17 | 194.51        | 191.08        | 133.71        | 200.29        | 192.87        | 146.91        | 159.57        | 165.51        | 173.02        | 191.03        | 221.37        | 311.28        | 2281.16        |
| 8   | Excess quantity                            | 24.38         | -18.03        | 10.70         | -65.62        | 43.71         | -29.91        | 27.83         | -1.67         | 49.98         | 29.03         | -36.87        | 84.72         | 118.25         |

The additional sales were grossed up with actual transmission and distribution losses to get the additional power purchase required to cater to this additional sale to agricultural. The additional subsidy requirement, therefore is the cost of the additional power procured at the rate of the variable cost of the marginal generating station. The computation of the same is shown below:


| Particulars                                       | Apr-16 | May-16  | Jun-16 | Jul-16  | Aug-16 | Sep-16  | Oct-16 | Nov-16 | Dec-16 | Jan-17 | Feb-17  | Mar-17 | Total         |
|---|--------|---------|--------|---------|--------|---------|--------|--------|--------|--------|---------|--------|---------------|
| Excess Quantity (MU)                              | 24.38  | (18.03) | 10.70  | (65.62) | 43.71  | (29.91) | 27.83  | (1.67) | 49.98  | 29.03  | (36.87) | 84.72  | <b>118.25</b> |
| Approved LT lossess                               | 4.74%  | 4.74%   | 4.74%  | 4.74%   | 4.74%  | 4.74%   | 4.74%  | 4.74%  | 4.74%  | 4.74%  | 4.74%   | 4.74%  |               |
| Input at LT                                       | 25.54  | (18.88) | 11.21  | (68.73) | 45.78  | (31.33) | 29.15  | (1.75) | 52.35  | 30.41  | (38.62) | 88.74  | <b>123.86</b> |
| Approved 11KV lossess                             | 3.80%  | 3.80%   | 3.80%  | 3.80%   | 3.80%  | 3.80%   | 3.80%  | 3.80%  | 3.80%  | 3.80%  | 3.80%   | 3.80%  |               |
| Input at 11 KV                                    | 26.51  | (19.60) | 11.63  | (71.34) | 47.52  | (32.52) | 30.26  | (1.82) | 54.34  | 31.56  | (40.09) | 92.11  | <b>128.56</b> |
| Approved 33KV lossess                             | 3.22%  | 3.22%   | 3.22%  | 3.22%   | 3.22%  | 3.22%   | 3.22%  | 3.22%  | 3.22%  | 3.22%  | 3.22%   | 3.22%  |               |
| Input at 33 KV                                    | 27.36  | (20.23) | 12.01  | (73.64) | 49.05  | (33.57) | 31.23  | (1.87) | 56.09  | 32.58  | (41.38) | 95.07  | <b>132.70</b> |
| Approved Transmission Losses<br>(including PGCIL) | 4.14%  | 4.14%   | 4.14%  | 4.14%   | 4.14%  | 4.14%   | 4.14%  | 4.14%  | 4.14%  | 4.14%  | 4.14%   | 4.14%  |               |
| Power Procurement                                 | 28.49  | (21.07) | 12.50  | (76.69) | 51.08  | (34.95) | 32.52  | (1.95) | 58.41  | 33.93  | (43.09) | 99.01  | <b>138.20</b> |
| VC of Marginal station (Rs/kwh)                   |        |         |        |         |        |         | 4.65   |        |        |        |         |        |               |
| Subsidy (Rs.Crs)                                  | 13.25  | -9.80   | 5.81   | -35.66  | 23.75  | -16.25  | 15.12  | -0.91  | 27.16  | 15.78  | -20.04  | 46.04  | <b>64.26</b>  |

**In the above circumstances, the licensee humbly prays the honorable Commission:**

- To approve the action taken by the Discom in extending supply to agriculture in excess of stipulated hours in view of the directions of the GoAP to save the crops which are being dried up due to acute shortage of rain fall and in support of the farmers of the state,
- To approve the additional sales volume of 118.25 MU for FY 2016-17 and to issue necessary directions to GoAP to provide Rs.64.26 Crs as additional subsidy towards the cost of power purchase towards additional sales to LT agriculture over and above the approved quantity for FY 2016-17.
- To pass such order as the Honourable Commission may deem fit and proper in the facts and circumstances explained above.

**EASTERN POWER DISTRIBUTION COMPANY OF ANDHRA PRADESH LIMITED  
(APPLICANT)**

Through

  
**Chief General Manager  
Planning, PPA & RA**

**Place: Visakhapatnam**

**Date : 26.08.2017.**