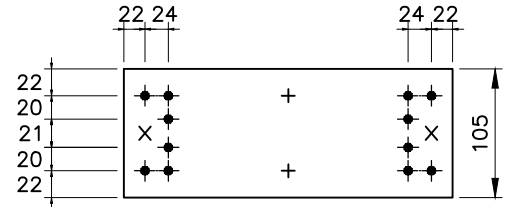
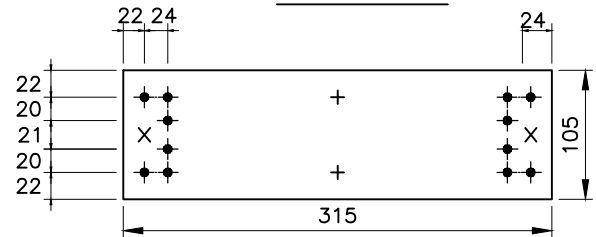


PLAN AT TOP



PLAN AT A-A



PLAN AT BOTTOM



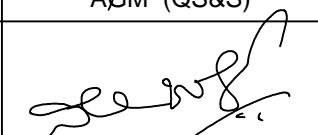
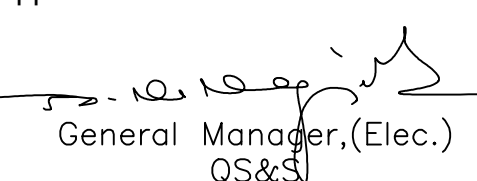
- DENOTES TENSIONED WIRES
- X DENOTES UNTENSIONED WIRES
- + POSSIBLE POSITION OF EARTH WIRE

TECHNICAL GUARANTEE PARTICULARS:

| | |
|--|--------------------------|
| SECTION | |
| CONCRETE QUANTITY PER POLE | 0.203 Cu.M |
| CONCRETE GRADE | M-40 |
| STEEL QUANTITY PER POLE | 12.39 Kg. |
| OVERALL LENGTH SUPPORT | 9.0 Mtr |
| PLANTING DEPTH | 1.7 Mtr |
| DIAMETER OF PRESTRESSING WIRE | 4mm |
| NUMBER OF TENSIONED WIRES | 12 NOS |
| NUMBER OF UNTENSIONED WIRES | 2 NOS |
| PRE-TENSIONED APPLIED TO EACH 4mm WIRE | 1760 Kgs |
| MINIMUM CUBE STRENGTH OF CONCRETE AT 28 DAYS | 420 Kg/Cm ³ |
| CLEAR COVER WIRES | 20mm |
| FACTOR OF SAFETY | 2.5 |
| WORKING LOAD | 200 Kgs |
| ULTIMATE LOAD | 500 Kgs |
| WEIGHT OF POLE | 480 Kgs. |
| LOAD APPLICATION AT A POINT FROM THE TOP | 600 mm |
| ULTIMATE TENSION STRENGTH FOR 4mm WIRE | 17500 Kg/Cm ² |

NOTES:-

- FOR HOLDING PART LENGTH UNTENSIONED WIRES IN POSITION, 4mm ϕ M.S STIRRUPS MAY BE USED WITH SUITABLE SPACING.
- IF ANY PRACTICAL DIFFICULTY IS EXPERIENCED IN USING PART LENGTH UNTENSIONED WIRES, FULL LENGTH WIRES MAY BE USED INSTEAD. BUT THE TENSION IN THESE WIRES SHOULD NOT EXCEED 9% OF THEIR U.T.S VALUE HOWEVER IT MAY BE NOTED THAT USE OF PART LENGTH UNTENSIONED WIRES WILL BE MORE ECONOMICAL.
- FOR MORE DETAIL REFER I.S.1678.

| | | | |
|-----|---|---|---|
| | Signatures | All dimensions are in mm unless otherwise stated. |  BESCOM |
| Chd |  AGM (QS&S) | REINFORCEMENT DETAILS OF 9.0 M 200 Kg. PRESTRESSED CEMENT CONCRETE POLE FACTOR OF SAFETY=2.5 (P.S.C.C) | |
| Sub |  DGM (QS&S) | |  General Manager, (Elec.) QS&S |
| | SCALE: N.T.S | | DRG.NO.BESCOM/GM/QS&S/50 REV-003 DATED:23-12-2019 |