



BUS HEIGHT FROM PL	8070
EQUIPMENT HEIGHT UP TO C.L. OF BUS	3200
HENCE, SUPPORTING STRUCTURE HEIGHT	4870
EQUIPMENT MAKE	MEHRU ELECTRICAL & MECHANICAL ENGINEERS PRIVATE LIMITED
EQUIPMENT DRG No.	220-GA-5623-01-R1

BILL OF QUANTITY:-

Piece mark	Size/description	Quantity (nos.)	Length mm	Unit wt. kg/m or kg/m ²	Weight per piece kg	Total Weight kg
1	300 NB PIPE	1	4838	49.3	238.51	238.51
2	16 thk. Plate	1	700 x 700	125.6	61.54	61.54
3	8 thk. Plate	8	150 x 209	62.8	1.97	15.75
4	L 75x75x6	6	100	6.8	0.68	4.08
4A	L 75x75x6	2	100	6.8	0.68	1.36
5	16 thk. Plate	1	500 x 500	125.6	31.40	31.40
6	8 thk. Plate	6	109 x 200	62.8	1.37	8.21
7	8 thk. Plate	2	109 x 200	62.8	1.37	2.74
8	6 thk. Plate	2	115 x 200	47.1	1.08	2.17
9	L 50x50x5	2	1150	3.8	4.37	8.74
Sub total						374.51

HARDWARES:-

Hardware name	Unit wt.	Quantity (nos.)	Total wt. (kg)
M12 dia x 40 LG (for earth flat fixing)	0.066	10 + 1	0.726
M16 dia x 45 LG	0.133	10 + 0	1.330
M12 dia x 2.5thk sp.washer	0.006	10 + 1	0.066
M16 dia x 3.5 thk sp. washer	0.009	4 + 0	0.036
Total			2.158

FOUNDATION BOLT DETAILS:-

Hardware name - M28X925MM LG	Unit wt.(kg)	Quantity (nos.)	Total wt. (kg)
M S Round bolt	4.480	1	4.480
Standard nut	0.098	2	0.196
Lock nut	0.095	1	0.095
Washer	0.230	1	0.230
Anchor plate	0.30	1	0.300
Total weight (1 NO)			5.30
Total weight (4 NOS)			21.204

Summary of weights:-

Weight of Structure:	374.51 kg
Weight of Hardwares:	2.16 kg
Weight of Foundation bolts:	21.20 kg
Total Weight:	397.87 kg

NOTES:-

- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
- THE STRUCTURAL PIPE SHALL CONFIRM TO IS: 1161-1998 (YST = 210N/mm²)
- ALL WELDS ARE 6MM FILLET CONTINUOUS WELD UNLESS OTHERWISE SPECIFIED.
- WELDING SHALL BE DONE AS PER IS : 816 (LATEST REVISION) OR ELECTRIC WELD.
- ALL FABRICATION MATERIALS INCLUDING BOLTS, NUTS AND WASHERS SHALL BE GALVANISED AS PER SPECIFICATION. MIN. COATING THICKNESS SHALL BE 610 g/m² FOR PIPE STRUCTURES AND 300 g/m² FOR FASTENERS SPRING WASHER SHALL BE ELECTRO GALVANISED AS PER IS:1573-1986 SERVICE GRADE 2.
- ALL BOLTS NUTS AND LOCK NUTS SHALL CONFORM TO REQUIREMENTS OF INDIAN STANDARD SPECIFICATION IS : 1363/1367 (LATEST REVISION)
- ALL BOLT HOLES ARE 17.5Ø FOR M16 BOLTS UNLESS NOTED OTHERWISE.

THE FABRICATION DRAWING IS ONLY TYPICAL & THE HEIGHT/MOUNTING & OTHER DETAILS SHALL BE MATCHED AS PER REQUIREMENT OF EQUIPMENT.

BIHAR STATE POWER TRANSMISSION CO. LTD.	
DRG. TITLE	GA OF STRUCTURE FOR 220KV EQUIPMENT-CT (HL)
DRG. NO.	BSPTCL-SUBS-SWYD-S-STD-DRG-220KV EQUIPMENT-CT (HL)
SCALE	AS MENTIONED
SHEET	1 OF 2