

GOVERNMENT OF KARNATAKA
(Electrical Inspectorate)

NO: CEIG/TEC/ 18325/2018-19

Office of the
Chief Electrical Inspector to Govt.,
Nirmana Bhavan, 2nd floor,
PB No. 5148, Dr. Rajkumar Road,
Rajajinagar, Bangalore-10

Dated: 09/08/18

To,
The Managing Director,
BESCOM, Corporate Office,
KR Circle, Bengaluru-560001

Sir,

Sub: Suggestions to install & commission Electric Vehicle Charging Stations-Reg

Ref: Lr. No. BESCOM/BC-1/TA2MD/2018-19/279 Dt. 09-05-2018

Adverting to your letter under reference above, this is to bring to your kind information that all the Electric Vehicle Charging Stations (EVCS) needs to be incorporated with suitable protection and monitoring devices for safe and reliable operation of EVCS. The revised electrical schematic diagram is enclosed for your kind reference and the following shall be observed while setting up of EVCS.

All EV Charging Stations must:

- i) be supplied from a dedicated final sub circuit.
- ii) be supplied from a sub-circuit protected by a voltage independent RCD providing personal protection that is compatible with a charging supply for an electric vehicle.
- iii) provide an earth continuity monitoring system that disconnects the supply in the event that the earthing connection to the vehicle under charging becomes ineffective. This monitoring system must fail to safety.
- iv) provide protection against the overload of the charging supply fittings.
- v) provide protection against the overload of the incoming supply fittings.
- vi) be installed so that any socket-outlet of supply is at least 800mm above the finished ground level.
- vii) use the armoured type cable from EVCS to Electric Vehicle and maximum length shall be restricted to 5mtrs.

The Electric Vehicle Charging Stations shall be under the in charge of an operator holding a competency certificate and who is well versed with the safety norms and modalities of the EVCS. Any person installing an EVCS shall keep the records to an extent that the EVCS installation have been carried out and maintained in accordance with safety norms as per the relevant CEA Regulation & manufacturer's installation and maintenance instructions.

Further, the Central Electricity Authority has drafted safety provisions for EVCS vide Schedule XVII of the CEA (Technical Standards for Connectivity of Distributed Generation Sources) Regulations, 2013 to be followed by the EV charging stations for ensuring safe installation operation and maintenance of EVCS. The same is herewith enclosed for your perusal. Any person setting up the EVCS shall be strictly adhering to these provisions while setting up & operating the EVCS.

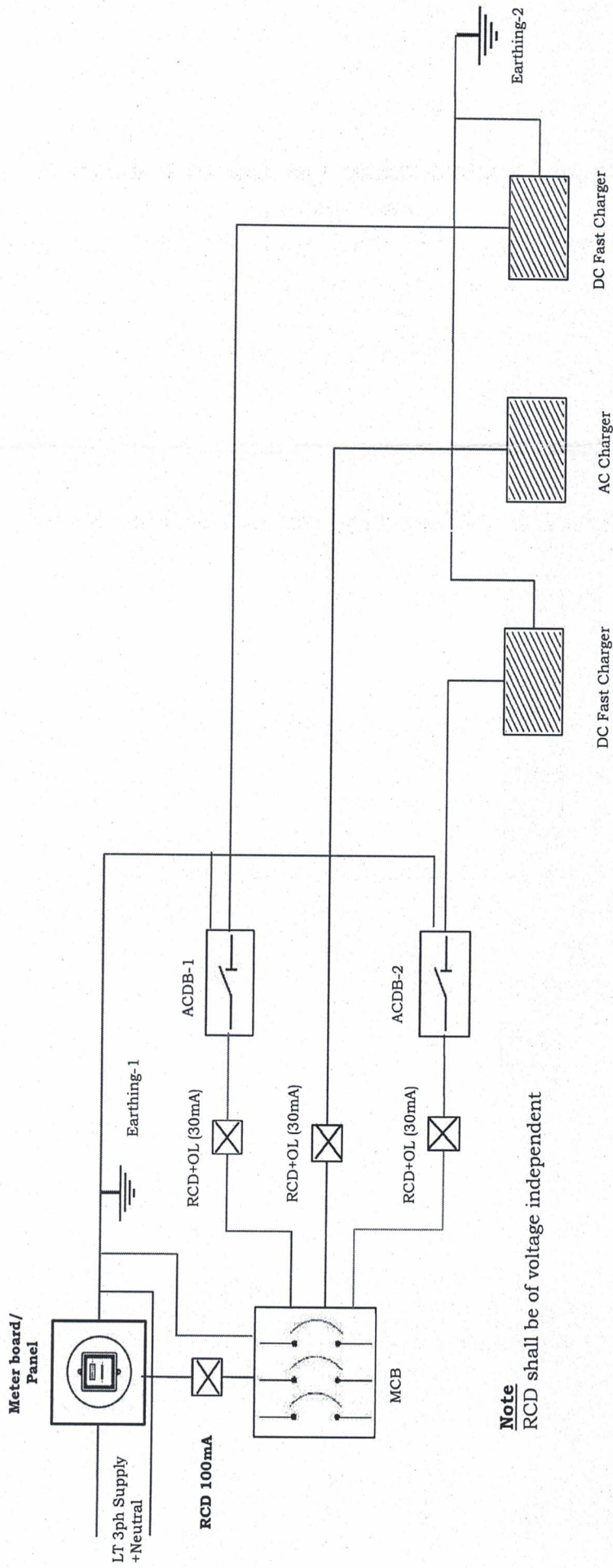
As per the Government Notification No: EN 99 EBS 2016 (I) Bengaluru Dated: 03-09-2016 the notified voltage is 650V and the installation with voltage class above the notified voltage comes under the purview of this department. Hence, if the Central Electricity Authority mandates/ Government Notifies EVCS installation to be inspected by Electrical Inspectorate, then accordingly fees for obtaining statutory approval for setting up of Electric Vehicle Charging Stations will be intimated on receipt of applications seeking approval of respective EVCS.

Enclosure: Sketch and CEA Draft Regulations (3 Sheets)

Yours Faithfully,



CHIEF ELECTRICAL INSPECTOR TO GOVT.



Note
RCD shall be of voltage independent