

PUNJAB STATE ELECTRICITY REGULATORY COMMISSION

Notification

The 10th Dec., 2013

No. PSERC/Secy./Reg. 90 - In exercise of the powers conferred under Section 181 of the Electricity Act, 2003 (Central Act 36 of 2003) and all other powers enabling it in this behalf, the Punjab State Electricity Regulatory Commission hereby makes the following Regulations to further amend the Punjab State Electricity Regulatory Commission (Electricity Supply Code and Related Matters) Regulations, 2007 as notified vide Notification dated 29th June, 2007 and amended vide Notification dated 24th May, 2010, 29th Dec, 2011, 13th Aug, 2012 and 21st June, 2013 namely:-

(1) Short title, Commencement and Interpretation

- 1.1 These Regulations may be called the Punjab State Electricity Regulatory Commission (Electricity Supply Code and Related Matters) (5th Amendment) Regulations, 2013.
- 1.2 These Regulations shall come into force on the date of their publication in the official gazette of the State.

(2) Amendment to Regulation 4- Review Panel

The sub-clause 4.1 shall be substituted as under:

4.1 Constitution of the Review Panel

The Commission will set up a Supply Code Review Panel (hereinafter called Panel), consisting of the following Members:-

- (a) A Member of the Commission nominated by its Chairperson will be Ex-officio Chairperson of the Panel.
- (b) One representative of the State Government.
- (c) One Chief Engineer/General Manager or equivalent level representative of each Distribution Licensee operating in the State.
- (d) One Chief Engineer/General Manager or equivalent level representative of the State Transmission Utility (STU) and each transmission Licensee operating in the State.
- (e) One representative of the State Load Despatch Centre (SLDC), in case SLDC is a separate company or an authority or corporation as envisaged in section 31(2) of the Act.
- (f) Representatives of the consumers not exceeding Seven to be nominated by the Commission representing, as far as possible, different categories of consumers.
- (g) Secretary to the Commission shall be an Ex-officio Member.
- (h) The Secretary of the Panel will be an officer of the Commission nominated by the Chairperson of the Commission.

(3) Amendment to Regulation 4.5- Amendment to the Supply Code

The sub-clause 4.5 (a) shall be substituted as under:

- (a) The Commission may suo-motu or on the recommendations of the Panel amend the Supply Code.

However, views of the public, consumers, the State Government and other stakeholders shall be sought before any amendment is effected.

(4) Amendment to Regulation 5- Duty of Licensee to Supply on Request.

The following new sub-clauses 5.7, 5.8 and 5.9 shall be added as under:

5.7 - Supply Voltage to consumers

5.7.1 The Supply Voltage for different load/contract demand shall be as under:

Sr. No	Voltage	Category of Loads/Consumers
(i).	Single phase 230 V (between phase and neutral)	<ul style="list-style-type: none"> • load not exceeding 7 kW (including motive load not exceeding 2 BHP) under DS/NRS category • Industrial load including general load not exceeding 7 kW at consumer's option • AP load not exceeding 2 BHP • Street lighting load not exceeding 7 kW.
(ii)	Three phase 400V (between phases)	<ul style="list-style-type: none"> • Load exceeding 7 kW or motive load exceeding 2 BHP but not exceeding 100 kW under DS/NRS category • Industrial load including general load not exceeding 100 kW (other than covered under (i) above). • Bulk Supply load with contract demand upto 100 kVA. • AP load exceeding 2 BHP/AP high technology loads not exceeding 100 KW. • Street Light load exceeding 7 kW but not exceeding 100 kW. <p><i>Note: - Domestic consumers existing as on 1.8.2012 having load upto 10 kW shall have the option to have single phase supply or three phase supply in case their connected load after computing as per Reg. 5.9 worked out to be more than 7 kW.</i></p>
(iii)	Three phase 11 kV (between phases)	<ul style="list-style-type: none"> • Arc furnace loads having specified protection system for suppressing voltage surge and other Large Supply Consumers (General and Power Intensive Industry) with Contract Demand not exceeding 2500 kVA • DS/NRS loads exceeding 100 kW and BS loads of 100 kVA & above with Contract Demand not exceeding 4000 kVA • Single Point Supply loads to Co-operative group housing societies/employers with Contract Demand not exceeding 4000 kVA. • AP High Technology Supply with load exceeding 100 kW.
(iv)	Three phase 33/66 kV (between phases) as per availability of voltage at	<ul style="list-style-type: none"> • Arc furnace loads not exceeding 20 MVA (other than covered in (iii) above). • Large Supply Consumers with Contract Demand

	the nearest feeding S/Stn.	<ul style="list-style-type: none"> exceeding 2500 kVA but not exceeding 20 MVA DS/NRS/BS loads including Single Point Supply loads to cooperative group housing societies/employers with Contract Demand exceeding 4000 kVA but not exceeding 20 MVA
(v)	Three phase 66/132 kV (between phases) as per availability of voltage at the nearest feeding S/Stn.	<ul style="list-style-type: none"> Arc Furnace loads and other consumers with Contract demand exceeding 20 MVA but not exceeding 35 MVA (except Railway Traction).
(vi)	Three phase 132/220 kV (between phases) as per availability of voltage at the nearest feeding S/Stn.	<ul style="list-style-type: none"> Arc Furnace loads and other consumers with Contract demand exceeding 35 MVA (except Railway Traction).
(vii)	Single/two/three phase 132/220 kV (between phases) as per availability of voltage at the nearest feeding S/Stn.	<ul style="list-style-type: none"> Railway Traction Supply

5.7.2 The distribution licensee shall release all new connections or additional load/demand only at the specified voltage. In case of constraint(s) in releasing a new connection or additional load/demand at the prescribed voltage or in converting the supply voltage of an existing consumer, the supply may be given/continued to be given at a lower voltage subject to payment of surcharge as specified in the General Conditions of Tariff, as amended from time to time. However, the exemptions from levy of surcharge(s) shall continue as under:

- (a) LS consumers existing as on 31.3.2010 availing supply at 66 kV but required to convert their system so as to receive supply at 132/220 kV will not be levied any surcharge related to supply voltage, till such consumers request for enhancement of their Contract Demand.
- (b) DS/NRS/BS consumers existing as on 31.3.2010 & catered at a voltage lower than specified above will be liable to pay surcharge only in case of any enhancement in Contract Demand.

5.8 Classification of consumers.

Distribution Licensee may classify and re-classify consumers into various Tariff categories from time to time as may be approved by the Commission. No additional category other than approved by the Commission shall be created by the Distribution Licensee.

5.9 Connected Load

5.9.1 For the purpose of computing total connected load, the actual continuous rating of an apparatus/appliance connected to the wiring shall be taken into account. However, the following standard wattage ratings for a consumer of DS/NRS and general loads of other categories of consumers will be adopted for assessing the connected load, if actual rating is not specified by the consumer.

Category	Light point	Fan point	Wall socket	Power socket (Single phase)	Air Conditioner
DS/BS (DS purpose)	40 Watts (half to be counted)	60 watt (one third to be counted)	60 Watts (one fourth to be counted)	1000 watts (one fourth to be counted)	2500 watts (half to be counted)
NRS/ Industrial/ BS (NRS purposes)	40 Watts (all to be counted)	60 watts (all to be counted)	60 watts (one third to be counted)	1000 watts (half to be counted)	As per name plate (all to be counted)

Notes:

- a) 3 phase power sockets for NRS/Industrial purposes will be taken as 6 kW each and half of the no. of sockets will be counted.
- b) Any fraction of lamp / fan/socket/ AC will be counted as one.
- c) In case a single switch is used for controlling more than one lamp/appliance, the sum of the total capacity of all the lamps/appliances will be taken into account for computing connected load.
- d) The load of air conditioners/AC packages/centralized AC systems bearing ISI mark/star labeled shall be taken as per their nameplate. For non-standard air conditioners, the load of each shall be taken as 2.5 kW.
- e) The load of 3 phase power plug(s) used for equipment temporarily connected for the maintenance and operation of a green house under AP High Technology category shall be considered as 6 kW per power plug.

5.9.2 Where the installation of a consumer consists of a combination of two motors, with a changeover switch in between and one secondary equipment/gadget, the motor having the higher rating shall be taken into account for working out the total connected load provided such an arrangement has been sealed by an officer authorized by the distribution licensee.

5.9.3

- i) Where the rating of any energy consuming apparatus is indicated in kVA, its corresponding rating in kW shall be worked out by multiplying it with the power factor of 0.9.
- ii) In case of welding sets, kVA rating indicated on the name plate by standard manufacturers will be multiplied by a power factor of 0.4 for computing connected load.

In case of substandard makes, kVA rating of the welding set will be 75% of the product of open circuit voltage and maximum continuous hand welding current, and a power factor of 0.4 will be assumed for computing connected load in kW.

5.9.4 The connected load of UPS indicated in kVA will be converted into kW by multiplying with the power factor of 0.9. However, sockets installed on the output side of UPS will not be taken into account.

(5) Amendment to Regulation 10 - Standard Cost Data

The sub-clause 10.2 and 10.3 shall be substituted as under:

10.2 The Commission will thereafter approve the rates from time to time and shall notify the same in the official Gazette of the state. The Licensee will place the rates approved by the Commission on its website and also publish the same in leading newspapers of Hindi, English and Punjabi language within 3 days of its approval. The initial estimate for the cost of erecting/augmenting an electric line or electrical plant in order to extend supply will be based on these rates.

10.3 The rates approved by the Commission in the standard cost data under clause 10.2 above shall continue to be in force till these are amended or modified by the Commission either on the request of the licensee or suo-moto.

(6) Amendment to Regulation 21 – Use, etc. of Meters

The sub clause 21.2 (b) and 21.2 (c) shall be substituted as under:-

21.2 Supply and installation of meters

(b) Meters will be installed at the consumer's premises according to mutual convenience of the Licensee and the consumer. The meter safety shall be governed as per regulation 13 (2) of the CEA (Installation and Operation of Meters) Regulations, 2006, as amended from time to time.

(c) The Licensee may install a meter outside the premises of a consumer. The installation of meter outside the premises of consumer shall be governed by regulation 7 of CEA (Installation and Operation of Meters) Regulations, 2006 as amended from time to time.

In case meter is installed outside consumer premises, the safety of meter shall be governed by regulation 13 (3) of CEA (Installation and Operation of Meters) Regulations, 2006, as amended from time to time.

Provided that the entire cost of installing the meter outside the premises and providing a display unit within the premises shall be borne by the Licensee. However, the cost of display unit will be treated as part of the meter cost while determining meter rentals.

(7) Amendment to Regulation 36 – Unauthorized use of electricity

The sub clause 36.1 (c) shall be substituted as under:-

36.1 Procedure in a case of unauthorized use of electricity

(c) If on inspection of the premises/area and/or scrutiny of the records, the Assessing Officer comes to the conclusion that the person is indulging in unauthorized use of electricity as per section 126 of the Act, he will prepare an inspection report inter alia indicating connected load, condition of seals and meter and also giving details of evidence substantiating the unauthorized use. The Assessing Officer will wherever possible photograph/video graph the means of such unauthorized use.

(8) Amendment to Regulation 37 – Theft of Electricity

The sub clauses 37.2 (a) (i), (iii) and (v) shall be substituted as under:-

37.2 Consequences of theft of electricity

(a)(i) In case theft of electricity by a consumer/person is prima facie established as per Section 135 of the Act, then the supply to such premises will be immediately disconnected by an officer of the Licensee as authorized for the purpose by the

Commission or any other officer of the Licensee of the rank higher than the rank of an officer so authorized by the Commission. In such a case, an officer so authorized by the Commission shall lodge a complaint in writing, in this respect with the police station having jurisdiction of the area within twenty four hours from the time of such disconnection. The Authorized Officer will also immediately initiate action under Regulation 37.2 (b).

- (iii) In all cases falling under Regulation 37.2 (a) (ii), the Authorized Officer will, after giving the consumer/person an opportunity of being heard, determine within seven days whether or not there is sufficient evidence to conclude that a case of theft of electricity is prima facie established as per Section 135 of the Act.
- (v) In the event a suspected case of theft of electricity by tampering with meter/metering equipment or its seals or otherwise is prima facie established as per Section 135 of the Act, then further action will be immediately initiated in accordance with Regulation 37.2 (a) (i).

(9) Amendment to Annexure-2 - Overall Standards of Performance

The para 1(a) and 1 (b) of Annexure -2 shall be substituted as under:

1. Reliability Indices

- (a) The Licensee will compute and submit to the Commission the half yearly & yearly report as prescribed in clause 27 of the Supply Code. These include the System Average Interruption Frequency Index (SAIFI), System Average Interruption Duration Index (SAIDI) and Reliability Index (RI).
- (b) **Method of computing Distribution System Reliability Indices:**

The Licensee will segregate all 11 KV feeders in its supply area into urban, rural and agricultural tubewell categories. The latter category will comprise of all feeders where the agricultural load exceeds 80% of the total load on the feeder. The indices will then be calculated for each category of feeders, separately, as follows:

Sr No.	Name of feeder	No. of Interruptions on the feeder (Nos.) in consideration year	Duration of different interruption of previous column (in mins.)	Total interruption duration in the year (Mins.) (Addition of Column 4	Total number of consumers connected with the feeder	Total duration of consumer's interruption in a year.
1	2	3	4	5	6	7 = 5x6
1.	f_1	N_1	$D_{11} + D_{12} + \dots + D_{1n}$	D_1	C_1	$D_1 C_1$
2	f_2	N_2	$D_{21} + D_{22} + \dots + D_{2n}$	D_2	C_2	$D_2 C_2$
3						
n	f_n	N_n	$D_{n1} + D_{n2} + \dots + D_{nn}$	D_n	C_n	$D_n C_n$

RELIABILITY INDEX FOR FEEDER

$$\text{SAIFI} = \frac{\text{Total No. of interruption of feeder}}{\text{No. of feeders}} = \frac{N_1 + N_2 + N_3 + \dots + N_n}{n}$$

$$\text{SAIDI} = \frac{\text{Total Duration of outages of feeder}}{\text{No. of feeders}} = \frac{D_1 + D_2 + D_3 + \dots + D_n}{n}$$

$$\text{Reliability Index for feeders (Yearly)} = 1 - \frac{\text{SAIDI for Feeder}}{(24 \times 365 \times 60)} \times 100$$

RELIABILITY INDEX FOR CONSUMER

$$\text{SAIDI} = \frac{\text{Total Duration of consumers interruption}}{\text{Total No. of Consumers}} = \frac{D_1 C_1 + D_2 C_2 + \dots + D_n C_n}{C_1 + C_2 + \dots + C_n}$$

$$\text{Reliability Index for consumers (Yearly)} = 1 - \frac{\text{SAIDI for Consumers}}{(24 \times 365 \times 60)} \times 100$$

- (c) The Licensee will separately report the monthly value of these indices for all categories of feeders for each half year.
- (d) The Commission will annually notify the targeted levels of these indices to be achieved by the Licensee.
- (e) In the event the Licensee persistently fails to improve its performance, the Commission may take action against the Licensee under Section 24 of the Act.

By Order of the Commission,

(P P GARG)
Secretary to the Commission.