



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	2976	31	92.26	92.26
2	12 thk. Plate	1	600 x 600	94.2	33.91	33.91
3	6 thk. Plate	8	150 x 204	47.1	1.44	11.53
4	L 75x75x6	4	100	6.8	0.68	2.72
4A	L 75x75x6	2	100	6.8	0.68	1.36
5	16 thk. Plate	1	450 x 450	125.6	25.43	25.43
6	6 thk. Plate	6	129 x 200	47.1	1.22	7.29
7	6 thk. Plate	2	129 x 200	47.1	1.22	2.43
8	6 thk. Plate	2	115 x 200	47.1	1.08	2.17
9	L 50x50x5	2	750	3.8	2.85	5.70
Sub total						184.80

HARDWARES:-

Hardware name	Unit wt. (kg)	Quantity (nos.)	Total wt. (kg)
M12 dia x 40 LG (for earth flat fixing)	0.066	8 + 1	0.594
M16 dia x 45 LG	0.133	10 + 0	1.330
M12 dia x 2.5thk sp.washer	0.006	8 + 1	0.054
M16 dia x 3.5 thk sp. washer	0.009	4 + 0	0.036
Total			2.014

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)			10.120

Summary of weights:-

Weight of Structure:	184.80 kg
Weight of Hardwares:	2.01 kg
Weight of Foundation bolts:	10.12 kg
Total Weight:	196.93 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.

BUS HEIGHT FROM PL	5900
EQUIPMENT HEIGHT UP TO C.L. OF BUS	2896(2800+96)
HENCE, SUPPORTING STRUCTURE HEIGHT	3004
EQUIPMENT MAKE	SIEMENS LIMITED AURANGABAD.
EQUIPMENT DRG No.	(4)G71AIN-EA203-Z435-100

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