

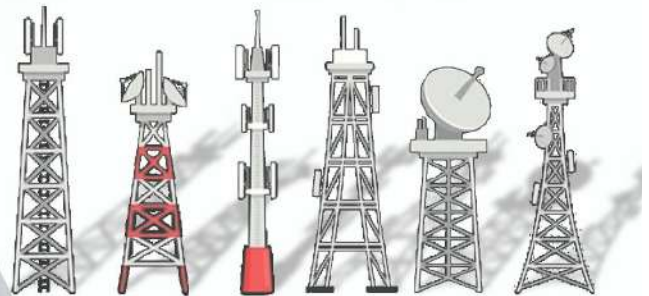


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Poles and Accessories



GI/MS Tubular/Octagonal/
Highmast Poles
and
ADSS/Aerial Fixtures



48/1 N.S Rd. Ramkrishnagarh, Kolkata - 700079

033-35028324

enterprisessp007@gmail.com

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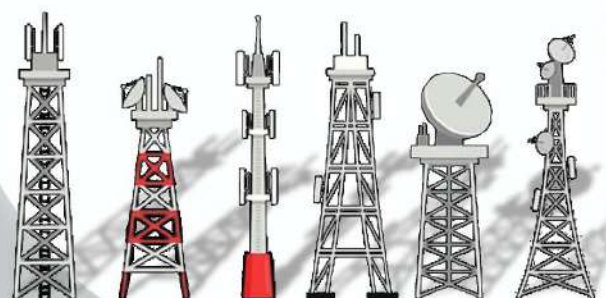
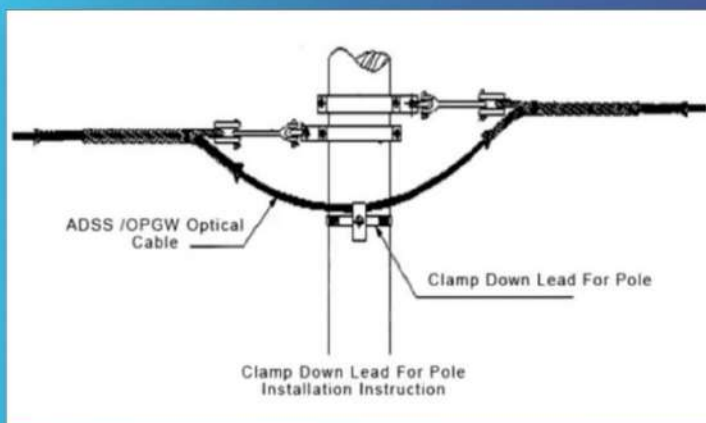
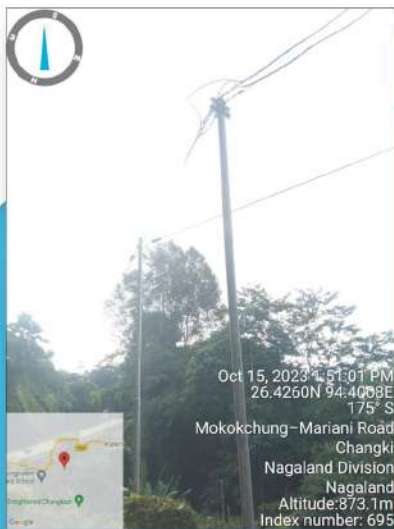


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410 SP1-SP80 7M-16M Poles as per BIS Standard

Ongoing Projects





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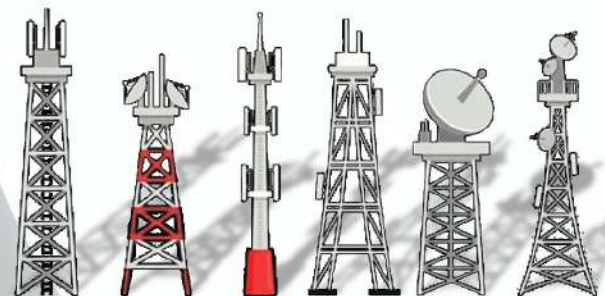
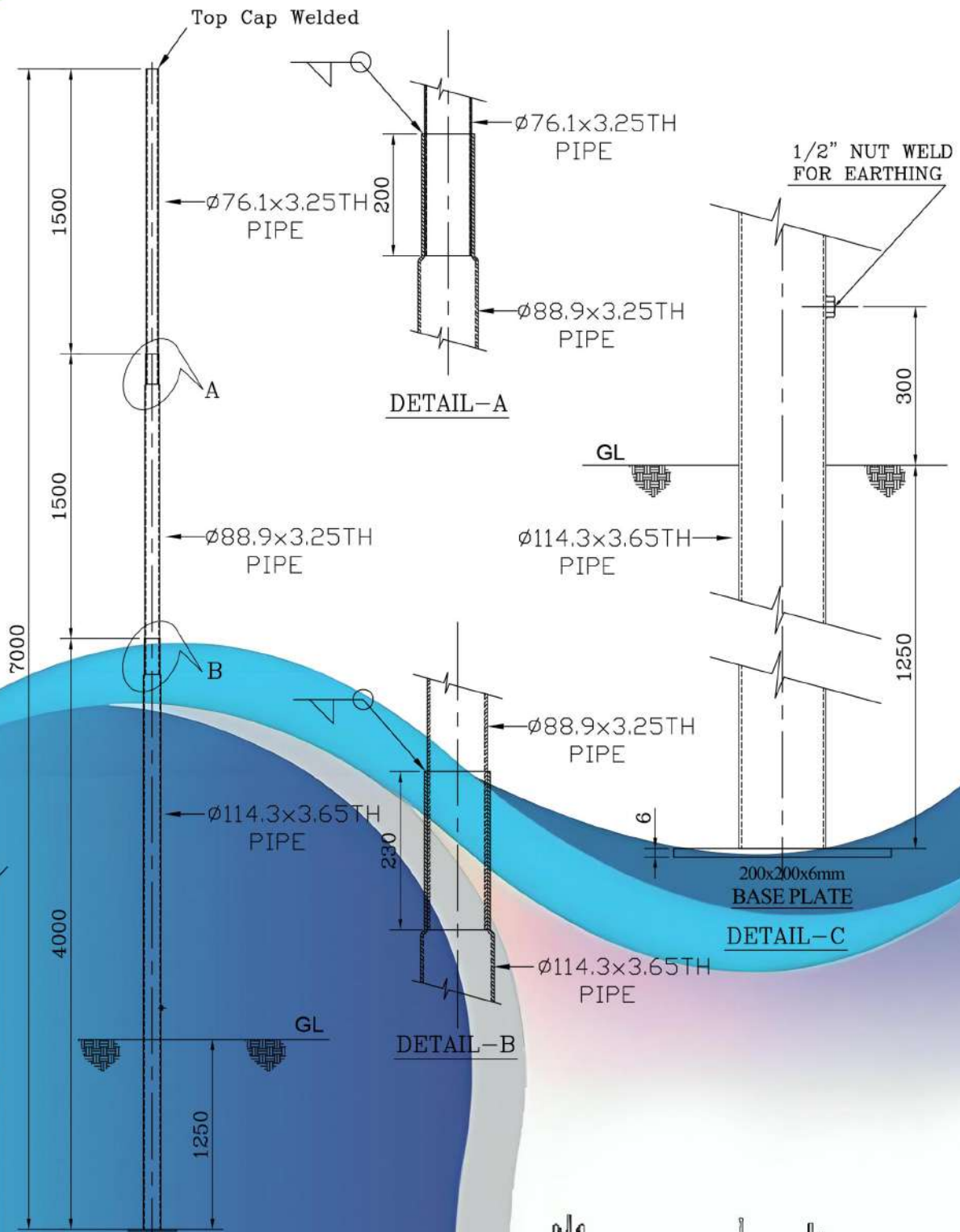
Diagram

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DETAIL REFER-C

NOTE:-

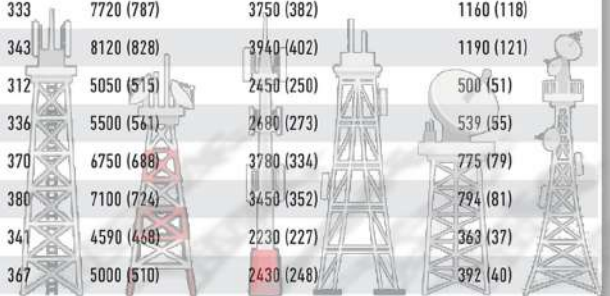
1. ALL DIMENSION ARE IN MM.
2. POLE AS PER IS:2713-1980
3. Mass of Zinc coating 400gms per sq. mtr. as per IS:6745/1972





STEEL TUBULAR POLES (SWAGED TYPE) CONFORMING TO IS 2713

Designation	OVERALL LENGTH	OVERALL LENGTH	LENGTH OF SECTIONS			OUTSIDE DIAMETER AND THICKNESS OF SECTIONS			APPROX. WEIGHT OF POLE	BREAKING LOAD	LOAD FOR PERMANENT SET NOT EXCEEDING 13MM	LOAD FOR TEMPORARY DEFLECTION OF 157.5 MM
			Bottom	Middle	Top	Bottom	Middle	Top				
1	2	3	4	5	6	7	8	9	10	11	12	13
MM	(M)	(M)	(M)	(M)	(M)	(MM)	(MM)	(MM)	(KG)	N (KGF)	N (KGF)	N (KGF)
410 SP - 41	10	1.8	5.2	2.4	2.4	139.7x4.85	114.3x4.50	88.9x3.25	135	3630 (370)	1760 (180)	637 (65)
410 SP - 42	10	1.8	5.2	2.4	2.4	139.7x5.40	114.3x4.50	88.9x3.25	144	3990 (407)	1940 (198)	677 (69)
410 SP - 43	10	1.8	5.2	2.4	2.4	165.1x4.50	139.7x4.50	114.3x3.65	160	4810 (490)	2330 (238)	1060 (108)
410 SP - 44	10	1.8	5.2	2.4	2.4	165.1x4.85	139.7x4.50	114.3x3.65	168	5150 (525)	2500 (255)	1120 (114)
410 SP - 45	10	1.8	5.2	2.4	2.4	165.1x5.40	139.7x4.50	114.3x3.65	178	5690 (580)	2760 (282)	1200 (122)
410 SP - 46	10	1.8	5.2	2.4	2.4	193.7x4.85	165.1x4.50	139.7x4.50	208	7210 (735)	3500 (357)	1850 (189)
410 SP - 47	10	1.8	5.2	2.4	2.4	193.7x5.40	165.1x4.50	139.7x4.50	221	7910 (807)	3840 (392)	1990 (203)
410 SP - 48	10	1.8	5.2	2.4	2.4	193.7x5.90	165.1x4.50	139.7x4.50	233	8620 (879)	4190 (427)	2110 (215)
410 SP - 49	11	1.8	5.6	2.7	2.7	139.7x4.85	114.3x4.50	88.9x3.25	140	3000 (306)	1460 (149)	412 (42)
410 SP - 50	11	1.8	5.6	2.7	2.7	139.7x5.40	114.3x4.50	88.9x3.25	147	3210 (327)	1560 (159)	431 (44)
410 SP - 51	11	1.8	5.6	2.7	2.7	139.7x5.40	114.3x5.00	88.9x3.25	164	3530 (360)	1720 (175)	480 (49)
410 SP - 52	11	1.8	5.6	2.7	2.7	165.1x4.50	139.7x4.50	114.3x3.65	175	4250 (433)	2060 (210)	726 (74)
410 SP - 53	11	1.8	5.6	2.7	2.7	165.1x4.85	139.7x4.50	114.3x3.65	183	4550 (464)	2220 (226)	765 (78)
410 SP - 54	11	1.8	5.6	2.7	2.7	165.1x5.40	139.7x4.50	114.3x3.65	194	5030 (513)	2440 (249)	814 (83)
410 SP - 55	11	1.8	5.6	2.7	2.7	193.7x4.85	165.1x4.50	139.7x4.50	227	6370 (650)	3100 (316)	1270 (130)
410 SP - 56	11	1.8	5.6	2.7	2.7	193.7x5.40	165.1x4.50	139.7x4.50	241	6990 (713)	3400 (347)	1370 (140)
410 SP - 57	11	1.8	5.6	2.7	2.7	193.7x5.90	165.1x4.85	139.7x4.50	256	7620 (777)	3710 (378)	1470 (150)
410 SP - 58	12	2	5.8	3.1	3.1	165.1x4.50	139.7x4.50	114.3x3.65	186	3880 (396)	1880 (192)	539 (55)
410 SP - 59	12	2	5.8	3.1	3.1	165.1x4.85	139.7x4.50	114.3x3.65	197	4160 (424)	2020 (206)	569 (58)
410 SP - 60	12	2	5.8	3.1	3.1	165.1x5.40	139.7x4.50	114.3x3.65	208	4600 (469)	2240 (228)	598 (61)
410 SP - 61	12	2	5.8	3.1	3.1	193.7x4.85	165.1x4.50	139.7x4.50	245	5820 (594)	2830 (289)	951 (97)
410 SP - 62	12	2	5.8	3.1	3.1	193.7x5.40	165.1x4.50	139.7x4.50	259	6390 (652)	3110 (317)	1010 (103)
410 SP - 63	12	2	5.8	3.1	3.1	193.7x5.90	165.1x4.85	139.7x4.50	277	6960 (710)	3390 (345)	1090 (111)
410 SP - 64	12	2	5.8	3.1	3.1	219.1x4.85	193.7x4.85	165.1x4.50	292	7490 (764)	3640 (371)	1460 (149)
410 SP - 65	12	2	5.8	3.1	3.1	219.1x5.60	193.7x4.85	165.1x4.50	313	8530 (871)	4150 (423)	1610 (164)
410 SP - 66	12	2	5.8	3.1	3.1	219.1x5.90	193.7x4.85	165.1x4.50	322	8980 (916)	4360 (445)	1660 (169)
410 SP - 67	13	2	5.8	3.6	3.6	193.7x4.85	165.1x4.50	139.7x4.50	261	5270 (537)	2560 (261)	677 (69)
410 SP - 68	13	2	5.8	3.6	3.6	193.7x5.40	165.1x4.85	139.7x4.50	281	5790 (590)	2810 (287)	735 (75)
410 SP - 69	13	2	5.8	3.6	3.6	193.7x5.90	165.1x5.40	139.7x4.50	302	6300 (642)	3060 (312)	794 (81)
410 SP - 70	13	2	5.8	3.6	3.6	219.1x4.85	193.7x4.85	165.1x4.50	312	6780 (691)	3300 (336)	1060 (108)
410 SP - 71	13	2	5.8	3.6	3.6	219.1x5.60	193.7x4.85	165.1x4.50	333	7720 (787)	3750 (382)	1160 (118)
410 SP - 72	13	2	5.8	3.6	3.6	219.1x5.90	193.7x4.85	165.1x4.50	343	8120 (828)	3940 (402)	1190 (121)
410 SP - 73	14.5	2	6.5	4	4	193.7x5.40	165.1x5.40	139.7x4.50	312	5050 (515)	2450 (250)	500 (51)
410 SP - 74	14.5	2	6.5	4	4	193.7x5.90	193.7x4.85	139.7x4.50	336	5500 (561)	2690 (273)	539 (55)
410 SP - 75	14.5	2	6.5	4	4	219.1x5.60	193.7x4.85	165.1x4.50	370	6750 (688)	3780 (384)	775 (79)
410 SP - 76	14.5	2	6.5	4	4	219.1x5.90	193.7x4.85	165.1x4.50	380	7100 (724)	3450 (352)	794 (81)
410 SP - 77	16	2.3	7	4.5	4.5	193.7x5.40	165.1x5.40	139.7x4.50	347	4590 (468)	2230 (227)	363 (37)
410 SP - 78	16	2.3	7	4.5	4.5	193.7x5.90	193.7x4.85	139.7x4.50	367	5000 (510)	2430 (248)	392 (40)
410 SP - 79	16	2.3	7	4.5	4.5	219.1x5.60	193.7x4.85	165.1x4.50	403	6130 (625)	2980 (304)	569 (58)
410 SP - 80	16	2.3	7	4.5	4.5	219.1x5.90	193.7x4.85	165.1x4.50	416	6440 (657)	3130 (319)	588 (60)



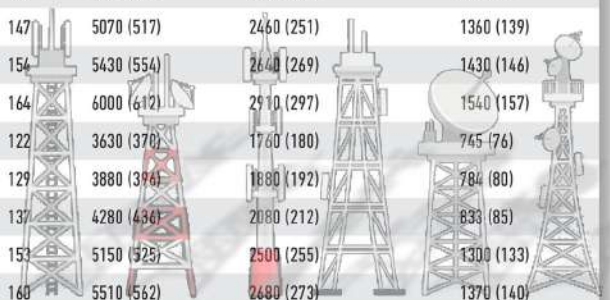


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Spec Sheet

STEEL TUBULAR POLES (SWAGED TYPE) CONFORMING TO IS 2713

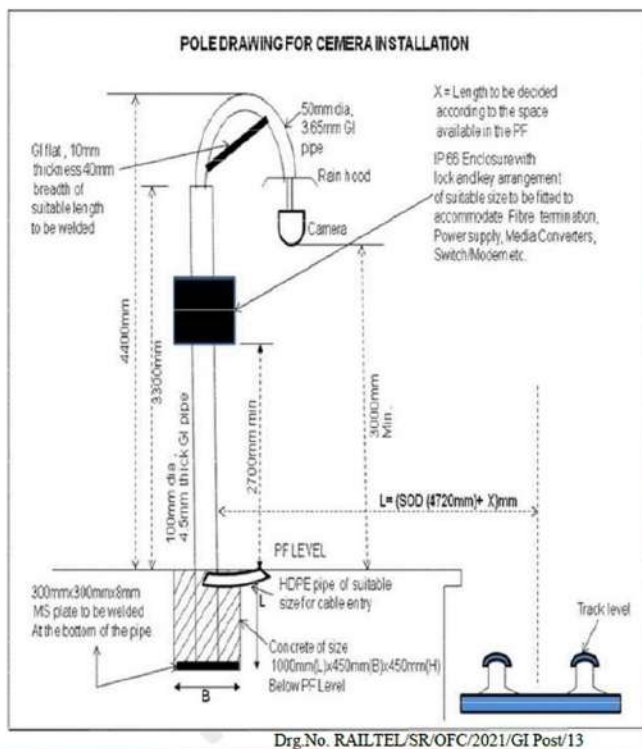
Designation	OVERALL LENGTH	OVERALL LENGTH	LENGTH OF SECTIONS			OUTSIDE DIAMETER AND THICKNESS OF SECTIONS			APPROX. WEIGHT OF POLE	BREAKING LOAD	LOAD FOR PERMANENT SET NOT EXCEEDING 13MM	LOAD FOR TEMPORARY DEFLECTION OF 157.5 MM
			Bottom	Middle	Top	Bottom	Middle	Top				
	L	L	h3	h2	h1							
1	2	3	4	5	6	7	8	9	10	11	12	13
MM	(M)	(M)	(M)	(M)	(M)	(MM)	(MM)	(MM)	(KG)	N (KGF)	N (KGF)	N (KGF)
410 SP - 1	7	1.25	4	1.5	1.5	114.3X3.65	88.9X3.25	76.1X3.25	62	2570 (262)	1245 (127)	785 (80)
410 SP - 2	7	1.25	4	1.5	1.5	114.5X4.50	88.9X4.05	76.1X3.25	73	3100 (316)	1510 (154)	941 (96)
410 SP - 3	7	1.25	4	1.5	1.5	114.5X5.40	88.9X4.85	76.1X3.25	85	3630 (370)	1760 (180)	1090 (111)
410 SP - 4	7.5	1.25	4.5	1.5	1.5	114.3X3.65	88.9X3.25	76.1X3.25	67	2350 (240)	1150 (117)	627 (64)
410 SP - 5	7.5	1.25	4.5	1.5	1.5	114.5X4.50	88.9X4.05	76.1X3.25	79	2760 (281)	1340 (137)	745 (76)
410 SP - 6	7.5	1.25	4.5	1.5	1.5	114.5X5.40	88.9X4.85	76.1X3.25	93	3320 (339)	1620 (165)	873 (89)
410 SP - 7	7.5	1.25	4.5	1.5	1.5	139.7X4.50	114.3X3.65	88.9X3.25	97	4330 (442)	2110 (215)	1400 (143)
410 SP - 8	7.5	1.25	4.5	1.5	1.5	139.7X4.85	114.3X3.65	88.9X3.25	103	4630 (472)	2250 (229)	1480 (151)
410 SP - 9	7.5	1.25	4.5	1.5	1.5	139.7X5.40	114.3X3.65	88.9X3.25	110	5100 (520)	2480 (253)	1600 (163)
410 SP - 10	8	1.5	4.5	1.75	1.75	114.3X3.65	88.9X3.25	76.1X3.25	70	2260 (230)	1100 (112)	520 (53)
410 SP - 11	8	1.5	4.5	1.75	1.75	114.5X4.50	88.9X4.05	76.1X3.25	83	2730 (278)	1320 (135)	618 (63)
410 SP - 12	8	1.5	4.5	1.75	1.75	114.5X5.40	88.9X4.85	76.1X3.25	97	3190 (325)	1550 (158)	725 (74)
410 SP - 13	8	1.5	4.5	1.75	1.75	139.7X4.50	114.3X3.65	88.9X3.25	101	4160 (424)	2020 (206)	1180 (120)
410 SP - 14	8	1.5	4.5	1.75	1.75	139.7X4.85	114.3X4.50	88.9X3.25	111	4440 (453)	2160 (220)	1280 (131)
410 SP - 15	8	1.5	4.5	1.75	1.75	139.7X5.40	114.3X4.50	88.9X3.25	119	4890 (499)	2380 (243)	1380 (140)
410 SP - 16	8.5	1.5	5	1.75	1.75	114.3X3.65	88.9X3.25	76.1X3.25	75	2090 (213)	1020 (104)	432 (44)
410 SP - 17	8.5	1.5	5	1.75	1.75	114.5X4.50	88.9X4.05	76.1X3.25	89	2520 (257)	1230 (125)	510 (52)
410 SP - 18	8.5	1.5	5	1.75	1.75	114.5X5.40	88.9X4.85	76.1X3.25	104	2950 (301)	1430 (146)	598 (61)
410 SP - 19	8.5	1.5	5	1.75	1.75	139.7X4.50	114.3X3.65	88.9X3.25	109	3844 (392)	1800 (191)	961 (98)
410 SP - 20	8.5	1.5	5	1.75	1.75	139.7X4.85	114.3X3.65	88.9X3.25	115	4110 (419)	2000 (204)	1010 (103)
410 SP - 21	8.5	1.5	5	1.75	1.75	139.7X5.40	114.3X4.50	88.9X3.25	129	4530 (462)	2210 (225)	1130 (115)
410 SP - 22	8.5	1.5	5	1.75	1.75	165.1X4.50	139.7X4.50	114.3X3.65	141	5450 (556)	2650 (270)	1730 (176)
410 SP - 23	8.5	1.5	5	1.75	1.75	165.1X4.85	139.7X4.50	114.3X3.65	148	5840 (596)	2840 (290)	1820 (186)
410 SP - 24	8.5	1.5	5	1.75	1.75	165.1X5.40	139.7X4.50	114.3X3.65	158	6450 (658)	3140 (320)	1970 (201)
410 SP - 25	9	1.5	5	2	2	114.3X3.65	88.9X3.25	76.1X3.25	78	1940 (198)	941 (96)	333 (34)
410 SP - 26	9	1.5	5	2	2	114.5X4.50	88.9X4.05	76.1X3.25	92	2340 (239)	1140 (116)	402 (41)
410 SP - 27	9	1.5	5	2	2	114.5X5.40	88.9X4.85	76.1X3.25	108	2750 (280)	1330 (136)	461 (47)
410 SP - 28	9	1.5	5	2	2	139.7X4.50	114.3X3.65	88.9X3.25	113	3580 (365)	1740 (177)	745 (76)
410 SP - 29	9	1.5	5	2	2	139.7X4.85	114.3X4.50	88.9X3.25	125	3820 (390)	1860 (190)	814 (83)
410 SP - 30	9	1.5	5	2	2	139.7X5.40	114.3X4.50	88.9X3.25	133	4220 (430)	2050 (209)	882 (90)
410 SP - 31	9	1.5	5	2	2	165.1X4.50	139.7X4.50	114.3X3.65	147	5070 (517)	2460 (251)	1360 (139)
410 SP - 32	9	1.5	5	2	2	165.1X4.85	139.7X4.50	114.3X3.65	154	5430 (554)	2640 (269)	1430 (146)
410 SP - 33	9	1.5	5	2	2	165.1X5.40	139.7X4.50	114.3X3.65	164	6000 (612)	2910 (297)	1540 (157)
410 SP - 34	9.5	1.8	5	2.25	2.25	139.7X4.50	114.3X4.50	88.9X3.25	122	3630 (370)	1760 (180)	745 (76)
410 SP - 35	9.5	1.8	5	2.25	2.25	139.7X4.85	114.3X4.50	88.9X3.25	129	3880 (396)	1880 (192)	784 (80)
410 SP - 36	9.5	1.8	5	2.25	2.25	139.7X5.40	114.3X4.50	88.9X3.25	137	4280 (436)	2080 (212)	833 (85)
410 SP - 37	9.5	1.8	5	2.25	2.25	165.1X4.50	139.7X4.50	114.3X3.65	153	5150 (525)	2500 (255)	1300 (133)
410 SP - 38	9.5	1.8	5	2.25	2.25	165.1X4.85	139.7X4.50	114.3X3.65	160	5510 (562)	2680 (273)	1370 (140)
410 SP - 39	9.5	1.8	5	2.25	2.25	165.1X5.40	139.7X4.50	114.3X3.65	170	6090 (621)	2960 (302)	1480 (151)
410 SP - 40	10	1.8	5.2	2.4	2.4	139.7X4.50	114.3X4.50	88.9X3.25	128	3390 (346)	1650 (168)	608 (62)





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Ongoing Projects

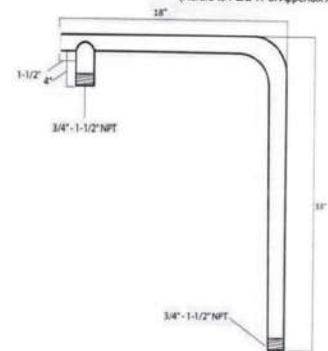


10.	L.M.	As per requirement.	25 Nos
17.	Pole Fixture	Schematic description of pole attached as Annexure.	24 No
	Height of Pole	: 7 Feet	
	Forward Extension	: 18 Inches	
	Fixture	: Clamped on wall at height of 6 feet from ground. Minimum three clamps per pole.	
	Material	: Mild Steel Pipe	
18.	Cable Clips and Tie	As per requirement.	70 Nos
19.	RJ 45 Clips	As per requirement.	150 Nos
20.	Installation		64 Job

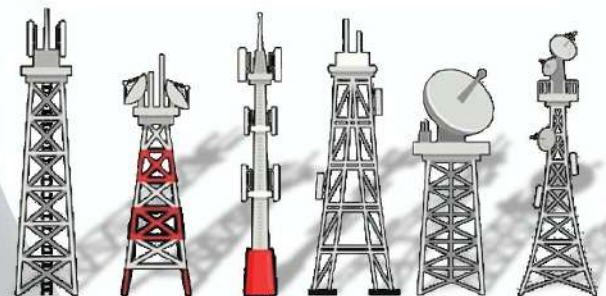
Station : c/o 99 APO
Date : 09 Nov 24

(Shantanu Kaushik)
MA
Project Officer
28 Air Defence Regiment

Annexure to Appendix A
(Refers to Para 17 of Appendix A)



Schematic Description of Pole



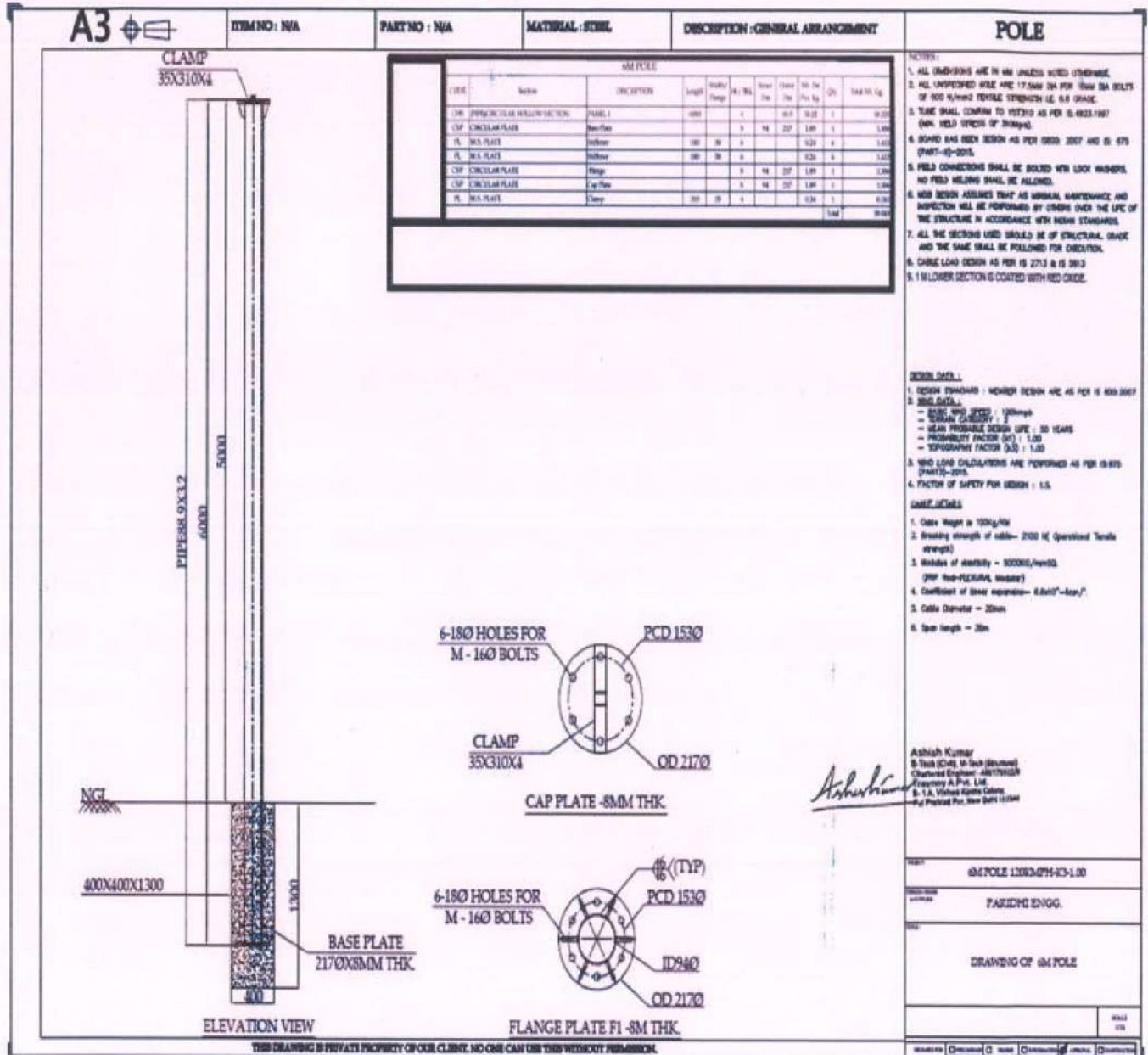


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4.16.9 POLE DESIGN

4.16.9.1 POLE- 6 MTR (GI)



Ed 2.0

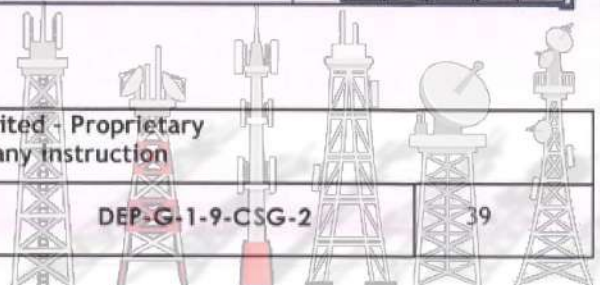
Bharti Airtel Networks Limited - Proprietary
Use pursuant to Company Instruction

Owner : Wireline Network

Construction Specification and
Guidelines

DEP-G-1-9-CSG-2

39



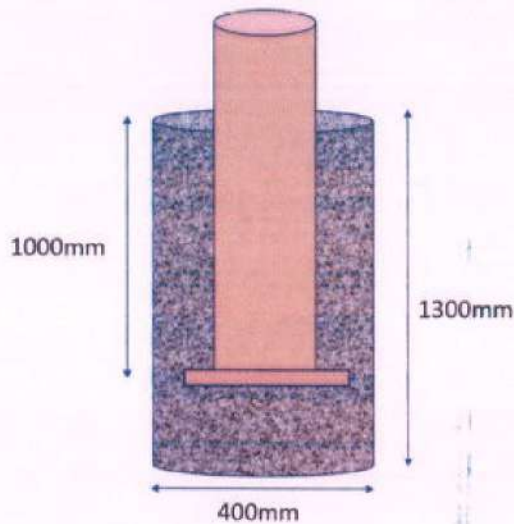


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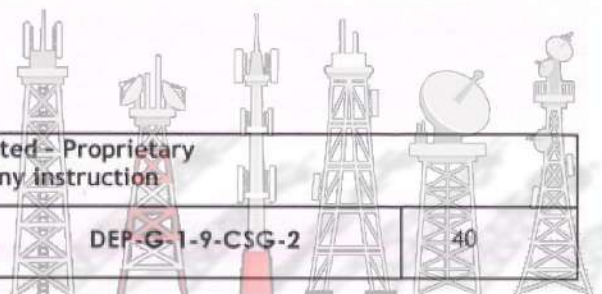
6M POLE										
CODE	Section	DISCRIPTION	Length	Width/ Flange	Ht / Thk.	Inner Dia	Outer Dia	Wt. Per Pcs. Kg.	Qty.	Total Wt. Kg.
CHS	(PIPE)CIRCULAR HOLLOW SECTION	PANEL 1	6000		4		88.9	50.22	1	50.225
CSP	CIRCULAR PLATE	Base Plate			8	94	217	1.89	1	1.886
PL	M.S. PLATE	Stiffener	100	50	6			0.24	6	1.413
PL	M.S. PLATE	Stiffener	100	50	6			0.24	6	1.413
CSP	CIRCULAR PLATE	Flange			8	94	217	1.89	1	1.886
CSP	CIRCULAR PLATE	Cap Plate			8	94	217	1.89	1	1.886
PL	M.S. PLATE	Clamp	310	35	4			0.34	1	0.341
									Total	59.049

6 and 8 Mtr OFC Pole Base Foundation Plinth



1. Concrete Grade - be M20 (1:1.5:2)
2. Pile Depth - 1300mm
3. Pile Dia - 400mm
4. Excavation Area - 0.16 Cum

Ed 2.0	Bharti Airtel Networks Limited - Proprietary Use pursuant to Company instruction		
Owner : Wireline Network	Construction Specification and Guidelines	DEP-G-1-9-CSG-2	40

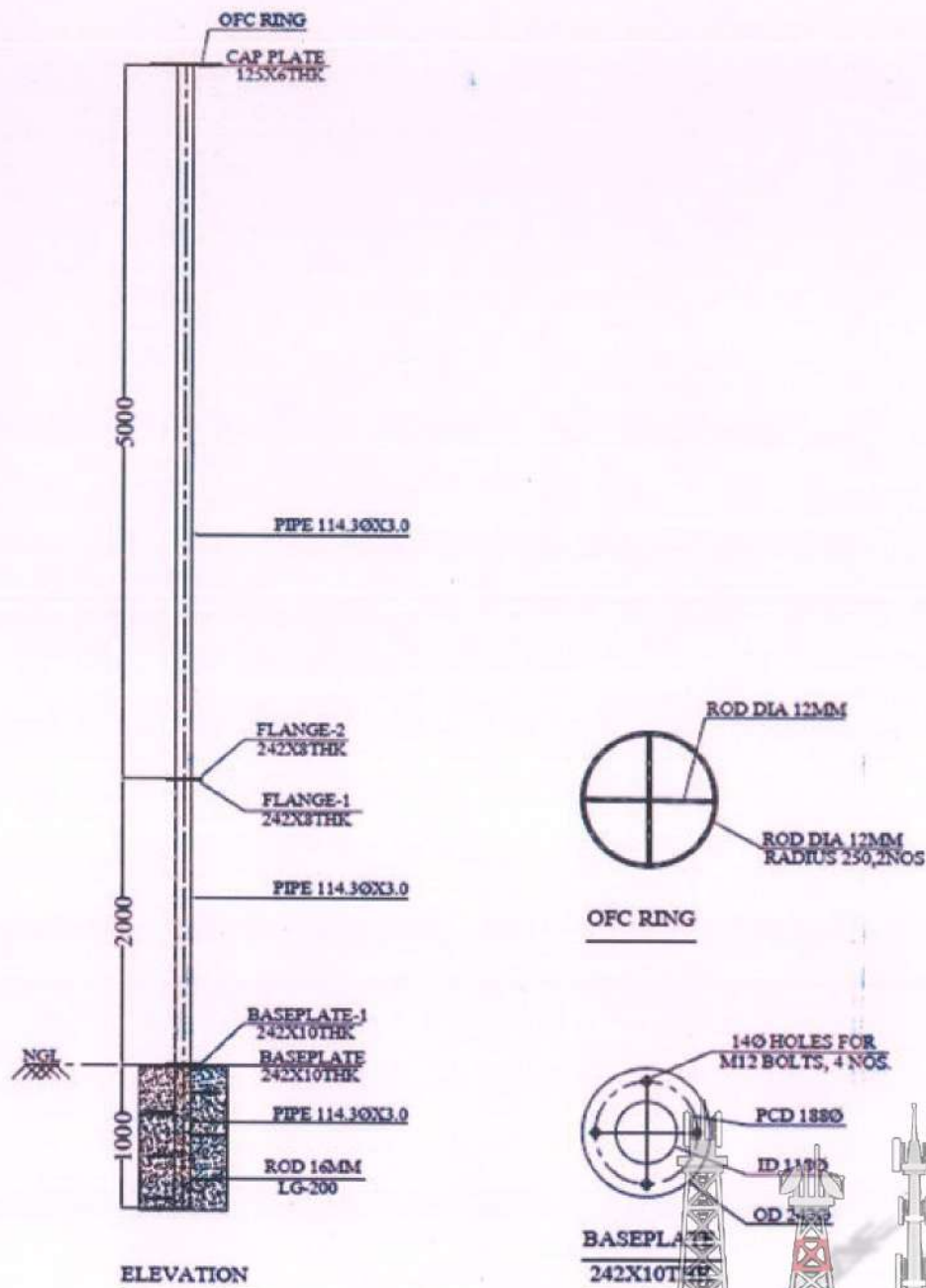




SSP Enterprise
Beyond & Above



4.16.9.2 POLE - 8 MTR (GI)



Ed 2.0

Bharti Airtel Networks Limited - Proprietary
Use pursuant to Company Instruction

Owner : Wireline Network

Construction Specification and
Guidelines

DEP-G-1-9-CSG-2

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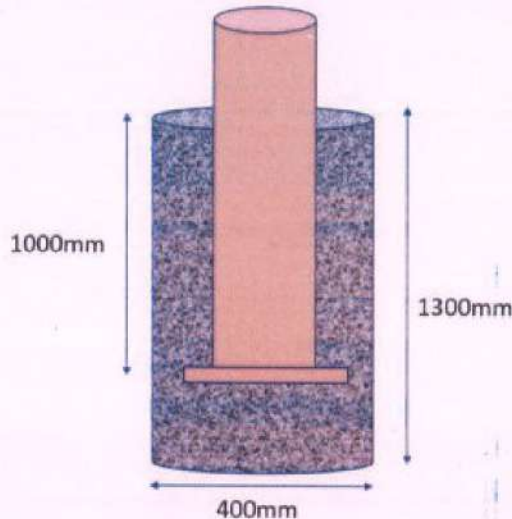
SSP Enterprise
Beyond & Above



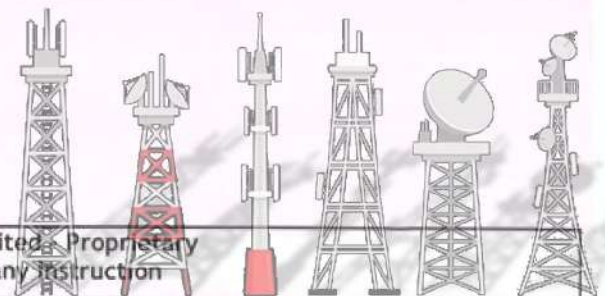
CODE	Section	DISCRIPTION	Length	Width/ Flange	Ht./ Thk.	Inner Dia	Outer Dia	Wt. Per Pes. Kg.	Qty.	Total Wt. Kg.
CSP	CIRCULAR PLATE	FLANGE			10	114.3	242	2.80	2	5.608
CSP	CIRCULAR PLATE	FLANGE			8	114.3	242	2.24	2	4.486
CSP	CIRCULAR PLATE	FLANGE			6	114.3	125	0.09	2	0.189
CHS	(PIPE)CIRCULAR HOLLOW SECTION	MAIN LEG	1000		3		114.3	8.23	1	8.230
CHS	(PIPE)CIRCULAR HOLLOW SECTION	MAIN LEG	2000		3		114.3	16.46	1	16.461
CHS	(PIPE)CIRCULAR HOLLOW SECTION	MAIN LEG	5000		3		114.3	41.15	1	41.152
ISRO	CIRCULAR ROD	Circular Rod	200				16	0.32	6	1.890
ISRO	CIRCULAR ROD	Circular Rod	181				16	0.29	4	1.142
ISRO	CIRCULAR ROD	Circular Rod	1570				16	2.48	1	2.477
TOTAL										81.637

This pole to be used for minor road crossing and places where more minimum ground clearance required & base (1000 mm) to be filled with M-20 grade

6 and 8 Mtr OFC Pole Base Foundation Plinth



1. Concrete Grade - be M20 (1:1.5:2)
2. Pile Depth - 1300mm
3. Pile Dia - 400mm
4. Excavation Area - 0.16 Cum



Ed 2.0	Bharti Airtel Networks Limited, Proprietary Use pursuant to Company Instruction		
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SPECIFICATION	UOM	PIC		QUERY
		OPTION 1	OPTION 2	
ALUMINIUM DEAD END CLAMP FOR 8-14 MM WIRE	PCS			
JUBLIE CLAMP 18"	PCS			1. IT'S 18" DIA OR LENGTH. 2. REQUIRED IN MS OR SS 202
TURN BUCKLE	PCS			
SUSPENSION CLAMP ASSEMBLY FOR 8-20 MM WIRE	PCS			
SS STRIP IF 207 (STAINLESS STEEL SS 202 - 20 MM 0.7 MM THICKNESS PACKED IN STRIP HOLDER)	MTR			
SS 304 BUCKLE 20MM	PCS			
POLE BRACKET UNIVERSAL	PCS			
ADJUSTABLE CABLE STORAGE BRACKET - LOOP HOLDER	PCS			
Strapping Tool	PCS			

