

**BILL OF QUANTITY:-**

Piece mark	Size/description	Quantity (nos.)	Length mm	Unit wt. kg/m or kg/m <sup>2</sup>	Weight per piece kg	Total Weight kg
1	300 NB PIPE	1	2668	49.3	131.53	131.53
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	3	100	6.8	0.68	2.04
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	6 thk. Plate	6	108 x 200	47.1	1.02	6.10
7	6 thk. Plate	2	108 x 200	47.1	1.02	2.03
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
<b>Sub total</b>						<b>262.67</b>

**HARDWARES:-**

Hardware name	Unit wt.	Quantity ( nos. )	Total wt. (kg)
M12 dia x 40 LG (for earth flat fixing)	0.086	7 + 1	0.528
M16 dia x 45 LG	0.133	10 + 0	1.330
M12 dia x 2.5thk sp.washer	0.006	7 + 1	0.048
M16 dia x 3.5 thk sp. washer	0.009	4 + 0	0.036
<b>Total</b>			<b>1.942</b>

**FOUNDATION BOLT DETAILS:-**

Hardware name - M24X800MM LG	Unit wt.(kg)	Quantity ( nos. )	Total wt. (kg)
M.S Round bolt	2.845	1	2.845
Standard nut	0.105	2	0.210
Lock nut	0.010	1	0.010
Washer	0.244	1	0.244
Anchor plate	0.32	1	0.320
<b>Total weight (1 NO)</b>			<b>3.63</b>
<b>Total weight (4 NOS)</b>			<b>14.516</b>

**Summary of weights:-**


Weight of Structure:	262.67 kg
Weight of Hardware:	1.94 kg
Weight of Foundation bolts:	14.52 kg
<b>Total Weight:</b>	<b>279.13 kg</b>

BUS HEIGHT FROM PL	5900
EQUIPMENT HEIGHT UP TO C.L OF BUS	3200
HENCE, SUPPORTING STRUCTURE HEIGHT	2700
EQUIPMENT MAKE	MEHRU ELETRICAL & MECHANICAL ENGINEERS PRIVATE LIMITED
EQUIPMENT DRG No.	220-GA-5623-01-R1

**NOTES:-**

- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
- THE STRUCTURAL PIPE SHALL CONFORM TO IS: 1161-1998 (YST = 210N/mm<sup>2</sup>)
- 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/m<sup>2</sup> FOR PIPE STRUCTURES AND 300 g/m<sup>2</sup> 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.

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