

## **Common deficiencies observed in construction work of EHV Lines**

During recent inspection of EHV Line works for quality control, following are the common deficiencies observed by the Quality Control Wing of RVPN :

1. Stubs in contact with soil due to low level of concrete.
2. Wooden pieces are left in concrete.
3. Steel Rods of the RCC tower foundation are left exposed.
4. Poor quality of concrete, mainly due to insufficient curing of concrete.
5. Poor quality of Coping work.
6. Poor quality of Earthing of towers.
7. Use of over sized/under sized bolts, particularly in stub-leg joint.
8. Bolts are left loose and tac welded in same condition.
9. Missing bolts, particularly in stub-leg, leg-leg joints & the centre bolt of CHAUKHATA.
10. Even after completion of curing of concrete, stubs are left buried in soil.
11. Even with many shortages in towers, stringing is done. Use of poorly fabricated members in tower erection. Un-matched holes in tower members are widened through welding at site.
12. Use of tower foundations for holding rough sag of conductor which may cause permanent damage to the tower foundations.
13. Stringing of Earth Wire done without using rollers.
14. RVPN Field Engineers do not study seriously, " The Construction Manual for Transmission Lines ", circulated in 2007 by RVPN.

**The above deficiencies are to be checked regularly by all field officers.**

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