



1 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	200 NB PIPE	1	3084	31	95.60	95.60
2	12 thk. Plate	1	400 x 400	94.2	15.07	15.07
2A	12 thk. Plate	1	400 x 400	94.2	15.07	15.07
3	6 thk. Plate	8	104 x 150	47.1	0.74	5.98
4	L 75x75x6	4	100	6.8	0.68	2.72
4A	L 75x75x6	2	100	6.8	0.68	1.36
5	12 thk. Plate	1	400 x 400	94.2	15.07	15.07
6	6 thk. Plate	6	104 x 200	47.1	0.98	5.98
7	6 thk. Plate	2	104 x 200	47.1	0.98	1.96
8	ISMC 100x50	2	400	9.56	3.82	7.85
Sub total						166.27

2 HARDWARES:-

Hardware name	Unit wt.	Quantity (nos.)	Total wt. (kg)
M12 dia x 40 LG (for earth flat fixing)	0.066	8 + 1	0.534
M16 dia x 45 LG	0.133	24 + 3	3.591
M12 dia x 2.5thk sp.washer	0.006	8 + 1	0.054
M16 dia x 3.5 thk sp. washer	0.009	24 + 3	0.241
Total			4.480

3 FOUNDATION BOLT DETAILS:-

Hardware name - M20X725MM LG	Unit wt.(kg)	Quantity (nos.)	Total wt. (kg)
M.S Round bolt	1.791	1	1.791
Standard nut	0.061	2	0.122
Lock nut	0.033	1	0.033
Washer	0.253	1	0.253
Anchor plate	0.33	1	0.330
Total weight (1 NO)			2.53
Total weight (4 NOS)			10.12

Summary of weights:-
 Weight of Structure: 166.27 kg
 Weight of Hardware: 4.48 kg
 Weight of Foundation bolts: 10.12 kg
Total Weight for single structure: 180.88 kg
 Total Weight for single set: 342.591 kg

BUS HEIGHT FROM PL	5900
EQUIPMENT HEIGHT UP TO C.L. OF BUS	2680(2300+380)
HENCE, SUPPORTING STRUCTURE HEIGHT	3220
EQUIPMENT MAKE	ALSTOM T&D INDIA LTD.
EQUIPMENT DRG No.	313-B-4777

- 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 17.5 ϕ 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-WT		
DRG. NO.	BSPTCL-SUBS-SWYD-S-STD-DRG-220KV EQUIPMENT-WT		
SCALE	AS MENTIONED	SHEET	1 OF 1