

**ANDHRA PRADESH ELECTRICITY REGULATORY COMMISSION**  
4<sup>th</sup> & 5<sup>th</sup> Floors, Singareni Bhavan, Red Hills, Hyderabad - 500 004

=====

**Revised Order on Restriction and Control(R&C) measures - Approval granted.**

- - -  
Proceedings No. APERC/Secy/ 16 /2012-13

Dated: 01-11-2012

**Read the following:**

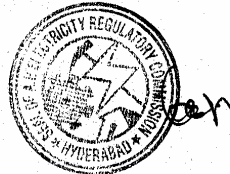
1. CGM (Comml)/SE(C)/ DE(C) /ADE(C)/D.No. 2198/12 Dated 11-10-2012.
2. Proceedings No. APERC/Secy/14/2012-13 Dated 14-09-2012
3. CGM(Comml)/SE(C)/ DE(C) /ADE(C)/D.No. 1831/12 Dated 11-09-2012.
4. Proceedings No. APERC/Secy/ 13 /2012-13 Dated 07-09-2012
5. CGM(Comml)/SE(C)/ DE(C) /ADE(C)/D.No. 1624/12 Dated 29-08-2012
6. Tariff Order FY 2012-13
7. Secy/01/2006 Dated 06-01-2006.

\*\*\*

The Central Power Distribution Company of Andhra Pradesh Limited (APCPDCL), on behalf of all the four Distribution companies, namely APCPDCL, APEPDCL, APNPDCL, APSPDCL, submitted a representation vide reference (5) cited, seeking permission to impose restriction on power supply under section 23 of Electricity Act, 2003 and Clause 16 of General Terms and Conditions of Supply. The brief details of the proposals are furnished below:

2. The Distribution Licensees stated that the state will be in an energy deficit situation during the year 2012-13 due to the following reasons:

- **Load Growth:** Presently power supply to APDISCOMs is about 202 MU / day as against a demand of 276 MU / day. There is a shortfall of 74 MU / day. This is due to load growth by about 10% when compared to previous year i.e., 2011. The demand met during the month of August 2012 is 9929 MW due to prevailing R&C measures as against demand of 11377 MW met during the month of August 2011 which is due to shortfall in generation.
- **Outages of Thermal Generating Plants:** Continuous dry spell in the State and increasing demand combined with more forced outages of thermal units due to



technical problems has resulted in average shortfall of 49 MU / day during the month of August 2012.

- **Non-availability of Hydel Capacity:** Due to delay in monsoon and insufficient inflows to hydel reservoirs, the hydel stations are not in a position to operate at full capacity and thus the shortfall in hydel generation is about 30 MU / day.
- **Gas shortage** - Due to short supply of gas, around 2038 MW of power availability has been affected adversely.

3. Major States in the country are facing energy deficit and the inter-regional transmission corridor constraints limit the extent of power procurement by APDISCOMs from market. The Licensees projected that, there would be high quantum of energy deficit to the extent of 21 MU to 79 MU during the period between September, 2012 and March, 2013 and further stated that the APDISCOMs have no other option but to impose restriction on usage of power.

4.(a) The Commission examined the Licensees' proposal in detail and considering the recent Grid disturbance in Northern Region on 30<sup>th</sup> July 2012 and in Northern, Eastern & North-Eastern Region on 31<sup>st</sup> July 2012, the Commission came to the view that it is essential to permit the restriction on usage of power by consumers in order to protect the Grid from such grid failures and to maintain discipline among various consumers.

(b) Accordingly, the Commission issued order cited in reference (4) imposing certain Restriction and Control measures effective from 12-09-2012.

(c) The DISCOMs submitted a revised proposal vide letter cited in reference (3), in pursuance of representations received by them from various consumer groups and after discussions with all the four DISCOMs in the tele-conference held on 10-09-2012. Further the Discoms stated that, as per the order, consumers can consume power only to the extent of 36.6%, which is very low and requested to revise the existing load factor from 0.7 to unity.

(d) The Commission has examined the changes suggested by APDISCOMs and also taken note of certain representations made orally or in writing by certain Consumer Associations to the Commission and issued order dated 14-09-2012, cited in reference (2).



(e) M/s APCPDCL, on behalf of all four DISCOMs in the state submitted a revised Restriction and Control(R&C) measures proposal vide letter cited in reference (1). The proposal states that the gap between demand and supply has been widened, as mentioned in the table below, as expected availability in hydel generation did not materialize.

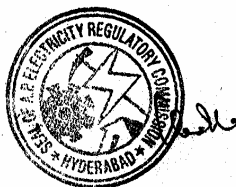
Month	Demand (MU/day)	Availability (MU/day)	Deficit (MU/day)
Oct'12	289.87	218.07	71.80
Nov'12	271.84	221.26	50.58
Dec'12	268.49	229.87	38.62
Jan '13	262.55	236.70	25.85
Feb '13	289.44	238.52	50.92
Mar '13	327.09	242.10	84.99
Apr'13	308.20	234.00	74.20
May'13	273.24	229.94	43.30

5. In the proposal, the Discoms proposed to allow Permitted Demand Limit upto 50% of CMD and Permitted Consumption Limit of energy up to 70% load factor for HT -1 Industry General. With the above energy and demand limits, the effective load factor would be less than 34%, including peak restrictions. With 50% demand restriction, it is very difficult to consume permitted energy even to the extent of 34% load factor and the industry may not sustain.

6. Considering the above and the consumption levels of various categories of consumers, the Commission has decided to impose the following Restriction and Control (R&C) measures in the state.

**ORDER:**

7. In exercise of the powers conferred by Section 23 read with clause (k) of Sub-section (1) of Section 86 of the Electricity Act, 2003 (36 of 2003) and all powers, enabling it in that behalf, the Andhra Pradesh Electricity Regulatory Commission hereby imposes the following Restrictions & Control (R&C) Measures with effect from, 00:00 hrs on 07-11-2012, and will be operative till 31-03-2013. The order dated 14-09-2012 cited in reference 2, shall stand repealed w.e.f 00:00 hrs on 07-11-2012.



8. For the purpose of this order, the off-peak period means 00:00 Hrs to 18:00 Hrs and 22:00 to 24:00 Hrs. Peak period means 18:00 to 22:00 Hrs.

9. No consumer shall exceed the Permitted Demand Limit (PDL) prescribed hereunder for the respective category during peak hours or off-peak hours.

10. No consumer shall exceed Permitted Consumption Limit (PCL) prescribed hereunder for the respective category during peak hours or off-peak hours.

11. This Restriction and Control (R&C) measures order is applicable to the following categories of consumers.

- (a) HT -I and HT-II Consumers.
- (b) LT - Industrial consumers including industries in RESCOs.
- (c) Advertising hoardings.

For Rural Electric Cooperative Societies (RESCO), no demand and energy restrictions are imposed. However, RESCOs shall implement R & C measures to consumer categories as approved in this order.

12. Category wise Restrictions on Contracted Demand and Energy consumption are mentioned in para 13 to 16 below.

**13. HT-I (B) Ferro Alloy Industry:**

Consumers who fall under this category will have the option to indicate their choice either for option 1 or for option 2 mentioned below. The DISCOMs shall regulate supply to consumers under this category as per the option indicated by the consumer.

**Option-1:**

Power supply throughout the month with 60% contracted demand during off peak hours and 30% contracted demand during peak hours.

**Permitted Demand Limits (PDL) under option - 1:**

- (a) PDL during Off peak = 60% x Contracted Maximum Demand
- (b) PDL during peak = 30% x Contracted Maximum Demand



**Permitted Consumption Limit (PCL) under option - 1:**

- (a) PCL during Off peak  
=  $CMD \times 60\% \times 90\% \times 1(PF) \times \text{No. of off-peak hours in the month}$
- (b) PCL during peak  
=  $CMD \times 30\% \times 1(PF) \times \text{No. of peak hours in the month}$

**Option-2:**

18 days power supply at a stretch and power holiday of 12 days. During 18 days power supply, 100% contracted demand during off peak hours and 30% contracted demand during peak hours is permitted. During power holiday period of 12 days, 10% of contracted demand is permitted for maintenance.

**Permitted Demand Limits (PDL) under Option - 2:**

- (a). PDL during off-peak hours = 100% of Contracted Demand for 18 days
- (b). PDL during peak hours = 30% of Contracted Demand for 18 days.
- (c). PDL during power holiday period= 10% of Contracted Demand for 12 days

**Permitted Consumption Limit (PCL) under option -2:**

- (a). PCL during Off peak =  $CMD \times 90\% \times 1(PF) \times \text{No. of off-peak hours for 18 days}$
- (b). PCL during peak =  $CMD \times 30\% \times 1(PF) \times \text{No. of peak hours for 18 days}$
- (c). PCL during power holiday =  $CMD \times 10\% \times 50\% \times 1(PF) \times \text{No. of hours for 12 days.}$

**14. HT-I continuous process industries:**

To avail supply under this category, the Consumers have to take prior approval from the respective CMD of the DISCOMs duly furnishing the details of their manufacturing process and end product.

Consumers who fall under this category will also give their option in writing either for option 1 or for option 2 mentioned below to the concerned SE/Operation with a copy to the CMD /DISCOM

The DISCOMs shall regulate supply to consumers under this category as per the option indicated by the consumer.

The voltage wise Load Factor shall be as mentioned in the table-1 to arrive at Permitted Consumption Limit (PCL).



Table -1

Sl. No.	Supply Voltage	LF for PCL	
		Off-Peak	Peak
1	EHT	75%	100%
2	33 kV	70%	100%
3	11 kV	65%	100%

**Option-1:**

Power supply throughout the month with 60% contracted demand during off peak hours and 20% contracted demand during peak hours.

**Permitted Demand Limits (PDL) under option - 1:**

- (a) PDL during Off peak = 60% x Contracted Maximum Demand  
(b) PDL during peak = 20% x Contracted Maximum Demand

**Permitted Consumption Limit (PCL) under option-1:**

- (a). PCL during Off peak  
=  $CMD \times 60\% \times \#LF\% \times 1(PF) \times \text{No. of off-peak hours in the month}$   
# The LF shall be as mentioned in the table-1 based on the supply voltage.
- (b). PCL during peak =  $CMD \times 20\% \times 1(PF) \times \text{No. of peak hours in the month}$

**Option-2:**

18 days power supply at a stretch and power holiday of 12 days. During 18 days power supply, 100% contracted demand during off peak hours and 20% contracted demand during peak hours is permitted. During power holiday period of 12 days, 10% of contracted is permitted for maintenance.

**Permitted Demand Limits (PDL) under option - 2:**

- (a) PDL during Off peak = 100% x Contracted Maximum Demand for 18 days  
(b) PDL during peak = 20% x Contracted Maximum Demand for 18 days  
(c) PDL during power holiday period= 10% of Contracted Demand for 12 days

**Permitted Consumption Limit (PCL) under option-2:**

- (a). PCL during Off peak  
=  $CMD \times \#LF\% \times 1(PF) \times \text{No. of off-peak hours for 18 days.}$   
# The LF shall be as mentioned in the table-1 based on the supply voltage.



- (b). PCL during peak =  $CMD \times 20\% \times 1(PF) \times \text{No. of peak hours for 18 days}$   
(c). PCL during power holiday =  $CMD \times 10\% \times 1(PF) \times \text{No. of hours for 12 days}$ .

**15. HT-1 Other Industries:**

Consumers under this category shall give their option in writing either for option-1, or for option -2, or for option-3 mentioned below to the concerned SE/operation with a copy to the concerned CMD/DISCOM.

The DISCOMs shall regulate supply to consumers under this category as per the option indicated by the consumer.

The voltage wise Load Factor shall be as mentioned in the table-2 to arrive at Permitted Consumption Limit (PCL).

Table-2

Sl. No.	Supply Voltage	LF for PCL	
		Off-Peak	Peak
1	EHT	70%	100%
2	33 kV	65%	100%
3	11 kV	60%	100%

**Option 1:**

Power supply throughout the month with 60% contracted demand during off peak hours and 10% contracted demand during peak hours.

**Permitted Demand Limits (PDL) under option - 1:**

- (a) PDL during Off peak =  $60\% \times \text{Contracted Maximum Demand for 30 days}$   
(b) PDL during peak =  $10\% \times \text{Contracted Maximum Demand for 30 days}$

**Permitted Consumption Limit (PCL) under option-1:**

- (a). PCL during Off peak  
=  $CMD \times 60\% \times \#LF\% \times 1(PF) \times \text{No. of off-peak hours in the month}$   
# The LF shall be as mentioned in the table-2 based on the supply voltage.  
(b). PCL during peak =  $CMD \times 10\% \times 1(PF) \times \text{No. of peak hours in the month}$

**Option 2:**

18 days power supply at a stretch and power holiday of 12 days. During 18 days power supply, 100% contracted demand during off peak hours and 10% contracted demand during



peak hours is permitted. During power holiday period of 12 days, 10% of contracted is permitted for maintenance.

**Option 3:**

Staggered power supply for 18 days, like four days power supply in a week with 100% contracted demand during off peak hours and 10% contracted demand during peak hours. During power holiday period of 12 days, 10% of contracted demand is permitted for maintenance.

**Permitted Demand Limits (PDL) under option - 2 or option - 3:**

- (a) PDL during Off peak =  $100\% \times \text{Contracted Maximum Demand for 18 days}$
- (b) PDL during peak =  $10\% \times \text{Contracted Maximum Demand for 18 days}$
- (c) PDL during power holiday period =  $10\% \text{ of Contracted Demand for 12 days}$

**Permitted Consumption Limit (PCL) under option-2 or option -3:**

- (a). PCL during Off peak  
=  $\text{CMD} \times \text{LF}\% \times 1(\text{PF}) \times \text{No. of off-peak hours for 18 days.}$   
*# The LF shall be as mentioned in the table-2 based on the supply voltage.*
- (b). PCL during peak =  $\text{CMD} \times 10\% \times 1(\text{PF}) \times \text{No. of peak hours for 18 days}$
- (c). PCL during power holiday =  $\text{CMD} \times 10\% \times 1(\text{PF}) \times \text{No. of hours for 12 days.}$

**16. HT-II, LT-III B, LT-III A and LT-II C**

**HT- II:**

- PDL Off peak =  $50\% \times \text{Contracted Maximum Demand}$
- PDL peak =  $40\% \times \text{Contracted Maximum Demand}$
- PCL Off peak =  $\text{CMD} \times 50\% \times 80\% \times 1(\text{PF}) \times \text{No. of off-peak hours in the month}$
- PCL peak =  $\text{CMD} \times 40\% \times 80\% \times 1(\text{PF}) \times \text{No. of peak hours in the month}$

**LT - III B:**

- PDL Off peak =  $60\% \times \text{Contracted Maximum Demand}$
- PDL peak =  $10\% \times \text{Contracted Maximum Demand}$
- PCL Off peak =  $\text{CMD} \times 60\% \times 70\% \times 1(\text{PF}) \times \text{No. of off-peak hours in the month}$
- PCL peak =  $\text{CMD} \times 10\% \times 1(\text{PF}) \times \text{No. of peak hours in the month}$





**LT - III A:**

- PDL Off peak = 100% x Contracted Load (Demand)
- PDL peak = Only lighting load
- PCL = Contracted Load (Demand) x 70% x 1(PF) x No. of off-peak hours in the month

**LT - II C:**

- PCL = Ninety units per month per kW of contracted load.

**For Seasonal Industries:** Seasonal demand and off-Season demand as per the Tariff Order shall be taken into account to arrive at PDL and PCL.

17. The Distribution Companies shall strictly implement these Restriction and Control (R&C) measures and all Consumers, for whom these measures are applicable shall co-operate with the Distribution Licensees in implementing the directions of the Commission. For any non compliance by a consumer, the Licensee shall take action as per the control measures mentioned in para 18.

The Licensees are directed to strictly implement these Restrictions and Control measures in true spirit. Any non-compliance of the order / directions by any Licensee, will attract punishment under section 142 of the Electricity Act, 2003.

**18. Control measures:**

- (a) No consumer shall exceed the PDL during peak or off peak period. If any consumer exceeds the PDL by a quantum less than or equal to 5% of PDL, the Distribution Licensee shall issue a warning notice for first violation in a month. For any subsequent violation, the service will be disconnected with out notice for 24 hours.

If any consumer exceeds the PDL by a quantum exceeding 5% of PDL, the Licensee shall disconnect the service connection for the following time period immediately after detection of violation:

- i) 48 hours disconnection for first violation.
- ii) 7 days disconnection for second time violation.
- iii) 15 days disconnection for third violation.
- iv) 1 month disconnection for fourth violation.



(b) Penal charges for non-compliance of R&C measures:

The Clause 213.6 (8) and Clause 213.3 (4) (iv) of Tariff Order 2012-13, specifies the penal charges to be paid by a consumer for exceeding the contracted demand. In view of the shortage scenario and in order to maintain grid discipline and equitable distribution of available power among different consumer categories, the following penal charges are approved in place of clause 213.6(8) and Clause 213.3(4) of Tariff Order 2012-13 in addition to the measures mentioned in para (a) above.

- I. Demand Charges on excess over Permitted Demand Limit (PDL) shall be billed at the rate of 5 times of normal tariff, if the Demand consumed is less than or equal to 5% of PDL in a month.
- II. Demand Charges on excess over Permitted Demand Limit (PDL) shall be billed separately for peak and off-peak at the rate of 6 times of normal tariff for exceeding the PDL beyond 5% of PDL.
- III. For HT-II Consumers, energy charges on excess over PCL during off-peak period shall be billed at the rate of 5 times of normal tariff. Energy charges on excess over PCL during peak period shall be billed at the rate of 6 times of normal tariff consumed during that particular peak time period i.e., 18:00 Hrs. to 22:00 Hrs. of that day.
- IV. For HT-1 consumers, energy charges on excess over PCL during Off-peak period shall be billed at the rate of 6 times of normal tariff.
- V. Consumers opting for 18 days power supply, shall be billed at the rate of 6 times of normal tariff for exceeding PCL during off-peak hours of power holiday period.
- VI. For HT-1 consumers, energy charges on excess over PCL during peak period shall be billed at the rate of 7 times of normal tariff consumed during that particular peak time period, i.e., 18:00 Hrs. to 22:00 Hrs. of that day.

**19. Specific conditions/provisions:**

- (a) The Billing Demand shall be the maximum recorded demand during the month and clause 213.6.(6) of Tariff Order shall not apply during these R & C measures. For consumers who opt for 18 days power supply, the demand charges shall be billed on pro-rata rate basis i.e., at the rate of 18/30 of the prescribed rate.
- (b) No deemed consumption charges shall be billed during Restriction and control period for HT I b category.



- (c) The Distribution Licensees shall not collect Additional Consumption deposit during the period covered by these Restrictions and Control (R&C) measures.
- (d) The Distribution Licensees shall not release new additional loads for the existing services till these Restrictions are removed. However, the de-rated demand can be restored to original capacity on a request from a consumer.
- (e) The Licensees shall permit non-discriminatory open access to all HT consumers, subject to technical feasibility, and minimum procurement quantum of 100 kW during R&C period shall be allowed without reference to the clause 8.1 of Regulation No. 2 of 2005. The Distribution Licensees shall not levy cross subsidy surcharge and additional surcharge till these Restrictions are removed.
- (f) Consumers having Generating plants running in parallel with the Grid are exempted from Permitted Demand Limit (PDL) to the extent of start up power operations.
- (g) The Distribution Companies shall permit de-ration of contracted demand with in one month from the date of receipt of application during these Restriction and Control period without any minimum period of two years contractual obligation mentioned in Clause 5.9.3 of GTCS.
- (h) The distribution companies shall not allow drawal of power by welding sets during evening peak hours i.e., 18:00 Hrs to 22:00 Hrs and shall disconnect the power supply whenever this restriction is contravened.
- (i) The distribution companies shall not allow decorative lighting. The DISCOMs shall give wide publicity in news papers and educate consumers about banning of decorative lighting. The DISCOMs shall disconnect the power supply without any notice for non-compliance.

**20. Working Instructions:**

- (a) The Divisional Engineer (DE) and Assistant Divisional Engineer (ADE) operation shall be made responsible for effective implementation of these Restriction and Control measures. The Divisional Engineer and Assistant Divisional Engineer shall arrange reading of all HT services in their respective jurisdiction once in a week and get the readings. The readings along with inspection report mentioning incriminating points shall be submitted to the corporate office at the end of every week.
- (b) Apart from the above, the Discoms shall form special teams consisting of DPE, MRT and Operation wings. Each team will have a minimum of three officers headed by not below the rank of Divisional Engineer cadre and shall inspect 3 to

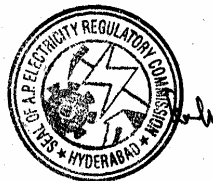


4 services every day and all HT services will be inspected weekly once. The inspecting team will submit a comprehensive report to the corporate office every day.

- (c) The inspecting team shall act as per para 18(a), for non-compliance of this order immediately.
- (d) The DISCOMs shall submit a comprehensive report to the Commission once in 15 days mentioning the details like, name of the service, CMD, PDL and PCL limits, Violations detected, number of services inspected, number of services disconnected etc. At the end of billing month, the Discoms shall submit a report to the Commission mentioning the service wise details of penal charges levied and collected.
- (e) The DISCOMs shall issue detailed working instructions to all the concerned officers and a copy shall be submitted to the Commission.

**21. List of consumer categories exempted from Restriction and control measures:**

- (a) Andhra Pradesh Legislative Assembly / Andhra Pradesh Legislative Council.
- (b) Andhra Pradesh High Court.
- (c) Andhra Pradesh Secretariat.
- (d) News paper printing and Electronic media.
- (e) Singareni Collieries, Ports, Telegraphs, A.I.R and Doordarshan.
- (f) Dairies and Milk Chilling plants, Feed mixing plants, Cold storage plants.
- (g) Ice cream manufacturing industries.
- (h) Central Government R & D units.
- (i) Power supply to Irrigation construction projects.
- (j) Naval Dock Yard, Visakhapatnam.
- (k) Nuclear Fuel Complex, Hyderabad.
- (l) Heavy water plant, Manuguru.
- (m) Oil exploration Service connections and Oil refineries.
- (n) Railway traction, Railway workshops, good sheds and Railway stations.
- (o) Hospitals.
- (p) Police Stations and Fire Stations.
- (q) Defence establishments.
- (r) Street Lights.
- (s) Drinking Water Supply Schemes.
- (t) Water Works, Water pumping stations and Sewerage pumping stations.
- (u) Religious places.

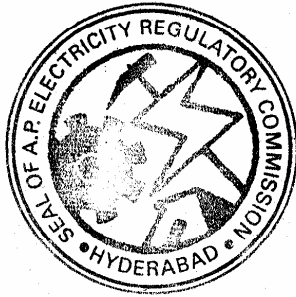


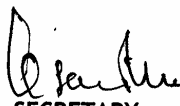
- (v) Uranium Corporation of India.
- (w) Medical oxygen manufacturing plants

The restrictions now imposed would be reviewed by the Commission from time to time based on the demand and supply position. These orders shall come into force w.e.f., 00:00 hrs on 07-11-2012 and will be in force till 31<sup>st</sup> March, 2013.

This order is signed by the Commission on this 1<sup>st</sup> day of November, 2012.

(BY ORDER OF THE COMMISSION)



  
SECRETARY  
Secretary  
A.P. Electricity Regulatory Com  
Hyderabad-500 004.