

CENTRAL ELECTRICITY AUTHORITY
Grid Management Division

DRAFT AMENDMENT

TO

CEA (TECHNICAL STANDARDS FOR CONNECTIVITY OF THE DISTRIBUTED
GENERATION RESOURCES) REGULATIONS, 2013

1. Short title and commencement – (1) These Regulations shall be renamed as Central Electricity Authority (Technical Standards for Connectivity below 33 kV) (First amendment) Regulations, 2018

(2) These regulations shall come into force on the date of their publication in the Official Gazette.
2. Amendment in Regulation 2: Following definitions shall be substituted as under:

(b) “Applicant” means a generating company, charging station, prosumer or a person seeking connectivity to the electricity system at voltage level below 33 kV.

(n) “User” means a charging station, prosumer or a person who is connected to the electricity system or a generating company whose distributed generation resource is connected to the electricity system.

Following definitions shall be inserted at the end in regulation 2.

(o) Charging Station

“Charging Station” is a facility for recharging of electric vehicles, but it does not include such facility for own use.

(p) Prosumer

“Prosumer” is a person who consumes electricity from the grid and can also inject electricity into the grid, using same network.

3. Amendment in Regulation 3 : Regulation 3 of the Principal Regulations shall be substituted as under:

3.Applicability of the Regulations - These regulations shall be applicable to all the generating companies or persons owning distributed generation resources, charging stations, prosumers or persons who are connected to or seeking connectivity with, the electricity system below 33 kV voltage level.

Provided that in case, a licensee owning the electricity system to which connection is to be made also owns the distributed generation resources, charging station and prosumers these regulations shall be applicable mutatis mutandis.

4. Amendment in Regulation 11: The following regulation shall be inserted after Regulation 11 of the Principal Regulations.

11(a) Standards for charging station, prosumer or a person connected or seeking connectivity to the electricity system:

1. *Applicant shall provide a reliable protection system to detect various faults/ abnormal conditions and provide an appropriate means to isolate the faulty equipment or system automatically. The applicant shall also ensure that fault of his equipment or system does not affect the grid adversely.*
2. *The licensee shall carry out adequacy and stability study of the network before permitting connection with its electricity system.*
3. *Power Quality standards*
 - i. *The limits of injection of current harmonics at Point of Common Coupling (PCC) by the user, method of harmonic measurement and other matters, shall be in accordance with the IEEE 519-2014 standards, as amended from time to time.*
 - ii. *Prosumer shall not inject direct current greater than 0.5% of rated output at interconnection point.*
 - iii. *The applicant seeking connectivity at 11 kV or above shall install Power Quality meters and share data as and when required by the licensee. Users connected at 11 kV or above shall comply with this provision within 12 months of notification of these regulations.*
 - iv. *In addition to harmonics, the limits and measurement of other power quality parameters like voltage sag, swell, flicker, disruptions, etc. shall be as per relevant BIS standards or as per IEC/IEEE standards if BIS standards are not available.*

5. Following Regulation shall be added after Regulation 13 of the Principal Regulation.

(14) Registration in the Registry maintained by CEA:

- i. *The applicant shall get its generating unit(s) of 500 kW capacity and above, or transmission system or distribution system, as the case may be, registered and get a Unique Registration Number, generated online, from e-Registration facility at the portal of Central Electricity Authority when such scheme is made available.*
- ii. *No applicant shall be granted connectivity with the grid without the unique registration number subsequent to implementation of registration scheme.*

- iii. *The users shall comply with this provision within a period, to be specified by the Authority separately, of implementation of registration scheme.*