

# KERALA STATE ELECTRICITY BOARD

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## CORPORATE OFFICE (Commercial & Tariff)

NO. KSEB /TRAC/LT Restriction /2008

10-10-2008

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### CIRCULAR

Sub: Imposing power restriction to all LT consumers in the State with effect from 15-10-2008.

Read: 1. KSERC order dated 6<sup>th</sup> October 2008 on petition No. OP No. 4/2008.  
2. B.O (FM) No. 2470/08 (KSEB/TRAC/ LT restriction dated Thiruvananthapuram dated 07-10-2008.

KSERC vide the order read as 1<sup>st</sup> paper above, has issued orders to impose restriction to all consumers of the State with effect from 15-10-2008. The summary of the KSERC's order is given below.

- (1) Restrict the monthly consumption of domestic LT- consumers to 200 units per month and any consumption above 200 units per month shall be charged at the actual cost of additional power purchase on a monthly basis, as fixed by the Commission.
- (2) Power restriction to the tune of 20% shall be imposed to LT-II, LT- IV, LT- VI (except LT-VI (D)), and LT VII categories of consumers. The quota shall be fixed as 80% of the average monthly consumption of the previous year 2007-08. In the case of new consumers, the average consumption shall be 50 units/kW/month and quota shall be fixed accordingly. Energy consumption in a month over and above the quota fixed shall be charged at the actual cost of additional purchase on a monthly basis as fixed by the Commission.
- (3) The power restrictions to the tune of 25% imposed on HT-EHT consumers vide the order No. OP 3/2008, dated 24-07-2008 is reduced to 20% with effect from 15-10-2008.
- (4) No fuel surcharge be levied for the consumption above the 80% quota fixed and consumption in excess of 200 units per month in the case of domestic consumers.
- (5) The order shall be effective from 15-10-2008.

As ordered by KSERC, Board vide the order read as 2<sup>nd</sup> paper above has orders to implement the directions of the Commission with effect from 15-10-2008.

The billing procedure to be followed during the transition period ie. from 15-10-2008 to 13-12-2008 is appended to this circular.

**M.Subair  
Secretary**

Encl: As above

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**BILLING PROCEDURES BI-MONTHLY BILLING CONSUMERS WITH EFFECT FROM 15.10.2008**

**A. DOMESTIC CONSUMERS**

**(1) For the period 15.10.2008 to 13.12.2008( 60 days)**

- (a) If the bi-monthly consumption of a consumer as on billing date is **less than or equal to 400 units**, then the invoice shall be raised at the prevailing tariff and including the thermal surcharge as followed now.
- (b) If the bi-monthly consumption as on billing date is **more than 400 units**, then the invoice shall be raised as follows:

i) Let the consumption as on billing date is “X” units

*Note: In case of meter faulty, door locked etc the consumption based on previous six months average shall be taken as the monthly consumption as on the date of billing.*

ii) Excess consumption over 400 units “E” =X-400 units

iii) Multiplication factor for arriving pro rata excess consumption ‘f’ shall be taken from Table-1.

iv) The pro rata excess consumption “E1’ = E x f.

v) Energy rate for excess consumption as approved by KSERC (will be communicated every month) is “c”.

vi). Total cost of energy for the excess consumption “R1” = E1 x c

vi) Energy charges for the balance consumption of (X-E1) units shall be computed using the ready reckoner= R2

viii). Thermal surcharge for the balance consumption of (X-E1) units s @ 50 paise per unit, R3 = (X-E1) x 0.50

ix). Electricity duty from the ready reckoner for the entire consumption is “D”.

x). Total energy rate = R1+R2+R3+D.

The details to be entered in the invoice are as follows:

- i) The energy charged for (X-E1) units = R1 =  
ii) Thermal surcharge for (X-E1) units =R2 =  
iii) Energy charge for the excess consumption E1 units= R3 =  
iv) Electricity Duty D =  
vi) Total =

**Note: Meter rent and other charges shall be levied extra.**

**(2) For the period from 14.12.2008 onwards.**

The bills for the period from 14.12.2008 shall be prepared as follows:

(a) If the bi monthly consumption is less than or equal to 400 units, the invoice shall be prepared as per present practice.

(b) If the bi monthly consumption is more than 400 units the invoice shall be prepared as follows:

i) Let the consumption as on billing date is “X” units

*Note: In case of meter faulty, door locked etc the consumption based previous six months average shall be taken as the monthly consumption as on the billing date.*

ii) Excess consumption over 400 units “E1” = X-400 units.

iii) Energy rate for excess consumption as approved by KSERC (will be communicated every month) is “c”.

iv) Total cost of energy for excess consumption  $R1 = E1 \times c$

v) Energy charges for the base consumption of 400 units from the ready reckoner  $R2 = Rs.981/-$

vi) Thermal surcharge for 400 units @ 50 paise per unit,  $R3 = 400 \times 0.50 = Rs.200/-$ .

vii) Electricity duty “D” from the ready reckoner for the entire consumption of of ‘X’ units

viii) Total energy rate =  $R1+R2+R3+D$ .

The details to be entered in the invoice are as follows:

i) The energy charged for 400 units  $R1 =$

ii) Thermal surcharge for 400 units  $R2 =$

iii) Energy charge for the excess consumption  $R3 =$

iv) Electricity Duty –  $D =$

Total =

**Note: Meter rent and other charges shall be levied extra.**

**(B) BILLING PROCEDURE FOR BIMONTHLY BILLING CONSUMERS OF LTVI(LT VI (A), VI(B), & VI(C) AND LTVII COMMERCIAL CONSUMERS**

**(1) For the transition period from 15-10-2008 to 13-12-2008.**

Let 'q' be the monthly energy quota fixed, then excess consumption over the quota and energy charge for the excess shall be computed as given below;-

- (a) If the bi-monthly consumption is less than the quota of '2 x q' units, the invoice shall be prepared as was done till date.
- (b) If the bi-monthly consumption is higher than the quota of '2 x q', the invoice shall be prepared as given below.
- (i) Let the consumption as on billing date – X units
  - (ii) Compute the excess consumption 'E' = X-2q
  - (iii) Multiplication factor for arriving the excess consumption over the quota as on billing date- 'f' from Table-1
  - (iv) Prorata excess consumption over the quota =E1=E x f
  - (v) Energy rate for the excess consumption to be approved by the KSERC(the rate will be communicated every month) = c
  - (vi) Energy charge for the excess consumption R1= E1 x c
  - (vii) Energy charge for the consumption (X-E1) units from ready reckoner=R2
  - (viii) Thermal surcharge for the energy quota (X-E1) units = R3= (X-E1) x 0.5
  - (ix) Electricity duty 'D' from the ready reckoner for the entire consumption of 'X' units = D

Total Energy charge = R1+R2+R3+D

The details shall be entered in the invoice shall be taken from

- (i)Energy charge for the quota allowed - R1
- (ii)Thermal surcharge for the quota – R2
- (iii)Energy charge from the excess consumption – R3
- (iv)Electricity duty 'D' =

**Note:-**

1. If the consumption as on billing date is less than the quota allowed , the invoice shall be prepared as was done till date.
2. *Meter faulty, door locked etc the average consumption for the last six months shall adopted on the actual consumption as on billing date.*

**(2) For the period from 14-12-2008**

Let 'q' be the monthly energy quota fixed, then excess consumption over the quota and energy charge for the excess shall be computed as given below;-

- i) Let the consumption as on billing date – X units
  - ii) Compute the excess consumption 'E' = X-2q
  - iii) Energy rate for the excess consumption to be approved by the KSERC(the rate will be communicated every month) = c
  - iv) Energy charge for the excess consumption R1= E x c
  - v) Energy charge for the energy quota = 2xq from ready reckoner=R2
  - vi) Thermal surcharge for the energy quota '2xq' = R3= 2q x 0.5
  - vii) Electricity duty 'D' from the ready reckoner for the entire consumption of 'X' units = D
- Total Energy charge = R1+R2+R3+D

The details shall be entered in the invoice shall be taken from

- (i)Energy charge for the quota allowed - R1
- (ii)Thermal surcharge for the quota – R2
- (iii)Energy charge from the excess consumption – R3
- (iv)Electricity duty 'D' =

**Note:-**

- 1. If the consumption as on billing date is less than the quota allowed , the invoice shall be prepared as was done till date.
- 2. *Meter faulty, door locked etc the average consumption for the last six months shall adopted on the actual consumption as on billing date.*

**(C) BILLING PROCEDURE FOR MONTHLY BILLED LT CONSUMERS**

**(1) For the month of October-2008**

The invoice shall be prepared for the month of October 2008 as follows:

- (i) Compute the excess consumption
  - (a) For LT II, LTIV, LTVI & LT VII consumers,  
E= Total consumption for the month – quota 'q' allowed
  - (b) For Domestic  
E = Total consumption for the month-200 units
- (ii) Excess consumption for October 2008 =E1=E x 0.548
- (iii) Energy rate for the excess consumption = E1x c, where c is the energy rate for the excess consumption approved by KSERC (it will be communicated every month)
- (iv) The energy charge for the consumption (total consumption- E1) shall be computed as was done till date for LT-II, LT-IV, LT-VI (A), VI(B), LT-VI(C) and LT-VII and for domestic consumers.
- (v) Electricity Duty 'D' shall be collected for the total monthly consumption

Note:-

1. If the consumption as on billing date is less than the quota allowed , the invoice shall be prepared as was done till date.
2. *Meter faulty, door locked etc the average consumption for the last six months shall adopted on the actual consumption as on billing date.*

**(2) From November-2008 onwards**

The invoice shall be prepared for the month of October 2008 as follows:

- (i) Compute the excess consumption
  - (a) For LT II, LTIV, LTVI & LT VII consumers,  
E= Total consumption for the month – quota ‘q’ allowed
  - (b) For Domestic  
E = Total consumption for the month-200 units
- (ii) Energy rate for the excess consumption = Ex c, where c is the energy rate for the excess consumption approved by KSERC (it will be communicated every month)
- (iii) The energy charge for the consumption upto quota allowed for LT-II, LT-IV, LT-VI (A), VI(B), LT-VI(C) and LT-VII and upto 200 units for domestic consumers shall be computed as was done now.
- (iv) Electricity Duty ‘D’ shall be collected for the total monthly consumption

Note:-

3. If the consumption as on billing date is less than the quota allowed , the invoice shall be prepared as was done till date.
4. *Meter faulty, door locked etc the average consumption for the last six months shall adopted on the actual consumption as on billing date.*

**EXAMPLES**

**Example-1**

Let the bi – monthly consumption of a domestic consumer as on 25.10.2008 is 475 units, the invoice shall be prepared as follows:

*Step 1*

Excess consumption (E) = 475-400  
=75 units

*Step 2*

Pro rata multiplication factor (f) from Table-1 = 0.1833

*Step 3*

Pro rata excess consumption as on 25.10.2008 = 75 x 0.1833  
= 13.75 units

*Step 4*

Let the energy rate for excess consumption = Rs.8.83 per unit

***(The energy rate shall be communicated separately as and when KSERC approves the rate).***

Energy rate for excess consumption (R1) = 13.75 x 8.83  
= Rs.121.41

*Step 5*

Energy charge for the balance consumption (X-E1) = (475-13.75) = 461.25 units (*from the ready reckoner*) (R2) = Rs.1243.30/-

*Step 6*

Thermal surcharge for 461.25 units (R3) = 461.25 x 0.50  
= Rs.230.60/-

*Step 7*

Electricity duty (D) for 475 units (*from the ready reckoner*) = Rs.94.85

*Step 8*

The details to be entered in the invoice is as follows:

i) The energy charged for 461.25 units (R1)	= Rs.1243.30/-
ii) Thermal surcharge for 461.25 units (R2)	= Rs.230.60/-
iii) Energy charge for the excess consumption (R3)	= Rs.121.40
iv) Electricity (D)	= Rs.94.85
<b>Total</b>	<b>= Rs.1690.15/-</b>
	Rounded off to 1690/-

Meter rent and other charges etc shall be levied extra.

**Example-2**

When the consumption of a domestic consumer as on 20.12.2008 is 650 units, his invoice shall be prepared as follows:

*Step 1*

Excess consumption (E) = 650 - 400  
= 250 units

*Step 2*

Let the energy rate for excess consumption = Rs.8.83 per unit  
*(The energy rate for the excess consumption shall be communicated separately as and when KSERC approves the rate).*

Energy rate for excess consumption (R1) = 250 units x 8.83  
= Rs.2207.50

*Step 3*

Energy charge for 400 units (*from the ready reckoner*) (R2) = Rs.981/-

*Step 4*

Thermal surcharge for 400 units (R3) = 400 x 0.50  
= Rs.200/-

*Step 5*

Electricity duty (D) for 650 units (*from the ready reckoner*) = Rs.157.60

*Step 6*

The details to be entered in the invoice is as follows:

i) The energy charged for 400 units R1	= Rs.981/-
ii) Thermal surcharge for 400 units R2	= Rs.200/-
iii) Energy charge for the excess consumption R3	= Rs.2207.50
iv) Electricity Duty "D"	= Rs.157.60
<b>Total</b>	<b>= Rs.3546.10</b>
	<b>(Rounded off to Rs.3546/-)</b>

( Meter rent and other charges shall be levied extra.)

### Example-3

Let the bi-monthly energy consumption of an LT VI A consumer on 12-11-2008 is 550 units, his invoice shall be prepared as follows.

#### Step 1

The monthly quota of the consumer (fixed by the section office based on the guide lines issued by the Chief Engineer (Commercial & Tariff) = 220 units

#### Step 2

$$\begin{aligned}\text{Excess consumption } E &= 550 - 2 \times \text{quota} \\ &= 550 - 2 \times 220 \\ &= 110 \text{ units}\end{aligned}$$

#### Step 3

Multiplication factor arriving excess consumption as on 12-11-2008  
'f' = 0.4833

#### Step 4

$$\begin{aligned}\text{Prorata excess consumption over the quota} = E1 &= 110 \times 0.4833 \\ &= 53.17 \text{ units}\end{aligned}$$

#### Step 5

Let the energy rate for the excess consumption to be approved by KSERC – (The rate will be communicated every month ) say 'c' = Rs 8.83/ units)

#### Step 6

$$\text{Energy rate for the excess consumption} = R1 = 53.17 \times 8.83 = \text{Rs } 469.46$$

#### Step 7

Energy charge for the consumption of (X-E1) units = (550- 53.17) = 496.83 units from ready reckoner.

$$= R2 = \text{Rs } 1913.45$$

#### Step 8

Thermal surcharge for the consumption (X-E1) units

$$= R3 = 496.83 \times 0.50/\text{unit} = \text{Rs } 248.41/-$$

#### Step 9

Electricity duty for the entire consumption of 550 units (from the ready reckoner) =  
D = Rs 176.00

#### Step 10

$$\begin{aligned}\text{Total energy charge + Duty} &= R1 + R2 + R3 + D \\ &= 469.46 + 1913.45 + 248.41 + 176 \\ &= \text{Rs } 2807.32/-\end{aligned}$$

The details were entered in the invoice as follows

(i)Energy charge for the consumption (X-E1) units	= Rs 1913.45
(ii)Thermal surcharge for the consumption (X-E1) units	= Rs 248.41
(iii)Energy charge from the excess consumption	= Rs 469.46
(iv)Electricity duty for the entire consumption	= Rs 176.00

$$\begin{aligned}\text{Total energy charge + Duty} &= \text{Rs } 2807.32 \\ \text{Rounded off to} &= \text{Rs } 2807.00\end{aligned}$$

(Meter rent and other charges if any shall be levied extra)

Table-1  
**Multiplication factors for Bi-monthly consumers**  
 ( With effect from 15-10-2008 to 13-12-2008)

Date of Reading	Factor
15-Oct-08	0.017
16-Oct-08	0.033
17-Oct-08	0.050
18-Oct-08	0.067
19-Oct-08	0.083
20-Oct-08	0.100
21-Oct-08	0.117
22-Oct-08	0.133
23-Oct-08	0.150
24-Oct-08	0.167
25-Oct-08	0.183
26-Oct-08	0.200
27-Oct-08	0.217
28-Oct-08	0.233
29-Oct-08	0.250
30-Oct-08	0.267
31-Oct-08	0.283
1-Nov-08	0.300
2-Nov-08	0.317
3-Nov-08	0.333
4-Nov-08	0.350
5-Nov-08	0.367
6-Nov-08	0.383
7-Nov-08	0.400
8-Nov-08	0.417
9-Nov-08	0.433
10-Nov-08	0.450
11-Nov-08	0.467
12-Nov-08	0.483
13-Nov-08	0.500

Date of Reading	Factor
14-Nov-08	0.517
15-Nov-08	0.533
16-Nov-08	0.550
17-Nov-08	0.567
18-Nov-08	0.583
19-Nov-08	0.600
20-Nov-08	0.617
21-Nov-08	0.633
22-Nov-08	0.650
23-Nov-08	0.667
24-Nov-08	0.683
25-Nov-08	0.700
26-Nov-08	0.717
27-Nov-08	0.733
28-Nov-08	0.750
29-Nov-08	0.767
30-Nov-08	0.783
1-Dec-08	0.800
2-Dec-08	0.817
3-Dec-08	0.833
4-Dec-08	0.850
5-Dec-08	0.867
6-Dec-08	0.883
7-Dec-08	0.900
8-Dec-08	0.917
9-Dec-08	0.933
10-Dec-08	0.950
11-Dec-08	0.967
12-Dec-08	0.983
13-Dec-08	1.000