

No. MMC/NSC/CT Emb. Meter/347

Date: 04/01/2019

To,
The Chief Engineers (O & M),
All Zones,
MSEDCL

CIRCULAR

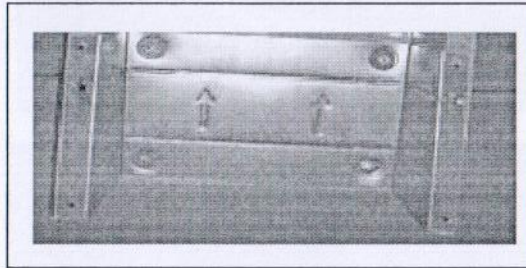
Sub: Installation procedures & sealing arrangements for 40-200 Amp CT Embedded meters for LT consumers above 20 KW connected load.

For consumers above 20 KW connected load the new service connections or replacement of non AMR/faulty meters is to be carried out by using only 40-200 Amp CT Embedded meters. However it is observed that proper procedures for installation & sealing arrangement of meters is not being followed at field level resulting into billing complaints.

In view of above to avoid billing complaints and revenue loss while installation of these meters procedures defined as below are to be strictly followed.

1) Meter Clamp: -

Fix the meter clamp on the appropriate space at wall using anchor fasteners. Ensure the fasteners are anchored in wall with adequate depth.



2) Cable Preparation:-

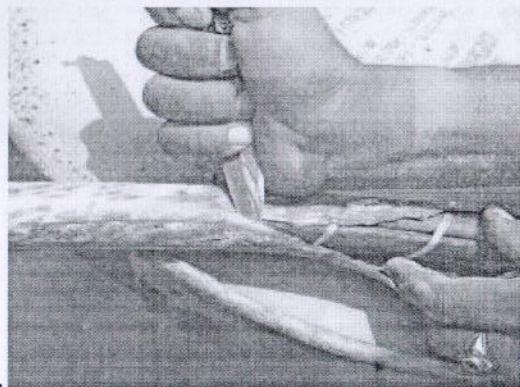
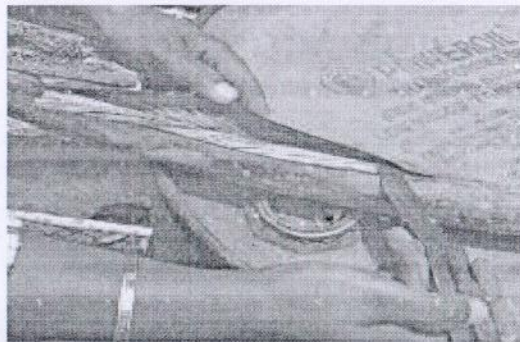
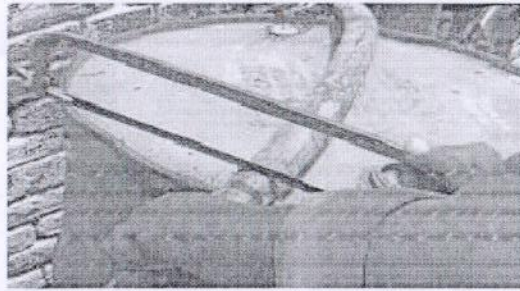
If the existing cable is sufficient & usable then it is to be used otherwise the cable will have to be re-used with new cable (maximum 15 meters/consumer) along with jointing kit adhering to the following steps:-

- Measure the cable length to be prepared.
- At the required length provide a cut to outer insulation of cable with knife for marking.
- Peel off the insulation with knife.
- Trim the individual armor strands with cutting pliers.
- Cut & peel off the outer belt insulation beneath the steel armor with knife.

(f) Flare up the individual cores.

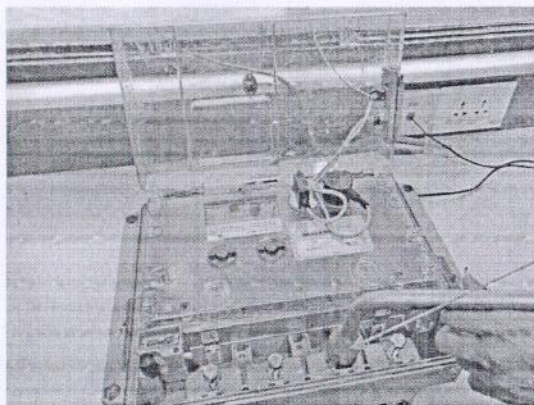
(g) Mark the required length of insulation to be peeled off in individual cores.

(h) Peel off individual insulations of required length to expose the cable cores



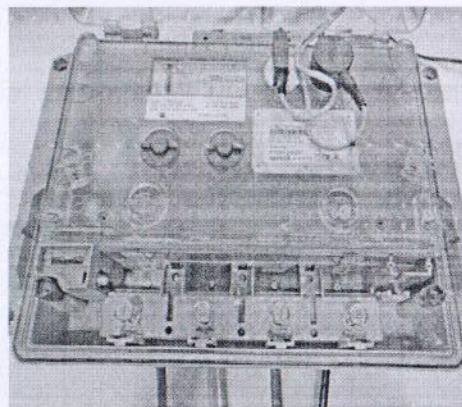
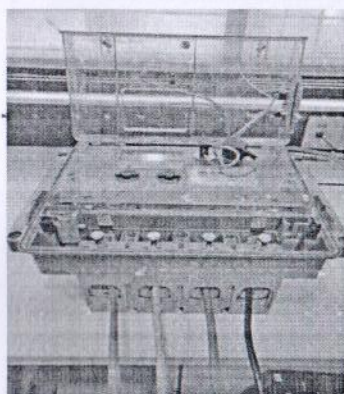
3) Cable Routing:

- a) Insert the phase wise incoming gland assembly supplied with meter on the individual incoming cable cores.
- b) Loosen the cable tightening nuts before passing the cable through meter.
- c) In case of Genus & HPL make meters also loosen the phase - wise potential screws. (R, Y, B & N).

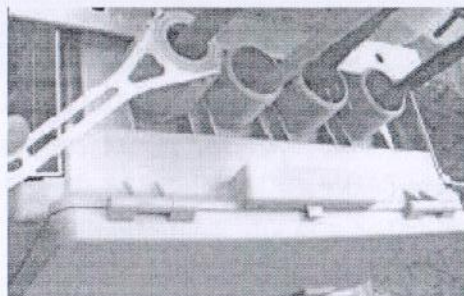


Nuts to be loosened before passing the cable through meter.

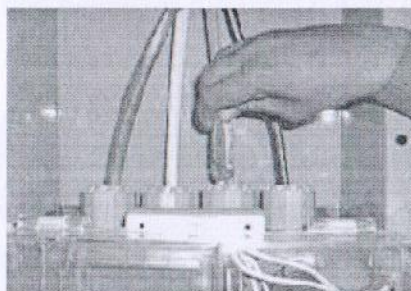
- d) Pass the individual cable cores from Top to Bottom through the dedicated orifices in meters with the shown sequence (the sequence is RYB & N from left to right respectively).
- e) Fix the meter with the passed cable cores on already mounted clamp.



- f) Tighten the incoming gland assembly (This is unidirectional in case of Secure make of meters & cannot be undone once fixed).

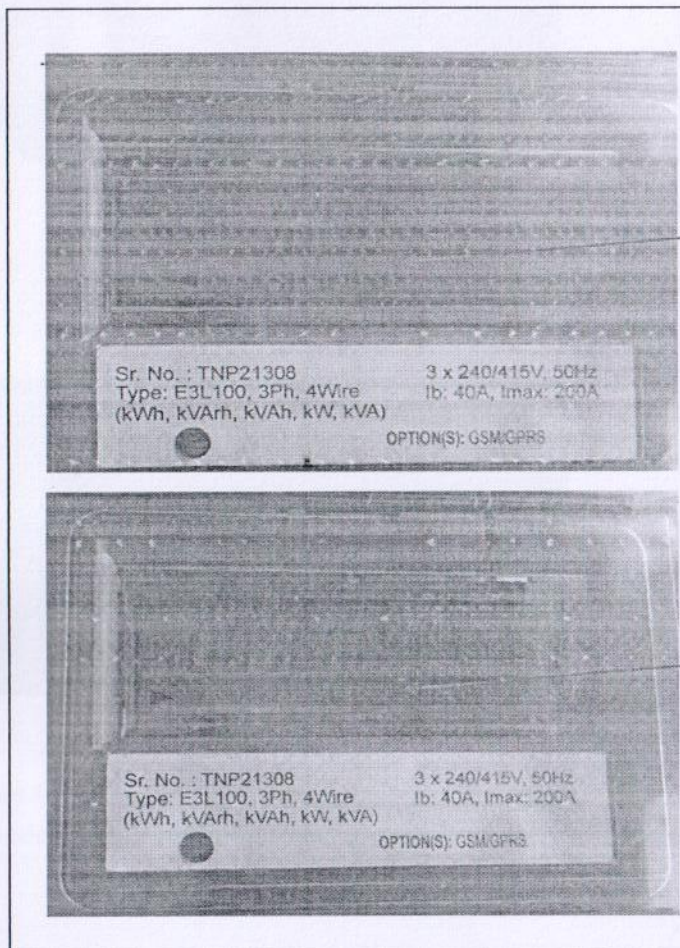


- g) After tightening the gland nuts firmly, fill in the RTV Silicone filling compound (optional) in the empty space of gland to the fullest with each meter.



- h) Tighten the phase-wise potential nuts for all the four cables in the meter using torque wrench so that the screw in the CTs pierces into the cable.

- i) Also tighten the potential screws which were loosened earlier in case of Genus & HPL make of meters so that the screw in the CTs pierces into the cable.
- j) Check using a multi meter whether connections for potential to meter has been achieved or not. The continuity is to be ensured between potential screw & the corresponding cable core. This can also be cross verified visually with blinking of voltage icons (1), (2) & (3) on LCD display as shown below.



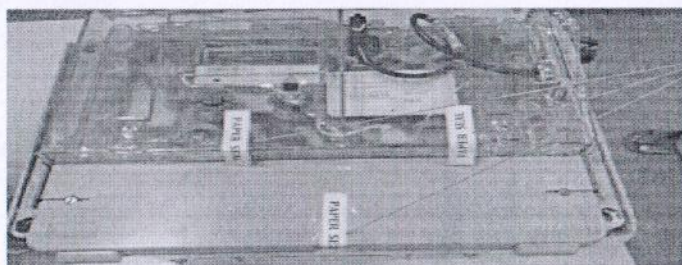
All three phases [1], [2] and [3] are visible on LCD & hence connection is healthy.

Y connection is missing, hence [2] is not visible on the LCD.

- k) After installation of meter, insert the SIM card for AMR in the slot provided for configuration and reading directly to MSEDCL MDAS system.
 - l) Put the clamps on the individual phase above & below the meter to avoid any mischief by the miscreants.
- 4) Sealing arrangement

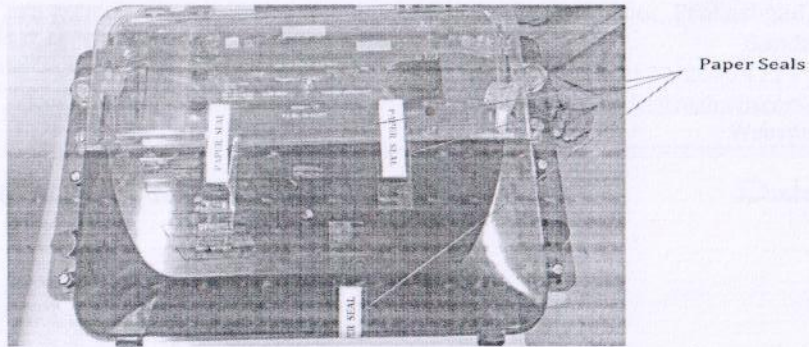
Place the terminal cover on meter and put paper seals to seal the meters at installation site in the manner specified below for different makes of meter.

Sealing arrangements for M/s Secure make meters.

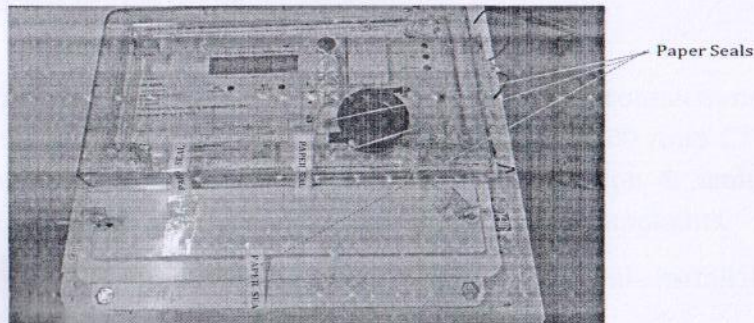


Paper Seals

Sealing arrangements for M/s Genus make meter



Sealing arrangements for M/s HPL make meters



The above procedures to be followed scrupulously for installation & sealing arrangements for 40-200 Amp CT Embedded meters for LT consumers above 20 KW connected load.


Chief Engineer (MM Cell)

Copy s.w.rs. to:

1. Director (Operations) / (Projects) / (Finance) / (Commercial), MSEDCL, Mumbai.
2. Executive Director (Dist.-I) / (Dist.-II) / (Dist.-III) / (Dist.-IV) / (IT&BR), MSEDCL, Mumbai.
3. Jt. Managing Director, MSEDCL, Aurangabad Region.
4. Regional Director, MSEDCL, Kalyan (Konkan) / Pune / Nagpur.

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Chief Engineer (Commercial) / (Dist. /Testing) / (Infra) / (IPDS), MSEDCL, Mumbai.

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1. OSD to Chairman & Managing Director, MSEDCL, Mumbai.
2. Superintending Engineer (TQA), MSEDCL, Pune / Nagpur / Kalyan/Aurangabad.
3. Superintending Engineer (O&M), MSEDCL, All zones.