



**ANDHRA PRADESH ELECTRICITY REGULATORY COMMISSION**  
**4<sup>th</sup> & 5<sup>th</sup> Floors, Singareni Bhavan, Red Hills, Hyderabad - 500004**

**Present**

Sri A.Raghotham Rao, Chairman  
Sri C.R.Sekhar Reddy, Member  
Sri R.Ashoka Chari, Member

**Dated 23-04-2013**

**ORDER**

In the matter of Determination of Fuel Surcharge Adjustment (FSA)  
for 3<sup>rd</sup> Quarter (Oct'12 - Dec'12) of FY 2012-13

Central Power Distribution Company of AP Ltd. (APCPDCL) .....OP No.16 of 2013  
Eastern Power Distribution Company of AP Ltd. (APEPDCL) .....OP No.13 of 2013  
Northern Power Distribution Company of AP Ltd. (APNPDCL) .....OP No.15 of 2013  
Southern Power Distribution Company of AP Ltd. (APSPDCL) .....OP No.14 of 2013

..... Applicants

**CHAPTER-I**

1. This matter came up for public hearing on 18-03-2013 before several consumers, the representatives of various consumer organizations & learned Counsels representing bulk consumers and associations; and having stood over for consideration till this day, the Commission passed the ORDER.
2. Under clause 45-B of Commission's Conduct of Business Regulations as amended vide Regulation No.1 of 2003 read with Section 62(4) of the Electricity Act, 2003 and Retail Supply Tariff Order for 2012-13, additional cost of fuel and power purchase costs have to be passed on to the consumers as Fuel Surcharge Adjustment (FSA) on quarterly basis as per the terms of fuel surcharge formula specified under the said regulation.
3. In pursuant to the said regulation, FSA proposals for the 3<sup>rd</sup> Quarter of financial year 2012-13 i.e. for the period from Oct'12 to Dec'12 were submitted by the 4 Nos of Distribution Licensees (Discoms) in the state, viz.,

APCPDCL, APEPDCL, APNPDCL and APSPDCL, on 28<sup>th</sup> of January , 2013 before APERC.

4. Brief details of the FSA proposals for the 3<sup>rd</sup> Quarter of FY 2012-13, submitted by the Distribution Licensees (Discoms in short) are as follows:

Particulars	APCPDCL	APEPDCL	APNPDCL	APSPDCL	Total
Proposed FSA Amount (Rs Cr)	471.91	221.41	129.01	245.94	1068.28
Non Agricultural Sales (MU)	4960.78	2317.34	1327.19	2570.24	11175.55
FSA Rate (Rs/kWh)	0.9559	0.9559	0.9559	0.9559	0.9559

5. The Discoms while submitting the claim, requested the Commission to permit the Licensee to collect FSA amounts during the 3<sup>rd</sup> Quarter of FY 2012-13 on weighted average basis of Rs 0.9559 per unit per month.
6. The said filings were taken on record and the following O.P. Nos were assigned.

Sl. No.	Discom	O.P. No.
1)	APCPDCL	16 of 2013
2)	APEPDCL	13 of 2013
3)	APNPDCL	15 of 2013
4)	APSPDCL	14 of 2013

7. The Licensees were directed by the Commission as follows-

- a) To notify their proposals for 3<sup>rd</sup> Quarter FSA for FY 2012-13 to the public in two English and two Telugu daily newspapers, having wider circulation in their area of supply, to be appeared on 05-02-2013.
- b) To notify that written objections/suggestions on the proposals of the Discoms can be submitted to the Commission Secretary, APERC, 5<sup>th</sup> Floor, Singareni Bhavan, Red Hills, Lakdi-ka-pul, Hyderabad

500 004, so as to reach by 07-03-2013 with a copy marked to the Chief General Manager/Regulatory Affairs of the concerned Discom.

- c) Further to notify that the Commission would be conducting public hearings on the matter on 18-03-2012, from 11:00 AM onwards at Court Hall of APERC, Hyderabad.
- d) To place the FSA proposals on their respective websites along with allocation statements / background calculation sheets.

**CHAPTER - II**  
**PUBLIC HEARING ON FSA CLAIMS**

8. The Public Notice, issued by the Licensees at the directions of the Commission, appeared on 05/02/2013 in the Newspapers. About 58 Nos. of Objectors (persons/organizations/consumers) filed their objections within the due date i.e. 07-03-2013.
9. During the course of public hearing, held on 18-03-2013, Sri. Ch. Venkateswarlu, M/s Salguti Industries & Others have argued that, certain consumers had filed Writ Petition for adjudication before the Hon'ble High Court for certain reliefs on the FSA formula specified in clause 45-B of Regulation No. 2 of 1999 (APERC Conduct of Business) as substituted by Regulation No. 1 of 2003, and prayed the Hon'ble Court to issue an appropriate order for, declaring the Fuel Surcharge Adjustment Formula and certain conditions mentioned in it, as void being ultra vires of the provisions of the Act(s), unreasonable, irrational and / or otherwise contrary to law. The above Writ Petition is pending for adjudication before the Honorable High Court as such, objectors had requested to adjourn the proceedings till the disposal of the above Writ Petition.
10. In response to the above objection, the DISCOMs have submitted that, there is no provision of law warranting to adjourn the approval or otherwise of FSA until final adjudication on the issue of validity or otherwise of the Regulation 45-B pending in the High Court.
11. Commission is of the opinion that, since there is no stay granted concerning the FSA Formula, on the WP filed by certain objectors, there is no warrant to adjourn the present proceedings.
12. In the following chapter, a summary of the objections, submitted both in writing & orally, by various persons/consumer associations/representative bodies/political parties/organizations/legal counsels, along with the replies arranged by the Discoms, is given. Commission, before undertaking the final

processing of the claims of the Discoms, has thoroughly examined these objections/suggestions, along with the replies submitted by the Discoms. While doing so, wherever required, Commission has indicated its views on the respective issue/issues.

13. In this context, Commission would like to place on record its appreciation to all the objectors who participated in the public hearings and furnished their well thought of views & suggestions.
14. A list of persons/consumer associations/representative bodies/political parties/organizations/legal counsels who filed objections before the Commission, is given as Annexure-B.

## CHAPTER - III

### ANALYSIS OF ISSUES ARISING FROM WRITTEN OBJECTIONS & PUBLIC HEARING

#### Issue 1

15. The proposed FSA is very high.

##### Views of Objectors

M/s. Jerome Inigo Jeram & others have stated that, the present tariff is already high i.e. Rs. 3.97/- per unit & Rs. 4.97/- per unit during peak hours. The present proposal indicates FSA of Rs. 0.96/- and is very high adding to this are the high R&C measures. We request the Honourable Commission to implement the necessary measures to minimize the overall unit cost.

##### Replies of Licensees :

The fuel surcharge amount and rate per unit was arrived at as per the FSA formula in vogue

##### Commission's views:

Commission is critically examining the claims of the Licensees for their admissibility and only after thorough verification, is determining the FSA as per the regulation in vogue.

#### Issue 2

16. FSA should be in respect of fuel cost variation only.

##### Views of Objectors

Sri. M.V. Rajeshwara Rao, M/s Marigold Apparel Industries, M/s. Anjani Spinning Mills & Others have stated that, the Electricity Act envisages and permits variation only on account of fuel cost adjustment by way of a formula. The single largest expenditure is with respect to variance in energy purchase cost. In fact, the contention is that this should be the only one cost that can be included in FSA claim irrespective of what DISCOMS have now chosen to add, which is even otherwise contentious. Variation in power purchase cost, by factors other than those arising directly out of variation in fuel cost, are not adjustable under a fuel surcharge formula Any surcharge

fixed by taking into consideration fixed costs is not valid and if it is done it is void abinito. The Act envisages and permits variation only on account of fuel cost adjustment by way of a formula. It is therefore necessary to determine the FSA only in respect of the fuel cost variations alone.

**Licensees' Response:**

Hon'ble Commission made the regulation incorporating the existing FSA formula exercising the powers conferred by sub section (2) of Section 9 and Section 54 of the Andhra Pradesh Electricity Reforms Act, 1998, Section 45(B) of APERC Conduct of Business Regulations and applicable provisions of the said Act. The formula provides for recovery/return of short/excess fixed cost.

**Commission's views:**

FSA is being levied as per the provisions of the Act and Regulations issued by the Commission enabling it in that behalf.

**Issue 3**

**17. Burden of one category is not to be passed on to another category.**

**Views of Objectors**

Sri. M. V. Rajeshwara Rao, & Others have stated that, imposing of R&C measures since September 2012, has resulted in short fall of supply to industry and also resulted in huge losses to the Discoms. In these circumstances Industrial category can not bear the burden of FSA of Agriculture category.

**Licensees' Response:**

Existing regulation provides for levy of uniform FSA on all categories except agriculture.

**Commission's Views:**

FSA is being levied as per the exiting Regulations.

## Issue 4

### 18. Increase in Variable cost of GENCO stations is more than CGS stations

#### Views of Objectors

Sri. M. V. Rajeshwara Rao, Secretary General, FAPCCI & Others have argued that, while in the case of coal based plants of central generating stations (NTPC (SR) and Simhadri) variable costs reported under FSA proposals were lower than those mentioned in the Tariff Order for the year 2012-13 but in the case of GENCO plants variable costs reported under FSA proposals were higher than those mentioned in the Tariff Order.

It is the responsibility of APERC to see that this abnormal anomaly is removed in a transparent manner, to the satisfaction of all stakeholders. We request APERC to direct DISCOMs and GENCO to make all facts public.

#### Licensees' Response:

M/s NTPC is providing combined GCV of imported and domestic coal due to their technical constraints. APGENCO provided information and details of Domestic GCV and its price, Imported GCV and its price separately including the quantity of coal used.

Firstly NTPC SR is the pit head station and cost estimate at time of determining tariff is almost in line with the actual. The variable cost of gas plants is increased due the foreign exchange rate variance now that the gas bills are paid as per the prevailing dollar rate.

The variance in variable cost with reference to Tariff Order is on account of proportionate usage of imported coal, location of plant etc.,

#### Commission's Views:

The Central Generating Stations pertaining to NTPC are under regulatory purview of CERC, in respect of determination of tariff including procurement aspects and price of Coal. However, the bills submitted by the CGS stations through DISCOMs are being prudently checked regarding the quantities of coal and GCV.



Regarding APGENCO stations, the bills submitted by APGENCO authorities through DISCOMs are being checked prudently. If there is a shortage of linkage coal, the domestic coal is procured from M/s SCCL at premium price which is a weighted average of e-procurement price. Due to this, there is variation in average price of domestic coal.

## Issue 5

### 19. Imported coal shall not lead to increase in power generation cost.

#### Views of Objectors

Sri. M.V.Rajeshwara Rao, Sri. K. Raghu & Others have pointed out that, the additional information provided by DISCOMs show that the higher price for imported coal is in commensurate with its higher GCV. For example, while cost of imported coal is Rs. 5,390 per MT and its GCV is 6,199 KCal. kg, in the case of domestic coal price is Rs. 2, 602 per MT and its GCV is 3,116 Kcal/kg. These price relations show that imported coal shall not lead to increase in cost, but in contrary, variable costs shown in the FSA proposals are very high.

#### Licensees' Response:

The variance in variable cost with reference to Tariff Order is on account of proportionate usage of imported coal, location of plant etc.,

#### Commission's Views:

Bills as submitted by DISCOMs pertaining to generation of energy by using imported coal are being verified. DISCOMs need to keep in view the points raised by the objectors. Further, in the Retail Supply Tariff Order for FY 2013-14, the DISCOMs have been directed by the Commission as follows;

DISCOMs are directed to ensure that APGENCO shall follow the recommendations of the CEA, contained in clause 7.1 of the CEA document *"Report of the Group for Studying Range of Blending of Imported Coal with Domestic Coal"* released in the month of April'12, which reads as follows:

*“About 10-15% blending of imported coal by weight (15-25% on heat value basis) can generally be carried out in typical existing Indian power boilers designed for low quality Indian coals .....”.*

Similarly, for new stations designed higher GCV coal, the CEA in its letter No.CEA/TE&TD-TT/2011/F-901-111 dated: 19-04-2011 addressed to all State Power Secretaries, Thermal Power generating companies/project developers etc, mentioned as follows:

*“Accordingly, all power generating companies, power project developers and power equipment manufacturers are hereby advised that for the purpose of design of boilers for all future indigenous coal based thermal power plants, a stipulation shall be made that the boilers (including auxiliaries) shall be designed for blend ratio by weight of 30:70 % (or higher) imported/high GCV indigenous coal.....”*

In view of above, the DISCOMs have to ensure the limit the usage of imported coal as mentioned above.

Regarding usage of imported coal in CG Stations, the DISCOMs may insist upon the CG Stations to follow the orders issued by CERC, if any, or may advise the CG Stations to follow the CEA guidelines in this regard.

## **Issue 6**

- 20. FSA on agricultural sector has to be borne by the State Govt.: but should not be passed on to other non - subsidised categories of consumers**

### **Views of Objectors**

Sri. M. V. Rajeshwara Rao, Secretary General, FAPCCI & Others have stated that, the state Government, as part of its policy, is supplying power to Agricultural sector- free of cost. Thus the State Government has to pay the distribution licensee the cost of power supplied to the agricultural sector. The provisions of Sec 65 of the Electricity Act states that if the State Govt requires the grant of the any subsidy to any consumer or class of consumers in the tariffs determined by the commission U/S 62 the state Govt shall pay

in advance the amount to the licensee. This provision is equally applicable to the FSA also.

**Licensees' Response:**

FSA is being levied as per the regulation in vogue.

**Commission's View:**

The Commission is making the FSA determination as per condition no. 1 in clause 45-B of Commission's Conduct of Business Regulations as amended vide Regulation No. 1 of 2003.

**Issue 7**

**21. Penal charges collected by the distribution licensee should be used for setting of FSA on industrial category**

**Views of Objectors**

Sri. M. V. Rajeshwara Rao, Secretary General, FAPCCI & Others have stated that, the distribution licensee are collecting penal charges from the industrial consumers who have exceeded the consumption limit of 60% of their CMD as per R & C regulations imposed by APERC by Hon'ble Commission since September 2012. We suggest that this amount collected by Discoms by way of penalty should be used for setting of FSA on industrial consumers only the balance of FSA should be collected from industry of consumers.

**Licensees' Response:**

In Tariff Order for FY 2012-13 vide Clause 213.6(8) and Clause 213.3(4) (iv) it was specified that penal charges are to be paid by a consumer for exceeding the contracted demand. Penal charges are contemplated to maintain grid discipline and equitable distribution of available power among different categories in power shortage scenario. It is intended to bring discipline but not tariff for drawl of power above contracted demand and cannot be related to FSA.

### **Commission's Views:**

Licensees' response is satisfactory.

### **Issue 8**

#### **22. Filings of the Petitioners not maintainable:**

##### **Views of Objectors**

Sri. M.R. Prasad, M/s Salguti Industries & Others have stated that, the Petitioners have filed a Writ Petition in WP No. 22086 of 2012 before the Hon'ble Andhra Pradesh High Court challenging the validity of the Condition No.4 of Clause 45-B of Regulation 2 of 1999. This being the case, the Petitioners have no authority to file the FSA Claims as the Petitioner cannot be allowed to blow hot and cold by simultaneously challenging the very Regulations enabling them to file the FSA Claims and on the other hand filing the Claims before this Hon'ble Commission.

No material is produced to evidence that the Board of Directors of these companies have authorized the filing of the Petitions. an officer of the Petitioner, without filing a duly executed power of attorney to file the impugned Petitions, as provided under the provisions of its Articles of Association of the Petitioner Companies, cannot maintain the impugned Petitions.

##### **Licensees' Response:**

The DISCOMs are registered under Companies Act but are wholly owned by the Govt. of A.P. The respective DISCOMs have already authorized the concerned the Chief General Managers to sign the pleadings and file the same in the Commission in respect of all the proceedings including the FSA proceeding time to time before the Hon'ble Commission. Therefore, the objection is unsustainable. The judgments of the Delhi High Court, AP High Court and Supreme Court are not related to the present context. As far as FSA proceedings are concerned the same has been filed as per the proceedings.

### **Commission's View:**

Commission is of the view that filing of FSA claims by authorized representatives of DISCOMs is acceptable.

### **Issue 9:**

#### **23. Regulations containing the FSA are *non est*:**

##### **Views of Objectors**

Sri. M.R. Prasad, Secretary General, AP Ferro Alloys Producers Association, has argued that, fundamental edifice and enabling provision for filing of the Fuel Surcharge Adjustment Claims (the "Claims") by the Petitioners is Regulation 45-B of the Andhra Pradesh Electricity Regulatory Commission (Conduct of Business) Regulation 2 of 1999 (the "CBR"), brought into the CBR vide Andhra Pradesh Electricity Regulatory Commission (Conduct of Business) Amendment Regulation 1 of 2003 ("CBR 2003") published in the Gazette of Andhra Pradesh dated 17th July, 2003.

This Hon'ble Commission, after its constitution under the Andhra Pradesh Electricity Reform Act, 1998 ("APR Act"), and in exercise of its regulation making power under Section 54, issued the CBR, inter-alia, providing for the manner in which it would conduct its business generally, including the manner in which, it would consult and hear persons likely to be affected by its decisions, as mandated by Section 10(7) of the APR Act. Thereafter, on 28<sup>th</sup> August, 2000, this Hon'ble Commission, made amendment to the Business Regulations, by issuing A.P. Electricity Regulatory Commission (Conduct of Business) Amendment Regulations, 2000 (Regulation No. 8/2000), introducing inter-alia Regulation 45-B in Chapter IV-A with respect to tariffs and providing for a FSA formula. Thereafter, again on 23<sup>rd</sup> June, 2003, this Hon'ble Commission issued the CBR, 2003, whereby substituting Fuel Surcharge Adjustment formula contained in Regulation 45-B.

Consequent to the coming into force of the Electricity Act, 2003, (the Act), the Hon'ble Commission on 10<sup>th</sup> June, 2004, issued the A.P. Electricity Regulatory Commission (Transitory Provisions for Determination of Tariff) Regulation, 2004 (Regulation No. 9/2004) ("2004 Regulations"), whereby

the existing Regulations notified by the Commission, including the CBR, as amended from time to time, made under the provisions of the APR Act were to continue to apply as Regulations under the Act.

Thereafter, the MoP, in exercise of powers conferred by sub-section (1) and clause (z) of sub-section (2) of section 176 of the Act notified the Electricity (Procedure for Previous Publication) Rules, 2005 (the “PP Rules”).

Pursuant thereto, on 08<sup>th</sup> June, 2005, the Union of India, Ministry of Power (the “MoP”) made Electricity [Removal of Difficulties] (Ninth) Order, 2005 (the “RoD Order”) the RoD Order inter-alia provided thus:

*“Regulations made by the State Commissions, before the commencement of this order, without meeting the requirement of the previous publication under sub-section (3) of section 181 of the Act shall again be published as draft regulations for the information of persons likely to be affected thereby for inviting the objections or suggestions following the procedure prescribed under the Electricity (Procedure for Previous Publication) Rules 2005, and shall be finalised after considering such objections or suggestions received*

It is pertinent to state that the RoD Order was passed specifically under the then prevailing circumstances where the Regulations made under the previous legislation did not contain previous publication norms, and more particularly, the State Commission were making transitory regulations such as the 2004 Regulations, giving deeming effect to the erstwhile regulations as though these regulations were under specified under the Act. Hence, the RoD Order specifically mandated that the Regulations made by the State Commissions, before the commencement of this order, without meeting the requirement of the previous publication under sub-section (3) of section 181 of the Act shall again be published as draft regulations for the information of persons likely to be affected thereby.

This Hon’ble Commission has fixed the Fuel Surcharge Adjustment under Regulation 45-B of the CBR 2003. Regulation 45-B of the Business Regulations, prescribes a formula for determination of FSA. The data for

the Petition of the formula is based upon the information forwarded by the licensees. The Commission shall make the determination as per the formula, 'unless otherwise agreed by the Commission'. In addition to the formula, Regulation 45-B imposes certain conditions.

However, the CBR 2003 is a regulation made before the RoD Order and after the coming into force of the RoD, the CBR 2003 ought to have been published as draft regulations, as required under the RoD Order. This was not done admittedly. Therefore, CBR 2003 is *ultra vires* the Act, PP Rules and particularly, the RoD Order.

Therefore, no aspect contained in the CBR 2003 much less the FSA formulation contained can be relied upon by the Petitioners to file the present FSA Claims.

Moreover, the Hon'ble Appellate Tribunal for Electricity in its *Suo Motu Order* passed in O.P. 1 of 2011 has held thus:

*"64. We also notice that most of the State Commissions have not provided in their Regulations Fuel & Power Purchase Cost Adjustment Formula for allowing the increase in fuel and power purchase cost during the tariff year. The fuel and power purchase cost adjustment mechanism provided in most of the states is after completion of the financial year through a separate proceeding which takes a long time. The power purchase cost is a major expenditure in the ARR of the distribution licensee. The fuel and power purchase cost is also uncontrollable and it has to be allowed as quickly as possible according to the Tariff Policy. The Electricity Act, 2003 under Section 62(4) has specific provision for amendment of the tariff more frequently than once in any financial year in terms of Fuel Surcharge Formula specified by the Regulations. A major part of power procured by the distribution company comes from the Central Sector Generating Companies whose tariff is regulated by the Central Commission and the State owned Generation Companies whose tariff is regulated by the State Commissions. The Central Commission in its Tariff Regulations has already provided a formula for fuel price adjustment and the charges of the*

*generation companies are increased as and when the fuel prices are increased. In view of the present precarious financial conditions of the distribution companies, it would be necessary that the State Commissions also to provide for Power Purchase Cost Adjustment Formula as intended in the section 62(4) of the Act to compensate the distribution companies for the increase in cost of power procurement during the financial year. In the above situation, as indicated above it has become necessary for this Tribunal to give appropriate directions, to correct this situation by invoking the powers under Section 121 of the Act which is permissible under law.”*

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*65 (vi) “...Every State Commission must have in place a mechanism for Fuel and Power Purchase cost in terms of Section 62 (4) of the Act. The Fuel and Power Purchase cost adjustment should preferably be on monthly basis on the lines of the Central Commission’s Regulations for the generating companies but in no case exceeding a quarter. Any State Commission which does not already have such formula/mechanism in place must within 6 months of the date of this order must put in place such formula/mechanism.”*

At any rate, the claims of the Petitioners spring and derive force from 45 -B of the CBR 2003. When the CBR 2003 is not in conformity with the Act and Rules made there under, the Petitions in the present form, under the present provisions are not sustainable.

Looking at this from another perspective, if this Hon’ble Commission desired to keep the CBR 2003 in force, after the RoD Order, this Hon’ble Commission would have published the draft thereby. Having not done so, the Commission, consciously elected not to keep the CBR 2003 in force. Hence, by Hon’ble Commission’s own action, the CBR 2003 have lost force of law and are not rendered *non est* in law. Hence, CBR 2003, as claimed by the Petitioners cannot be the basis for the FSA claims.

Further, it is submitted that the 62 (4) Act specifically provides thus:



*“No tariff or part of any tariff may ordinarily be amended, more frequently than once in any financial year, except in respect of any changes expressly permitted under the terms of any fuel surcharge formula as may be specified.”*

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The term “*specified*” is defined under sub section 62 of section 62 of the Act to mean,

*“Specified by the Regulations made by the Appropriate Commission or the Authority, as the case may be, under this Act;*

This contemplates that the FSA has to be specified by the way of formula and such formula has to be specified by the way of Regulations by the Hon’ble Commission. Therefore, the FSA cannot be determined without there being any Regulation. Admittedly, there is no Regulation in force specifying the FSA formula.

**Licensees’ Response:**

As per the power endowed by the Electricity 2003 , The Hon’ble APERC has power to make rules and regulation for the conduct of Business.

The DISCOMs submitted that the objections are misconceived the effect of Section 181, Clause (3) of Electricity Act, 2003 and the ROD dt. 09.06.2005. The objector has wrongly assumed that the regulations i.e. CBR together with amendment made in the year 2000 and 2003 have been passed under the Electricity Act 2003. The Section 181 Clause (3) says that all regulations made by the State Commission **under this Act** shall be subjected to the conditions of previous publications. As a matter of fact, the CBR 1999 together with said amendment have been passed under the AP Electricity Reforms Act which was in-force at that time. Further, Section 185 (3) saved the said Reforms Act. That a part, the CBR 1999 together with said amendment was issued with prior publication of drafts inviting objections. Therefore, the objections raised in this regard are factually incorrect, evidently false and legally unsustainable. Therefore, the FSA regulations are very much backed by statutory force.

The directions issued at Para No.65 of the OP No.1 of 2011 on the file of Appellate Tribunal, primarily focused on the aspect that every State Commission must have in place a mechanism for fuel and power purchase cost in terms of Section 62(4) of the Act. In our case, we have a mechanism evolved through the amendment of CBR made in the year 2000 and 2003. The said regulations were made to achieve the object of Section 62 Clause (4) which is corresponding to Section 26 of AP Electricity Reforms Act, 1998. The mechanism / formula brought out through the aforesaid regulation. Therefore, the said mechanism / formula provided in Clause 45-B of CBR has sufficient statutory force.

In fact the order passed in O.P. No. 1 of 2011 supports the case of Discoms on the aspect that even assuming without admitting that the allegation of no authorization is considered in favor of respondents as mandated by the Appellate Tribunal which is in consonance with clause 12.4 of APERC Regulation 4 of 2005 where at the Hon'ble Commission is obligated to issue sue Moto proceedings even in the event of Discoms fails to submit such filings.

Further in clause 12.4 of the said regulation the Hon'ble Commissions obligated to recover or shall refund as the case may be the charges on account of FSA as approved by the Commission from time to time. Indisputably, by operation of law the FSA formula provided at clause 45-B of CBR has been approved by the Hon'ble Commission. Therefore the mechanism applied by the Discom or has been adopted by the Commission in the preceding quarters is absolutely in accordance with law.

**Commission's Views:**

Commission issued the Amendment Regulation 1 of 2003 to APERC Regulation No 2 of 1999 (Conduct of Business), exercising its powers conferred on it by Sec 54-9 (2) of Andhra Pradesh Electricity Reforms Act 1998 and other applicable provisions of the said Act and all powers enabling it in that behalf. It is to be noted that the subject Amendment Regulation was published in the AP Gazette on 17<sup>th</sup> of July-2003. It was clearly

mentioned in the regulation that the provisions of the regulation are deemed to have come into force w.e.f. 01-04-2003.

By virtue of Sec 185 (3) of the Electricity Act, (which states that ‘the provisions of the enactments specified in the schedule, not inconsistent with the provisions of this Act, shall apply to the states in which such enactments are applicable’), the subject Amendment Regulation issued by APERC is saved.

Apart from the above, in the ARR/Tariff proposals filed before the Commission, for FY 2003-04, Licensees submitted proposals in this regard too and the proposals of the Licensees, along with the modifications suggested by the Commission’s Staff were also made public during the public hearings held in different parts of the state, in connection with the tariff proposals of the Licensees. All these aspects have been discussed in detail under ‘Fuel Surcharge Adjustment Formula’ vide Para-181 to Para-190 of the Retail Supply Tariff Order issued by APERC for FY 2003-04.

The present Regulation meets the requirement of section.62 (4) of Electricity Act,2003 and it also fulfills the orders passed (Determination of FSA quarterly and *mechanism provided for adjustment of Fuel and Power Purchase cost in terms of Section 62 (4) of the Act*).by the Hon’ble Appellate Tribunal for Electricity in its Suo Motu in O.P.1 of 2011

In view of the all the aspects discussed in the paras above, Commission is of the view that the submissions of the Objectors that the Amendment Regulation issued by the Commission in the year 2003 is non-est, is not sustainable.

## **Issue 10**

### **24. Quasi “Truing Up” of FSA Claims**

#### **Views of Objectors**

Sri. M.R. Prasad, Secretary General, AP Ferro Alloys Producers Association, has stated that, it appears that the Petitioners had filed the present applications as a sort of Truing Up Petitions as Interlocutory Applications to

their Tariff Petitions. It is submitted that the FSA relates to the claims limited to the fuel surcharge escalation/s, if any being paid by the Petitioners pursuant to the regulatory approvals. But the FSA applications contains several factors pertain to Power Purchase Cost adjustments. This Hon'ble Commission allowing a sort of quasi "Truing Up" by passing on the burden without passing on the benefits during the control period. However, in the name of FSA Petitions, the Petitioners are forcing this Hon'ble Commission to conduct the truing up exercise.

**Licensees' Response:**

The existing FSA formula provides for recovery/return of short/excess fixed cost, prior period expenses. APDISCOMs have claimed for variance in fixed cost and prior period expenses in line with the regulation in vogue.

**Commission's View:**

FSA is being allowed as per the Regulations in vogue.

**Issue 11**

**25. Regulatory Approval**

**Views of Objectors**

Sri. M.R. Prasad, Secretary General, AP Ferro Alloys Producers Association, has stated that, the FSA Claims made by the Petitioners do not have the approval of the appropriate regulatory commission that the generating companies can pass it on to the respective distribution licensee.

The increase in variable cost claims in respect of the e CGS stations which the Petitioners claim to have settled pursuant to an approval granted by the Hon'ble CERC to the generator/s permitting them to pass on the costs of generation on to the distribution companies. Copies of the same are not enclosed to the FSA petitions.

Whether state generator/s too have sought specific approval from the this Commission, to pass on their variable costs / other legitimate claims as shown in the present filings.

Whether as per the PPA terms, the Variable Cost is a pass through or to be absorbed by the Generators has to be ascertained.

The Petitioners ought to have satisfied themselves and then satisfied this Hon'ble Commission in their present petitions that each unit of energy for which they are making payments for generators has got the approval of the appropriate commission/s. No material much less any credible material has been placed on record that generators claims are genuine and most importantly have the regulatory approval.

The FSA should primarily consist of the change in the uncontrollable component of the variable cost and the incremental cost of the Power Purchased as per the terms of the Tariff Orders. The inclusion of substantial fixed costs of all hues and shades apart from tall prior period expenses are seemingly disproportionate and have to be subjected to thorough Scrutiny for compliance including their nexus to the relevant quarter.

**Licensees' Response:**

It is incorrect to state that the incremental cost of fuel that is incurred by generator has to be first get approved from the concern ERC and then claim with DISCOM and that based on the said approval the DISCOMs should pay, and claim the same as part of the FSA. The objector misconceived the FSA of tariff. The Hon'ble Commission as part of its order held that FSA applicable shall be in addition to the tariff. Aside of the same, either the Electricity Act or the regulations made there under specifies the said condition precedent for the generators to claim or for the DISCOMs to claim the FSA. In fact, the present proceedings are to achieve the object of correctness or otherwise of the FSA claims that are made by the DISCOMs. If the claims are found to be excessive / incorrect the same would be appropriate corrected to the entitled quantum by APERC. Therefore, there is no possibility of unapproved claims passed on to the consumers. Clause 45-B of CBR not only provides the incremental cost of fuel incurred by the generators / DISCOMs , also provided prior period expenses and some part of fixed costs. Therefore, the claims made by the DISCOMs subject to the correction of quantum, are made in accordance with the law in force.

**Commission's Views:**

Commission is allowing FSA after thorough scrutiny of the bills claimed by the Generators as submitted by DISCOMs. Additional costs incurred over and above the figures specified in the relevant tariff orders are being scrutinized before admitting for FSA charges. This in affect is giving approval to the incremental costs in power procurement based on actuals, to the extent allowed. Hence, the Commission is of the view that a separate approval mechanism is not necessary.

**Issue 12****26. Agricultural Consumption****Views of Objectors**

Sri. M.R. Prasad, Secretary General, AP Ferro Alloys Producers Association, M/s. Suryajyothi Spinning Mills Ltd & others have stated that, statement of month-wise, category-wise sales for the quarter do not show the corresponding power purchase quantities by properly grossing up the sale for the losses as per the methodology specified in the Tariff Order. It is not clear from the information furnished as to how the power for agricultural consumption in excess of the tariff order approved quantities has been purchased and how the additional costs have been dealt with. The requirement in the tariff order is that the State Government is required to bear the entire cost of all such additional purchases. Therefore, the entire fixed and variable costs for such additional purchases have to be excluded from the FSA exercises and/or in computing the weighted average cost of purchase.

**Licensees' Response:**

In the previous FSA orders, Commission has restricted agriculture sales to the least of actual sales or sales approved by the Commission in Tariff Order. The power purchase quantity is limited considering above factor.

**Commission's Views:**

Monthly agriculture consumption claimed by DISCOMs for the purpose of FSA, is being limited to Tariff Order quantity or claimed figure whichever is lower.

By doing so, Commission is ensuring that, excess consumption on account of agriculture, if any, over and above the quantum specified in the relevant months of the Tariff Order, is not loaded to the admissible FSA.

## **Issue 13**

### **27. Purchases above Ceiling Price**

#### **Views of Objectors**

Sri. Chinumulla Lenin, & Others, have argued that, the Commission has put the limit of Rs. 5.50 per unit as the price for open market purchases. But the present FSA proposals of DISCOMs show that nearly 40% of the open market purchases were paid more than this limit. The DISCOMs are covering the above high price behind the so called market discovered price. Purchases beyond the ceiling price should not be allowed at any cost. More importantly, if claims above the ceiling price are allowed, then the very purpose of ceiling price would be rendered futile as also the R&C Order also would be rendered futile. As the whole open market, short term power purchases are mired in controversies we request the Commission to conduct a detailed enquiry in to these purchases.

#### **Licensees' Response:**

Licensee has prayed the Hon'ble Commission to consider the market discovered price as it is the actual cost incurred by the Licensees. Initially the ceiling price is fixed by the Hon'ble APERC based on the market conditions at the time of filing. But in the real time situation, price may change due to multiple factors

#### **Commission's Views:**

Commission has specified the maximum ceiling price as Rs 5.50/kWh for purchases of power from short-term sources, subject to procurement of power from such sources by web based competitive procurement process. However, maximum ceiling price is not operative for purchases made through IEX and IPX. Commission, while scrutinizing the month wise FSA amount for the months of Oct, Nov, Dec 2012, in the merit order dispatch,

is limiting the power purchase rate at Rs 5.50/kWh for short term power purchases made over and above the maximum ceiling price, provided such purchases are made through competitive bidding process.

#### Issue 14

#### 28. FSA to be loaded on to Agriculture Consumers also:

##### Views of Objectors

Sri. M.R. Prasad, Secretary General, AP Ferro Alloys Producers Association, has argued that, even if we assume that the FSA Formula exists in law, the same provided that agricultural consumers cannot be loaded on with the FSA until agricultural consumption is metered. Section 55 (1) of the Act provides that no licensee shall supply electricity, after the expiry of two years from the appointed date, except through installation of a correct meter in accordance with the regulations to be made in this behalf by the Central Electricity Authority (CEA). Hence, the Regulation 45 - B read with section 55 of the Act, will give rise to an irrefutable conclusion that after 09<sup>th</sup> June, 2005, the Petitioner's have no choice but to meter the sales to all categories.

When the Government has voluntarily shouldered the onus of providing for the tariff to the Agricultural consumption, there is no reason why, even for social reasons, the FSA Claims should not be equitably distributed across the categories.

Further, this Hon'ble Commission, to exclude the agricultural consumption has relied upon a decision rendered by the Hon'ble APTEL *in Appeal No: 250 of 2006 (5 Nos. of Distribution Licensees of Karnataka Vs Karnataka ERC & KPTCL)*. This decision does not say that agricultural consumption should not be metered. Moreover, the Hon'ble APTEL, in many subsequent judgments, including the latest case of Faridabad Industries Association and Others vs. Haryana Electricity Regulatory Commission and Others in Appeal No. 204 of 2010 dated: 11<sup>th</sup> August, 2011 held that



*“In our opinion, the State Commission cannot be a silent spectator to the violation of the provisions of the Act and its Regulations and directions by the distribution licensees. The State Commission should immediately take appropriate action in this matter according to the provisions of the Act. The State Commission should also give directions to the second and the third respondents giving a time bound schedule for installation of consumer and energy accounting and audit meters, including replacement of the defective energy meters with the correct meters within a reasonable time to be decided by the State Commission”.*

M/s Srinadh Spinning Mills & Others have stated that, it is not that the agricultural consumption has not been, or cannot be, quantified by the DISCOMS. They have published their actual losses which can only be done after quantifying the agricultural consumption and they have also reported - the agricultural consumption in their respective areas of supply in their Annual Reports and also in the other filings before the Commission. There can therefore be no justifiable reason to exclude the same.

The Electricity Act specifically requires that the licensee shall not supply any electricity except through a meter at any time after June 2005. If this mandatory requirement of law has not been complied with by the licensee, the Commission cannot simply exclude the agricultural consumption on the ground that the metering of the same is not complete and thereby penalize the other consumers for the neglect and default of the licensee.

The FSA must be distributed over the entire consumption including agriculture, otherwise the consumption would be unjust, arbitrary, unreasonable, irrational and contrary to the provisions of the Act, legislative policy and the National Tariff Policy, and also tantamount to undue preference prohibited by law.

**Licensees’ Response:**

Estimation of agriculture consumption is being done as per the approved methodology by the Hon’ble Commission. FSA is being levied as per the regulations in vogue.

### **Commission's Views:**

During the public hearings, majority of the representatives/learned counsels of the industrial consumers and others argued that the Agricultural part of FSA burden should either be borne by the Agricultural consumers themselves or by the Government, who announced the 'free power for Agricultural pump sets' policy, but, not the consumers falling under the remaining categories. Objectors brought to the notice of the Commission that with effect from 2005, supply of electricity without metering is unauthorized as per section 55 of Electricity Act and that any supply made in contravention of this provision cannot be a basis for levying FSA charge pertaining to un-metered Agricultural consumption onto the other consumer categories. All the contentions of the objectors, in respect of excluding the Agricultural consumers from levying of the FSA charges, have been examined by the Commission in terms of the provisions of the Electricity Act, the Regulations of APERC on the aspect of FSA and the relevant judgments of the Hon'ble Appellate Tribunal for Electricity. Section 55 of the Electricity Act, 2003 which stipulates that Electricity shall not be supplied after two years of the appointed date except through installation of meters, has to be examined in the context of the observations of the Hon'ble Appellate Tribunal for Electricity (ATE), on the agricultural consumption. Section 55 of the Electricity Act, 2003 reads as follows:

*'Sec 55 (1): No Licensee shall supply electricity, after the expiry of two years from the appointed date, except through installation of a correct meter in accordance with the regulations to be made in this behalf by the Authority.*

*Provided that the licensee may require the consumer to give him security for the price of a meter and enter into an agreement for the hire thereof, unless the consumer elects to purchase a meter'*

*'Provided further that the State Commission may, by notification, extend the said period of two years for a class or classes of persons or for such area as may be specified in that notification'*

*‘Sec 55 (2): For proper accounting and audit in the generation, transmission and distribution or trading of electricity , the Authority may direct the installation of meters by a generating company or licensee at such stages of generation, transmission or distribution or trading of electricity and at such locations of generation, transmission or distribution or trading, as it may deem necessary.’*

Hon’ble Appellate Tribunal for Electricity, Vide its Order dated: 07-02-2008, in Appeal No: 250 of 2006 (5 Nos of Distribution Licensees of Karnataka Vs Karnataka ERC & KPTCL), in the matter of power supplied to the agricultural consumers, had held that *‘Once a decision has been taken by the Government, it may not be proper to designate the existing connections as unauthorized’ (Para-32 of the ATE’s Order)*. Hon’ble ATE further had held that *“in view of the aforesaid discussions and since interest of consumers is being protected by the appellants, we hold that the Commission should allow the power requirement as estimated by the appellants” (Para-33 of the ATE’s Order)*. As far as Andhra Pradesh state is concerned, the policy decisions of the Government of Andhra Pradesh, with reference to supply of electricity to agricultural consumers, are very clear for each tariff year and that they not only mandate the DISCOMs to supply electricity to agricultural consumers but also that the same should not be charged. This had been brought out clearly in the Tariff Order for 2010-11. Hence, the criterion prescribed by the Hon’ble ATE , viz., *“decision has been taken by the Government, in the matter of power supplied to the agricultural consumers,”* stands fulfilled and hence the arguments of the objectors referring to Sec: 55 of the Act, cannot be sustained.

Coming to the provisions in the regulations of the Commission on FSA, the position is as follows- (Condition No: 1 of 45-B of Conduct of Business Regulations):

*‘The FSA as worked out will be distributed among all categories of consumers that existed in the quarter. However, the consumption by the Agricultural sector will be excluded till the Commission is satisfied that metering of Agricultural consumption is complete, as may be notified in the tariff orders from time to time’*

The observations of the Commission on this aspect of metering of the Agricultural services, in the tariff order for FY 2012-13, are also given below. These observations of the Commission, in the Tariff Order for FY 2012-13, clearly indicate that the Commission is also not satisfied with the ground reality that metering of agricultural consumption has not yet taken place in a complete manner.

**Para-30:** The Commission notes with concern that the Licensees' efforts regarding estimation of agricultural consumption by un-metered agricultural services are rather tardy and there is a need to expedite the process. The Commission directs that; *"The Licensees shall estimate the consumption based on the Commission approved new methodology and incorporate the results in detail in next Tariff filings without fail."*

**Para-34:** The sales forecast to LT-V: Agricultural consumer category made by DISCOMs is mostly based on DTR meter reading data and not based on Commission approved methodology for estimating sales. This issue has been analysed in detail in the Tariff Order issued for FY 2011-12. The estimates made by the Licensees are not based on actual metering. In these circumstances, the Commission is unable to accept the sales volumes as projected by the Licensees. Even during public hearings, many participants suggested that the sales volumes should be determined by the Commission at levels much lower than those projected by the Licensees. Taking all the above factors into account, the Commission has decided to approve the sales volume level by increasing the corresponding figures of FY 2011-12 tariff order by 10 percent

Considering all the above aspects, connected with taking up the Agricultural consumption also into consideration while computing the FSA charges, Commission has decided to proceed with the FSA computations, excluding the consumption pertaining to the agricultural services from the denominator of the FSA rate calculation, as envisaged in the formula for computation of FSA, prescribed in 45-B of the Business Regulations

## Issue 15

### 29. Admissibility of STOA Claims

#### Views of Objectors

Sri. M.R. Prasad, Secretary General, AP Ferro Alloys Producers Association, has stated that, the Petitioners, in the name of the FSA Claims, are claiming a sum of Rs.17,12,93,667 /-(Rupees Seventeen Crore Twelve Lakh Ninety Three Thousand Six Hundred Sixty Seven Only) as Short Term Open Access charges. While the variable charges may have varied resulting in FSA Claims, however, the charges to be recovered on account of STOA Charges, which are settled at weekly or quarterly intervals cannot vary drastically. At any rate, these charges cannot be called as FSA Charges by any stretch of imagination.

#### Licensees' Response:

Short term power purchases are allowed by Hon'ble Commission with a ceiling limit. The open access charges associated with short power purchases was submitted to Commission along with FSA computations.

#### Commission's Views:

The Commission is of the view that the STOA charges claimed by DISCOMs are not part of fixed cost as per Tariff Order fro FY 2012-13. Hence, the same is not being allowed in determination of FSA.

## Issue 16

### 30. Prior Period Claims

#### Views of Objectors

M/s Bala Balaji Textiles Ltd, Sri. M.R. Prasad, Sri. B.V. Raghavulu & Others have stated that, the provision for prior period expenses in the formula, is being grossly abused to mulct a section of the consumers in an arbitrary, irrational and un-reasonable manner.

Huge amount of charges viz., Rs. 1,22,91,76,034/- (Rupees One Hundred Twenty Two Crore Ninety One Lakh Seventy Six Thousand Thirty Four Only), as prior period claims, are being claimed as FSA. The Discoms have not

explained as to why they are claiming a huge sum of Rs.113.04 crore towards revision of FERV for 2004-05 to 2011-12 and orders of CERC dated 21.12.2011 for Simhadri I. Out of the prior period expenditure of about Rs.162 crore claimed by the Discoms, the Discoms have not explained as to why such huge amounts are allowed to accumulate and are being claimed after a gap of several years.

The Discoms have also claimed a sum of Rs.39.19 crore towards MAT from 2006-07 onwards to be paid to Lanco project as per the order of the Commission dated 10.12.2012. Having contested the claim of Lanco for MAT, how are the Discoms paying that amount without going in for an appeal against the order of the Commission? The CBR 2003 is clear on whether the prior period claims can be termed as FSA and within what is the period within which the FSA claims have to be lodged. This aspect of retrospective claims was duly considered by the Hon'ble High Court and has held that there are no powers vested with the Petitioners to recover back dated claims.

**Licensees' Response:**

M/s. NTPC filed a petition before Hon'ble CERC seeking clarification in regard to reimbursement of the liability on account of FERC and the cost of hedging with regard to the operation. With regard to recovery of difference between hedge rate and exchange rate as on 31.03.2004 it was opined that the difference between the hedge rate and exchange rate as on 31.3.2004/date of commercial operation of the generating station or transmission system is recoverable from the beneficiaries along with clarifications/orders on the other issues. The claim of NTPC was admitted in line with the orders of CERC dt.21.12.2011.

Hon'ble Supreme Court of India in CA No.6138/2012 directed Commission to assess the MAT amounts said to be due to developer. Further directed that on such assessment APDISCOMs shall secure 50% of the amount due by way of Bank Guarantee and the remaining amount shall be paid directly. In pursuant to the directions of Hon'ble Supreme Court, APERC issued orders dt.10.12.2012 determining the MAT claim as Rs.39.19 Crs. As such the MAT

was admitted and accounted for in compliance to the directions of Hon'ble Supreme Court of India.

As per the FSA Regulation under the heading of Z i.e. the changes in the cost in Rupees as allowed by the commission for a period extending in the past beyond the relevant quarter is being claimed as prior period expenditure.

The FSA regulation in vogue mandates the claim of prior period expenditure either credit/debit to pass on to the consumers. There is no such judgment prohibiting including the component of prior period expenses. The so claimed Hon'ble High Court Judgment is not on the aspect of prior period expenses which is permitted in the formula.

#### **Commission's Views:**

The Commission has examined the invoices/bills produced and after conducting the prudent check, is allowing an amount of Rs 99.916 Crs against Rs 162.119 Crs filed by the DISCOMs. The reduction is mainly due to recovery of low PLF balance amount of Rs 10.03Crs (101.86Crs- 91.82 Crs recovered in first quarter) in the month of Oct'12 and recovery of disincentive (35.41% penalty) amount of Rs 52.166 Crs for the period July'11 to June' 12 , in the month of Nov'12, pertaining to M/s Konaseema.

#### **Issue 17**

##### **31. Plight of Consumers:**

###### **Views of Objectors**

Sri. M.R. Prasad, Secretary General, AP Ferro Alloys Producers Association, has stated that , after an unprecedented steep hike in Tariff structure in this financial year itself, the third quarter Fuel Surcharge Adjustment (FSA) claims by the Petitioners at Rs. 0.9559 / kWh is brutal, insensitive and a display of unabashed cruelty towards the helpless consumers who are already subjected to severe distress owing to the long, harrowing, unending and ever increasing spate of Power Cuts regardless of their working process sensitivity for about an year now.

**Licensees' Response:**

The proposed FSA claim is in accordance with regulations. Discoms need to recover the expenses incurred

**Commission's Views:**

FSA is being imposed after thorough verification of the claims and in accordance with the Regulations in force.

**Issue 18****32. Guidelines for Short-Term Purchases not followed:****Views of Objectors**

M/s AP Spinning Mills Association & Others have stated that, as per the License conditions of the DISCOMS, the DISCOMS are required to follow the guidelines/instructions given by the Hon'ble Commission in respect of any short term or urgent purchases. The DISCOMS must explain as to how the purchases made in breach of the license conditions are allowable. It is not explained as to how short term purchase price over and above the stipulated limits is being claimed, contrary to the specific limitations in the Tariff Order

**Licensees' Response:**

Power is being procured on short term basis for the quantity permitted in the tariff order to the extent possible in a transparent bidding mechanism

**Commission's Views:**

While scrutinizing the FSA claims, power procured by the DISCOMs under Short Term procurement method to substitute the shortfall in generation of energy specified in the TO from the approved stations, is being limited to the ceiling price mentioned in the Tariff Order.



## Issue 19

### 33. Computation of FSA at State Level is contrary to Regulations:

#### Views of Objectors

M/s AP Spinning Mills Association, M/s Nandi Vardhana Textile Mills, Sri. M.R. Prasad & Others have stated that, the purchase quantities and expenditure on the basis of entire State (combing/ pooling/cartelizing all DISCOMS) taken together. Such methodology is not authorized or contemplated by the regulations and therefore contrary to LAW. The claim of an individual DISCOM for FSA rate determined on the basis of all DISCOMS taken together is illegal and contrary to the regulations and LAW.

The regulations clearly and unambiguously require each licensee to give the particulars of its own purchase and expenditure. This requires that each DISCOM must specifically give its own calculation for its own power purchase quantities, source of supply, costs and claims with respect to the tariff order, quantity as approved for that particular DISCOM and the merit order dispatches that are required to be made to meet that DISCOM's energy sales. For this purpose, each DISCOM must provide its own energy balance which is a sine qua non of the determination of FSA of that DISCOM.

The main Tariff order itself deals with the requirement of each DISCOM separately and with the power purchase quantity required by each DISCOM separately and with the approved power purchase quantities of each DISCOM separately and with the share of power from various Stations for each DISCOM (with respect to third transfer scheme) and with the approved distribution losses of each DISCOM separately, and with the approved agricultural consumption, quantity limitations for each DISCOM separately and for D-D sales at specific transfer rates.

Because each DISCOM can sell different quantities of energy out of a given quantity of power purchase, due to different levels of distribution losses that are actually there in each DISCOM, there cannot be a uniform effect of any variation in power purchase cost/and/or fuel cost across all DISCOMS.

The methodology adopted in the FSA proposals would enable one or more DISCOMS to realize additional revenue from their consumers in excess of their actual difference in power purchase and/or fuel costs. We can only hazard a guess that APEPDCL should in fact be enjoying additional revenue due to FSA methodology that is being followed. This is certainly not permissible

**Licensees' Response:**

Hon'ble APERC has been issuing only one Merit Order state as a whole. APDISCOMs will be procuring power based on state merit order as no separate merit order is available. Therefore, only one rate of FSA can be calculated and claimed. The sales of each licensee were submitted along with FSA filing. The FSA of each month is computed based on the incremental cost and the same is apportioned in accordance with the sales made by each licensee. Since entire power purchase quantity is taken for the computation of FSA the effect of D-D for the state has no relevance

**Commission's Views:**

Regarding the objections on the uniform FSA charge across the entire state, Commission would like to refer to the Tariff Order for FY 2012-13, wherein the Govt of Andhra Pradesh, u/s 108 of Electricity Act 2003, issued a policy direction that the tariff is to be maintained uniform across the State and accordingly the Commission kept the tariffs uniform across all the four DISCOMs in the State. When the main tariff rates had been maintained uniform across the four DISCOMs in the State, in accordance with the policy direction given by GoAP u/s 108 of EA 2003, the question of determination of FSA rates on differential basis does not arise since the FSA component is nothing but a surcharge on main tariff and the original tariff together with FSA now being determined will be the eventual effective overall tariff, which has to be construed as the figure which is expected to be uniform across the DISCOMs. Based on this, Commission is of the view that it is not possible to have DISCOM wise/Category wise FSA rates for different DISCOMs and for different consumer categories.

**Issue: 20**

**34. DISCOMs defying Ceiling Price fixed by the Commission:**

**Views of Objectors**

Sri. M. Venugopal Rao & Others have stated that, vide the FSA filings for third quarter of FY 2012-13, the Discoms have requested the Commission to consider the market discovered price over the ceiling price fixed by the Commission for power purchased from certain traders and allow actual cost in the proposed FSA. This approach of the Discoms defeats the very purpose of the regulatory process of the Commission in several ways. The Commission has already permitted the Discoms to purchase 13,280 MU on short-term basis during 2012-13 in the open market and even enhanced the ceiling price from Rs.4.17 to Rs.5.50 per unit, without considering alternatives and without even holding any public hearing. The Discoms continue to defy the ceiling price for short-term purchases fixed by the Commission. Such additional power purchases are always in view of shortage for power, but that does not justify purchasing at any rate all in the name of “prevailing market price.”

Even after purchasing additional power in the open market, exceeding the ceiling price fixed by the Commission, the Discoms are not in a position to avoid power cuts and R&C measures. Therefore, there is no justification in the Discoms blatantly defying the ceiling price, which is already high, fixed by the Commission and seeking ratification of such violation of the decision of the Commission.

**Licensees' Response:**

Hon'ble Commission has issued the orders of FSA for the 2<sup>nd</sup> quarter of FY 2012-13 on 12.03.2012. Since it is the cost actually incurred by the Licensee, and being the market discovered price, the licensee requested the Hon'ble Commission to approve the cost from short term power purchase. The market which the Hon'ble APERC fixed in the first instant does not reflect the prevailing market price and dynamic power market changes the

price frequently depending upon multiple factors. The price discovery by the DISCOMs is done in a most transparent process.

**Commission's Views:**

The Discoms have come up with proposals on 30-05-2012 for enhancing the ceiling price for short-term power purchases from Rs.4.17 per unit to Rs.5.50 per unit, in order to book the NEW (North-East-West) corridor by 31-05-2012, to garner maximum power at lower rate, and to lessen the demand & supply gap to extent possible at lowest rates to cater the needs of various sectors. The Commission has examined the proposals thoroughly and found that there is an urgent need of booking the corridor in view of the severe power shortage existing in the State, technical constraints prevailing in the southern grid in procuring the short term purchase, market price prevailing in the southern region and the ceiling price approved in the previous years. After considering all the above factors, the Commission has determined the maximum ceiling price of Rs.5.50 per unit duly enhancing the same from Rs.4.17/kWh on the average (with Rs.2.65/kWh during off peak and Rs.4.50/kWh during peak) as fixed in the Tariff Order for 2012-13.

**Issue 21**

**35. FSA Methodology and required Amendments:**

**Views of Objectors**

Sri. M. Venu Gopal Rao & Sri. B.V. Raghavulu have stated that, they have repeatedly explained that there are deficiencies in the methodology of FSA being adopted by the Commission and requested it to rectify the same by holding public hearing. The Commission has been stating that it is in the process of taking a holistic look at the entire methodology of levy of FSA in order to bring about a suitable structural mechanism of FSA". How long the matter continues to be under "consideration" of the Commission.

**Licensees' Response:**

Matter is in the purview of Hon'ble Commission.

**Commission's View:**

The matter is in the active consideration of the Commission.

**Issue 22****36. Missing of important GCV information in the proposals:****Views of Objectors**

Dr. K. Narayana & Others have stated that, the present FSA proposals of DISCOMs for the third quarter of 2012-13 filed with the Commission do not contain important information to decide on their claims. In the case of the FSA claims for the years of 2010-11 and 2011-12 information on GCV of fuels used by different stations and corresponding variable cost was provided. This time this crucial information is missing. Here also it is to be mentioned that in the past the information in GCV contained combined GCV of local and imported coal. The GCV of local and imported coal was not provided separately. Along with the GCV information, station heat rate is also required to examine the justifiability of FSA claimed by DISCOMs. We request the Commission to direct GENCO and NTPC to provide GCV and heat rate figures separately for local and imported coal.

**Licensees' Response:**

The details of imported and Domestic coal consumed during the quarter for AP Genco and NTPC plants are enclosed as Annexure-I, Annexure-II. M/s NTPC is providing combined GCV of imported and domestic coal due to their technical constraints. APGENCO provided information and details of Domestic GCV and its price, Imported GCV and its price separately including the quantity of coal used.

**Commission's Views:**

Details pertaining to imported coal, its price, quantity and GCV are being verified while admitting the costs into FSA allowed by the Commission.

## Issue 23

### 37. Decline in actual power procurement by DISCOMs

#### Views of Objectors

Sri. T.Harish Rao, MLA & Others have stated that, the DISCOMs in their submissions attributed the above deficit to non-availability of power from hydel stations. But actually, decline in generation at gas based power plants in the state and failure of DISCOM contract estimated power from open market led to 16% deficit in power procurement during this quarter. Deficit from gas based power plants owned by IPPs accounted for nearly 1,000 MU of deficit. During this quarter while the Commission approved procurement of 3,609.75 MU from open market DISCOMs were able to procure only 2,535.92 MU, contributing a deficit of 1,073.83 MU. DISCOMs in their filings on the present FSA proposals stated they are “constrained to procure power from short term sources through transparent tender procedures”. While on the one hand they procured less from committed sources and also they failed to procure the projected quantum of electricity from open market in spite of advanced knowledge of the deficit. In the context of deficit in power procurement it has also to be mentioned that coal based power plants in the state also contributed its might to the deficit due to secure adequate coal allotment.

#### Licensees’ Response:

Firstly, the filing by DISCOMs and approval of Hon’ble APERC is usually based on the certain assumption and in real time situation; the actual happening may be totally different from the estimate. The Gas from RIL has drastically come down over a period of time and the generation from gas station is not as estimated and there is deficit from these sources.

The procurement from outside SR at Rs. 4.11/unit was not possible due to non availability of corridor. As mentioned by the objector the power purchased from JSW at Rs.5.65/unit is limited to a period of four months only. Infact the price of procurement varies from Rs 5.35/unit to Rs. 5.65/unit. The purchases from market also depend on the availability of

corridor and expected power is not available, therefore, the procurement of power from the market is not as approved by the Hon'ble APERC. However, the rate of short term power purchase is not firm; it depends on multiple factors prevailing in the country.

**Commission's Views:**

Commission is thoroughly examining the generation particulars and purchase from market sources before admitting the FSA charges for the quantity of energy generated month-wise from approved stations. If there is any shortfall of energy from approved stations against the quantum of energy source-wise indicated in the Tariff order, such short-fall will be met from market sources in that particular month and the price will be limited to maximum ceiling price prescribed in the Tariff Order, if such purchase price exceeds the maximum ceiling price under short term procurement from market sources.

**Issue 24**

**38. Increase in Variable cost of GENCO stations is more than CGS stations:**

**Views of Objectors**

Sri. Janak Prasad & Others have stated that, while in the case of coal based plants of central generating stations (NTPC (SR) and Simhadri) variable costs reported under FSA proposals were lower than those mentioned in the Tariff Order for the year 2012-13 but in the case of GENCO plants variable costs reported under FSA proposals were higher than those mentioned in the Tariff Order.

It is the responsibility of APERC to see that this abnormal anomaly is removed in a transparent manner, to the satisfaction of all stakeholders. We request APERC to direct DISCOMs and GENCO to make all facts public.

**Licensees' Response:**

Firstly NTPC SR is the pit head station and cost estimate at time of determining tariff is almost in line with the actual. The variable cost of gas plants is increased due the foreign exchange rate variance now that the gas bills are paid as per the prevailing dollar rate.

The variance in variable cost with reference to Tariff Order is on account of proportionate usage of imported coal, location of plant etc.,

**Commission's Views:**

The Commission is verifying the bills pertaining to variable costs of various generating stations and prudently allowing the admissible expenditure into FSA amounts.

**Issue 25**

**39. Hike in Coal Prices:**

**Views of Objectors**

Sri. K. Raghu & Others have stated that, one of the important reasons for increase in variable costs is the rise in coal prices both Coal India Ltd (CIL) and its subsidiaries and SCCL. Coal prices are increased even when the coal mining companies were reaping enormous profits. Consumers in the state have to bear this burden from increased prices of coal. State and Central governments themselves are responsible for this FSA burden being imposed on electricity consumers in the state.

**Licensees' Response:**

The Coal policy is determined by GOI and DISCOMs does not have any option

**Commission's Views:**

The issue of Coal pricing of SCCL & CIL is not under the purview of the Commission.

**Issue 26**

**40. Commencement of production at APGENCO's Captive Coal Block:**

**Views of Objectors**

Sri. Janak Prasad, Sri. Harish Rao, MLA & Others have stated that, use imported coal was advocated on the ground that enough coal is not being produced within the country. But proper attempts are not made to increase coal mining within the country. APGENCO was allocated captive coal mines at Tadicherla, more than seven years back to mine coal for use in its power



plants. But there was no initiative on the part of GENCO to use this for it's as well as state's advantage. This delay on its part led to dependence on costly imported coal. If the captive blocks allocated to it were operationalised as stipulated by the Ministry of Coal of Gol there would have been no need to depend on costly imported coal. It is also noted that all the important/critical milestones such as grant of previous approval, Forest clearance, EMP, Mining Lease and Land acquisition are pending for Tadicherla-I coal block. The Company has repeatedly failed to keep its promise made to the Ministry and is thus non-serious about timely development of the block". They did not even procure relevant maps from SCCL. Even when there is apparent and serious coal/fuel shortage no urgency was shown to utilize the resources made available to the GENCO. Rather it was stated that 30% of the coal is being imported at the directions of CEA. Because of inefficiency of GENCO consumers in the state are forced to bear the present FSA burden. Why shall consumers in the state pay for inefficiency of GENCO?

**Licensees' Response:**

The coal from Tadicherla coal block is allotted to KTPP II which is under construction. APGENCO is taking all possible steps to complete the mining activity and commence production before completion of power project. APGENCO entrusted the mining activity to M/s SCCL and waiting for Environmental clearance to commence the mining activity

**Commission's Views:**

DISCOMs may pursue the matter with APGENCO and ensure that mining from above-mentioned captive coal block takes place at the earliest.

**Issue 27:**

**41. Shortfall in Gas based Generation:**

**Views of Objectors**

Sri. M. Thimma Reddy & Others have stated that, though AP has access to more than 2700 MW gas based power generation capacity less than 700 MW capacity is only being operated due to shortage in natural gas availability. It

is being alleged that this shortage is artificially created. Had there been no decline in gas production there would have been no need for use of RLNG and purchases from open market at steep prices. If adequate quantity of gas was allocated to the gas based power plants in AP there would have been no need for RLNG purchases, no open market procurement at high rates and new FSA proposals. It is high time the assurance given to these plants is delivered by the central government.

**Licensees' Response:**

Issue is not in the purview of APDISCOMs. The Gas allocation is not under the control of DISCOMs and pricing of gas and approval of investment etc is under the control of the Central Govt and DISCOMs are only the end users purchasing gas based on the price fixed to GOI.

**Commission's Views:**

The matter is not in the purview of the Commission.

**Issue 28:**

**42. Diversion of Gas to Merchant Plants**

**Views of Objectors**

Sri. T. Harish Rao, M.L.A, Sri. K. Raghu & others have stated that, natural gas from RIL's KG Basin was allotted to merchant plants of Lanco and GMR on the recommendations of the GoAP. While allocating gas to these plants the EGOM laid down the condition that they should supply power produced from this gas to DISCOMs within the state at the rate determined by the Commission, through a long-term PPA. But for a considerable time they supplied power outside the state in violation of conditions laid down by the EGOM. After a hue and cry in the state they started supplying power in the state but at the open market. This entailed huge burden on the consumers in the state. Even when the EGOM terms clearly state that these merchant plants shall enter in to long term PPAs to be eligible for gas allocation all these while they avoided entering in to long term PPAs and selling power at

open market prices. There is reported to be a short term PPA with these merchant plants. As far as we know Commission has not approved these. There is no proceeding approving these short term PPAs. There were only mentions that DISCOMs approached the Commission to determine the price for these plants.

As far as Lanco II and GMR Barge mounted the ceiling price cannot be the standard, it is not the regulated price meant for these two plants specifically, is meant for short term power purchases from open market.

**Licensees' Response:**

Allocation and delivery of gas is not in the purview of APDISCOMs.

**Commission's Views:**

The determination of tariff to GMR-Barge Mounted and Lanco Kondapalli Stage-II does not fall under the purview of either section 62(1) or section 63 of Electricity Act, 2003. After 09-01-2011, the question of determination of tariff by the Commission for sale of electricity by a specific generator to a distribution company on cost plus basis does not arise for short term purchases. The purchases have to be made by the DISCOMs following the guidelines of case-I/case-II bidding after 09-01-2011 except short term purchases, which have to be made as per the guidelines for short-term purchases. As far as the short-term purchases are concerned, the role of the Commission is restricted to fixation of maximum ceiling rates of purchase of power by the DISCOMs. The Commission, for the tariff year in question, has fixed Rs 5.50 per kWh as the maximum ceiling rate for short-term purchases.

There is no provision in the Electricity Act,2003 which lays down the procedure for fixation of purchase price by the Commission in individual cases of purchase of electricity by the DISCOMs from specific generators in case of short-term purchases. The purchase prices for short-term purchases are to be decided by the DISCOMs themselves as per the guidelines governing such purchases, within the maximum ceiling prescribed by the Commission from year to year.

**CHAPTER - IV**  
**METHODOLOGY OF FSA COMPUTATIONS**

**43. Views of Objectors**

**Contest on FSA Methodology:**

M/s Suryajyothi Spinning Mills Ltd & others have stated that, statement of month-wise, category-wise sales for the quarter do not show the corresponding power purchase quantities by properly grossing up the sale for the losses as per the methodology specified in the Tariff Order. The methodology appears to be different from that in the applications for previous orders of the Hon'ble Commission.

**Licensees' Response:**

FSA was computed as per the formula given in regulation and grossing up of sales to arrive at power purchase quantity is not contemplate in the regulation.

**Commission's Views:**

The Commission after thorough scrutiny of the filings of the DISCOMs is adopting the following methodology, which is as per existing FSA regulation.

The methodology being followed by the Commission for computing the Fuel Surcharge Adjustment (FSA) is as follows:

- a) The formula prescribed in Section 45-B of Conduct of Business Regulations, read with Amendment 1 of 2003 which contains four components to arrive at the amount eligible for recovery towards FSA during any quarter. These components constitute the numerator of the FSA formula, which are described below:

$$F_i = \frac{(P_i \times E_i + FC_i + Z + A_i)}{Q_i}$$

Where,

- $P_i$  is the difference in the monthly Weighted Average Variable Cost in Rupees, adjusted to four decimal points, of power purchase cost in a month during quarter 'i', for the approved power purchase quantity,  $E_i$ , for the month computed for FSA purposes, as given below, compared to the Weighted Average Variable Cost for the said month adopted in the tariff order.
- $E_i$  is the monthly energy purchase as mentioned in the tariff order in kWh (or its equivalent actual monthly draws in each month) during the quarter 'i' to be submitted for each of the generating stations,

Or

approved power purchase quantity for each month, during the quarter 'i', computed for FSA purposes, drawn in monthly Merit Order up to the power purchase requirement (calculated by grossing up the actual sales for the respective month with Commission approved losses) for each month,

Or

actual energy purchased by all DISCOMs for each month, during the quarter 'i', whichever is lower or considered prudent to be applicable for the month.

- $FC_i$  difference in Rupees, of the actual total monthly fixed charges of the generating stations, from the base values adopted in the tariff order, during the quarter 'i'.
- $Q_i$  is the actual energy sold to all categories in kWh in the quarter in Discoms or RESCOs, subject to condition No. 1 mentioned hereunder.
- $Z$  is the changes in the cost in Rupees as allowed by the Commission, for any month during the quarter 'i', which is counted for a period extending in the past beyond the relevant quarter 'i' but claimed by any generating company along with any monthly bill raised during quarter 'i'.
- $A_i$  adjustment in Rupees to account for the financial impact of demonstrated incidents of merit order violation on account of controllable factors or any other events during the quarter 'i', the financial impact of which, in the Commission's view, should be given appropriate treatment.

Condition No.1: The FSA as worked out will be distributed among all categories of consumers that existed in the quarter. However the consumption by the agricultural sector will be excluded till the Commission is satisfied that metering of agricultural consumption is complete, as may be notified in the Tariff Orders from time to time.

- b) While scrutinizing the bills of APGENCO Thermal Stations, the Commission found, that the quantities of imported and domestic coal physically used for arriving at the weighted average rate in each month, are differing from the quantities of coal claimed (imported & Domestic) in the bills which were relied for arriving at the No. of kWh units generated, with the combined GCV and its cost.

The Commission has allowed only the physically (actually) consumed quantities of coal (domestic & imported) in arriving at the No. of kWh units generated and by duly modifying the combined GCV as against GCV's taken on random basis by GENCO.

The Discoms have submitted the invoices, as audited and authenticated by the internal auditors, relating to variable costs of other generating stations paid on the basis of actual energy supplied. These claims have been admitted by the Commission.

- c) The invoices/bills have been checked prudently by the Commission. The claims based on the approval of CERC/ APERC and as per the provision of the PPAs are allowed. The claims pertain to STOA charges were not covered under power purchase cost as per the Tariff Order. Hence the same is disallowed.
- d) Based on FSA proposal filed and additional information furnished/clarification given by Discoms subsequently, the Discom-wise, month-wise, category-wise, voltage-wise actual sales in kWh made during FY 2012-13 (including concerned RESCOs sales) have been scrutinized. While arriving the Discom-wise, month-wise,

voltage-wise sales, the LT agriculture sales are limited to least of (i) target given in the tariff order (or) (ii) actual energy consumed by agricultural category consumers. The Discom-wise monthly power purchase quantity is arrived at by grossing up the above sales figures (voltage-wise) with the approved line losses voltage-wise for respective financial years in the 2<sup>nd</sup> control period Multi Year Tariff Order.

- e) After arriving the Discom-wise, month-wise power purchase quantity, the AP state level month-wise power purchase quantity is arrived by summing up all the Discoms power purchase quantity.
- f) The AP state level month-wise power purchase quantity so arrived is required because month-wise single merit order given in the Tariff Order by the Commission considering AP state as a whole. The state level power purchase made as per merit order furnished by the Discoms, is limited to (i) power purchase quantity as per Tariff Order for corresponding month (or) (ii) power purchase quantity arrived based on sales of AP state whichever is lesser. This component is classified as (Ei) in the FSA formula as per clause 45(B) of the Business Regulation.
- g) The merit order being followed for purpose of drawl of power is as follows: (i) NCEs, (ii) must-run stations (iii) APGenco Hydel stations (iv) least variable cost thermal stations (v) IPPs.

In case there is any shortfall in supply of energy by the approved stations, the shortfall of such energy is made up by short-term procurement, by limiting the quantities and rate prescribed in the Tariff Order and subsequently amended rate for the months of Oct, Nov & Dec-2012, for short-term power purchases.

- h) The actual weighted average cost is arrived by dividing the total variable cost in the merit order with power purchase quantity of the quarter (Ei).

- i) The difference of actual weighted average cost so arrived and weighted average cost as per tariff order is specified as  $(P_i)$  in the FSA formula.
- j) Thus the total variable cost is arrived by multiplying  $(P_i \times E_i)$  the difference (i.e.  $P_i$ , in the FSA formula as per clause 45(B) of Business Regulation) in the weighted average actual variable cost so arrived as per merit order and weighted average variable cost as per Tariff order with quantity of energy purchased and allowed by Commission after scrutiny (i.e.  $E_i$ , in the FSA formula as per clause 45(B) of Business Regulation).
- k) The Discoms have submitted the station wise actual fixed costs in monthly statements. The Discoms have shown STOA charges as under fixed charges. These are not part of power purchase cost as per Tariff Order and hence disallowed as stated in earlier paragraphs.  
  
The Rebate charges pertains to power purchase claimed is disallowed.
- l) The Discoms have stated that the variation in fixed cost is due to variation in taxes, incentives, variation in capital cost and interest there on etc. These claims arising from such variations pertain to CGS as per CERC Regulations and pertain to APGENCO stations as per APERC Regulations. The bills on this account have been scrutinized by the Commission and allowed.
- m) The difference in actual fixed charges (in the merit order) and the fixed charges as per Tariff Order is specified as  $FC_i$  (i.e.  $FC_i$ , in the FSA formula as per clause 45(B) of Business Regulation).
- n) The Discoms have shown certain amount in the FSA claims under the item (i.e.  $Z$ ) in the FSA formula under clause 45 (B) of Business Regulations as prior period expenditure. The prior period expenditure bills pertains to Central Generating Stations claimed by NTPC/Nuclear Power Stations are verified with reference to the



orders of CERC Regulations and/ or orders of AEC. The Commission has examined the invoices/Bills produced and after conducting the prudent check admitted an amount of Rs 99.916 Crs against the filing of Rs 162.119 Crs by the DISCOMs. The reduction is mainly due to recovery of low PLF balance amount of Rs 10.03Crs (101.86Crs- 91.82 Crs recovered in first quarter) in the month of Oct'12 and recovery of disincentive (35.41% penalty) amount of Rs 52.166Crs for the period July'11 to June' 12 , in the month of Nov'12, pertaining to M/s Konaseema.

- o) To arrive the FSA claim amount quarter-wise, month-wise values ( $P_i \times E_i$ ),  $FC_i$  and  $Z$  are summed up.
- p) The FSA eligible units (i.e.  $Q$  in the FSA formula under clause 45 (B) of Business Regulations) have been arrived by totaling the month-wise actual sales excluding agricultural sales for the entire quarter.
- q) The FSA rate to be billed for entire quarter is arrived by dividing the FSA claim amount for quarter with FSA eligible units of respective quarter.
- r) The Discom-wise quarterly FSA amount is arrived multiplying with quarterly FSA eligible units of Discom with FSA rate.

# CHAPTER - V

## DETERMINATION OF FSA

(for Third Quarter of FY 2012-13)

(OCTOBER 2012 to DECEMBER 2012)

<b>44. <u>Difference in the Weighted Average Variable Cost. (Pi)</u></b>	<b>Rs. / Unit</b>
<b><u>DISCOMs Claim:</u></b>	
Weighted Average Variable Cost of energy from all sources for Quarter -III as claimed by DISCOMs' in FSA claims (Annexure AI):	<b>2.6001</b>
<ul style="list-style-type: none"><li>▪ <i>(DISCOMs' claim is based on actual cost of energy purchased from other sources, to supplement any short-fall in the generation from the approved stations in Merit Order list specified in the Tariff Order.</i></li><li>▪ <i>Discoms have claimed UI charges pertain to Simhadri units of NTPC and SRPC (Southern Region Power committee).</i></li></ul>	
Weighted Average Variable Cost of energy from all sources for Quarter-III (as per T.O. 2012-13)	<b>2.1952</b>
<b>Pi</b> - Difference in the Weighted Average Variable Cost (Rs/kWh) claimed by the DISCOMs as a variation with respect to Tariff Order. (Annexure AI)	<b>0.4049</b>
<b><u>Commission's Scrutiny</u></b>	
Weighted Average Variable Cost of energy from all sources for Quarter-II as specified in Tariff Order (Rs/kWh): (Annx-G(VI) Pg- 247, T.O. 2012-13)	<b>2.1952</b>
The following points have been taken into consideration while scrutinizing the claim of DISCOMs	
<ul style="list-style-type: none"><li>▪ The monthly sales (Agrl. sales limited to T.O monthly quantity or Actual sales whichever is less) grossed-up with voltage-wise losses approved quantity specified in Tariff Order, whichever is lower has been taken for the purpose of the calculation.</li><li>▪ High cost power purchased from other sources if any, to supplement any</li></ul>	

shortfall in the approved stations, has been limited to a maximum ceiling price of Rs.5.50/kwh as subsequently amended the ceiling price from Rs.4.17/kWh to Rs.5.50/kWh for all short-term purchases made during the 3<sup>rd</sup> Quarter of FY 2012-13.

- The UI charge claims of NTPC Simhadri and SRPC were disallowed.
- The actual quantities of imported and domestic coal physically used for weighted average rate in each month differing with quantities of coal (Imported & domestic) claimed which reflects in arriving number of kWh units generated, Combined GCV and its cost.

The Weighted Average Variable Cost of Energy (Rs/kWh) determined by the Commission after scrutiny is as follows:

**2.4213**

Merit Order Month	Oct-12	Nov-12	Dec-12	Total
Actual Variable cost spent Rs.Crs - (1)	1534.32	1477.81	1490.96	<b>4503.08</b>
Purchased units MU (FSA Purpose)- (2)	<b>6378.83</b>	<b>5956.31</b>	<b>6262.37</b>	<b>18597.50</b>
<b>Wgt Avg Variable CPU (Ps/kWh) - 3=(1*10/2)</b>				<b>2.4213</b>

**Pi** - Difference in the Weighted Average Variable Cost (Rs/kWh) as determined by the Commission as compared to the figure in the Tariff Order. (Annexure AI)

**0.2261**

(The Pi. Allowed by the Commission is lesser by **17.88 paise/kWh** than the claim made by DISCOMs)

#### **45. Actual Energy Purchase (MU). (Ei)**

##### **DISCOMs' Claim:**

Actual Energy Purchase (MU) quantity claimed by the DISCOMs for the purpose of FSA. (Annexure A-I)

**19259.01**

- *Actual energy purchase by the DISCOMs for the quarter is **19259.01 MU**, DISCOMs have claimed for the same.*

**Commission's Scrutiny:**

Authorized Energy Purchase (MU) as specified in the T.O. (Annexure – D (III) of T.O, page 247) **22937.35**

The Commission after taking into account the required energy purchase based on actual sales to metered categories has limited the Quantum of sales for Agricultural to least of the Tariff Order quantity or actual Agrl. sales and the voltage wise losses specified in T.O, and determined the Actual Energy Purchase (Ei) (Annexure A-I) as:

Merit Order Month	Oct-12	Nov-12	Dec-12	Total
Purchased units (FSA Purpose)	6378.83	5956.31	6262.37	18597.50

**18597.50**

**46. Variation in Variable Cost: (Rs Crs) - (Pi X Ei) (Rs. Crs)**

**DISCOMs' Claim:**

Variation in the Variable Cost :- **(0.4049\*19259.01)/10** **779.89**

**Commission's Scrutiny:**

The Commission determined the variation in the Variable Cost as follows:

**(0.2261 \*18597.50)/10** **420.49**

(As a result of the Commission scrutiny the variation in variable cost is reduced by an amount of **Rs 359.40 Crs.**)

**47. Difference in actual Fixed Charges (Rs Crs) ( FCi) (Rs. Crs)**

**DISCOMs' Claim:**

Fixed cost specified in the T.O. (Rs.Crs) **2128.72**

Actual Fixed Cost claimed by the DISCOMs as paid in the quarter-3 for FSA claim purpose (Annexure A-I) **2254.99**

- DISCOMs claimed STOA charges also as part of fixed charges.

- DISCOMs allowed/claimed excess fixed charges & rebate charges of all Gas Based IPPs. **126.27**

Difference in the actual fixed charges as compared to the figure for fixed charges as specified in the T.O. & Annexure A I

**Commission's Scrutiny:**

Fixed Cost Payment for the quarter as specified in T.O. (Derived from Tables 19, Pg-45 of T. O. 2012-13) is : **2128.72**

Fixed cost determined by the Commission after scrutiny based on the following criteria: **2217.61**

- *The claims pertaining to STOA charges are disallowed since these charges are not part of power purchase cost as per the Tariff Order.*
- *The rebate charges and Fixed Charges of Gas based IPPs claimed were scrutinizes resulted in reduction of Fixed charges.*

Difference in the actual fixed charges as compared to the figure for fixed charges as specified in the T.O. Fci (as allowed by Commission) (Annexure –A I).

**88.89**

Merit Order Month	Oct-12	Nov-12	Dec-12	Total
Actual Fixed Cost Paid (Rs Crs)	736.58	735.70	745.33	2217.61
Fixed Cost as per TO (Rs Crs)	709.57	709.57	709.57	2128.72
Fci - Diffn in Fixed Cost (Rs. Crs)	27.01	26.13	35.76	88.89

- The scrutiny of the Commission has resulted in reduction in fixed charges to the tune of **Rs.37.38 crs** over the DISCOMs claims.

**48. Prior Period Expenditure (Rs Crs) ( Zi)**

**DISCOMs' Claim:**

Prior Period Expenditure for the quarter as claimed by DISCOMs. (Annexure A-I) **162.12**

- *DISCOMs have claimed prior period expenditure on the basis of bills actual received in respect of various generating stations.*

*Discoms have preferred in their claims the charges pertains to STOA charges.*

**Commission's Scrutiny:**

**Prior Period Expenditure (Zi)** determined by the Commission after scrutiny based on the following criteria:

- *The claims pertaining to STOA charges were disallowed by commission as they do not form part of the power purchase charges arrived at as detailed in the Tariff Order.*
- *The claims of Discoms pertains to prior period expenditure have be prudently checked verifying with the orders of CERC, Atomic Energy Commission and APERC.*

Merit Order Month	Oct-12	Nov-12	Dec-12	Total
Z - Prior Period cost (Rs. Crs)	112.88	-52.16	39.20	99.92

99.92

(The scrutiny of the Commission has resulted in reduction of Prior Period Expenditure, by an amount of Rs.62.20 Crs which is attributable to Konaseema IPP)

**49. Adjustments for Merit Order Violations (Rs Crs) ( Ai)**

The DISCOMs have not claimed any adjustments on this item.

The Commission has accepted the stand of the DISCOMs.

Hence Ai is determined as

0

**50. Calculation of FSA Amount:**

(Rs. in Crs.)

Based on the above determination, the Commission has determined the FSA amount as follows:

Pi X Ei / 10	(0.2261 *18597.50) / 10	420.49
FCi		88.89
Zi		99.92
Ai		---
<b>FSA amount</b>	<b>(Pi X Ei / 10 + FCi + Zi + Ai)</b>	<b>609.30</b>
	<b>(420.49 + 88.89 + 99.92 + 0)</b>	<b>Crs</b>

(The FSA amount claimed by the DISCOMs is Rs. 1068.28 Crs)

<p><b>51. <u>FSA eligible Sale Units (Qi)</u></b></p> <p><b>DISCOMs' Claim:</b></p> <p>FSA eligible units as claimed by the DISCOMs</p> <p><i>Claim of the DISCOMs includes consumption towards HT IV –Private Lift Irrigation Schemes also.</i></p>	<p><b>(MU)</b></p> <p><b>11175.55</b></p>
<p><b>Commission's Scrutiny:</b></p> <p>FSA eligible units as specified in Tariff Order: (Annexure H (i) of T.O. 2012-13)</p> <p>FSA eligible units determined by the Commission after considering HT Agriculture sales also (as it is a meter recorded energy) and shown as (Annexure –A1):</p>	<p><b>14712.05</b></p> <p><b>11139.68</b></p>
<p><b>52. <u>FSA Rate (Fi)</u></b></p> <p><b><u>FSA amount * 1000 / Qi</u></b></p>	<p><b>(Paise / kWh)</b></p>
<p>FSA Rate for the Third Quarter of FY 2012-13 as per the above determination of the Commission comes to</p> <p><b>(609.30 * 1000 / 11139.68)</b></p>	<p><b>54.70</b></p>

*(The per unit FSA claim of the DISCOMs is paise 95.59/ kWh)*

**53) Discom-wise Fuel Surcharge Adjustment amount as claimed and the FSA amount approved by Commission**

<b>APCPDCL (FY 2012-13)</b>	<b>DISCOM Claimed</b>	<b>APERC Approved</b>
Description	<b>Quarter – III</b>	
<b>(1) FSA Rate: Paise / kWh</b>	<b>95.59</b>	<b>54.70</b>
<b>(2) FSA Eligible Units (MU)</b>	<b>4960.78</b>	<b>4960.78</b>
<b>(3) FSA Amount (Rs Crs) = (1*2 / 1000)</b>	<b>474.20</b>	<b>271.37</b>

<b>APEPDCL (FY 2012-13)</b>	<b>DISCOM Claimed</b>	<b>APERC Approved</b>
Description	<b>Quarter – III</b>	
<b>(1) FSA Rate: Paise / kWh</b>	<b>95.59</b>	<b>54.70</b>
<b>(2) FSA Eligible Units (MU)</b>	<b>2317.34</b>	<b>2307.16</b>
<b>(3) FSA Amount (Rs Crs) = (1*2 / 1000)</b>	<b>221.52</b>	<b>126.21</b>

<b>APNPDCL (FY 2012-13)</b>	<b>DISCOM Claimed</b>	<b>APERC Approved</b>
Description	<b>Quarter – III</b>	
<b>(1) FSA Rate: Paise / kWh</b>	<b>95.59</b>	<b>54.70</b>
<b>(2) FSA Eligible Units (MU)</b>	<b>1327.19</b>	<b>1312.70</b>
<b>(3) FSA Amount (Rs Crs) = (1*2 / 1000)</b>	<b>126.87</b>	<b>71.81</b>

<b>APSPDCL (FY 2012-13)</b>	<b>DISCOM Claimed</b>	<b>APERC Approved</b>
Description	<b>Quarter – III</b>	
<b>(1) FSA Rate: Paise / kWh</b>	<b>95.59</b>	<b>54.70</b>
<b>(2) FSA Eligible Units (MU)</b>	<b>2570.24</b>	<b>2559.03</b>
<b>(3) FSA Amount (Rs Crs) = (1*2 / 1000)</b>	<b>245.69</b>	<b>139.99</b>



54. The Distribution Licensees are directed to charge FSA on all consumers (except LT Agriculture) consumers for the Third quarter of FY 2012-13 on monthly basis with effect from **July 2013** over a period of 3 months as shown in the Table below.

Consumption Month to which FSA Pertains to	FSA Rate (Paise /kWh)	To be collected along with monthly bill of
October, 2012	<b>54.70</b>	<b>July' 2013</b>
November, 2012	<b>54.70</b>	<b>August' 2013</b>
December, 2012	<b>54.70</b>	<b>September' 2013</b>

This order is signed on 23<sup>rd</sup> April, 2013.

Sd/-  
**R.ASHOKA CHARI**  
**MEMBER (TECHNICAL)**

Sd/-  
**C.R.SEKHAR REDDY**  
**MEMBER (FINANCE)**

Sd/-  
**A.RAGHOTHAM RAO**  
**CHAIRMAN**

**ANNEXURE - B**

**List of Objectors**

<b>Sl.</b>	<b>Name &amp; Address of the Objector</b>
1	Sri Jerome Inigo Jegam, Plant Head, M/s MRF Ltd., P.B. No. 2, Sadasivapet, Medak Dist 502 291 Phone Nos.(08455)252601 to 252609
2	Sri M.Manga Raju, M/s DRA Industries Ltd., APIIC Industrial Park, Attivaram (V), Ozili (M), Naidupet, SPS Nellore Dist. 524 421. email address: dra.industries@gmail.com
3	The Director, M/s Jayanti Boards Ltd., Mandapaka, Tanuku, West Godavari Dist. 534 218.
4	Sri B.N.Murthy, Managing Director, M/s VSF Projects Ltd., Plot No.89/A, Aiswarya, St.No.8, Sagar Society, Road No.2, Banjara Hills, Hyderabad 500 034. email address: vsfprojectsltd@rediffmail.com info@vsfprojects.com
5	M/s Salguti Industries Ltd., 3rd Floor, 8-2-334/18, Road No.3, Banjara Hills, Hyderabad 500 034. Phone Nos.(040)23545939 23543580
6	Sri Samba Raju Chakrapani, President, Consumers Council, Warangal, H.No.14-8-252, Charboul, Warangal 506 002. Phone No.(0870)2427555 Mobile No.9440328239 email address: scpconsumer@gmail.com
7	Sri Mogalicherla Sudharshan, Vice President, State Consumer Coordination Council, H.No.1-1-214, Viveknagar, Chikkadapally, Hyderabad. Phone No.(040)27660855 Mobile No.9440328239 email address: scpconsumer@gmail.com
8	Sri V.Bhaskar, Secretary, Women and Child Welfare Council, H.No.11-22-109/1, Rudrama Veedi, Kasibugga, Tilak Road, Warangal 506 002. Mobile No.9849386004
9	Er. Ch.Venkateswarlu, Rythu Samaikhya, Plot No.302, 33-10-14, Seetharampuram, Vijayawada 520 002. Mobile No.9848279866
10	Sri D.K.Roy, M/s Leo Laminates Pvt. Ltd., Survey No.252, Gaganpahad, Rangareddy Dist. 501 323. Phone Nos.(040)24363001 20023280 Mobile No.9177740909 email address: leolaminates0909@gmail.com
11	The Director, M/s Padmavati Ply Pvt. Ltd., Survey No.267&268, Gaganpahad, Rangareddy Dist. 501 323. Phone Nos.(040)65978909 65979909 24363999 email address: padmavatipty@gmail.com
12	Smt. K.Padma, Proprietor, M/s Andhra Pulp Products, Godavari Edible Oil road, Kesavaram, Mandapeta (M), East Godavari Dist. 533 341. Phone Nos.(08857)229717 229817
13	Smt. N.Kamala, Proprietor, M/s Sri Ramadas Pulp Packagings, Godavari Edible Oil road, Kesavaram, Mandapeta (M), East Godavari Dist. 533 341. Phone Nos.(08857)229717 229817
14	Sri N.Venkata Reddi, Managing Director, M/s Sri Ramadas Paper Boards Pvt. Ltd., 60-8-18, P&T Colony, Rajahmundry, East Godavari Dist. 533 105. Phone Nos.(0883)2461147 2442117 email address: ramadasworks@rediffmail.com
15	Sri Vimal, Director, M/s Abhedya Industries Ltd., Survey No.160, IDA Kothur (V & M), Mahabubnagar Dist.
16	Sri M.Sasidhar Babu, Executive Director, M/s Upputuramma Hotels and Resorts Pvt. Ltd., 14-2-118, 119, T.P.Area, Tirupati 517 501. Phone No.(0877)2256430 email address: hotelsindhuri@rediffmail.com
17	Sri M.Venugolala Rao, Convener, Centre for Power Studies, H.No.7-1-408 to 413, F 203, Sri Sai Darsan Residency, Balkampet Road, Ameerpet, Hyderabad 500 016.
18	Sri B.Janak Prasad, Official Spokesperson, YSR Congress Party, # Plot No.883-884, Road No.45, Jubilee Hills, Hyderabad 500 033. Phone Nos.(040)23609595 23609596

Sl.	Name & Address of the Objector
19	Sri Gaurav, Director, M/s Deevya Shakti Paper Mills (P) Ltd., Survey No.207-210, Kondurg (V & M), Shadnagar-Pargi Road, Mahabubnagar Dist. 509 207. Phone Nos.(040)24363001 20023280 Mobile No.9177740909 email address: info@deevyashakti.com
20	Sri J.V.V.Durga Prasad, Managing Director, M/s Sneha Vinyl Products Pvt. Ltd., IDA Renigunta, Chithoor Dist. 517 520.
21	Partner, M/s Rayalaseema Bio Fuels, 14-36, IDA Renigunta, Chithoor Dist. 517 520.
22	M/s Meenakshi Paper Mills Pvt. Ltd., Survey No.659, Satamrai, Gaganpahad, Hyderabad 501 323. Phone Nos.(08413)222909 222910 Mobile No.9652775177
23	Sri M.R.Prasad, Secretary General, A.P.Ferro Alloys Producers Association, Flat No.308, Nirmal Towers, Dwarakapuri Colony, Punjagutta, Hyderabad 500 082. Phone No.(040)23355336 email address: apfapa@rediffmail.com
24	Sri Banda Surender Reddy, General Secretary, All India Forward Bloc-AP, Flat No.504, Adhitya Nagar, Arul Colony, Dr. A.S.Road nagar, Kapra, Hyderabad 500 062. Mobile No.9440070050
25	Sri Konda Dayanand, All India Forward Bloc, H.No.1-9-252/11, Ramnagar, Hyderabad 500 020. Mobile No.9246270205
26	Sri Sulumula Krishna, All India Forward Bloc, H.No.41-12, Hanuman Nagar, Moula-Ali, Hyderabad 500 040. Mobile No.9849188429
27	Sri J.Janaki Ramulu, State Secretary, Revolutionary Socialist Party (RSP), 2-1-477, Prateek Towers, Opp. Post Office, Nallakunta, Hyderabad 500 044.
28	Sri Jupalli Arun Kumar, State Secretary, All India Progressive Students Union (AIPSU), 2-1-477, Prateek Towers, Opp. Post Office, Nallakunta, Hyderabad 500 044.
29	Sri Jalapu Ram Reddy, State President, All India Samuykta Kisan Sabha, H.No.3-60, Tangutur (V), Aleru (M), Nalgonda Dist. 508 101. Mobile No.9705157387
30	Sri Chinumulla Lenin, State President, All India Revolutionary Youth Front (AIRY), H.No.2-134, Ramavaram (V), Kesava Puram (Post), Vardhannapeta (M), Warangal Dist. 506 310.
31	Sri Mamilla Ramanjneyulu, Dist. Joint Secretary, Revolutionary Socialist Party (RSP), H.No.1-27, Chinna Pedamal (V), Thada Patri (M), Anantapur Dist. 515 411. Mobile No.9866949541
32	Sri Putluru Pullaiah, Dist. Secretary, Revolutionary Socialist Party (RSP), H.No.1-98, Patha Sunkalamma Colony, Peddapappur (V & M), Anantapur Dist. 515 446.
33	Sri Jwvari Ramesh Nayak, State Vice President, All India Progressive Students Union (AIPSU), H.No.2-98/17, Oblapur (V), Zaffargadh (M), Warangal Dist. 506 306.
34	Sri Vallam Das Kumar, Dist. Secretary, Revolutionary Socialist Party (RSP), H.No.1-49, Vadla Konda (V), Parvatagiri (M), Warangal Dist. 506 310.
35	Sri P.Prahalada, United Trade Union Congress (UTUC), H.No.4-8/1, Amanabolu (V), Golanconda (Post), Aleru (M), Nalgonda Dist. 508 101. Mobile No.9989470397
36	Sri Gurram Vijay Kumar, State Committee, ML Party, Kotagadda (V), Bayyaram (M), Khamma Dist. 507 211. Mobile No.9440261004
37	Sri Bootham Veeraiah, , Kotagadda (V), Bayyaram (M), Khamma Dist. 507 211. Mobile No.9505473119
38	Sri Ch.Murahari, State Committee Member,, SUCI (C) , A.P.State Organizing Committee, 804-B, Kushal Towers, Khairatabad, Hyderabad 500 004.

Sl.	Name & Address of the Objector
39	Dr. K.Narayana, Secretary, Communist Party of India, AP State Council, # 3-6-201, Makhdoom Bhavan, Street No.15, Himayathnagar, Hyderabad 500 029. Phone Nos.(040)23224966 23223338 email address: cpiap@rediffmail.com cpiapsc@gmail.com
40	Sri T.Harish Rao, MLA, TRS, Siddipet Constituency-33, Plot No.12, Vasantha Valley, Kondapur, Hyderabad. Phone No.(040)23114847
41	Sri M.Thimma Reddy, Convenor, People's Monitoring Group on Electricity Regulation, 1st Floor, 1-9-291/6/1, Vidyanagar, Hyderabad 500 044.
42	Sri B.V.Raghavulu, Secretary, Communist Party of India (Marxist), 1-1-60/2, M.B.Bhavan, RTC x Roads, Hyderabad 500 020. Phone Nos.(040)27665011 27665012 email address: cpimap@gmail.com email@cpimap.org
43	Sri R.V.Rao, Personnel Manager, M/s V.S.N.Hatcheries Pvt. Ltd., # 4-1667/2, Durga Nagar Colony, Greampet, Chittoor 517 002. Phone Nos.(08572)242299 242678 Mobile No.8008552378 email address: vsnhatcheries@yahoo.co.in
44	The Managing Partner, M/s Balaji Polypacks, Mapakshi Cross, Vellore Road, Chittoor 517 002. Mobile No.9848880641
45	Sri R.V.Rao, Personnel Manager, M/s Balaji Hatcheries, # 4-1667/2, Durga Nagar Colony, Greampet, Chittoor 517 002. Phone No.(08572)242299 242678 Mobile No. email address: balajihatcheries@yahoo.co.in
46	Sri R.K.Agarwal, Hon. Chairman, A.P.Spining Mills Association, 105, 1st Floor, Surya Towers, Sardar patel Road, Secunderabad 500 003. Phone No.(040)27890041 Mobile No.9849028556 email address: contact@apspin.com
47	M/s Arene Life Sciences Ltd., Plot No.49,50,209,210, IDA Pashamylaram, Patancheru, Medak Dist.
48	M/s Sri Chaitanya Chlorides Pvt. Ltd., Plot No.31&32, IDA Phase-II, Pashamylaram, patancheru, Medak Dist.
49	M/s S.R.Drugs & Intermediates (P) Ltd., Plot No.24, B/1, Phase-I, Patancheru, Medak Dist.
50	M/s A.V.R.Organics Pvt. Ltd., Survye No.12&13, Yavapur (V), Sadasivpet (M), Medak Dist.
51	The Secretary, Pashamylaram Notified Gram Panchayat Industrial Area Service Society, APIIC Admn. Building, Phase-I, IDA Pashamylaram, Medak Dist.
52	Sri V.V.Prasad, Executive Director, M/s Vimta Labs Ltd., 142, IDA Phase-II, Cherlapally, Hyderabad 500 051.
53	M/s Khair Steel Re-Rolling Mills & 8 Other Firms, Survey No.184, Julpally (V), Saroornagar (M), Rangareddy Dist.
54	Sri Dhulipalla V.A.S.Ravi Prasad, Advocate, 12-1-289, Road No.2, Anand Nagar Colony, GSI (SR) Post, Bandlaguda, Near Nagole, Hyderabad 500 068.
55	Sri K.Raghu, Certified Energy Manager and Auditor Coordinator, Telangana Electricity Employees Joint Action Committee, 204, SCK Residency, Niloufer Hospital Road, Lakdi-ka-pul, Hyderabad 500 004.
56	Sri Karankote Narender, Ann India Forward Bloc, H.No.1-9-252/1B, Ramnagar, Hyderabad 500 020. Mobile No.9246202464
57	Sri D.V.Krishna, State Secretariat Member, CPI(ML) New Democracy, 658 Marx Bhavan, 7th lane, Vidyanagar, Hyderabad 500 044. Phone No.(040)27607884
58	Sri M.V.Rajeshwara Rao, Secretary General, The Federation of Andhra Pradesh Chambers of Commerce & Industry, Federation House, FAPCCI Marg, Red Hills, Hyderabad 500 004. Phone Nos.(040)23395515 to 22 email address: info@fapcci.in

Quarter III (FY 2012-13)

Annexure - A ( I )

Particulars (FY 2012-13)	Filing	APERC
	3rd Qtr	3rd Qtr
Energy considered (MU)	19259.01	22937.35
	(Actuals)	(T.O )
<b>Ei - Purchased Energy (in MU) considered for FSA</b>	<b>19259.01</b>	<b>18597.50</b>
Actual Weighted Average Variable Cost (Rs/kWh)	2.6001	2.4213
Power Purchase Variable Cost Rs.Crs	5003.59	4503.08
<b>Weighted Average Variable Cost: T O (Rs/kWh)</b>	<b>2.1952</b>	<b>2.1952</b>
Pi.- Difference in Wgt. Avg. Variable Cost (Rs./kWh)	0.4049	0.2261
<b>( Pi x Ei ) (Rs.in Crores)</b>	<b>779.89</b>	<b>420.49</b>
<b>Actual Fixed Cost Paid (Rs Crs)</b>	<b>2254.99</b>	<b>2217.61</b>
<b>Fixed Cost allowed as per TO (Rs Crs)</b>	<b>2128.72</b>	<b>2128.72</b>
Fci - Difference in Fixed Cost (Rs. Crs)	126.27	88.89
Z - Prior Period cost (Rs. Crs)	162.12	99.92
Ai - Adj, for Merit Order violation (Rs. Crs)	-	-
<b>(Pi x Ei + Fci + Zi + Ai)</b>	<b>1068.28</b>	<b>609.30</b>
<b>FSA Eligible Units (Qi in MU)</b>	<b>11175.55</b>	<b>11139.68</b>
<b>Total Sales (Excl. Agrl.) MU - (Tariff Order)</b>		<b>14712.05</b>

FSA for Third Quarter of 2012-13

Item Name	Claimed by DISCOMs	Allowed by APERC
Quarterly FSA Claim (Rs Crs)	1068.28	609.30
FSA Eligible Units (MU)	11175.55	11139.68
FSA Rate Paise/kwh	95.59	54.70

**DISCOM wise, Month Wise, FSA approved by APERC for Quarter III  
(Oct - Dec) FY 2012-13**

<b>APCPDCL</b>	<b>APERC</b>	
<b>Description</b>	<b>3rd Qtr</b>	
<b>(1). FSA Rate: Paise / kWh</b>	<b>54.70</b>	
<b>(2). FSA Eligible Units (MU)</b>	<b>4960.78</b>	
<b>(3) = (1)X(2)/1000.</b>		
<b>FSA Amount recoverable (Rs Crs)</b>	<b>271.34</b>	
<b>APEPDCL</b>	<b>APERC</b>	
<b>Description</b>	<b>3rd Qtr</b>	
<b>(1). FSA Rate: Paise / kWh</b>	<b>54.70</b>	
<b>(2). FSA Eligible Units (MU)</b>	<b>2307.16</b>	
<b>(3) = (1)X(2)/1000.</b>		
<b>FSA Amount recoverable (Rs Crs)</b>	<b>126.19</b>	
<b>APNPDCL</b>	<b>APERC</b>	
<b>Description</b>	<b>3rd Qtr</b>	
<b>(1). FSA Rate: Paise / kWh</b>	<b>54.70</b>	
<b>(2). FSA Eligible Units (MU)</b>	<b>1312.70</b>	
<b>(3) = (1)X(2)/1000.</b>		
<b>FSA Amount recoverable (Rs Crs)</b>	<b>71.80</b>	
<b>APSPDCL</b>	<b>APERC</b>	
<b>Description</b>	<b>3rd Qtr</b>	
<b>(1). FSA Rate: Paise / kWh</b>	<b>54.70</b>	All DISCOMs
<b>(2). FSA Eligible Units (MU)</b>	<b>2559.03</b>	11139.68
<b>(3) = (1)X(2)/1000.</b>		
<b>FSA Amount recoverable (Rs Crs)</b>	<b>139.97</b>	<b>609.30</b>

**Annexure - II**

**EPDCL - Categorywise, monthwise & voltage wise kWh sales - Illrd Qtr of 2012-13**

Category	kWh Sales (in MU)			
	Oct-12	Nov-12	Dec-12	Total
<b>LT TOTAL</b>	<b>504.28</b>	<b>466.84</b>	<b>498.58</b>	<b>1,469.69</b>
Domestic Supply - Cat-I	270.10	278.94	234.97	784.00
Non-Domestic Supply - Cat-II	52.41	52.14	48.92	153.47
Industrial Supply - Cat-III	30.12	31.14	32.27	93.54
Cottage Industries - Cat-IV	0.41	0.19	0.72	1.31
Agricultural - Cat-V	121.20	78.18	150.67	350.05
Local Bodies, STLS & PWS/RWS - Cat-VI	26.67	23.04	26.78	76.49
General Purpose - Cat-VII	3.16	3.17	3.72	10.04
Temporary Supply - Cat-VIII	0.22	0.03	0.53	0.78
<b>HT 11 KV Total</b>	<b>109.69</b>	<b>106.57</b>	<b>108.42</b>	<b>324.69</b>
Industrial - Cat - I	66.86	64.88	67.47	199.21
Others - Cat-II	21.87	21.74	20.71	64.32
Aviation Activity at Airports - Cat-III	0.09	0.10	0.08	0.27
Irrigation & Agl. - Cat-IV	2.54	1.96	1.82	6.32
Railway Traction - Cat-V	-	-	-	-
Townships and Residential Colonies - Cat-VI	1.84	1.83	1.69	5.36
Green Power - Cat-VII	-	-	-	-
Electric Co-Op Societies - Cat-VIII	16.50	16.07	16.65	49.21
Temporary - Cat-IX	-	-	-	-
<b>HT 33 KV Total</b>	<b>73.05</b>	<b>69.89</b>	<b>61.15</b>	<b>204.10</b>
Industrial - Cat - I	57.14	56.37	50.60	164.11
Others - Cat-II	8.52	8.20	8.28	25.00
Aviation Activity at Airports - Cat-III	-	-	-	-
Irrigation & Agl. - Cat-IV	6.88	4.87	1.83	13.58
Railway Traction - Cat-V	-	-	-	-
Townships and Residential Colonies - Cat-VI	0.52	0.45	0.44	1.41
Green Power - Cat-VII	-	-	-	-
Electric Co-Op Societies - Cat-VIII	-	-	-	-
Temporary - Cat-IX	-	-	-	-
<b>HT 132 &amp; ABOVE KV Total</b>	<b>234.88</b>	<b>227.43</b>	<b>203.62</b>	<b>665.92</b>
Industrial - Cat - I	184.32	178.21	151.99	514.51
Others - Cat-II	4.67	4.54	5.61	14.81
Aviation Activity at Airports - Cat-III	-	-	-	-
Irrigation & Agl. - Cat-IV	-	-	-	-
Railway Traction - Cat-V	45.90	44.69	46.01	136.59
Townships and Residential Colonies - Cat-VI	-	-	-	-
Green Power - Cat-VII	-	-	-	-
Electric Co-Op Societies - Cat-VIII	-	-	-	-
Temporary - Cat-IX	-	-	-	-

## Annexure - II

### EPDCL - Categorywise, monthwise & voltage wise kWh sales - IIIrd Qtr of 2012-13

Category	kWh Sales (in MU)			
	Oct-12	Nov-12	Dec-12	Total
<b>HT - ALL VOLTAGE LEVELS</b>				
Industrial - Cat - I	308.32	299.45	270.06	877.83
Others - Cat-II	35.05	34.48	34.61	104.13
Aviation Activity at Airports - Cat-III	0.09	0.10	0.08	0.27
Irrigation & Agl. - Cat-IV	9.42	6.83	3.65	19.90
Railway Traction - Cat-V	45.90	44.69	46.01	136.59
Townships and Residential Colonies - Cat-VI	2.36	2.28	2.13	6.77
Green Power - Cat-VII	-	-	-	-
Electric Co-Op Societies - Cat-VIII	16.50	16.07	16.65	49.21
Temporary - Cat-IX	-	-	-	-
<b>HT Total</b>	<b>417.623</b>	<b>403.891</b>	<b>373.188</b>	<b>1194.702</b>
<b>LT + HT Total</b>	<b>921.899</b>	<b>870.726</b>	<b>871.764</b>	<b>2664.389</b>
FSA Sales W/o Agrl.	800.699	792.546	721.090	2314.335
Agrl Sales (Least)	0.000	0.000	0.000	0.000
Sales for FSA	800.699	792.546	721.090	2314.335
Less: RESCO Purchases	- 16.50	- 16.07	- 16.65	- 49.21
Add: RESCO SALES	14.38	14.08	13.58	42.04
Eligible Sales for FSA Recovery	798.58	790.56	718.02	2307.16



**Annexure - II**

**CPDCL - Categorywise, monthwise & voltage wise kWh sales - Illrd Qtr of 2012-13**

Category	kWh Sales (in MU)			
	Oct-12	Nov-12	Dec-12	Total
LT-I Domestic	487.75	453.78	472.10	1,413.63
LT-II(A&B) - Non-domestic/Commercial	154.01	149.85	156.80	460.66
LT-III (A & B) - Industrial	92.15	95.21	107.25	294.61
LT-IV - Cottage Industries & Dhobighats	1.35	1.27	1.47	4.09
LT-VA,A(i) & A(ii) - Irrign & Agril	699.08	615.10	703.40	2,017.58
LT-VI - Local Bodies, St. Lighting & PWS	70.45	68.59	69.05	208.09
LT-VII (A & B) - General Purpose	5.61	5.87	6.19	17.67
LT-VIII-Temporary Supply	0.10	0.13	0.11	0.34
<b>LT Total</b>	<b>1,510.50</b>	<b>1,389.80</b>	<b>1,516.37</b>	<b>4,416.67</b>
HT-I Industry Segregated	150.25	180.43	169.51	500.19
HT-I (B) Ferro-Alloys	0.63	0.66	0.77	2.06
HT-II Industrial Non-Segregated	74.97	79.92	80.05	234.95
HT-III Aviation	-	-	-	-
HT-IV A Govt. Lift Irrigation Schemes	0.44	0.67	0.81	1.92
HT-IV B Agriculture	1.38	1.59	1.33	4.30
HT-IV(C ) Composite PW Supply	3.77	5.33	5.56	14.67
HT-V Railway Traction	-	-	-	-
HT-VI Townships and Residential Colonies	6.23	6.71	6.57	19.52
Temporary	2.93	3.36	3.37	9.67
<b>HT 11 kV Total</b>	<b>240.61</b>	<b>278.67</b>	<b>267.98</b>	<b>787.26</b>
HT-I Industry Segregated	261.44	287.51	257.83	806.77
HT-I (B) Ferro-Alloys	17.86	16.71	20.70	55.27
HT-II Industrial Non-Segregated	37.83	37.65	34.80	110.28
HT-III Aviation	-	-	-	-
HT-IV A Govt. Lift Irrigation Schemes	1.41	2.26	2.51	6.18
HT-IV B Agriculture	0.68	1.07	0.75	2.50
HT-IV(C ) Composite PW Supply	1.46	1.84	1.32	4.63
HT-V Railway Traction	-	-	-	-
HT-VI Townships and Residential Colonies	2.28	2.30	2.28	6.85
Temporary	-	-	-	-
<b>HT 33 kV Total</b>	<b>322.96</b>	<b>349.33</b>	<b>320.19</b>	<b>992.48</b>
HT-I Industry Segregated	188.51	190.02	179.41	557.94
HT-I (B) Ferro-Alloys	5.68	6.07	5.87	17.62
HT-II Industrial Non-Segregated	3.20	2.99	3.02	9.21
HT-III Aviation	-	-	-	-
HT-IV A Govt. Lift Irrigation Schemes	0.53	0.84	0.99	2.36
HT-IV B Agriculture	-	-	-	-
HT-IV(C ) Composite PW Supply	-	-	-	-
HT-V Railway Traction	11.58	12.53	11.65	35.76

**Annexure - II**

**CPDCL - Categorywise, monthwise & voltage wise kWh sales - IIIrd Qtr of 2012-13**

Category	kWh Sales (in MU)			
	Oct-12	Nov-12	Dec-12	Total
HT-VI Townships and Residential Colonies	-	-	-	-
Temporary	-	-	-	-
<b>HT 132 kV Total</b>	<b>209.49</b>	<b>212.45</b>	<b>200.94</b>	<b>622.89</b>
HT-I Industry Segregated	19.52	32.68	18.05	70.25
HT-I (B) Ferro-Alloys	-	-	-	-
HT-II Industrial Non-Segregated	-	-	-	-
HT-III Aviation	4.17	4.13	4.10	12.40
HT-IV A Govt. Lift Irrigation Schemes	19.47	24.44	32.49	76.41
HT-IV B Agriculture	-	-	-	-
HT-IV(C ) Composite PW Supply	-	-	-	-
HT-V Railway Traction	-	-	-	-
HT-VI Townships and Residential Colonies	-	-	-	-
Temporary	-	-	-	-
<b>HT 220 kV Total</b>	<b>43.17</b>	<b>61.25</b>	<b>54.64</b>	<b>159.07</b>
HT-I Industry Segregated	619.72	690.64	624.79	1,935.15
HT-I (B) Ferro-Alloys	24.17	23.44	27.34	74.95
HT-II Industrial Non-Segregated	116.01	120.56	117.87	354.44
HT-III Aviation	4.17	4.13	4.10	12.40
HT-IV A Govt. Lift Irrigation Schemes	21.85	28.21	36.80	86.86
HT-IV B Agriculture	2.06	2.67	2.08	6.80
HT-IV(C ) Composite PW Supply	5.24	7.17	6.88	19.29
HT-V Railway Traction	11.58	12.53	11.65	35.76
HT-VI Townships and Residential Colonies	8.51	9.01	8.85	26.37
Temporary	2.93	3.36	3.37	9.67
<b>HT Total</b>	<b>816.23</b>	<b>901.71</b>	<b>843.75</b>	<b>2,561.69</b>
<b>LT+HT TOTAL</b>	<b>2,326.73</b>	<b>2,291.51</b>	<b>2,360.12</b>	<b>6,978.36</b>
Sales for Derivation for FSA	1627.65	1676.41	1656.72	4960.78
Agri Sales (Least)	0.00	0.00	0.00	0.00
<b>Sales for FSA</b>	<b>1627.65</b>	<b>1676.41</b>	<b>1656.72</b>	<b>4960.78</b>
Less: RESCO Purchases				-
Add: RESCO SALES				-
<b>Eligible Sales for FSA Recovery</b>	<b>1627.65</b>	<b>1676.41</b>	<b>1656.72</b>	<b>4960.78</b>

## Annexure - II

### NPDCL - Categorywise, monthwise & voltage wise kWh sales - Illrd Qtr of 2012-13

Category	kWh Sales (in MU)			
	Oct-12	Nov-12	Dec-12	Total
LT-I Domestic	182.15	137.61	157.84	<b>477.60</b>
LT-II(A&B) - Non-domestic/Commercial	33.23	28.13	34.21	<b>95.57</b>
LT-III (A & B) - Industrial	15.30	15.74	25.35	<b>56.39</b>
LT-IV - Cottage Industries & Dhobighats	0.50	0.43	0.49	<b>1.42</b>
LT-VA,A(i) & A(ii) - Irrigation and Agriculture	374.32	274.70	374.41	<b>1023.43</b>
LT-VI - Local Bodies, St. Lighting & PWS	24.27	20.22	24.11	<b>68.60</b>
LT-VII (A & B) - General Purpose	2.47	1.63	2.36	<b>6.45</b>
LT-VIII-Temporary Supply	0.00	0.00	0.00	<b>0.00</b>
<b>LT - Total</b>	<b>632.23</b>	<b>478.45</b>	<b>618.78</b>	<b>1729.45</b>
<b>HT - 11 kV VOLTAGE</b>				
Industrial - Cat - I	16.419	23.961	41.385	81.765
Others - Cat-II	5.735	6.849	6.118	18.702
Irrigation & Agl. - Cat-IV	2.514	2.905	3.071	8.490
Townships & Residential Colonies - HT-VI	1.010	1.116	1.108	3.234
Electric Co-Op Societies - Cat-VIII	37.521	34.992	36.068	108.581
<b>Total</b>	<b>63.20</b>	<b>69.82</b>	<b>87.75</b>	<b>220.77</b>
<b>HT - 33 kV VOLTAGE</b>				
Industrial - Cat - I	12.886	13.904	13.786	40.576
Others - Cat-II	0.270	0.246	0.272	0.788
Irrigation & Agl. - Cat-IV	2.829	2.723	2.115	7.667
Townships & Residential Colonies - HT-VI	2.280	2.649	2.586	7.515
Electric Co-Op Societies - Cat-VIII	1.908	1.674	2.072	5.654
<b>Total</b>	<b>20.17</b>	<b>21.20</b>	<b>20.83</b>	<b>62.20</b>
<b>HT - 132 VOLTAGE</b>				
Industrial - Cat - I	46.820	48.796	45.634	141.250
Others - Cat-II	4.009	0.000	0.000	4.009
Irrigation & Agl. - Cat-IV	28.225	17.003	15.966	61.194
HT-V Railway Traction	33.488	36.384	35.343	105.215
Townships & Residential Colonies - HT-VI	2.694	6.997	6.442	16.133
<b>Total</b>	<b>115.24</b>	<b>109.18</b>	<b>103.39</b>	<b>327.80</b>
<b>HT - 220 VOLTAGE</b>				
Others - Cat-II	0.191	0.008	0.063	0.262
Irrigation & Agl. - Cat-IV	7.737	2.282	0.112	10.131
<b>Total</b>	<b>7.93</b>	<b>2.29</b>	<b>0.18</b>	<b>10.39</b>
Industrial - Cat - I	76.125	86.661	100.805	<b>263.591</b>
Others - Cat-II	10.205	7.103	6.453	<b>23.761</b>
Irrigation & Agl. - Cat-IV	41.305	24.913	21.264	<b>87.482</b>
HT-V Railway Traction	33.488	36.384	35.343	<b>105.215</b>
Townships & Residential Colonies - HT-VI	5.984	10.762	10.136	<b>26.882</b>

**Annexure - II**

**NPDCL - Categorywise, monthwise & voltage wise kWh sales - Illrd Qtr of 2012-13**

Category	kWh Sales (in MU)			
	Oct-12	Nov-12	Dec-12	Total
Electric Co-Op Societies - Cat-VIII	39.429	36.666	38.140	<b>114.235</b>
<b>ALL HT TOTAL</b>	<b>206.54</b>	<b>202.49</b>	<b>212.14</b>	<b>621.17</b>
<b>LT &amp; HT TOTAL</b>	<b>838.77</b>	<b>680.94</b>	<b>830.92</b>	<b>2350.62</b>
Sales for Derivation for FSA	464.45	406.24	456.50	1327.19
Agri Sales (Least)	0.00	0.00	0.00	0.00
Sales for FSA	<b>464.45</b>	<b>406.24</b>	<b>456.50</b>	<b>1327.19</b>
Less: RESCO Purchases	39.43	36.67	38.14	114.24
Add: RESCO SALES	34.30	32.27	33.18	99.75
Eligible Sales for FSA Recovery	<b>459.32</b>	<b>401.84</b>	<b>451.55</b>	<b>1312.70</b>

**Annexure - II**

**SPDCL - Categorywise, monthwise & voltage wise kWh sales - Illrd Qtr of 2012-13**

Category	kWh Sales (in MU)			
	Oct-12	Nov-12	Dec-12	Total
<b>LT Category Total</b>	<b>915.01</b>	<b>841.80</b>	<b>864.52</b>	<b>2621.33</b>
LT-I Domestic	357.78	359.58	339.96	<b>1057.32</b>
LT-II(A&B) - Non-domestic/Commercial	65.87	68.39	75.69	<b>209.95</b>
LT-III (A & B) - Industrial	55.40	57.33	66.81	<b>179.53</b>
LT-IV - Cottage Industries & Dhobighats	1.65	2.03	1.84	<b>5.52</b>
LT-VA,A(i) & A(ii) - Irrigation and Agriculture	400.51	319.85	343.16	<b>1063.52</b>
LT-VI - Local Bodies, St. Lighting & PWS	30.08	30.82	32.82	<b>93.73</b>
LT-VII (A & B) - General Purpose	3.71	3.77	4.22	<b>11.70</b>
LT-VIII-Temporary Supply	0.01	0.03	0.01	<b>0.05</b>
<b>HT Category at 11 KV Total</b>	<b>92.16</b>	<b>84.33</b>	<b>80.66</b>	<b>257.15</b>
HT-I Industry Segregated	44.36	41.22	39.83	<b>125.40</b>
Lights & Fans	-	-	-	-
Colony consumption	0.14	0.13	0.13	<b>0.40</b>
Seasonal Industries	1.77	0.76	0.73	<b>3.26</b>
HT-I Indrl. Time-of-Day Tariff (6 PM to 10 PM)	-	-	-	-
HT-I (B) Ferro-Alloys	-	-	-	-
HT-II Industrial Non-Segregated	20.90	22.04	18.89	<b>61.82</b>
HT-III Aviation	0.04	0.04	0.04	<b>0.11</b>
HT-IV A Govt. Lift Irrigation Schemes	0.03	0.03	0.02	<b>0.08</b>
HT-IV B Agriculture	0.80	0.71	1.34	<b>2.85</b>
HT-IV(C ) Composite PW Supply	0.49	0.39	0.44	<b>1.33</b>
HT-VI Townships and Residential Colonies	1.70	1.62	1.58	<b>4.90</b>
HT-VII - Green Power	-	-	-	-
RESCOs	21.94	17.41	17.66	<b>57.01</b>
Temporary	-	-	-	-
<b>HT Category at 33 kV Total</b>	<b>141.17</b>	<b>129.30</b>	<b>124.95</b>	<b>395.43</b>
HT-I Industry Segregated	129.30	119.30	115.27	<b>363.87</b>
Lights & Fans	-	-	-	-
Colony consumption	0.58	0.59	0.57	<b>1.74</b>
Seasonal Industries	1.73	1.43	1.39	<b>4.55</b>
HT-I Indrl. Time-of-Day Tariff (6 PM to 10 PM)	-	-	-	-
HT-I (B) Ferro-Alloys	3.77	3.52	3.40	<b>10.69</b>
HT-II Industrial Non-Segregated	5.65	4.05	3.82	<b>13.52</b>
HT-III Aviation	-	-	-	-
HT-IV A Govt. Lift Irrigation Schemes	-	-	-	-
HT-IV B Agriculture	0.01	0.21	0.37	<b>0.59</b>
Composite Public Water Supply Schemes	0.03	0.12	0.04	<b>0.19</b>
HT-VI Townships and Residential Colonies	0.10	0.08	0.08	<b>0.26</b>
HT-VII - Green Power	-	-	-	-

**Annexure - II**

**SPDCL - Categorywise, monthwise & voltage wise kWh sales - Illrd Qtr of 2012-13**

Category	kWh Sales (in MU)			
	Oct-12	Nov-12	Dec-12	Total
RESCOs	-	-	-	-
Temporary	-	-	-	-
<b>HT Category at 132 kV Total</b>	<b>123.18</b>	<b>121.12</b>	<b>115.55</b>	<b>359.85</b>
HT-I Industry Segregated	78.81	74.73	72.20	<b>225.74</b>
Lights & Fans	-	-	-	-
Colony consumption	0.53	0.56	0.55	<b>1.64</b>
Seasonal Industries	-	-	-	-
HT-I Indrl. Time-of-Day Tariff (6 PM to 10 PM)	-	-	-	-
HT-I (B) Ferro-Alloys	2.32	1.97	1.91	<b>6.20</b>
HT-II Industrial Non-Segregated	0.30	0.36	0.34	<b>1.01</b>
HT-III Aviation	-	-	-	-
HT-IV A Govt. Lift Irrigation Schemes	-	-	-	-
HT-IV B Agriculture	-	-	-	-
Composite Public Water Supply Schemes	-	-	-	-
HT-V Railway Traction	41.21	43.49	40.56	<b>125.26</b>
HT-VI Townships and Residential Colonies	-	-	-	-
HT-VII - Green Power	-	-	-	-
RESCOs	-	-	-	-
Temporary	-	-	-	-
<b>Total (LT &amp; HT)</b>	<b>1271.53</b>	<b>1176.56</b>	<b>1185.68</b>	<b>3633.76</b>
<b>HT - ALL VOLTAGE LEVELS</b>				
Industrial - Cat - I	263.31	244.22	235.97	743.49
Others - Cat-II	26.85	26.45	23.05	76.36
Aviation Activity at Airports - Cat-III	0.04	0.04	0.04	0.11
Irrigation & Agl. - Cat-IV	1.37	1.45	2.22	5.03
Railway Traction - Cat-V	41.21	43.49	40.56	125.26
Townships and Residential Colonies - Cat-VI	1.80	1.70	1.66	5.17
Green Power - Cat-VII	-	-	-	-
Electric Co-Op Societies - Cat-VIII	21.94	17.41	17.66	57.01
Temporary - Cat-IX	-	-	-	-
<b>HT Total</b>	<b>356.52</b>	<b>334.76</b>	<b>321.16</b>	<b>1012.43</b>
<b>Grand Total</b>	<b>1271.53</b>	<b>1176.56</b>	<b>1185.68</b>	<b>3633.76</b>
Sales for Derivation for FSA	871.01	856.71	842.52	2570.24
Agri Sales (Least)	0.00	0.00	0.00	0.00
Sales for FSA	871.01	856.71	842.52	2570.24
Less: RESCO Purchases	- 21.94	- 17.41	- 17.66	- 57.01
Add: RESCO SALES	14.96	15.17	15.67	45.80
Eligible Sales for FSA Recovery	864.03	854.47	840.53	2559.03

## Annexure - II

### All Discoms - Categorywise, monthwise & voltage wise kWh sales - IIIrd Qtr of 2012-13

Category	kWh Sales (in MU)			
	Oct-12	Nov-12	Dec-12	Total
<b>LT Category</b>	<b>3562.02</b>	<b>3176.88</b>	<b>3498.23</b>	<b>10237.13</b>
LT-I Domestic	1,297.78	1,229.91	1,204.87	<b>3732.55</b>
LT-II(A&B) - Non-domestic/Commercial	305.51	298.51	315.62	<b>919.64</b>
LT-III (A & B) - Industrial	192.96	199.42	231.68	<b>624.07</b>
LT-IV - Cottage Industries & Dhobighats	3.91	3.91	4.51	<b>12.33</b>
LT-VA,A(i) & A(ii) - Irrigation and Agriculture	1,595.11	1,287.83	1,571.65	<b>4454.59</b>
LT-VI - Local Bodies, St. Lighting & PWS	151.47	142.68	152.76	<b>446.91</b>
LT-VII (A & B) - General Purpose	14.95	14.43	16.49	<b>45.87</b>
LT-VIII-Temporary Supply	0.33	0.19	0.65	<b>1.17</b>
<b>HT Category at 11 KV</b>	<b>505.66</b>	<b>539.40</b>	<b>544.81</b>	<b>1589.87</b>
HT-I Industry Segregated	280.42	312.02	319.82	<b>912.27</b>
HT-II Industrial Non-Segregated	123.48	130.54	125.77	<b>379.80</b>
HT-III Aviation	0.12	0.13	0.13	<b>0.38</b>
HT-IV A,B & C Lift Irrigation Schemes	11.97	13.59	14.39	<b>39.94</b>
HT-VI Townships and Residential Colonies	10.78	11.28	10.95	<b>33.01</b>
RESCOs	75.96	68.47	70.38	<b>214.80</b>
Temporary	2.93	3.36	3.37	<b>9.67</b>
<b>HT Category at 33 KV</b>	<b>557.36</b>	<b>569.72</b>	<b>527.12</b>	<b>1654.20</b>
HT-I Industry Segregated	484.71	499.33	463.54	<b>1,447.58</b>
HT-II Industrial Non-Segregated	52.27	50.14	47.18	<b>149.59</b>
HT-III Aviation				-
HT-IV A,B & C Lift Irrigation Schemes	13.30	13.10	8.94	<b>35.34</b>
HT-VI Townships and Residential Colonies	5.18	5.47	5.39	<b>16.04</b>
RESCOs	1.91	1.67	2.07	<b>5.65</b>
Temporary				-
<b>HT Category at 132 KV</b>	<b>733.88</b>	<b>733.73</b>	<b>678.31</b>	<b>2145.92</b>
HT-I Industry Segregated	526.51	533.05	475.60	<b>1,535.16</b>
HT-II Industrial Non-Segregated	12.37	7.90	9.04	<b>29.31</b>
HT-III Aviation	4.17	4.13	4.10	<b>12.40</b>
HT-IV A,B & C Lift Irrigation Schemes	55.96	44.57	49.56	<b>150.09</b>
HT-V Railway Traction	132.17	137.09	133.56	<b>402.83</b>
HT-VI Townships and Residential Colonies	2.69	7.00	6.44	<b>16.13</b>
HT-VII - Green Power				-
RESCOs				-
Temporary				-
<b>Total (LT &amp; HT)</b>	<b>5358.93</b>	<b>5019.72</b>	<b>5248.47</b>	<b>15627.13</b>
<b>HT - ALL VOLTAGE LEVELS</b>				
Industrial - Cat - I	1,291.64	1,344.41	1,258.97	3,895.01
Others - Cat-II	188.12	188.58	181.99	558.69

## Annexure - II

### All Discoms - Categorywise, monthwise & voltage wise kWh sales - IIIrd Qtr of 2012-13

Category	kWh Sales (in MU)			
	Oct-12	Nov-12	Dec-12	Total
Aviation Activity at Airports - Cat-III	4.30	4.26	4.23	12.79
Irrigation & Agl. - Cat-IV	81.23	71.25	72.89	225.37
Railway Traction - Cat-V	132.17	137.09	133.56	402.83
Townships and Residential Colonies - Cat-VI	18.66	23.75	22.77	65.19
Green Power - Cat-VII				
Electric Co-Op Societies - Cat-VIII	77.86	70.14	72.45	220.46
Temporary - Cat-IX	2.93	3.36	3.37	9.67
<b>HT Total</b>	<b>1796.91</b>	<b>1842.85</b>	<b>1750.24</b>	<b>5389.99</b>
<b>Grand Total</b>	<b>5358.93</b>	<b>5019.72</b>	<b>5248.47</b>	<b>15627.13</b>

Eligible Sales Ex-Agrl for FSA Recovery	Oct-12	Nov-12	Dec-12	Total
EPDCL	798.58	790.56	718.02	2307.16
CPDCL	1627.65	1676.41	1656.72	4960.78
SPDCL	864.03	854.47	840.53	2559.03
NPDCL	459.32	401.84	451.55	1312.70
<b>Total</b>	<b>3749.58</b>	<b>3723.28</b>	<b>3666.82</b>	<b>11139.68</b>



## Annexure - III (Merit Order List)

FSA for the month Oct'12

Station	Energy Dispatch (APERC-in MU)	Actual Energy Purchased (kWh)	Actual Variable Cost	Actual VC/kWh	Ei (Energy in kWh)	Variable Cost in Rs.	Actual VC/kWh	ACTUAL - FC (in Rs.)	Prior Period Exp in Rs.
NCEs	77	80184136	276458646	3.45	80184136	276458646	3.45	0	0
NPC Kaiga - I & II	64	66494407	199842290	3.01	66494407	199842290	3.01	0	0
NPC Kaiga - III & IV	64	69211187	208007301	3.01	69211187	208007301	3.01	0	0
NPC-MAPS	19	22418882	45671772	2.04	22418882	45671772	2.04	0	0
NTECL - VALLURU	0	0	0	0.00	0	0	0.00	0	0
GMR-Rajahmundry	0	0	0	0.00	0	0	0.00	0	0
LVS	0	0	0	0.00	0	0	0.00	30586982	0
APGE-Hydel	767	395655189	0	0.00	395655189	0	0.00	977000000	0
KTPS V (D)	311	274585900	392983506	1.43	274585900	386680308	1.41	183525000	0
NTPC-Talcher-ST II	297	267396042	409650736	1.53	267396042	409650736	1.53	201455917	6921648
NTPC(ER)-Talcher-I	0	11654891	17855293	1.53	11654891	17855293	1.53	9577308	442908
NTPC(SR)	470	366547519	635959945	1.73	366547519	635959945	1.73	212765575	-11551163
NTPC-Simhadri -I	661	531712015	929432603	1.75	531712015	929432603	1.75	573410202	1165591654
NTPC-Simhadri -II	355	227910361	400210594	1.76	227910361	400210594	1.76	395506208	25072193
NTPC(SR) ST III	121	116373259	223553031	1.92	116373259	223553031	1.92	104972186	19213811
Reliance	103	51015150	102006826	2.00	51015150	99456655	1.95	131523875	0
Konaseema	93	64704810	130690293	2.02	64704810	127423036	1.97	263179907	-100364494
Gautami	44	86905714	176895698	2.04	86905714	172473306	1.98	275006492	0
GVK-Extension	14	36554701	74704085	2.04	36554701	72836483	1.99	126560898	0
NLC ST-II	107	121988694	243395436	2.00	121988694	243395436	2.00	75650859	0
NLC ST-I	44	47652756	95182556	2.00	47652756	95182556	2.00	29559842	0
Vemagiri-GMR	81	65630898	134317090	2.05	65630898	130959163	2.00	219277080	-34091078
NTPC(ER)-Kahalgaon	0	14277076	29325114	2.05	14277076	29325114	2.05	14223879	2661689
APGPCL ST-II	19	14460661	29933568	2.07	14460661	29933568	2.07	3325952	0
GVK	102	90126717	192577097	2.14	90126717	187762670	2.08	87262299	0
KTPS(ABC)	378	262571000	537912625	2.05	262571000	559406074	2.13	304266667	0
LANCO	173	122111788	271190235	2.22	122111788	264410479	2.17	285350960	0
SPGL	96	68388384	157072092	2.30	68388384	153145290	2.24	81096467	0
APGPCL ST-I	6	8763865	20419805	2.33	8763865	20419805	2.33	1661553	0
Kakatiya Stage-I	310	310211200	782860471	2.52	310211200	725976392	2.34	575125000	0
RTS-B	36	8399900	19322033	2.30	8399900	20352857	2.42	43241667	0
VTPS(I,II,III)	721	670097000	1708516442	2.55	670097000	1620033337	2.42	402783333	0
Srivathsa	9	3509205	9469865	2.70	3509205	9375166	2.67	3157968	0
KTPS VI	317	330415000	968454673	2.93	330415000	895979411	2.71	494983333	0
NTPC(ER) - Farakka	0	17262976	48733381	2.82	17262976	48733381	2.82	14755395	1544284
VTPS IV	322	348309000	1196685175	3.44	348309000	1104303282	3.17	436283333	0
RTPP -ST III	131	108723981	384461590	3.54	108723981	356255607	3.28	268091667	0
RTPP-ST II	262	249671000	882867872	3.54	249671000	818096364	3.28	353900000	0
RTPP-I	135	194043000	686160309	3.54	194043000	635820231	3.28	186716667	0
<b>Other sources</b>	<b>1238</b>								
UI-SRPC	0	7092865	22342526	3.15	0	0	0.00	0	0
MP Power Trading	0	30127325	117496566	3.90	30127325	117496566	3.90	0	0
GMR ENER.TRAD.LTD	0	30486033	121944132	4.00	30486033	121944132	4.00	0	0
UI-NTPC simhadri	0	4523684	18975723	4.19	0	0	0.00	0	0
M/s NTPC (NVVNL)	0	156368662	701851684	4.49	156368662	701851684	4.49	0	0
Venkatarama	0	512428	2305926	4.50	512428	2305926	4.50	0	0
TATA Power	0	42873471	203648987	4.75	42873471	203648987	4.75	0	0
Reliance Energy	0	58509870	292549350	5.00	58509870	292549350	5.00	0	0
Knowledge Infrastructure	0	23409364	117046820	5.00	23409364	117046820	5.00	0	0

## FSA for the month Oct'12

Station	Energy Dispatch (APERC-in MU)	Actual Energy Purchased (kWh)	Actual Variable Cost	Actual VC/kWh	Ei (Energy in kWh)	Variable Cost in Rs.	Actual VC/kWh	ACTUAL - FC (in Rs.)	Prior Period Exp in Rs.
Indian Energy Exchange	0	5139325	26727543	5.20	5139325	26727543	5.20	0	0
Aravali	0	70056093	366151972	5.23	70056093	366151972	5.23	0	0
PTC India Ltd	0	230401778	1211726218	5.26	230401778	1211726218	5.26	0	53370088
Lanco El. Utility Ltd.,	0	50793600	277333056	5.46	5004712	27325730	5.46	0	0
JSWPTC	0	260400000	1471260000	5.65	0	0	0.00	0	0
<b>STOA</b>								<b>0</b>	<b>0</b>
<b>TOTAL</b>	<b>7949</b>	<b>6696632762</b>	<b>17574140551</b>	<b>2.62</b>	<b>6378827325.46</b>	<b>15343153108</b>	<b>2.41</b>	<b>7365784472</b>	<b>1128811540</b>
<b>Calculation of FSA as per APERC</b>									
<b>Quantity of Power Purchase after grossing up actual sales (kWh)</b>						<b>6378827325.46</b>			
<b>Variable Cost (Actuals) (Rs.Crs.)</b>						<b>1534.3153</b>			
<b>Fixed cost Actuals</b>						<b>736.58</b>			
<b>Fixed cost as per TO (Pg No.45-Table 19 &amp; Pg.53 - Table 27 of Tariff Order)</b>						<b>709.57</b>			
<b>Variance in Fixed Cost (Fci) (Rs. Crs.)</b>						<b>27.0051</b>			
<b>Prior Period Expenditure (Z) (Rs. Crs.)</b>						<b>112.8811540</b>			
<b>FSA (Rs. Crs.)</b>						<b>320.61442</b>			

## Annexure - III (Merit Order List)

FSA for the month Nov'12

Station	Energy Dispatch (APERC-in MU)	Actual Energy Purchased (kWh)	Actual Variable Cost	Actual VC/kWh	Ei (Energy in kWh)	Variable Cost in Rs.	Actual VC/kWh	ACTUAL - FC (in Rs.)	Prior Period Exp in Rs.
NCEs	81	66376465	228335993	3.44	66376465	228335993	3.44	0	0
NPC Kaiga - I & II	69	62506010	187855562	3.01	62506010	187855562	3.01	0	0
NPC Kaiga - III & IV	69	53872269	161688371	3.00	53872269	161688371	3.00	0	0
NPC-MAPS	19	21212396	43220297	2.04	21212396	43220297	2.04	0	0
GMR-Rajahmundry	0	0	0	0.00	0	0	0.00	0	0
LVS	0	0	0	0.00	0	0	0.00	91635506	0
APGE-Hydel	410	327217022	0	0.00	327217022	0	0.00	977000000	0
NTPC(ER) - Farakka	0	21432565	28498207	1.33	21432565	28498207	1.33	19195606	0
KTPS V (D)	301	266864300	395546937	1.48	266864300	398027220	1.49	183525000	0
NTPC-Talcher-ST II	288	235894084	372712653	1.58	235894084	372712653	1.58	189407420	19011
NTPC(ER)-Talcher-I	0	17066403	26964917	1.58	17066403	26964917	1.58	14234728	2853
NTPC(SR)	414	384740105	622509490	1.62	384740105	622509490	1.62	223265783	0
NTPC-Simhadri -II	169	194723223	343197480	1.76	194723223	343197480	1.76	373384639	0
NTPC-Simhadri -I	640	520048750	921491394	1.77	520048750	921491394	1.77	558950195	0
NTPC(ER)-Kahalgaoon	0	14627843	26374001	1.80	14627843	26374001	1.80	14455811	0
NTECL - VALLURU	0	1227735	2333925	1.90	1227735	2333925	1.90	4229777	0
Reliance	87	47443623	94568773	1.99	47443623	92204554	1.94	128155978	0
NLC ST-I	54	56700868	113213538	2.00	56700868	113213538	2.00	35276835	0
NLC ST-II	85	101295838	202329174	2.00	101295838	202329174	2.00	63042976	0
GVK-Extension	45	24619189	51216488	2.08	24619189	49936076	2.03	123578693	0
Gautami	59	46506152	96915827	2.08	46506152	94492931	2.03	268456169	0
Vemagiri_GMR	75	46209796	96338563	2.08	46209796	93930099	2.03	213435631	0
Konaseema	90	41207837	86376356	2.10	41207837	84216947	2.04	256941366	-521664895
KTPS(ABC)	398	261164000	514179078	1.97	261164000	538879176	2.06	304266667	0
APGPCL ST-II	19	15216080	31497286	2.07	15216080	31497286	2.07	3499698	0
GVK	99	82610064	175058428	2.12	82610064	170681967	2.07	85238010	0
SPGL	93	73398012	155731082	2.12	73398012	151993536	2.07	80211858	0
LANCO	146	116810952	251334815	2.15	116810952	245051445	2.10	279821258	0
RTS-B	35	36878100	83218292	2.26	36878100	80193089	2.17	43241667	0
APGPCL ST-I	6	7588955	17682265	2.33	7588955	17682265	2.33	1427041	0
NTPC(SR) ST III	117	110705828	265915399	2.40	110705828	265915399	2.40	100243310	0
Kakatiya Stage-I	150	253267200	654246823	2.58	253267200	618476640	2.44	575125000	0
VTSPS(I,II,III)	759	638665000	1674972053	2.62	638665000	1615179680	2.53	402783333	0
Srivathsa	8	3349992	8757479	2.61	3349992	8669904	2.59	3014692	0
KTPS VI	306	279045000	847571316	3.04	279045000	794776483	2.85	494983333	0
RTPP -ST III	127	82731678	285097092	3.45	82731678	262258832	3.17	268091667	0
RTPP-ST II	253	235385000	811147322	3.45	235385000	746168778	3.17	353900000	0
RTPP-I	250	242992000	837361387	3.45	242992000	770282914	3.17	186716667	0
VTSPS IV	312	283091000	979402216	3.46	283091000	905474831	3.20	436283333	0
<b>Other sources</b>	<b>1471</b>								
UI-SRPC	0	11562781	29600719	2.56	0	0	0.00	0	0
MP Power Trading	0	57901170	225814559	3.90	57901170	225814559	3.90	0	0
Venkatarama	0	512190	2304855	4.50	512190	2304855	4.50	0	0
TATA Power	0	42335720	194744312	4.60	42335720	194744312	4.60	0	0
Reliance Energy	0	53532502	267662510	5.00	53532502	267662510	5.00	0	0
Knowledge Infrastructure	0	22491679	112458395	5.00	22491679	112458395	5.00	0	0
M/s NTPC (NVVNL)	0	13350132	66832660	5.01	13350132	0	0.00	0	0
UI-NTPC simhadri	0	2288768	11609282	5.07	0	0	0.00	0	0
PTC India Ltd	0	133955627	696959418	5.20	133955627	696959418	5.20	0	0
Power Exchange Ltd	0	1050620	5585047	5.32	1050620	5585047	5.32	0	0
Aravali	0	56257535	306252846	5.44	56257535	306252846	5.44	0	0

## Annexure - III (Merit Order List)

## FSA for the month Nov'12

Station	Energy Dispatch (APERC-in MU)	Actual Energy Purchased (kWh)	Actual Variable Cost	Actual VC/kWh	Ei (Energy in kWh)	Variable Cost in Rs.	Actual VC/kWh	ACTUAL - FC (in Rs.)	Prior Period Exp in Rs.
Lanco El. Utility Ltd.,	0	41440800	226266768	5.46	41440800	226266768	5.46	0	0
Indian Energy Exchange	0	2906770	15954655	5.49	2906770	15954655	5.49	0	0
GMR ENER.TRAD.LTD	0	19982877	111904111	5.60	19982877	109905824	5.50	0	0
JSWPTC	0	256648505	1450064055	5.65	235897050	1297433775	5.50	0	0
<b>STOA</b>								<b>0</b>	<b>0</b>
<b>TOTAL</b>	<b>7503</b>	<b>5990909010</b>	<b>15418874471</b>	<b>2.57</b>	<b>5956306006</b>	<b>14778058017</b>	<b>2.4811</b>	<b>7357019646</b>	<b>-521643031</b>
<b>Calculation of FSA as per APERC</b>									
<b>Quantity of Power Purchase after grossing up actual sales (kWh)</b>						<b>5956306006</b>			
<b>Variable Cost (Actuals) (Rs.Crs.)</b>						<b>1477.8058</b>			
<b>Fixed cost Actuals</b>						<b>735.70</b>			
<b>Fixed cost as per TO (Pg NO.45-Table 19 &amp; Pg.53 - Table 27 of Tariff Order)</b>						<b>709.57</b>			
<b>Variance in Fixed Cost (Fci) (Rs. Crs.)</b>						<b>26.1286</b>			
<b>Prior Period Expenditure (Z) (Rs. Crs.)</b>						<b>-52.1643031</b>			
<b>FSA (Rs. Crs.)</b>						<b>1451.77013</b>			

## Annexure - III (Merit Order List)

FSA for the month Dec'12

Station	Energy Dispatch (APERC-in MU)	Actual Energy Purchased (kWh)	Actual Variable Cost	Actual VC/kWh	Ei (Energy in kWh)	Variable Cost in Rs.	Actual VC/kWh	ACTUAL - FC (in Rs.)	Prior Period Exp in Rs.
NCEs	159	120056214	398487937	3.32	120056214	398487937	3.32	0	0
NPC Kaiga - I & II	68	64889039	195017517	3.01	64889039	195017517	3.01	0	0
NPC Kaiga - III & IV	68	69582770	209124057	3.01	69582770	209124057	3.01	0	0
NPC-MAPS	19	20311767	41408127	2.04	20311767	41408127	2.04	0	0
GMR-Rajahmundry	0	0	0	0.00	0	0	0.00	0	0
LVS	0	0	0	0.00	0	0	0.00	30586982	0
APGE-Hydel	308	169902482	0	0.00	169902482	0	0.00	1417610000	0
NTPC(ER)-Kahalgaon	0	15155866	18679817	1.23	15155866	18679817	1.23	14932292	0
NTPC-Talcher-ST II	297	257843709	340353696	1.32	257843709	340353696	1.32	202368801	0
NTPC(ER)-Talcher-I	0	18905934	24955833	1.32	18905934	24955833	1.32	15778814	0
KTPS V (D)	311	278234900	426589794	1.53	278234900	437676777	1.57	183525000	0
NTPC(ER) - Farakka	0	29898987	48825046	1.63	29898987	48825046	1.63	25207257	0
NTPC(SR)	449	475121200	802954829	1.69	475121200	802954829	1.69	276152498	0
NTPC-Simhadri -II	368	214614204	414102813	1.93	214614204	414102813	1.93	396176939	0
NTPC-Simhadri -I	661	649441750	1257690068	1.94	649441750	1257690068	1.94	633717532	0
Reliance	103	39261954	79664935	2.03	39261954	77673312	1.98	111159918	0
NLC ST-I	58	51956706	103436311	1.99	51956706	103436311	1.99	32663492	0
NLC ST-II	90	131343004	261564015	1.99	131343004	261564015	1.99	81849028	0
KTPS(ABC)	411	336604000	662141542	1.97	336604000	679763299	2.02	304266667	0
Gautami	77	39841395	83313663	2.09	39841395	81015645	2.03	121490382	0
GVK-Extension	46	16936311	35517789	2.10	16936311	34629844	2.04	52382885	0
Konaseema	93	30956468	65206594	2.11	30956468	63576429	2.05	107730285	0
APGPCL ST-II	19	15217310	31499832	2.07	15217310	31499832	2.07	3499981	0
Vemagiri	78	29183217	60852824	2.09	29183217	60852824	2.09	91986638	0
SPGL	72	79292666	170633741	2.15	79292666	166538531	2.10	81702396	0
GVK	104	80909095	174223298	2.15	80909095	169867716	2.10	88412272	0
LANCO	171	122159490	268948569	2.20	122159490	262224855	2.15	252427740	391995808
RTS-B	36	40132000	92345936	2.30	40132000	86769754	2.16	43241667	0
NTECL - VALLURU	0	9308336	21613956	2.32	9308336	21613956	2.32	56577707	0
APGPCL ST-I	6	7210395	16800220	2.33	7210395	16800220	2.33	1377392	0
VTPS(I,II,III)	784	679803000	1694190856	2.49	679803000	1611699045	2.37	402783333	0
NTPC(SR) ST III	121	118294913	281350906	2.38	118294913	281350906	2.38	105560105	0
Kakatiya Stage-I	310	306127300	786708441	2.57	306127300	746216493	2.44	575125000	0
VTPS IV	322	289844000	784898489	2.71	289844000	723365576	2.50	436283333	0
KTPS VI	317	352779000	919560677	2.61	352779000	887670767	2.52	494983333	0
Srivathsa	8	3420131	9033849	2.64	3420131	8943511	2.61	3077810	0
RTPP-I	259	260222000	840522217	3.23	260222000	773022357	2.97	186716667	0
RTPP-ST II	262	151132000	488159355	3.23	151132000	448956717	2.97	353900000	0
RTPP -ST III	131	136562609	441099934	3.23	136562609	405676499	2.97	268091667	0
<b>Other sources</b>	<b>901</b>								
UI-SRPC	0	11660113	34630536	2.97	0	0	0.00	0	0
MP Power Trading	0	49203633	191894165	3.90	49203633	191894165	3.90	0	0
Venkatarama	0	529549	2382971	4.50	529549	2382971	4.50	0	0
UI-NTPC simhadri	0	2571355	12134625	4.72	0	0	0.00	0	0
TATA Power	0	42994930	204225918	4.75	42994930	204225918	4.75	0	0
M/s NTPC (NVVNL)	0	13270807	66354035	5.00	13270807	0	0.00	0	0
Reliance Energy	0	64408682	322043410	5.00	64408682	322043410	5.00	0	0
Knowledge Infrastructure	0	26469156	132345780	5.00	26469156	132345780	5.00	0	0
Aravali	0	104900035	540453671	5.15	104900035	540453671	5.15	0	0
PTC India Ltd	0	233534659	1242517356	5.32	233534659	1242517356	5.32	0	0

## Annexure - III (Merit Order List)

## FSA for the month Dec'12

Station	Energy Dispatch (APERC-in MU)	Actual Energy Purchased (kWh)	Actual Variable Cost	Actual VC/kWh	Ei (Energy in kWh)	Variable Cost in Rs.	Actual VC/kWh	ACTUAL - FC (in Rs.)	Prior Period Exp in Rs.
Lanco El. Utility Ltd.,	0	25020000	136609200	5.46	14600065	79716356	5.46	0	0
GMR ENER.TRAD.LTD	0	17038690	95416664	5.60	0	0	5.50	0	0
JSWPTC	0	267410320	1510868310	5.65	0	0	5.50	0	0
<b>STOA</b>								<b>0</b>	<b>0</b>
<b>TOTAL</b>	<b>7486</b>	<b>6571468051</b>	<b>17043354124</b>	<b>2.59</b>	<b>6262367638</b>	<b>14909584558</b>	<b>2.381</b>	<b>7453345812</b>	<b>391995808</b>
<b>Calculation of FSA as per APERC</b>									
<b>Quantity of Power Purchase after grossing up actual sales (kWh)</b>						<b>6262367638</b>			
<b>Variable Cost (Actuals) (Rs.Crs.)</b>						<b>1490.9585</b>			
<b>Fixed cost Actuals</b>						<b>745.33</b>			
<b>Fixed cost as per TO (Pg NO.45-Table 19 &amp; Pg.53 - Table 27 of Tariff Order)</b>						<b>709.57</b>			
<b>Variance in Fixed Cost (Fci) (Rs. Crs.)</b>						<b>35.76125</b>			
<b>Prior Period Expenditure (Z) (Rs. Crs.)</b>						<b>39.19958</b>			
<b>FSA (Rs. Crs.)</b>						<b>1565.919</b>			

**Annexure - IV**

**POWER PURCHASE (IN MU) WITH Actual SALES, Adju Agrl. and Normative LOSSES  
Power Purchase, Losses (MYT) & Sales (in MU) for 3rd Qtr of FY 2012-13**

FY 2012-13	Voltage	Oct-12	Voltage	Sales	LT	11kV	33kV	132kV
<b>EPDCL</b>	L.T.	<b>5.13%</b>	L.T.	504.28	531.54	555.25	575.21	599.56
15.80%	11kV	<b>4.27%</b>	11kV	109.69		114.58	118.70	123.73
	33kV	3.47%	33kV	73.05			75.68	78.88
CGS (MU)	132kV	4.06%	132kV	234.88				244.82
<b>162.77</b>	PGCIL	4.98%	<b>TOTAL</b>	<b>921.90</b>	<b>531.54</b>	<b>669.84</b>	<b>769.60</b>	<b>1046.98</b>
% Loss up to said voltage :					<b>5.13%</b>	<b>8.34%</b>	<b>10.73%</b>	<b>11.95%</b>
						D. Loss:	82.58	
						T. Loss	42.51	
						PGC Loss	8.11	<b>1055.09</b>
Loss(MU) & % Loss incl.PGCIL :					<b>TOTAL</b>	<b>133.19</b>	<b>12.62%</b>	

FY 2012-13	Voltage	Nov-12	Voltage	Sales	LT	11kV	33kV	132kV
<b>EPDCL</b>	L.T.	5.13%	L.T.	466.84	492.08	514.03	532.51	555.04
15.80%	11kV	4.27%	11kV	106.57		111.33	115.33	120.21
	33kV	3.47%	33kV	69.89			72.40	75.47
CGS (MU)	132kV	4.06%	132kV	227.43				237.05
<b>159.85</b>	PGCIL	4.98%	<b>TOTAL</b>	<b>870.73</b>	<b>492.08</b>	<b>625.35</b>	<b>720.24</b>	<b>987.77</b>
% Loss up to said voltage :					<b>5.13%</b>	<b>8.31%</b>	<b>10.68%</b>	<b>11.85%</b>
						D. Loss:	76.94	
						T. Loss	40.10	
						PGC Loss	7.96	<b>995.73</b>
Loss(MU) & % Loss incl.PGCIL :					<b>TOTAL</b>	<b>125.00</b>	<b>12.55%</b>	

FY 2012-13	Voltage	Dec-12	Voltage	Sales	LT	11kV	33kV	132kV
<b>EPDCL</b>	L.T.	5.13%	L.T.	498.58	525.54	548.98	568.71	592.78
15.80%	11kV	4.27%	11kV	108.42		113.26	117.33	122.29
	33kV	3.47%	33kV	61.15			63.35	66.03
CGS (MU)	132kV	4.06%	132kV	203.62				212.23
<b>183.10</b>	PGCIL	4.98%	<b>TOTAL</b>	<b>871.76</b>	<b>525.54</b>	<b>662.24</b>	<b>749.39</b>	<b>993.33</b>
% Loss up to said voltage :					<b>5.13%</b>	<b>8.34%</b>	<b>10.84%</b>	<b>12.24%</b>
						D. Loss:	81.24	
						T. Loss	40.33	
						PGC Loss	9.12	<b>1002.45</b>
Loss(MU) & % Loss incl.PGCIL :					<b>TOTAL</b>	<b>130.69</b>	<b>13.04%</b>	

FY 2012-13	Voltage	3 Mnts	Voltage	Sales	LT	11kV	33kV	132kV
<b>Yearly</b>	L.T.	5.13%	L.T.	1469.69	1549.16	1618.26	1676.43	1747.37
15.80%	11kV	4.27%	11kV	324.69	-	339.17	351.36	366.23
	33kV	3.47%	33kV	204.10	-	-	211.43	220.38
CGS (MU)	132kV	<b>4.06%</b>	132kV	665.92	-	-	-	694.10
<b>505.73</b>	PGCIL	<b>4.98%</b>	<b>TOTAL</b>	<b>2664.39</b>	<b>1549.16</b>	<b>1957.43</b>	<b>2239.22</b>	<b>3028.08</b>
% Loss up to said voltage :					<b>5.13%</b>	<b>8.33%</b>	<b>10.75%</b>	<b>12.01%</b>
						D. Loss:	240.76	
						T. Loss	122.94	
						PGC Loss	25.19	<b>3053.27</b>
Loss(MU) & % Loss incl.PGCIL :					<b>TOTAL</b>	<b>388.88</b>	<b>12.74%</b>	

**Annexure - IV**

**POWER PURCHASE (IN MU) WITH Actual SALES, Adju Agrl. and Normative LOSSES  
Power Purchase, Losses (MYT) & Sales (in MU) for 3rd Qtr of FY 2012-13**

FY 2012-13	Voltage	Oct-12	Voltage	Sales	LT	11kV	33kV	132kV
<b>CPDCL</b>	L.T.	<b>8.70%</b>	L.T.	1510.50	1654.44	1750.73	1821.78	1898.87
46.06%	11kV	<b>5.50%</b>	11kV	240.61		254.61	264.95	276.16
	33kV	3.90%	33kV	322.96			336.07	350.29
CGS (MU)	132kV	4.06%	132kV	252.66				263.35
<b>474.51</b>	PGCIL	4.98%	TOTAL	<b>2326.73</b>	<b>1654.44</b>	<b>2005.34</b>	<b>2422.79</b>	<b>2788.67</b>
% Loss up to said voltage :					<b>8.70%</b>	<b>12.68%</b>	<b>14.39%</b>	<b>16.56%</b>
						D. Loss:	348.72	
						T. Loss	113.22	
						PGC Loss	23.63	<b>2812.30</b>
Loss(MU) & % Loss incl.PGCIL :					TOTAL		<b>485.57</b>	<b>17.27%</b>

FY 2012-13	Voltage	Nov-12	Voltage	Sales	LT	11kV	33kV	132kV
<b>CPDCL</b>	L.T.	8.70%	L.T.	1389.80	1522.23	1610.83	1676.20	1747.13
46.06%	11kV	5.50%	11kV	278.67		294.89	306.86	319.84
	33kV	3.90%	33kV	349.33			363.51	378.89
CGS (MU)	132kV	4.06%	132kV	273.71				285.29
<b>466.00</b>	PGCIL	4.98%	TOTAL	<b>2291.51</b>	<b>1522.23</b>	<b>1905.72</b>	<b>2346.57</b>	<b>2731.16</b>
% Loss up to said voltage :					<b>8.70%</b>	<b>12.45%</b>	<b>14.01%</b>	<b>16.10%</b>
						D. Loss:	328.76	
						T. Loss	110.88	
						PGC Loss	23.21	<b>2754.36</b>
Loss(MU) & % Loss incl.PGCIL :					TOTAL		<b>462.86</b>	<b>16.80%</b>

FY 2012-13	Voltage	Dec-12	Voltage	Sales	LT	11kV	33kV	132kV
<b>FY 2012-14</b>	L.T.	8.70%	L.T.	1516.37	1660.8609	1757.52	1828.85	1906.24
<b>FY 2012-15</b>	11kV	5.50%	11kV	267.98		283.57	295.08	307.57
	33kV	3.90%	33kV	320.19			333.18	347.28
CGS (MU)	132kV	4.06%	132kV	255.58				266.40
<b>533.78</b>	PGCIL	4.98%	TOTAL	<b>2360.12</b>	<b>1660.86</b>	<b>2041.10</b>	<b>2457.12</b>	<b>2827.50</b>
% Loss up to said voltage :					<b>8.70%</b>	<b>12.58%</b>	<b>14.35%</b>	<b>16.53%</b>
						D. Loss:	352.58	
						T. Loss	114.80	
						PGC Loss	26.58	<b>2854.08</b>
Loss(MU) & % Loss incl.PGCIL :					TOTAL		<b>493.96</b>	<b>17.31%</b>

FY 2012-13	Voltage	3 Mnts	Voltage	Sales	LT	11kV	33kV	132kV
<b>Yearly</b>	L.T.	8.70%	L.T.	4416.67	4837.53	5119.08	5326.83	5552.25
46.06%	11kV	5.50%	11kV	787.26	-	833.08	866.89	903.57
	33kV	3.90%	33kV	992.48	-	-	1032.76	1076.46
CGS (MU)	132kV	<b>4.06%</b>	132kV	781.95	-	-	-	815.04
<b>1474.29</b>	PGCIL	<b>4.98%</b>	TOTAL	<b>6978.36</b>	<b>4837.53</b>	<b>5952.16</b>	<b>7226.47</b>	<b>8347.33</b>
% Loss up to said voltage :					<b>8.70%</b>	<b>12.57%</b>	<b>14.25%</b>	<b>16.40%</b>
						D. Loss:	1030.07	
						T. Loss	338.90	
						PGC Loss	73.42	<b>8420.75</b>
Loss(MU) & % Loss incl.PGCIL :					TOTAL		<b>1442.39</b>	<b>17.13%</b>



**Annexure - IV**

**POWER PURCHASE (IN MU) WITH Actual SALES, Adju Agrl. and Normative LOSSES  
Power Purchase, Losses (MYT) & Sales (in MU) for 3rd Qtr of FY 2012-13**

FY 2012-13	Voltage	Oct-12	Voltage	Sales	LT	11kV	33kV	132kV
<b>SPDCL</b>	L.T.	<b>6.30%</b>	L.T.	915.01	976.53	1019.88	1062.37	1107.33
22.27%	11kV	<b>4.25%</b>	11kV	92.16		96.25	100.26	104.50
	33kV	4.00%	33kV	141.17			147.06	153.28
CGS (MU)	132kV	4.06%	132kV	123.18				128.39
<b>229.43</b>	PGCIL	4.98%	<b>TOTAL</b>	<b>1271.53</b>	<b>976.53</b>	<b>1116.13</b>	<b>1309.69</b>	<b>1493.51</b>
% Loss up to said voltage :					<b>6.30%</b>	<b>9.76%</b>	<b>12.32%</b>	<b>14.86%</b>
						D. Loss:	161.34	
						T. Loss	60.64	
						PGC Loss	11.43	<b>1504.93</b>
Loss(MU) & % Loss incl.PGCIL :					<b>TOTAL</b>		<b>233.41</b>	<b>15.51%</b>

FY 2012-13	Voltage	Nov-12	Voltage	Sales	LT	11kV	33kV	132kV
<b>SPDCL</b>	L.T.	6.30%	L.T.	841.80	898.40	938.27	977.37	1018.73
22.27%	11kV	4.25%	11kV	84.33		88.08	91.75	95.63
	33kV	4.00%	33kV	129.30			134.69	140.39
CGS (MU)	132kV	4.06%	132kV	121.12				126.25
<b>225.31</b>	PGCIL	4.98%	<b>TOTAL</b>	<b>1176.56</b>	<b>898.40</b>	<b>1026.35</b>	<b>1203.81</b>	<b>1381.00</b>
% Loss up to said voltage :					<b>6.30%</b>	<b>9.76%</b>	<b>12.33%</b>	<b>14.80%</b>
						D. Loss:	148.37	
						T. Loss	56.07	
						PGC Loss	11.22	<b>1392.22</b>
Loss(MU) & % Loss incl.PGCIL :					<b>TOTAL</b>		<b>215.66</b>	<b>15.49%</b>

FY 2012-13	Voltage	Dec-12	Voltage	Sales	LT	11kV	33kV	132kV
<b>SPDCL</b>	L.T.	6.30%	L.T.	864.52	922.64304	963.60	1003.75	1046.22
22.27%	11kV	4.25%	11kV	80.66		84.24	87.75	91.46
	33kV	4.00%	33kV	124.95			130.15	135.66
CGS (MU)	132kV	4.06%	132kV	115.55				120.44
<b>258.08</b>	PGCIL	4.98%	<b>TOTAL</b>	<b>1185.68</b>	<b>922.64</b>	<b>1047.84</b>	<b>1221.65</b>	<b>1393.79</b>
% Loss up to said voltage :					<b>6.30%</b>	<b>9.80%</b>	<b>12.40%</b>	<b>14.93%</b>
						D. Loss:	151.53	
						T. Loss	56.59	
						PGC Loss	12.85	<b>1406.64</b>
Loss(MU) & % Loss incl.PGCIL :					<b>TOTAL</b>		<b>220.97</b>	<b>15.71%</b>

FY 2012-13	Voltage	3 Mnts	Voltage	Sales	LT	11kV	33kV	132kV
<b>Yearly</b>	L.T.	6.30%	L.T.	2621.33	2797.57	2921.75	3043.49	3172.28
22.27%	11kV	4.25%	11kV	257.15	0.00	268.57	279.76	291.60
	33kV	4.00%	33kV	395.43	0.00	0.00	411.90	429.33
CGS (MU)	132kV	<b>4.06%</b>	132kV	359.85	0.00	0.00	0.00	375.08
<b>712.82</b>	PGCIL	<b>4.98%</b>	<b>TOTAL</b>	<b>3633.76</b>	<b>2797.57</b>	<b>3190.31</b>	<b>3735.15</b>	<b>4268.29</b>
% Loss up to said voltage :					<b>6.30%</b>	<b>9.77%</b>	<b>12.35%</b>	<b>14.87%</b>
						D. Loss:	461.24	
						T. Loss	173.29	
						PGC Loss	35.50	<b>4303.79</b>
Loss(MU) & % Loss incl.PGCIL :					<b>TOTAL</b>		<b>670.03</b>	<b>15.57%</b>

**Annexure - IV**

**POWER PURCHASE (IN MU) WITH Actual SALES, Adju Agrl. and Normative LOSSES  
Power Purchase, Losses (MYT) & Sales (in MU) for 3rd Qtr of FY 2012-13**

FY 2012-13	Voltage	Oct-12	Voltage	Sales	LT	11kV	33kV	132kV
<b>NPDCIL</b>	L.T.	<b>7.40%</b>	L.T.	632.23	682.76	714.93	744.72	776.23
15.87%	11kV	<b>4.50%</b>	11kV	63.20		66.18	68.93	71.85
	33kV	4.00%	33kV	20.17			21.01	21.90
CGS (MU)	132kV	4.06%	132kV	123.16				128.38
<b>163.49</b>	PGCIL	4.98%	<b>TOTAL</b>	<b>838.77</b>	<b>682.76</b>	<b>781.10</b>	<b>834.66</b>	<b>998.36</b>
% Loss up to said voltage :						<b>10.97%</b>	<b>14.26%</b>	<b>15.99%</b>
						D. Loss:	119.06	
						T. Loss	40.53	
						PGC Loss	8.14	<b>1006.50</b>
Loss(MU) & % Loss incl.PGCIL :						<b>TOTAL</b>	<b>167.74</b>	<b>16.67%</b>

FY 2012-13	Voltage	Nov-12	Voltage	Sales	LT	11kV	33kV	132kV
<b>NPDCIL</b>	L.T.	7.40%	L.T.	478.45	516.68	541.03	563.57	587.42
15.87%	11kV	4.50%	11kV	69.82		73.11	76.16	79.38
	33kV	4.00%	33kV	21.20			22.08	23.01
CGS (MU)	132kV	4.06%	132kV	111.47				116.19
<b>160.56</b>	PGCIL	4.98%	<b>TOTAL</b>	<b>680.94</b>	<b>516.68</b>	<b>614.14</b>	<b>661.81</b>	<b>806.00</b>
% Loss up to said voltage :						<b>10.73%</b>	<b>13.95%</b>	<b>15.52%</b>
						D. Loss:	92.34	
						T. Loss	32.72	
						PGC Loss	8.00	<b>814.00</b>
Loss(MU) & % Loss incl.PGCIL :						<b>TOTAL</b>	<b>133.06</b>	<b>16.35%</b>

FY 2012-13	Voltage	Dec-12	Voltage	Sales	LT	11kV	33kV	132kV
<b>NPDCIL</b>	L.T.	7.40%	L.T.	618.78	668.2241	699.71	728.87	759.71
15.87%	11kV	4.50%	11kV	87.75		91.88	95.71	99.76
	33kV	4.00%	33kV	20.83			21.70	22.62
CGS (MU)	132kV	4.06%	132kV	103.56				107.94
<b>183.92</b>	PGCIL	4.98%	<b>TOTAL</b>	<b>830.92</b>	<b>668.22</b>	<b>791.60</b>	<b>846.28</b>	<b>990.03</b>
% Loss up to said voltage :						<b>10.75%</b>	<b>14.05%</b>	<b>16.07%</b>
						D. Loss:	118.92	
						T. Loss	40.20	
						PGC Loss	9.16	<b>999.19</b>
Loss(MU) & % Loss incl.PGCIL :						<b>TOTAL</b>	<b>168.28</b>	<b>16.84%</b>

FY 2012-13	Voltage	3 Mnts	Voltage	Sales	LT	11kV	33kV	132kV
<b>Yearly</b>	L.T.	7.40%	L.T.	1729.45	1867.66	1955.67	2037.15	2123.36
15.87%	11kV	4.50%	11kV	220.77	0.00	231.17	240.81	251.00
	33kV	4.00%	33kV	62.20	0.00	0.00	64.79	67.53
CGS (MU)	132kV	<b>4.06%</b>	132kV	338.19	0.00	0.00	0.00	352.51
<b>507.97</b>	PGCIL	<b>4.98%</b>	<b>TOTAL</b>	<b>2350.62</b>	<b>1867.66</b>	<b>2186.84</b>	<b>2342.75</b>	<b>2794.40</b>
% Loss up to said voltage :						<b>10.82%</b>	<b>14.10%</b>	<b>15.88%</b>
						D. Loss:	330.32	
						T. Loss	113.45	
						PGC Loss	25.30	<b>2819.69</b>
Loss(MU) & % Loss incl.PGCIL :						<b>TOTAL</b>	<b>469.07</b>	<b>16.64%</b>

**Annexure - IV**

**POWER PURCHASE (IN MU) WITH Actual SALES, Adju Agrl. and Normative LOSSES  
Power Purchase, Losses (MYT) & Sales (in MU) for 3rd Qtr of FY 2012-13**

FY 2012-13	Voltage	Oct-12	Voltage	Sales	LT	11kV	33kV	132kV
<b>Combined</b>	L.T.	7.37%	L.T.	3562.02	3845.27	4040.79	4204.08	4381.99
	11kV	4.88%	11kV	505.66	-	531.63	552.85	576.24
	33kV	3.87%	33kV	557.36	-	-	579.81	604.35
CGS (MU)	132kV	4.06%	132kV	733.88	-	-	-	764.94
<b>1030.21</b>	PGCIL	4.98%	<b>TOTAL</b>	<b>5358.93</b>	<b>3845.27</b>	<b>4572.41</b>	<b>5336.74</b>	<b>6327.52</b>
% Loss up to said voltage :						<b>11.04%</b>	<b>13.34%</b>	<b>15.31%</b>
D. Loss:						711.70		
T. Loss						256.90		
PGC Loss						51.30		<b>6378.83</b>
Loss(MU) & % Loss incl.PGCIL :						<b>TOTAL</b>	<b>1019.90</b>	<b>15.99%</b>

FY 2012-13	Voltage	Nov-12	Voltage	Sales	LT	11kV	33kV	132kV
<b>Combined</b>	L.T.	7.36%	L.T.	3176.88	3429.39	3604.16	3749.64	3908.32
	11kV	4.94%	11kV	539.40	-	567.41	590.09	615.06
	33kV	3.87%	33kV	569.72	-	-	592.68	617.76
CGS (MU)	132kV	4.06%	132kV	733.73	-	-	-	764.78
<b>1011.72</b>	PGCIL	4.98%	<b>TOTAL</b>	<b>5019.72</b>	<b>3429.39</b>	<b>4171.56</b>	<b>4932.42</b>	<b>5905.92</b>
% Loss up to said voltage :						<b>10.91%</b>	<b>13.11%</b>	<b>15.01%</b>
D. Loss:						646.42		
T. Loss						239.78		
PGC Loss						50.38		<b>5956.31</b>
Loss(MU) & % Loss incl.PGCIL :						<b>TOTAL</b>	<b>936.58</b>	<b>15.72%</b>

FY 2012-13	Voltage	Dec-12	Voltage	Sales	LT	11kV	33kV	132kV
<b>Combined</b>	L.T.	7.39%	L.T.	3498.23	3777.26	3969.81	4130.17	4304.95
	11kV	4.91%	11kV	544.81	-	572.96	595.87	621.09
	33kV	3.88%	33kV	527.12	-	-	548.39	571.59
CGS (MU)	132kV	4.06%	132kV	678.31	-	-	-	707.02
<b>1158.89</b>	PGCIL	4.98%	<b>TOTAL</b>	<b>5248.47</b>	<b>3777.26</b>	<b>4542.77</b>	<b>5274.43</b>	<b>6204.66</b>
% Loss up to said voltage :						<b>11.00%</b>	<b>13.35%</b>	<b>15.41%</b>
D. Loss:						704.27		
T. Loss						251.91		
PGC Loss						57.71		<b>6262.37</b>
Loss(MU) & % Loss incl.PGCIL :						<b>TOTAL</b>	<b>1013.89</b>	<b>16.19%</b>

FY 2012-13	Voltage	3 Mnts	Voltage	Sales	LT	11kV	33kV	132kV
<b>Yearly</b>	L.T.	7.37%	L.T.	10237.13	11051.92	11614.75	12083.90	12595.26
	11kV	4.91%	11kV	1589.87	0.00	1671.99	1738.81	1812.40
	33kV	3.87%	33kV	1654.20	0.00	0.00	1720.88	1793.71
CGS (MU)	132kV	<b>4.06%</b>	132kV	2145.92	0.00	0.00	0.00	2236.73
<b>3200.81</b>	PGCIL	<b>4.98%</b>	<b>TOTAL</b>	<b>15627.13</b>	<b>11051.92</b>	<b>13286.74</b>	<b>15543.59</b>	<b>18438.10</b>
% Loss up to said voltage :						<b>10.99%</b>	<b>0.00%</b>	<b>15.25%</b>
D. Loss:						2062.39		
T. Loss						748.59		
PGC Loss						159.40		<b>18597.50</b>
Loss(MU) & % Loss incl.PGCIL :						<b>TOTAL</b>	<b>2970.38</b>	<b>15.97%</b>