



(A Govt. of Maharashtra Undertaking)

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CE (Dist.)/D-III/NHAI/T-87/

No 2 4 7 2 4

Date:

19 OCT 2018

To,
The Chief Engineers,
MSEDCL
All O&M Zones.

Sub : Additional guidelines for preparation of estimates for shifting of existing distribution electrical infrastructure due to road widening, construction of bridges etc, by National Highway Authority of India (NHAI), Public Water Department (PWD), Local Bodies, etc.

Ref: T.O. Circular No. CE (Dist)/D-III/23799 Dated 28.09.2017.

In the works involving shifting of electric utilities owned by MSEDCL, the following technical inputs shall be considered in addition to guidelines given vide this office circular under ref.(1) while according administrative approval & technical sanction, framing the detailed technical estimate as per standard methods of construction in MSEDCL.

- a) The overhead (O.H) & underground (U.G) line structures infringing the Right of Way (RoW) after proposed Road widening will be only considered for shifting. There should not be any additional infrastructure work considered in the scope for sanction, linking the proposed shifting work with any other proposed/ ongoing project activity like O.H to U.G conversion/ National Cyclone Project/etc.
- b) As far as possible, the overhead line (O.H) crossing structures found within the proposed Right of Way (RoW) for Road widening shall only be proposed for shifting. The structures outside the RoW & not infringing the Road widening work shall not be proposed for shifting unless technically it is necessary.
- c) All road crossings of electric lines should be done by underground cables only. Conversion of overhead to underground shall be proposed only if technically it is required and is necessary from safety point of view. While proposing this, proper reasons shall be mentioned.

- d) The size of U.G cables to be used for conversion of O.H system to U.G shall be strictly conform to Distribution Circular No-23799 Dated 28.09.17 i.e 300 sq. mm. cable instead of 400 sq. mm. for lines and 95 sq. mm. for DTC.
- e) The realignment of overhead (O.H) line & underground (U.G) lines should be done if sufficient space / RoW is not available for overhead (O.H)/ underground (U.G) electric utilities at existing crossing locations.
- f) The length of cable loop at crossing locations should be 5 meter as per standard practice. The length of cable required at crossings locations must be realistically assessed as per site requirement conforming to standard practice.
- g) The laying of two cables (double run arrangement) alongside at one side of road generally be avoided & cables should be laid on either side of road if technically feasible, feeding power to distribution transformers through R.M.U, connected at the tail end in loop for N+1 Ring Mains Configuration . This practice will ensure reliability in power supply in case if one cable fails.
- h) The stage inspection of material should be carried out by MSEDCL representative prior to work execution to ensure use of good quality material conforming to MSEDCL specification & IS standards.
- i) While framing the estimates for the cost of items not available in MSEDCL cost data it must be ensured that the cost of concerned material/ service is considered without any overheads & taxation like GST i.e Ex-Works price. Thereafter, MSEDCL centages must be considered on the cost of materials arrived. This to be borne in mind while referring the BoQ/ cost of activity in other authorities like PWD/ railways/ etc which are composite costs in nature.
- j) The Board vide BR no. 491 dtd. 11.03.2005 has decided to permit Govt. agencies, Semi Govt., Municipal Corporations and Local Bodies to retain the old material after replacement of HT/LT lines, poles etc. The guidelines regarding the same was circulated vide circular no. Dist./III/Shifting/10367 dtd. 05.04.2005. The same guidelines to be followed in this case.
- k) Horizontal Directional Drilling (H:D:D) shall be proposed only for road crossing locations & the rates for the H.D.D shall conform to Circular No. CE/Infra/DDUGJY/ Rate of Horizontal Bore/2617 Dated 05.02.2018 i.e Rs 3450 per meter & as amended from time-to-time.

Sr No.	Particulars	Unit	Quantity	Rate (Rs)
1	Providing H.D.D Bore (Size 150 mm Dia) for laying underground cable.	Meter	1	2400.00
2	Providing HDPE/ GI pipe	Meter	1	1050.00
Total				3450.00

It is requested to circulate the above guidelines to all staff under your jurisdiction & ensure subsequent framing & sanction of estimates as per guidelines in conformity to various instructions/ Rules/ Standards for Electrical Safety & construction.

This is for your kind information & necessary action.


Chief Engineer (Distribution)

Copy s.w.rs.to :

1. The Director (Operations), MSEDCL, Corporate Office, Prakashgad, Mumbai.
2. The Director (Projects), MSEDCL, Corporate Office, Prakashgad, Mumbai.
3. The Joint Managing Director , MSEDCL Region Auranagbad.
4. The Executive Director (Dist-II), MSEDCL, Corporate Office, Prakashgad, Mumbai.
5. The Regional Director , MSEDCL Region , Konkan / Pune / Nagpur.
6. The Regional Officer, Office of the Chief Engineer, Govt. Of India, Ministry of Road, Tansport and Highways, Room no. 508 & 589, Konkan Bhavan, 5th Floor, Sector 6, CBD Belapur, Navi Mumbai – 400 614.

Copy to:

1. All Superintending Engineer, MSEDCL, All O&M Circles.
2. OSD to Hon'ble CMD, MSEDCL, Prakashgad, Mumbai.