

CE/Testing/HT Cubicle Earthing/ Circular/ 1761

Date: 16-01-2020

CIRCULAR

Sub: Earthing of HT Metering Cubicle.

As per present metering policy adopted vide Comm Cir. 291 dated 29/06/2017 the guidelines were issued regarding Metering in r/o HT/EHV consumers. As per the circular, the number of earth pits was revised to Seven numbers from existing Nine as under- CTs, PTs Bodies(1 nos each) & their secondaries (1 nos each), HV Cables incoming and outgoing (1 no each) and cubicle earthing. Further, it was mentioned to use Copper earthing for metering cubicles.

However, this office is in receipt of requests from consumer/Contractor Associations for allowing GI strip earthing for Metering Cubicles.

In view of above it is to inform that the competent authority has accorded approval in this matter, accordingly the revised guidelines are hereby issued regarding earthing in r/o HT consumers metering cubicles; the same shall be followed scrupulously henceforth.

Earthing Arrangement for HT Metering Cubicle:-

1. Total 05 nos of earth pits for HT metering cubicle at consumer premises shall be provided as under-

- HT Metering Cubicle Body + CT Body + PT Body= 02 earth pit
- CT secondary star point =01 earth pit
- PT secondary star point =01 earth pit
- Incoming Cable + Outgoing Cable =01 earth pit

2. Earthing Electrode & Earthing Conductor:-

Either Copper strip of size 25 x3 mm or equivalent GI strip of size 40 x 6 mm shall be used, as follows:

- GI strip shall be used with CI pipe or CI plate electrode only
- Cu strip shall be used with Copper plate electrode only
- No bimetal joints are allowed to earth electrodes.
- Earthing process shall be as per IS 3043 amended from time to time.
- Consumers shall not be compelled to use only copper strip; use of GI strips shall also be permitted as per consumer request.
- As per IS 3043, all earth connections shall be Visible for inspection and not be concealed in foundation and should have tap arrangement for watering the earth pits.
- Total 05 nos of earth pits shall be meshed/ interconnected at bottom of each earth pit to get effective low earth resistance.
- All other conditions shall be applicable as per relevant standard i.e. IS 3043.

All other conditions of Commercial Circular 291 dated 29/06/2017, Testing Circular no. 8378 dated 16/04/2018 shall remain applicable.

This circular shall come in force with effect from the date of issuance. This circular is available on MSEDCL website i.e. www.mahadiscom.in. So hard copy of the same shall not be issued.


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