



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

TECHNICAL GUARANTEE PARTICULARS:

SECTION	
CONCRETE QUANTITY PER POLE	0.157 Cu.M
CONCRETE GRADE	M-40
STEEL QUANTITY PER POLE	11.02 Kg.
OVERALL LENGTH SUPPORT	8.0 Mtr
PLANTING DEPTH	1.5 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	340 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.
- THE ALTERNATIVE OF USING FULL LENGTH WIRES INSTEAD OF PART LENGTH UNTENSIONED WIRES IS NOT FEASIBLE IF THE POLE IS TO BE USED FOR LT LINES WITH VERTICAL CONFIGURATION. THIS IS BECAUSE OF NON-AVAILABILITY OF SUFFICIENT CLEARANCE BETWEEN THE EXTENDED FULL LENGTH WIRES AND THE ROLES TO BE PROVIDED IN THE POLE FOR FIXING THE SHACKLE INSULATORS.
- FOR MORE DETAIL REFER I.S.1678.

	Signatures	All dimensions are in mm unless otherwise stated.	ಬೆಂಗಳೂರು BESCOM
Chd	 AGM (QS&S)	REINFORCEMENT DETAILS OF 8.0 M 200 Kg. PRESTRESSED CEMENT CONCRETE POLE FACTOR OF SAFETY=2.5 (P.S.C.C)	Approved: General Manager, (Elec.) QS&S
Sub	 DGM (QS&S)		DRG.NO.BESCOM/GM/QS&S/49 REV-003 DATED:23-12-2019
	SCALE: N.T.S		