

## Underground Earthing &amp; Electrode

Annexure-II

Project 400kV ENNORE GIS S/S  
Customer : TANGEDCO

Rev 00

| S.No                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Unit | Qty. | Rate | Amount |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|--------|
| <b>MAIN EQUIPMENT</b>     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |      |      |        |
| 1                         | Unloading, storing and laying of 40 mm dia MS Rods at a depth of 600 mm measured from the top of <b>Finished Ground Level</b> and bringing out risers just below gravel level near the equipment foundations as per requirement including following works:<br>- excavation of trenches<br>- laying of MS rod<br>- welding of rods (refer Drg No. TB-STD-316-Rod Welding Rev 00 for Welding details of rods)<br>- backfilling of soil for bringing out pig tail risers of 40 dia MS rod for equipments. Risers shall be raised from the earthmat (at 600 mm depth) to 150 mm above ground level to the nearest point of the equipment. This shall include all cutting, bending, welding, fixing, application of zinc rich paint on cutting surface, etc to the main earthmesh.<br>- any other work necessary to complete the laying of earthmat (40 mm dia MS rod will be supplied by BHEL). | MT   | 100  |      |        |
| 2                         | Fabrication & laying of Auxiliary Mat of 40 mm Dia MS Rods at a depth of 300 mm from top of FGL including excavation & backfilling as per Drg No. TB-STD-316-Auxiliary mat Rev 00.<br>- any other work necessary to complete the laying of earthmat (40 Diameter MS rod will be supplied by BHEL)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Nos. | 1    |      |        |
| 3                         | Installation of Pipe Electrode(to be driven - 3.0 Mtr) as per Drg. No. TB-STD-316-Pipe Electrode Rev 00 including following works:<br>- excavation<br>- installing the pipe electrode with alternate layers of Coke/charcoal and salt<br>- backfilling and compaction<br>- Casting the Test Pit with Cast Iron covers<br>- any other work necessary to complete the work (GI Pipe, Nuts, Bolts & Washers and funnel with wire mesh will be supplied by BHEL).                                                                                                                                                                                                                                                                                                                                                                                                                               | nos. | 6    |      |        |
| 4                         | Installing of 40 mm diameter Rod Electrode with/without test link as per Drg. No. <b>TB-STD-316-Rod Electrode Rev 00</b> including following works:<br>- excavation<br>- installing the rod electrode<br>- backfilling and compaction<br>- Casting the Test Pit with Cast Iron covers<br>any other work necessary to complete the work (40 mm dia MS rod will be supplied by BHEL).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Nos. | 45   |      |        |
| <b>Total Amount (Rs.)</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |      |      |        |

**Remark: The quantity may vary upto any extent.**