



**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	200 NB PIPE	1	3345	31	103.70	103.70
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	5.88
4	L 75x75x6	5	100	6.8	0.68	3.40
4A	L 75x75x6	2	100	6.8	0.68	1.36
5	16 thk. Plate	1	400 x 400	125.6	20.10	20.10
6	6 thk. Plate	6	104 x 200	47.1	0.98	5.88
7	6 thk. Plate	2	104 x 200	47.1	0.98	1.96
8	ISM 100x50	2	400	9.56	3.82	7.648
					<b>Sub total</b>	<b>180.06</b>

**HARDWARES:-**

Hardware name	Unit wt.	Quantity (nos.)	Total wt. (kg)
M12 dia x 40 LG (for earth flat fixing)	0.066	9 + 1	0.660
M16 dia x 45 LG	0.133	24 + 3	3.591
M12 dia x 2.5thk sp.washer	0.006	9 + 1	0.060
M16 dia x 3.5 thk sp. washer	0.009	24 + 3	0.241
<b>Total</b>			<b>4.552</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>14.52</b>

**Summary of weights:-**

Weight of Structure:	180.06 kg
Weight of Hardware:	4.55 kg
Weight of Foundation bolts:	14.52 kg
<b>Total Weight:</b>	<b>199.13 kg</b>

**NOTES:-**

- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
- THE STRUCTURAL PIPE SHALL CONFIRM 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 17.5φ 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	2415(2300+115)
HENCE, SUPPORTING STRUCTURE HEIGHT	3485
EQUIPMENT MAKE	MODERN INSULATORS LIMITED.
EQUIPMENT DRG No.	211-C-C268 R5

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