

**Ref. No. MERC/FAC/20122013/ 00597**

**Date:** 18 June, 2012

**To,**  
The Managing Director,  
Maharashtra State Electricity Distribution Company Ltd.,  
5<sup>th</sup> Floor, Prakashgad, Plot No. G-9,  
Bandra (East),  
Mumbai – 400 051.

**Subject: Post Facto approval of FAC submission of MSEDCL for December 2011 and January 2012**

**Reference:**

- a) MSEDCL's FAC submission of month December 2011 received vide MSEDCL/PP/FAC/L7/6478 of 15 March 2012
- b) MSEDCL's FAC submission of month January 2012 received vide MSEDCL/PP/FAC/L7/9603 of 13 April 2012

Sir

Upon vetting the FAC calculations for the month of December, 2011 and January 2012, submitted vide letter under above reference, the Commission has accorded post facto approval to MSEDCL for charging to its consumers the FAC amount (net of excess T&D loss) as follows :

- a) For December 2011 **Rs. 247.0017** Crores for December 2011,
- b) For January 2012 **Rs. 257.2574** Crores for January 2012,

The Commission has notified on 28<sup>th</sup> January 2011 the Amendment Regulations for recovery of Fuel Adjustment Cost charges from the Consumers in a proportionate manner. Accordingly, the Commission has also approved the category wise and slab wise tabulation for recovery of the said FAC charges by MSEDCL from its Consumers.

The adjustments (positive or negative) arising out of the apportionment as above is to be carried forward by MSEDCL to the next month.

The Commission has made some specific observations in the Detailed reports which should be addressed in the FAC submissions of the subsequent months.

The summary of the FAC vetting for December, 2011 as approved by the Commission is shown in the Tables below:-

**Table-1 A (December 2011)**

<b>Sr. No.</b>	<b>Particulars</b>	<b>Unit</b>	<b>Approved</b>
1	FAC (A) without considering cap on Monthly FAC Charge	Rs Crores	629.2164
2	FAC (A) disallowed corresponding to excess T&D loss	Rs Crores	-
3	FAC (A) charged as per category wise and slab wise	Rs Crores	511.6773
4	C/f from Previous month.	Rs Crores	753.7149
5	Under/over recovery from 6.6 statement 3.	Rs Crores	(48.8639)
<b>6</b>	<b>Total FAC to be charged in current month 6=(3+4+5)</b>	Rs Crores	1216.5283
7	Actual FAC charged in current month category wise and slab wise 5.	Rs Crores	247.0017
8	Carried forward FAC (A) for recovery during future period 8=(6-7)	Rs Crores	931.7967
5	FAC rate	Paise/kWh	Proportionate. See Table-6A & 6B of Annexure-1 attached with this letter
6	FAC rate (unmetered)		
6.1	-LT-Ag (>1318 hours per year)	Rs/hp/month	
6.2	-LT-Ag (<1318 hours per year)	Rs/hp/month	

The summary of the FAC vetting for January 2012 as approved by the Commission is shown in the Tables below:-

**Table-1B (January 2012)**

Sr. No.	Particulars	Unit	Approved
1	FAC (A) without considering cap on Monthly FAC Charge	Rs Crores	614.1477
2	FAC (A) disallowed corresponding to excess T&D loss	Rs Crores	-
3	FAC (A) charged as per category wise and slab wise	Rs Crores	565.8005
4	C/f from Previous month.	Rs Crores	931.7967
5	Under/over recovery from 6.6 statement 3.	Rs Crores	11.1842
<b>6</b>	<b>Total FAC to be charged in current month 6=(3+4+5)</b>	Rs Crores	1508.7814
7	Actual FAC charged in current month category wise and slab wise 5.	Rs Crores	257.2574
8	Carried forward FAC (A) for recovery during future period 8=(6-7)	Rs Crores	1251.5241
5	FAC rate	Paise/kWh	Proportionate. See Table-6A & 6B of Annexure-2 attached with this letter
6	FAC rate (unmetered)		
6.1	-LT-Ag (>1318 hours per year)	Rs/hp/month	
6.2	-LT-Ag (<1318 hours per year)	Rs/hp/month	

Yours faithfully,

Sd/-  
(Kuldip N. Khawarey)  
Secretary, MERC

**Encl:** Annexure 1: Detailed Vetting Report for December 2011  
Annexure 2: Detailed Vetting Report for January 2012

**Cc as enclosed:**

Names and Addresses of Consumer Representatives authorized as per Sec 94 (3) of EA 2003

Prayas Energy Group, Amrita Clinic, Athawale Corner, Lakdipool-Karve Road Junction, Deccan Gymkhana, Karve Road, Pune 411 004.	The President, Mumbai Grahak Panchayat, Grahak Bhavan, Sant Dynyaneshwar Marg, Behind Cooper Hospital, Vile Parle (West), Mumbai 400 056.
The General Secretary, Thane Belapur Industries Association, Plot No.P-14, MIDC, Rabale Village, PO Ghansoli, Navi Mumbai 400 7001	The President, Vidarbha Industries Association, 1 <sup>st</sup> floor, Udyog Bhawan, Civil Lines, Nagpur 440 001.

**ANNEXURE 1**  
**Detailed Vetting Report**

Date: 18 June 2012

**Post Facto approval of FAC Charges for December 2011 submitted by MSEDCL**

**Reference:** MSEDCL's FAC submission of month December 2011 received vide **MSEDCL/PP/FAC/L7/6478 of 15 March 2012**

**1. FAC submission by MSEDCL:**

- 1.1 Upon vetting the FAC calculations for the month of December 2011, submitted vide letter under above Reference and after taking cognizance of the clarifications furnished by MSEDCL to the queries raised by the Commission, the Commission has accorded post facto approval for the FAC amount for the said month, as detailed below.

The Commission issued Tariff Order for MSPGCL, dated 12 September 2010 (Case 102 of 2009), for True up for FY 2008-09, Annual Performance Review for FY 2009-10 and Determination of Tariff for FY 2010-11.

The Commission had appointed CPRI (A Govt. of India enterprise) to conduct tests and recommend "Achievable performance parameters" of MSPGCL's thermal stations, whose report had guided the Commission to specify achievable performance parameters for the said year, taking into consideration the plant degradations.

The Commission issued Tariff Order for MSEDCL, dated 12 September 2010 (Case 111 of 2009), approving Annual Revenue Requirement (ARR) and Tariff for FY 2010-11 and has also mentioned about the parameters and mechanism for computation of FAC.

The Commission issued a Review Order on 2 December 2010 in the matter of Case 69 of 2010, "Application under Regulation 85 of the MERC (Conduct of Business) Regulations, 2004, by Maharashtra State Electricity Distribution Co. Ltd. (MSEDCL) seeking review of the Order dated 12 September, 2010 in Case No. 111 of 2009 in respect of MSEDCL's Annual Performance Review (APR) for FY 2009-10, true up for FY 2008-09 and ARR and Tariff Determination for FY 2010-11" whereby the Tariffs of various categories of Consumers were revised.

The Commission issued Order on 31 October, 2011 in Case 100 of 2011 in the matter of Petition of MSEDCL seeking Final True up for the FY 2009 -10, Provisional True Up for the FY 2010 -11 and Annual Performance Review for the FY 2010-11, whereby the Commission has allowed MSEDCL to levy additional charges on and above the tariff charged to its consumers, with effect from November 1, 2011

The Commission has notified on 28 January 2011 the “MERC (Terms and Conditions of tariff) (Amendment) Regulations, 2011” for recovery of Fuel Adjustment Cost charges from the Consumers in a proportionate basis as per its tariff category/sub-category/consumption slab.

The Commission has taken cognisance of the directives issued in all the above orders and has accordingly approved FAC charges for the month of December 2011 in accordance with the principles stipulated therein and the MERC (Terms and Conditions of Tariff) Regulations, 2005. Any variance on account any further Reviews / Amendments will be addressed during the true-up.

Subsequent to the approval of the aggregate FAC amount, the Commission has also approved the apportionment of the said recovery from the consumers, based on the tariff categories and consumption slabs up to respective ceilings of 10%.

- 1.2 Regarding purchase of power from the external sources, the Commission has considered power purchase sources and rates based on the APR Order dated September 12, 2010, which were effective from September 2010. As power purchased from Korba III and Sipat 1 unit of NTPC is not in “approved sources” list, of the Tariff Order issued to MSEDCL, the total power purchase cost for the same is claimed through FAC.
- 1.3 Refund of Rs. 10.26 Crores per month to non ZLS consumers as per the Commission’s Order in Case 23 of 2010 issued on May 30, 2011 (over total 9 month period) has been considered (Ref Item 2.1 of Table 5A below).

The refund of Rs. 10.26 crores per month is taken into consideration from the month of September 2011. The 9 month period will end in the month of May 2012. Hence till the current month (December 2011) total of 4 instalments have been considered and further 5 instalments are balance.

## 2. Details of approval:

### 2.1 Approval:

The Commission has accorded post facto approval for the FAC amount (net of T & D loss), **Rs. 247.0017 crores** for the month December 2011. The summary of the FAC claim for December 2011 as approved by the Commission is shown in the Table below:-

**Table -1**

<b>Sr. No.</b>	<b>Particulars</b>	<b>Unit</b>	<b>Approved</b>
1	FAC (A) without considering cap on Monthly FAC Charge	Rs Crores	629.2164
2	FAC (A) disallowed corresponding to excess T&D loss	Rs Crores	-
3	FAC (A) charged as per category wise and slab wise	Rs Crores	511.6773
4	C/f from Previous month.	Rs Crores	753.7149
5	Under/over recovery from 6.6 statement 3.	Rs Crores	(48.8639)
<b>6</b>	<b>Total FAC to be charged in current month 6=(3+4+5)</b>	Rs Crores	<b>1216.5283</b>
7	Actual FAC charged in current month category wise and slab wise 5.	Rs Crores	<b>247.0017</b>
8	Carried forward FAC (A) for recovery during future period 8=(6-7)	Rs Crores	<b>931.7967</b>

After the apportionment, the under-recovered FAC amount to be carried forward to the next month is **Rs. 931.7967 Crores.**

**3. Analysis of FAC proposal submitted by MSEDCL and computation of FAC charges is as below:**

a) **Generation by MSPGCL stations:** (Ref: Details in Form 1.3 of FAC submission)

- The Plant Load factor at MSPGCL 'Khaparkheda' Thermal power station for the Month December 2011 was 91.41%. At the other thermal power plants it was less than 80.00%.
- The gross generation for the Paras 3 and Parli 6 stations which amounts to **264.808 MUs** (132.773 + 132.035) as per the details submitted by MAHAGENCO is not taken into consideration while calculation of the Gross Generation. Similarly during calculation of Auxiliary Consumption and Net Generation the actual figures of Paras 3 and Parli 6 stations as per the submission of MAHAGENCO is not taken into consideration.
- The actual Gross generation at MSPGCL plants (Hydel, Thermal and Gas) for the month is **3952.17 MUs**. (Order value 5040.02 MUs)

b) **Variable Cost of Generation:**

MSEDCL has submitted the break-up of purchase price of different fuels for all stations of MSPGCL, certified by Chartered Accountant.

i) **Variable Fuel Cost:**

MSEDCL has considered the base variable fuel cost for each station as approved by the Commission in the APR Order of MSPGCL of 12 September 2010 (Case 102 of 2009) and in conformity with the directions given in the Commission's letter MERC/MON/FAC/MSEDCL/09/2637 dated November 20, 2009

The summary of fuel related costs for the month December 2011 for existing generating stations of MSPGCL as approved by the Commission after detailed vetting is shown in the Table below:

**Table-2**

<b>Sr. No.</b>	<b>Detail</b>	<b>Unit</b>	
1	Actual Fuel Cost	Rs. Crores	871.1146
2	Normative Actual Fuel cost	Rs. Crores	869.1059
3	Net Generation	MUs	3,281.49
4	Approved variable cost of generation (Order)	Rs./kWh	1.7537
5	Actual average variable cost of generation	Rs./kWh	2.6546
6	Average Normative variable cost of generation	Rs./kWh	2.6485
7	Change in variable cost of generation = {(3)X[(6)-(4)]}/10	Rs. Crores	<b>293.6091</b>

**Observation regarding Fuel Inventory and clarifications received from MSEDCL/MSPGCL:**

Khaparkheda – As per the FAC submission of MSEDCL for November 2011, the closing inventory of coal for the month of November 2011 was 9151.10 MTs. However as per the FAC submission of MSEDCL for December 2011, the opening inventory for the month of December 2011 is considered as 3621.10 MTs. The MSEDCL/MSPGCL team clarified that the said difference was due to the formula error in the month of November 2011 and the effect of correction has been given in December 2011

Bhusawal- As per the FAC submission of MSEDCL for November 2011 the value of the closing inventory for the month of November 2011 was INR 7743 lakhs. However as per the FAC submission of MSEDCL for December 2011, the value of Opening Inventory for December 2011 is considered as INR 7850 lakhs. The MSEDCL/MSPGCL team clarified that the said difference was because of the reason that the value of closing stock during November months submission was done on Provisional basis and in December months opening balance is considered on Actual basis.

**ii) Variable cost of power purchase**

The Commission has considered the increase in power purchase cost in case of approved power purchase sources as per the APR order of MSEDCL of 12 September 2010 (Case 111 of 2009) which is applicable from September, 2010 (See Appendix).

MSEDCL has submitted the data for the power purchase certified by Chartered Accountant.

The details of power purchase by MSEDCL for December 2011 are given below:

**Table-3**

<b>Sr. No.</b>	<b>Details</b>	<b>Unit</b>	<b>December 2011</b>
1	Net Energy Purchase	MUs	5062.52
2	Variable Cost of Energy purchased	Rs. Crores	1430.8124
3	Average Rate of energy purchased	Rs./kWh	2.83
4	Approved Rate for Energy purchase (Order)	Rs./kWh	2.31

**c) Unscheduled Interchange (UI) Charges:**

MSEDCL has procured *30.71 MUs* through UI at average rate of **Rs. 4.67 per kWh**, in December 2011. The net cost of UI purchase was *Rs. 14.3451 Crores*.

**d) Scheduled Energy Received in grid through Imports from various regions and losses:**

MSEDCL has claimed losses in power purchase through grid at **(138) MUs** in December 2011 as the difference between the Scheduled Energy (including UI) and Actual sale. The Commission has considered the losses in the grid as submitted by MSEDCL.

**e) Total sales in licensed area:**

The total sales in its licensed area have been presented by MSEDCL in the following manner:-

- a. Metered sales include the total sales metered for the HT and LT consumers in its area.
- b. Unmetered sales are the assessed sales of unmetered consumers.

These are shown in Form 1.1 of FAC statement as the total sales of the area (gross). From these, those sales which are eligible for FAC are separated out by deducting the HT credits given (for HT consumers having own small sources injected in network, temporary supplies, etc) to indicate net sales in licensed area which are tabulated in form 8.1 of FAC submission.

The details as above are tabulated below:



**Table 4**

<b>Sr. No.</b>	<b>Detail</b>	<b>Unit</b>	<b>Qty</b>	<b>Ref FAC submission Form</b>
1	Total Energy Sales excluding Energy Sales corresponding to specific utilisation of a particular Unit/Station as per Order.	MUs	6153.81	Item No. 5 of FAC submission Form 1.1
2	Total sales of categories below 1318 Hrs/yr and above 1318 Hrs/yr for the said month	MUs	1609.023	Sum of assessed energy sold in FAC submission Form 1.2
3	Less: Credit for HT injections, temporary supply, interstate, wheeling etc	MUs	-48.379	Entry with explanation in FAC submission Form 7.1, for item No.1
4	Total of item 1 and 2	MUs	7762.837	
5	Grand total of items 1, 2 and 3	MUs	7714.458	Item 2.1 of FAC submission form 8.1

**Order Values:** Metered Sales : **5284.25 MU**, Unmetered Sales : **542.00 MU**.

**f) Interest on working capital –**

MSEDCL has mentioned that 10.25% is the rate of Interest for working capital. However, no IWC has been claimed in the format 6.5 submitted for claiming the IWC incurred. Hence Interest on working capital has not been considered for the said month. As per APTEL judgment, interest on the difference of normative actual cost and approved cost of fuel in a month is eligible for payment through FAC mechanism, in case such claim is made along with supportive documentation. Else it will be addressed through the Annual True-up.

**g) Adjustment factor-**

The computation of Adjustment factor is as shown in the following table.

**Table-5A**

**Adjustment Factor – December 2011**

<b>Sr. No.</b>	<b>Parameter</b>	<b>Unit</b>	<b>Value</b>
(A)	(B)	(C)	(D)
<b>1.0</b>	<b>Adjustment for over-recovery/under-recovery ('B')</b>		
1.1	Incremental cost allowed to be recovered in Month j-0 (Dec 11)	Rs Lakh	25,941.99
1.2	Incremental cost in Month j-5 actually recovered in month j-2 (Sep -2011)	Rs Lakh	30,828.38
<b>1.3</b>	<b>Over-recovery/under-recovery (1.2-1.1)</b>	Rs Lakh	(4,886.39)
<b>2.0</b>	<b>C/f DUE TO FORMULA ERROR in November</b>	Rs Lakh	1,192.53
2.1	Refund to the non beneficiary consumers of ZLS Scheme in 6 instalment (4th Instalment)	Rs Lakh	1,026.00
<b>3.0</b>	<b>Adjustment factor for over-recovery/under-recovery ( 2.0 – 2.1)</b>	Rs Lakh	166.53

**4. Transmission and Distribution Loss:**

**Transmission Loss:**

In the FAC submission, MSEDCL has reported Transmission loss for the month of December 2011 as **3.30%** as against approved order value of 4.85%. This is approved.

**Distribution loss:**

For the month December 2011, MSEDCL has reported Distribution Loss of **7.82 %**. Thereby, the Cumulative Distribution loss up to the month of December 2011 is **15.55 %** against approved Distribution loss of 17.20%. It is observed that the distribution loss reported for the month is substantially less as compared to previous months trends.

As the reported distribution loss (cumulative up to the month) is lesser than the stipulated limit value of Distribution loss for the FY, no deductions have been made from FAC charges of December 2011.

**5. Energy Sales for within License area:**

The net energy sales within licence area as submitted by MSEDCL in the FAC submission, after deducting the HT credits, temporary supply etc as explained above, for the month December 2011, is **7714.458 MUs**, (Refer Item 5 of Table 4 above), and the same is approved by the Commission.

## 6. Summary:

The summary of the FAC amount as approved by the Commission for the month December 2011 is shown in the Tables below:-

The Commission has approved FAC chargeable in December 2011 as **Rs. 247.0017 Crores** and has allowed to be carried forward to the next month for recovery **Rs. 931.7967 Crores**, arrived at as the sum of the following quantities:

- a) Difference between FAC allowed to be recovered in September 2011 (month j-5) and the FAC actually recovered in December 2011.
- b) Difference between the FAC chargeable as per formula and that chargeable as per Order value on account of difference in MUs consumed by various categories with respect to Order values and
- c) Excess amount above cap applied to any categories.
- d) Carried forward amount from the previous month
- e) Formula error of November 2011 FAC submission in Form 8.3

**This is approved.**

**Table-5B**

<b>Sr. No.</b>	<b>Parameter</b>	<b>Unit</b>	<b>Value</b>
(A)	(B)	(C)	(D)
<b>1.0</b>	<b>Calculation of FAC (A)</b>		
1.1	Disallowance of change in variable cost of generation corresponding to excess auxiliary consumption	Rs Lakh	-
1.2	Change in weighted average variable cost of generation and power purchase after accounting for disallowance of change in variable cost corresponding to excess auxiliary consumption	Rs Lakh	-
1.3	Apportionment of change in variable cost of generation and power purchase to License Area (C)	Rs Lakh	62,755.11
1.4	Working Capital Interest (I)	Rs Lakh	-
1.5	T & D Loss Adjustment for the year		-
1.6	Adjustment for Over Recovery/Under Recovery (B)	Rs Lakh	166.53
<b>1.7</b>	<b>FAC (A) = C + I + B</b>	Rs Lakh	<b>62,921.64</b>
<b>2.0</b>	<b>Calculation of FAC<sub>kWh</sub></b>		
2.1	Sale within License Area	MU	7,714.46
2.2	Excess T&D Loss	MU	-
2.3	FAC Charge (FAC <sub>kWh</sub> ) without considering cap on monthly FAC Charge	Paise/kWh	81.56
2.4	Cap on monthly FAC Charge (Not applicable on average basis)	Paise/kWh	81.56
<b>2.5</b>	<b>FAC Charge (FAC<sub>kWh</sub>)</b>	Rs/kWh	0.8156

Sr. No.	Parameter	Unit	Value
<b>3.0</b>	<b>FAC (A)</b>		
3.1	FAC (A) considering cap on Monthly FAC Charge	Rs Lakh	62,921.64
3.2	FAC (A) disallowed corresponding to excess T&D loss	Rs Lakh	-
3.3	FAC (A) charged as per 8.3 category wise and slab wise 1	Rs Lakh	51,167.73
3.4	C/f from Previous month 2.	Rs Lakh	75,371.49
3.5	Under/over recovery from 6.6 statement 3.	Rs Lakh	(4,886.39)
<b>3.6</b>	<b>Total FAC to be charged in current month 4=(1+2+3)</b>	<b>Rs Lakh</b>	<b>121,652.83</b>
3.7	Actual FAC charged in current month category wise and slab wise 5.	Rs Lakh	24,700.17
3.8	Carried forward FAC (A) for recovery during future period (4-5)	Rs Lakh	<b>93,179.67</b>

### 7. Recovery from Consumers:

As notified on 28<sup>th</sup> January 2011, vide Maharashtra Electricity Regulatory Commission (Terms and Conditions of Tariff) (Amendment) Regulations, 2011, the Commission has amended the Regulations applicable to recovery of FAC as follows:

*“82.6 The monthly FAC charges of a particular tariff category/sub-category/consumption slab shall not exceed 10% of the variable component of tariff of that tariff category/sub-category/consumption slab, or such other ceiling as be stipulated by the Commission from time to time.*

*Provided that any excess in the FAC charge over the above ceiling shall be carried forward by the Distribution Licensee and shall be recovered over such future period as be directed by the Commission.*

*Provided further that in case of un-metered consumers, ceiling of FAC charges shall be calculated by multiplying the ceiling of FAC charges of metered sub-category by the ratio of Average Billing Rate (ABR) of respective un-metered sub-category to ABR of metered sub-category within the same tariff category.*

*“82.10. Calculation of FAC per kWh for a particular tariff category/sub-category/consumption slab shall be as per the following formula:*

*FACCat Rs/kWh = (FAC / (Metered sales + Unmetered consumption estimates + Excess distribution losses)) \* K \* 10*

*Where:*

*FACCat = FAC for a particular tariff category/sub-category/consumption slab in ‘Rupees per kWh’ terms.*

*K = (Energy Charge) / (ACOS)*

*Where,*

*Energy Charge = Energy Charge for a particular tariff category / sub-category/ consumption slab under consideration in ‘Rupees per kWh’ as approved by the Commission in Tariff Order.*

*ACOS = Average Cost of Supply in 'Rupees per kWh' as approved for recovery by the Commission in Tariff Order.*

Based on the above amendment, MSEDCL has calculated the “FAC apportioned to each Tariff Category and as per applicable slab”,

As the FAC has been limited to the cap of 10% of the energy charge at each consumer slab/category, because of the energy consumption of the respective categories being at slight plus or minus variances as compared to the Order values, in spite of the fact that the FAC in certain categories has reached the cap values, the average FAC has not reached the cap value Rs. 0.455/kWh

**Table 5C**

<b>Sr. No.</b>	<b>Details</b>	<b>Unit</b>	<b>Qty</b>
1	<b>Sales in licensed area</b>	MUs	7,174.46
2	FAC(A) =C+I+B	Rs Lakh	62,921.64
3	FAC (A) disallowed corresponding to excess T&D loss	Rs Lakh	-
<b>4</b>	<b>FAC kWh</b>	<b>Rs/kWh</b>	0.815633
5	FAC (A) charged as per 8.3 category wise and slab wise 1	Rs Lakh	51,167.73
6	C/f from Previous month.	Rs Lakh	75,371.49
7	Under/over recovery from 6.6 statement 3.	Rs Lakh	(4,886.39)
8	<b>Total FAC to be charged in current month 8=(5+6+7)</b>	<b>Rs Lakh</b>	<b>121,652.83</b>
<b>9</b>	<b>Total FAC</b>	<b>Rs/kWh</b>	<b>1.6957</b>
10	Actual FAC charged in current month category wise and slab wise 5.	Rs Lakh	24,700.17
<b>11</b>	<b>FAC charged</b>	<b>Rs/kWh</b>	<b>0.3443</b>
12	Carried forward FAC (A) for recovery during future period 12=(8-10)	Rs Lakh	<b>93,179.67</b>

**Table-6 A**

Sr. No.	Categories	Approved energy charges	FAC To be Charged In The Billing Month
<b>A</b>	<b>LT Category</b>	<b>Rs/KWH</b>	<b>Paisa/KWH</b>
<b>1</b>	<b>Domestic (LT-I)</b>		
A	BPL (0-30 Units)	0.89	<b>8.90</b>
<b>B</b>	<b>Consumption &gt; 30 Units per month</b>		
i	1-100 Units	2.82	<b>28.24</b>
ii	101-300 Units	5.00	<b>49.98</b>
iii	301-500 Units	7.15	<b>71.51</b>
iv	500-1000 Units	8.29	<b>82.94</b>
v	Above 1000 Units	8.55	<b>85.54</b>
	<b>Sub Total Domestic</b>		
<b>2</b>	<b>Non Domestic (LT-2)</b>		
A	<b>0-20 KW</b>		
i	<b>Educational institute and Hospitals</b>		
a	0-200 Units	4.92	<b>49.22</b>
b	Above 200 units	6.87	<b>68.66</b>
ii	<b>Others</b>		
a	0-200 Units	5.15	<b>51.52</b>
b	Above 200 units	7.38	<b>73.82</b>
B	<b>&gt;20-50 KW</b>	7.44	<b>74.37</b>
	<b>&gt;50 KW</b>	9.61	<b>96.12</b>
<b>3</b>	<b>Public Water Works (LT-III)</b>		
A	0-20 KW	1.97	<b>19.66</b>
B	20-40 KW	2.54	<b>25.38</b>
C	40-50 KW	3.45	<b>34.50</b>
<b>4</b>	<b>Agriculture (LT-IV)</b>		
A	Unmetered Tariff		
1	Zones with Consumption norm < 1318 Hrs/HP/Annum 980 hrs basis		
	A) 0-5 HP	1.97	13.46 Rs/HP
	B) Above 5 HP	2.21	13.46 Rs/HP
2	Zones with Consumption norm > 1318 Hrs/HP/Annum 1734 Hrs basis		

<b>Sr. No.</b>	<b>Categories</b>	<b>Approved energy charges</b>	<b>FAC To be Charged In The Billing Month</b>
	A) 0-5 HP	2.42	29.22 Rs/HP
	B) Above 5 HP	2.71	29.22 Rs/HP
<b>B</b>	<b>Metered Tariff (Including Poultry Farms)</b>	1.76	<b>17.58</b>
<b>5</b>	<b>LT Industries (LT-V)</b>		
A	0-20 KW	4.46	<b>44.61</b>
B	Above 20 KW	6.17	<b>61.74</b>
	<b>TOD Consumption</b>		
	2200 Hrs-0600 Hrs		
	0600 Hrs-0900 Hrs & 1200 Hrs-1800 Hrs		
	0900 Hrs-1200 Hrs		
	1800 Hrs-2200 Hrs		
<b>6</b>	<b>Street Light (LT-VI)</b>		
A	Grampanchayat A, B & C Class Municipal Council	3.55	<b>35.48</b>
B	Municipal corporation Area	4.23	<b>42.29</b>
<b>7</b>	<b>Temporary Connection (LT-VII)</b>		
A	Temporary Connection (Religious)	2.88	<b>28.79</b>
B	Temporary Connection (Other Purposes)	13.16	<b>131.60</b>
<b>8</b>	<b>Advertising and Hording (LT-VIII)</b>	18.30	<b>183.01</b>
<b>9</b>	<b>Crematorium &amp; Burial (LT-IX)</b>	2.88	<b>28.79</b>

**Table 6- B**

<b>Sr. No.</b>	<b>Categories</b>	<b>Approved energy charges</b>	<b>FAC To be Charged In The Billing Month</b>
<b>B</b>	<b>HT CATEGORY</b>	<b>Rs/kWH</b>	<b>Paisa/KWH</b>
	<b>HT-I - Industries</b>		
<b>A</b>	HT-I - Cont (Express Feeders)	6.03	60.306
<b>B</b>	HT-I – Non Cont (Non Express Feeders)	5.49	54.92
<b>C</b>	HT-I - Seasonal Category	6.75	67.458
<b>2</b>	<b>HT-II Commercial</b>		
<b>a</b>	<b>Express Feeder</b>		
<b>i)</b>	Education Institute and Hospitals	8.75	87.547
<b>ii)</b>	Other	9.10	90.958
<b>b</b>	<b>B) Non-Express Feeder</b>		
<b>i)</b>	Education Institute and Hospitals	8.18	81.832
<b>ii)</b>	Other	8.52	85.243
	<b>Total HT II Commercial</b>		
<b>3</b>	<b>HT-III Railways</b>	6.64	66.351
<b>4</b>	<b>HT-IV Public Water Works (PWW)</b>		
<b>A</b>	Express Feeders	4.30	42.951
<b>B</b>	Non-Express Feeders	4.12	41.195
	<b>Total HT-IV Public Water Works (PWW)</b>		
<b>5</b>	<b>HT-V Agricultural</b>	2.46	24.607
<b>6</b>	<b>HT-VI Bulk Supply</b>		
<b>A</b>	Residential Complex	4.25	42.521
<b>B</b>	Commercial Complex	7.24	72.359
	HT Residential		
	0-100 Units		
	101-300 Units		
	301-500 Units		
	501-1000 Units		
	Above 1000 Units		
<b>7</b>	<b>Total HT-VI Bulk Supply</b>		
<b>8</b>	<b>Mula Pravara Electric Co-op Society (MPECS)</b>	0.00	0.00
<b>9</b>	<b>Temporary Supply</b>	11.30	112.995



## APPENDIX 1.1

Assumptions/Norms as per APR order for MSPGCL dated September 12, 2009 (Case 102 of 2009),

### Summary of New Norms:

#### 1.1 Purchases from MSPGCL:

Station	Net Gen (MUs)	Energy Charge as per Order (Rs/kWh)	Approved Heat Rate applicable for FY 2010-11 kCal/kWH	Approved Auxiliary Consumption for FY 2010-11 %
Khaparkheda	5,458.81	1.77	2559.9	9.74
Paras	337.45	1.82	3186.5	12.45
Bhusawal	2,946.27	2.1	2733.9	10.55
Nasik	5,394.24	2.22	2721.9	10.95
Parli	4,172.35	1.91	2744.6	11.15
Koradi	6015.64	1.61	2964.8	10.70
Chandrapur	14,898.24	1.56	2617	9.15
Paras -3	1,594		2500	9.0
Parli -6	1,594		2500	9.0
Uran	5745.20	1.68	1980	2.40

## 1.2 Purchases

Particulars	Approved MU Annual	Approved Variable Cost (Rs./kWh)
<b>MSPGCL</b>	<b>50490</b>	
Korba STP	5096	0.69
Vindhayanchal STP I	3395	1.02
Vindhayanchal STP II	2652	1.24
Vindhayanchal STP III	2211	1.45
KAWAS APM	1345	1.30
GANDHAR APM	1314	2.52
Farakka STPP-EP	129	2.23
Kahalgaon TPS-EP	61	2.50
KahalgaonTPS-II	511	2.13
TSTPS-EP	84	1.01
Sipat Stage - II	2242	1.65
<b>NTPC</b>	<b>19040</b>	<b>1.25</b>
Kakrapar APP	368	2.15
Tarapur APP 1&2	1206	0.94
Tarapur APP 3&4	1934	2.73
<b>NPCIL</b>	<b>3507</b>	<b>2.05</b>
Saradar Sarovar Project	635	2.05
PENCH	240	2.05
U.I. CHARGES	0	3.00
DODSON-I	21	2.99
DODSON-II	43	
RGPPL	11000	2.88
<b>TOTAL PP</b>	<b>23423</b>	
NCE Sources	4114	
CPPs	392	

## ANNEXURE 2

### Detailed Vetting Report

Date : 18 June 2012

#### Post Facto approval of FAC Charges for January 2012 submitted by MSEDCL

**Reference:** MSEDCL's FAC submission of month January 2012 received vide **MSEDCL/PP/FAC/L7/9603 of 13 April 2012**

#### **1. FAC submission by MSEDCL:**

- 1.1 Upon vetting the FAC calculations for the month of January 2012, submitted vide letter under above Reference and after taking cognizance of the clarifications furnished by MSEDCL to the queries raised by the Commission, the Commission has accorded post facto approval for the FAC amount for the said month as detailed below.

The Commission issued Tariff Order for MSPGCL, dated 12 September 2010 (Case 102 of 2009), for Truing up for FY 2008-09, Annual Performance Review for FY 2009-10 and Determination of Tariff for FY 2010-11.

The Commission had appointed CPRI (A Govt. of India enterprise) to conduct tests and recommend "Achievable performance parameters" of MSPGCL's thermal stations, whose report had guided the Commission to specify achievable performance parameters for the said year, taking into consideration the plant degradations.

The Commission issued Tariff Order for MSEDCL, dated 12 September, 2010 (Case 111 of 2009), approving principles of Annual Revenue Requirement (ARR) and Tariff for FY 2010-11 and has also mentioned about the parameters and mechanism for computation of FAC.

The Commission issued a Review Order on 2 December 2010 in the matter of Case 69 of 2010, "Application under Regulation 85 of the MERC (Conduct of Business) Regulations, 2004, by Maharashtra State Electricity Distribution Co. Ltd. (MSEDCL) seeking review of the Order dated 12 September, 2010 in Case No. 111 of 2009 in respect of MSEDCL's Annual Performance Review (APR) for FY 2009-10, true up for FY 2008-09 and ARR and Tariff Determination for FY 2010-11" whereby the Tariffs of various categories of Consumers were revised.

The Commission issued Order on 31 October, 2011 in Case 100 of 2011 in the matter of Petition of MSEDCL seeking Final True up for the FY 2009 -10, Provisional True Up for the FY 2010 -11 and Annual Performance Review for the FY 2010-11, whereby the Commission has allowed MSEDCL to levy additional charges on and above the tariff charged to its consumers, with effect from 1 November 2011.

The Commission has notified on 28 January 2011 the “MERC (Terms and Conditions of tariff) (Amendment) Regulations, 2011” for recovery of Fuel Adjustment Cost charges from the Consumers in a proportionate basis as per its tariff category/sub-category/consumption slab.

The Commission has taken cognisance of the directives issued in all the above orders and has accordingly approved FAC charges for the month of January 2012 in accordance with the principles stipulated therein and the MERC (Terms and Conditions of Tariff) Regulations, 2005. Any variance on account of any further Reviews / Amendments will be addressed during the true-up.

Subsequent to the approval of the aggregate FAC amount, the Commission has also approved the apportionment of the said recovery from the consumers, based on the tariff categories and consumption slabs up to respective ceilings of 10%.

- 1.2 Regarding purchase of power from the external sources, the Commission has considered power purchase sources and rates based on the APR Order dated 12 September 2010, which were effective from September 2010. As power purchased from Korba III and Sipat Unit 1 unit of NTPC is not in “approved sources” list, of the Tariff Order issued to MSEDCL, the total power purchase cost for the same is claimed through FAC.
- 1.3 Refund of Rs. 10.26 Crores per month to non ZLS consumers as per the Commission’s Order in Case 23 of 2010 issued on 30 May 2011 (over total 9 month period) has been considered (Ref Item 2.1 of Table 5A below)  
The refund of Rs. 10.26 crores per month is taken into consideration from the month of September 2011. The 9 month period will end in the month of May 2012. Hence till the current month (January 2012) total of 5 instalments have been considered and further 4 instalments are balance.

## 2. Details of approval:

### 2.1 Approval:

The Commission has accorded post facto approval for the FAC amount of (net of T & D loss), **Rs. 257.2574 crores** for the month January 2012. The summary of the FAC claim for January 2012 as approved by the Commission is shown in the Table below:-

**Table -1**

<b>Sr. No.</b>	<b>Particulars</b>	<b>Unit</b>	<b>Approved</b>
1	FAC (A) without considering cap on Monthly FAC Charge	Rs Crores	614.1477
2	FAC (A) disallowed corresponding to excess T&D loss	Rs Crores	-
3	FAC (A) charged as per category wise and slab wise	Rs Crores	565.8005
4	C/f from Previous month.	Rs Crores	931.7967
5	Under/over recovery from 6.6 statement 3.	Rs Crores	11.1842
<b>6</b>	<b>Total FAC to be charged in current month 6=(3+4+5)</b>	Rs Crores	<b>1508.7814</b>
7	Actual FAC charged in current month category wise and slab wise 5.	Rs Crores	<b>257.2574</b>
8	Carried forward FAC (A) for recovery during future period 8=(6-7)	Rs Crores	<b>1251.5241</b>

After the apportionment, the under-recovered FAC amount to be carried forward to the next month is **Rs. 1251.5241 Crores.**

## 3. Analysis of FAC proposal submitted by MSEDCL and computation of FAC charges is as below:

### a) Generation by MSPGCL stations: (Ref: Details in Form 1.3 of FAC submission)

- The Plant Load factor at MSPGCL Nashik, Paras 3, Parli 7 and Paras 4 Thermal power station, and Gas Thermal Station, for the Month January 2012 was 89.72%, 95.33%, 92.85%, 87.17% and 85.43% respectively. At the other thermal power plants it was less than 80.00%.
- The actual Gross generation at MSPGCL plants (Hydel, Thermal and Gas) for the month is **4167.77 MUs**. (Order value 5040.02 MUs)

### b) Variable Cost of Generation:

MSEDCL has submitted the break-up of purchase price of different fuels for all stations of MSPGCL, certified by Chartered Accountant.

**i) Variable Fuel Cost:**

MSEDCL has considered the base variable fuel cost for each station as approved by the Commission in the APR Order of MSPGCL of 12 September 2010 (Case 102 of 2009) and in conformity with the directions given in the Commission's letter MERC/MON/FAC/MSEDCL/09/2637 dated November 20, 2009

The summary of fuel related costs for the month January 2012 for existing generating stations of MSPGCL as approved by the Commission after detail vetting is shown in the Table below:

**Table-2**

<b>Sr. No.</b>	<b>Detail</b>	<b>Unit</b>	
1	Actual Fuel Cost	Rs. Crores	886.5993
2	Normative Actual Fuel cost	Rs. Crores	892.2461
3	Net Generation	MUs	3,321.30
4	Approved variable cost of generation (Order)	Rs./kWh	1.7537
5	Actual average variable cost of generation	Rs./kWh	2.6694
6	Average Normative variable cost of generation	Rs./kWh	2.6864
7	Change in variable cost of generation = {(3)X[(6)-(4)]}/10	Rs. Crores	<b>309.7112</b>

Discrepancy noted and discussed subsequently regarding Fuel Inventory:

Khaparkheda – The Transit Loss Quantity at Khaparkheda Station is given as (802.46) MTs. The said quantity needs to be reduced from the total Quantity in order to get the Closing Inventory. The error has to be addressed in subsequent submission.

**ii) Variable cost of power purchase**

The Commission has considered the increase in power purchase cost in case of approved power purchase sources as per the APR order of MSEDCL of 12 September, 2010 (Case 111 of 2009) which is applicable from September, 2010 (See Appendix).

MSEDCL has submitted the data for the power purchase certified by Chartered Accountant.

The details of power purchase by MSEDCL for January 2012 are given below:

**Table-3**

<b>Sr. No.</b>	<b>Details</b>	<b>Unit</b>	<b>January 2012</b>
1	Net Energy Purchase	MUs	4986.02
2	Variable Cost of Energy purchased	Rs. Crores	1279.6354
3	Average Rate of energy purchased	Rs./kWh	2.57
4	Approved Rate for Energy purchase (Order)	Rs./kWh	2.31

c) **Unscheduled Interchange (UI) Charges:**

MSEDCL has procured (100.60) MUs through UI at average rate of Rs. 1.696 per kWh, in January 2012. The net cost of UI purchase was Rs. (17.0633) Crores.

d) **Scheduled Energy Received in grid through Imports from various regions and losses:**

MSEDCL has claimed losses in power purchase through grid at (89) MUs in January 2012 as the difference between the Scheduled Energy (including UI) and Actual sale.

The Commission has considered the losses in the grid as submitted by MSEDCL.

e) **Total sales in licensed area:**

The total sales in its licensed area have been presented by MSEDCL in the following manner:-

- c. Metered sales include the total sales metered for the HT and LT consumers in its area.
- d. Unmetered sales are the assessed sales of unmetered consumers.

These are shown in Form 1.1 of FAC statement as the total sales of the area (gross). From these, those which are eligible for FAC are separated out by deducting the HT credits given (for HT consumers having own small sources injected in network, temporary supplies, etc) to indicate net sales in licensed area which are tabulated in form 8.1 of FAC submission.

The details as above are tabulated below:

**Table 4**

Sr. No.	Detail	Unit	Qty	Ref FAC submission Form
1	Total Energy Sales excluding Energy Sales corresponding to specific utilisation of a particular Unit/Station as per Order.	MUs	5825.90	Item No. 5 of FAC submission Form 1.1
2	Total sales of categories below 1318 Hrs/yr and above 1318 Hrs/yr for the said month	MUs	1052.89	Sum of assessed energy sold in FAC submission Form 1.2
3	Less: Credit for HT injections, temporary supply, interstate, wheeling etc	MUs	-50.10	Entry with explanation in FAC submission Form 7.1, for item No.1
4	Total of item 1 and 2	MUs	6878.79	
5	Grand total of items 1, 2 and 3	MUs	6829.69	Item 2.1 of FAC submission form 8.1

**Order Values:** Metered Sales : 5284.25 MUs, Unmetered Sales : 542.00 MUs.

**f) Interest on working capital –**

MSEDCL has mentioned that 10.25% is the rate of Interest for working capital. However, no IWC has been claimed in the format 6.5 submitted for claiming the IWC incurred. Hence Interest on working capital has not been considered for the said month. As per APTEL judgment, interest on the difference of normative actual cost and approved cost of fuel in a month is eligible for payment through FAC mechanism, in case such claim is made along with supportive documentation. Else it will be addressed through the Annual True-up.

**g) Adjustment factor-**

The computation of Adjustment factor is as shown in the following table.

**Table-5A**  
**Adjustment Factor – January 2012**

<b>Sr. No.</b>	<b>Parameter</b>	<b>Unit</b>	<b>Value</b>
(A)	(B)	(C)	(D)
<b>1.0</b>	<b>Adjustment for over-recovery/under-recovery ('B')</b>		
1.1	Incremental cost allowed to be recovered in Month (Jan 12)	Rs Lakh	23,692.56
1.2	Incremental cost in Month j-4 actually recovered in month j-2 (Oct -2011)	Rs Lakh	22,574.14
<b>1.3</b>	<b>Over-recovery/under-recovery (1.2-1.1)</b>	Rs Lakh	1,118.42
<b>2.0</b>	<b>C/f DUE TO FORMULA ERROR in November</b>	Rs Lakh	11,753.91
2.1	Refund to the non beneficiary consumers of ZLS Scheme in 6 instalment (4th Instalment)	Rs Lakh	1,026.00
<b>3.0</b>	<b>Adjustment factor for over-recovery/under-recovery ( 2.0 – 2.1)</b>	Rs Lakh	10,727.91

**4. Transmission and Distribution Loss: .**

**Transmission Loss:**

In the FAC submission, MSEDCL has reported Transmission loss for the month of January 2012 as **3.86%** as against approved order value of 4.85%. This is approved.

**Distribution loss:**

For the month January 2012, MSEDCL has reported Distribution Loss of **17.37 %**. Thereby, the Cumulative Distribution loss up to the month of January 2012 is **15.74 %** against approved



Distribution loss of 17.20%. The distribution loss for the month has increased a lot as compared to previous month.

As the reported distribution loss (cumulative up to the month) is less than the stipulated limit value of Distribution loss for the FY, no deductions have been made from FAC charges of January 2012.

#### **6. Energy Sales for within License area:**

The net energy sales within licence area as submitted by MSEDCL in the FAC submission, after deducting the HT credits, temporary supply etc as explained above, for the month January 2012, is **6828.69 MUs**, (Refer Item 5 of Table 4 above), and the same is approved by the Commission.

#### **6. Summary:**

The summary of the FAC amount as approved by the Commission for the month January 2012 is shown in the Tables below:-

The Commission has approved FAC chargeable in January 2012 as **Rs. 257.2574 Crores** and has allowed to be carried forward to the next month for recovery **Rs. 1251.5241 Crores**, arrived at as the sum of the following quantities:

- a) Difference between FAC allowed to be recovered in October 2011 (month j-5) and the FAC actually recovered in January 2012.
- b) Difference between the FAC chargeable as per formula and that chargeable as per Order value on account of difference in MUs consumed by various categories with respect to Order values and
- c) Excess amount above cap applied to any categories.
- d) Carried forward amount from the previous month
- e) Formula error of December 2011 FAC submission in Form 8.3

This is approved.

**Table-5B**

<b>Sr. No.</b>	<b>Parameter</b>	<b>Unit</b>	<b>Value</b>
(A)	(B)	(C)	(D)
<b>1.0</b>	<b>Calculation of FAC (A)</b>		
1.1	Disallowance of change in variable cost of generation corresponding to excess auxiliary consumption	Rs Lakh	-
1.2	Change in weighted average variable cost of generation and power purchase after accounting for disallowance of change in variable cost corresponding to excess auxiliary consumption	Rs Lakh	-
1.3	Apportionment of change in variable cost of generation and power purchase to License Area (C)	Rs Lakh	50,686.86
1.4	Working Capital Interest (I)	Rs Lakh	-
1.5	T & D Loss Adjustment for the year		-
1.6	Adjustment for Over Recovery/Under Recovery (B)	Rs Lakh	10,727.91
<b>1.7</b>	<b>FAC (A) = C + I + B</b>	Rs Lakh	<b>61,414.77</b>
<b>2.0</b>	<b>Calculation of FAC<sub>kWh</sub></b>		
2.1	Sale within License Area	MU	6,828.69
2.2	Excess T&D Loss	MU	-
2.3	FAC Charge (FAC <sub>kWh</sub> ) without considering cap on monthly FAC Charge	Paise/kWh	89.94
2.4	Cap on monthly FAC Charge	Paise/kWh	89.94
<b>2.5</b>	<b>FAC Charge (FAC<sub>kWh</sub>) considering cap on monthly FAC Charge</b>	Rs/kWh	0.8994
<b>3.0</b>	<b>FAC (A)</b>		
3.1	FAC (A) considering cap on Monthly FAC Charge	Rs Lakh	61,414.77
3.2	FAC (A) disallowed corresponding to excess T&D loss	Rs Lakh	-
3.3	FAC (A) charged as per 8.3 category wise and slab wise 1	Rs Lakh	56,580.05
3.4	C/f from Previous month 2.	Rs Lakh	93,179.67
3.5	Under/over recovery from 6.6 statement 3.	Rs Lakh	1,118.42
<b>3.6</b>	<b>Total FAC to be charged in current month 4=(1+2+3)</b>	<b>Rs Lakh</b>	<b>1,50,878.14</b>
3.7	Actual FAC charged in current month category wise and slab wise 5.	Rs Lakh	25,725.74
3.8	Carried forward FAC (A) for recovery during future period (4-5)	Rs Lakh	<b>1,25,152.41</b>

## **7. Recovery from Consumers:**

As notified on 28<sup>th</sup> January 2011, vide Maharashtra Electricity Regulatory Commission (Terms and Conditions of Tariff) (Amendment) Regulations, 2011, the Commission has amended the Regulations applicable to recovery of FAC as follows:

*“82.6 The monthly FAC charges of a particular tariff category/sub-category/consumption slab shall not exceed 10% of the variable component of tariff of that tariff category/sub-category/consumption slab, or such other ceiling as be stipulated by the Commission from time to time.*

*Provided that any excess in the FAC charge over the above ceiling shall be carried forward by the Distribution Licensee and shall be recovered over such future period as be directed by the Commission.*

*Provided further that in case of un-metered consumers, ceiling of FAC charges shall be calculated by multiplying the ceiling of FAC charges of metered sub-category by the ratio of Average Billing Rate (ABR) of respective un-metered sub-category to ABR of metered sub-category within the same tariff category.*

*“82.10. Calculation of FAC per kWh for a particular tariff category/sub-category/consumption slab shall be as per the following formula:*

*FACCat Rs/kWh = (FAC / (Metered sales + Unmetered consumption estimates + Excess distribution losses)) \* K \* 10*

*Where:*

*FACCat = FAC for a particular tariff category/sub-category/consumption slab in ‘Rupees per kWh’ terms.*

*K = (Energy Charge) / (ACOS)*

*Where,*

*Energy Charge = Energy Charge for a particular tariff category / sub-category/ consumption slab under consideration in ‘Rupees per kWh’ as approved by the Commission in Tariff Order.*

*ACOS = Average Cost of Supply in ‘Rupees per kWh’ as approved for recovery by the Commission in Tariff Order.*

Based on the above amendment, MSEDCL has calculated the “FAC apportioned to each Tariff Category and as per applicable slab”,

As the FAC has been limited to the cap of 10% of the energy charge at each consumer slab/category, because of the energy consumption of the respective categories being at slight plus or minus variances as compared to the Order values, in spite of the fact that the FAC in certain categories has reached the cap values, the average FAC has not reached the cap value Rs. 0.455/kWh

**Table 5C**

<b>Sr. No.</b>	<b>Details</b>	<b>Unit</b>	<b>Qty</b>
1	<b>Sales in licensed area</b>	MUs	6,828.69
2	FAC(A) =C+I+B	Rs Lakh	61,414.77
3	FAC (A) disallowed corresponding to excess T&D loss	Rs Lakh	-
<b>4</b>	<b>FAC kWh</b>	<b>Rs/kWh</b>	0.899363
5	FAC (A) charged as per 8.3 category wise and slab wise 1	Rs Lakh	56,580.05
6	C/f from Previous month.	Rs Lakh	93,179.67
7	Under/over recovery from 6.6 statement 3.	Rs Lakh	1,118.42
8	<b>Total FAC to be charged in current month 8=(5+6+7)</b>	<b>Rs Lakh</b>	<b>1,50,878.14</b>
<b>9</b>	<b>Total FAC</b>	<b>Rs/kWh</b>	<b>2.2094</b>
10	Actual FAC charged in current month category wise and slab wise 5.	Rs Lakh	25,725.74
<b>11</b>	<b>FAC charged</b>	<b>Rs/kWh</b>	<b>0.3767</b>
12	Carried forward FAC (A) for recovery during future period 12=(8-10)	Rs Lakh	<b>1,25,152.41</b>

**Table-6 A**

<b>Sr. No.</b>	<b>Categories</b>	<b>Approved energy charges</b>	<b>FAC To be Charged In The Billing Month</b>
<b>A</b>	<b>LT Category</b>	<b>Rs/KWH</b>	<b>Paisa/KWH</b>
<b>1</b>	<b>Domestic (LT-I)</b>		
A	BPL (0-30 Units)	0.89	<b>8.90</b>
<b>B</b>	<b>Consumption &gt; 30 Units per month</b>		
i	1-100 Units	2.82	<b>28.24</b>
ii	101-300 Units	5.00	<b>49.98</b>
iii	301-500 Units	7.15	<b>71.51</b>
iv	500-1000 Units	8.29	<b>82.94</b>
v	Above 1000 Units	8.55	<b>85.54</b>
	<b>Sub Total Domestic</b>		
<b>2</b>	<b>Non Domestic (LT-2)</b>		
A	<b>0-20 KW</b>		
i	<b>Educational institute and Hospitals</b>		
a	0-200 Units	4.92	<b>49.22</b>
b	Above 200 units	6.87	<b>68.66</b>
ii	<b>Others</b>		
a	0-200 Units	5.15	<b>51.52</b>
b	Above 200 units	7.38	<b>73.82</b>
B	<b>&gt;20-50 KW</b>	7.44	<b>74.37</b>
	<b>&gt;50 KW</b>	9.61	<b>96.12</b>
<b>3</b>	<b>Public Water Works (LT-III)</b>		
A	0-20 KW	1.97	<b>19.66</b>
B	20-40 KW	2.54	<b>25.38</b>
C	40-50 KW	3.45	<b>34.50</b>
<b>4</b>	<b>Agriculture (LT-IV)</b>		
A	Unmetered Tariff		
1	Zones with Consumption norm < 1318 Hrs/HP/Annum 980 hrs basis		
	A) 0-5 HP	1.97	13.46 Rs/HP
	B) Above 5 HP	2.21	13.46 Rs/HP

<b>Sr. No.</b>	<b>Categories</b>	<b>Approved energy charges</b>	<b>FAC To be Charged In The Billing Month</b>
2	Zones with Consumption norm > 1318 Hrs/HP/Annum 1734 Hrs basis		
	A) 0-5 HP	2.42	29.22 Rs/HP
	B) Above 5 HP	2.71	29.22 Rs/HP
<b>B</b>	<b>Metered Tariff (Including Poultry Farms)</b>	1.76	<b>17.58</b>
<b>5</b>	<b>LT Industries (LT-V)</b>		
A	0-20 KW	4.46	<b>44.61</b>
B	Above 20 KW	6.17	<b>61.74</b>
	<b>TOD Consumption</b>		
	2200 Hrs-0600 Hrs		
	0600 Hrs-0900 Hrs & 1200 Hrs-1800 Hrs		
	0900 Hrs-1200 Hrs		
	1800 Hrs-2200 Hrs		
<b>6</b>	<b>Street Light (LT-VI)</b>		
A	Grampanchayat A, B & C Class Municipal Council	3.55	<b>35.48</b>
B	Municipal corporation Area	4.23	<b>42.29</b>
<b>7</b>	<b>Temporary Connection (LT-VII)</b>		
A	Temporary Connection (Religious)	2.88	<b>28.79</b>
B	Temporary Connection (Other Purposes)	13.16	<b>131.60</b>
<b>8</b>	<b>Advertising and Hording (LT-VIII)</b>	18.30	<b>183.01</b>
<b>9</b>	<b>Crematorium &amp; Burial (LT-IX)</b>	2.88	<b>28.79</b>

**Table 6- B**

<b>Sr. No.</b>	<b>Categories</b>	<b>Approved energy charges</b>	<b>FAC To be Charged In The Billing Month</b>
<b>B</b>	<b>HT CATEGORY</b>	<b>Rs/kWH</b>	<b>Paisa/KWH</b>
	<b>HT-I - Industries</b>		
<b>A</b>	HT-I - Cont (Express Feeders)	6.03	60.306
<b>B</b>	HT-I – Non Cont (Non Express Feeders)	5.49	54.92
<b>C</b>	HT-I - Seasonal Category	6.75	67.458
<b>2</b>	<b>HT-II Commercial</b>		
<b>a</b>	<b>Express Feeder</b>		
<b>i)</b>	Education Institute and Hospitals	8.75	87.547
<b>ii)</b>	Other	9.10	90.958
<b>b</b>	<b>B) Non-Express Feeder</b>		
<b>i)</b>	Education Institute and Hospitals	8.18	81.832
<b>ii)</b>	Other	8.52	85.243
	<b>Total HT II Commercial</b>		
<b>3</b>	<b>HT-III Railways</b>	6.64	66.351
<b>4</b>	<b>HT-IV Public Water Works (PWW)</b>		
<b>A</b>	Express Feeders	4.30	42.951
<b>B</b>	Non-Express Feeders	4.12	41.195
	<b>Total HT-IV Public Water Works (PWW)</b>		
<b>5</b>	<b>HT-V Agricultural</b>	2.46	24.607
<b>6</b>	<b>HT-VI Bulk Supply</b>		
<b>A</b>	Residential Complex	4.25	42.521
<b>B</b>	Commercial Complex	7.24	72.359
	HT Residential		
	0-100 Units		
	101-300 Units		
	301-500 Units		
	501-1000 Units		
	Above 1000 Units		
<b>7</b>	<b>Total HT-VI Bulk Supply</b>		
<b>8</b>	<b>Mula Pravara Electric Co-op Society (MPECS)</b>	0.00	0.00
<b>9</b>	<b>Temporary Supply</b>	11.30	112.995

## APPENDIX 2.1

Assumptions/Norms as per APR order for MSPGCL dated September 12, 2009 (Case 102 of 2009),

### Summary of New Norms:

#### 1.1 Purchases from MSPGCL:

Station	Net Gen (MUs)	Energy Charge as per Order (Rs/kWh)	Approved Heat Rate applicable for FY 2010-11 kCal/kWH	Approved Auxiliary Consumption for FY 2010-11 %
Khaparkheda	5,458.81	1.77	2559.9	9.74
Paras	337.45	1.82	3186.5	12.45
Bhusawal	2,946.27	2.1	2733.9	10.55
Nasik	5,394.24	2.22	2721.9	10.95
Parli	4,172.35	1.91	2744.6	11.15
Koradi	6015.64	1.61	2964.8	10.70
Chandrapur	14,898.24	1.56	2617	9.15
Paras -3	1,594		2500	9.0
Parli -6	1,594		2500	9.0
Uran	5745.20	1.68	1980	2.40



## 2.2 Purchases

Particulars	Approved MU Annual	Approved Variable Cost (Rs./kWh)
<b>MSPGCL</b>	<b>50490</b>	
Korba STP	5096	0.69
Vindhayanchal STP I	3395	1.02
Vindhayanchal STP II	2652	1.24
Vindhayanchal STP III	2211	1.45
KAWAS APM	1345	1.30
GANDHAR APM	1314	2.52
Farakka STPP-EP	129	2.23
Kahalgaon TPS-EP	61	2.50
KahalgaonTPS-II	511	2.13
TSTPS-EP	84	1.01
Sipat Stage - II	2242	1.65
<b>NTPC</b>	<b>19040</b>	<b>1.25</b>
Kakrapar APP	368	2.15
Tarapur APP 1&2	1206	0.94
Tarapur APP 3&4	1934	2.73
<b>NPCIL</b>	<b>3507</b>	<b>2.05</b>
Saradar Sarovar Project	635	2.05
PENCH	240	2.05
U.I. CHARGES	0	3.00
DODSON-I	21	2.99
DODSON-II	43	
RGPPL	11000	2.88
<b>TOTAL PP</b>	<b>23423</b>	
NCE Sources	4114	
CPPs	392	