

Lighting the World...

I. C. Goyal's Product



VIPIN S.T. POLES
HISAR

HOT DIP GALVANIZING PLANT 12.5 MTR. LONG

Hot-dip galvanizing is a form of galvanization. It is the process of coating iron and steel with a thin zinc layer, by passing the steel through a molten bath of zinc at a temperature of around 860°F (460°C). When exposed to the atmosphere, pure zinc reacts with oxygen to form zinc oxide, which further reacts with carbon dioxide to form zinc carbonate, a dull grey, fairly strong material that stops further corrosion in many circumstances, protecting the steel below from the elements. Galvanized steel is widely used in applications where rust resistance is needed, and can be identified by the crystallization patterning on the surface. Galvanized steel can be welded; however, one must exercise caution around the resulting zinc fume. Galvanized steel is suitable for high temperature application of up to 392°F (200°C).

Zinc is a one-component cold applied anti-corrosion zinc coating. Its unique formula provides environmentally safe cathodic protection to steel comparable with hot-dip galvanizing, with the added advantage that it can be applied as though it were a paint.

We offer a wide range of services to cater to almost all of customer requirements, such as :

- ❖ **Transmission Line Towers**
- ❖ **Sub Stations Material**
- ❖ **Octagonal poles**
- ❖ **Railway OHE Structures**
- ❖ **Cable Trays**
- ❖ **M.S. Pipes**
- ❖ **Telecommunication Towers**
- ❖ **High Mast poles**
- ❖ **Swaged poles**
- ❖ **Gratings**
- ❖ **Earthing Strip**
- ❖ **Other Misc. Items**

In addition to these, many other customized jobs can be effectively executed. Galvanizing of all the jobs can be done as per relevant IS, BS, ASTM, or any other specified standard.

After shot blasting a 7 tank process is involved :

- Degreasing tank for removal of cutting oil, grease etc. (13 Mtr.)
- Pickling tank, (of HCL) for surface cleaning of material (13 Mtr.)
- Rising tank for washing off excess acids (13 Mtr.)
- Pre Flux Solution for preparation of surface for galvanizing (13 Mtr.)
- Zincbath, 12.5 Mtr(L) x 0.75 Mtr. (W) x 0.90 Mtr. (D).
- Quenching tank (13 Mtr.)
- Passivation tank to avoid oxidation of zinc coating. (13 Mtr.)

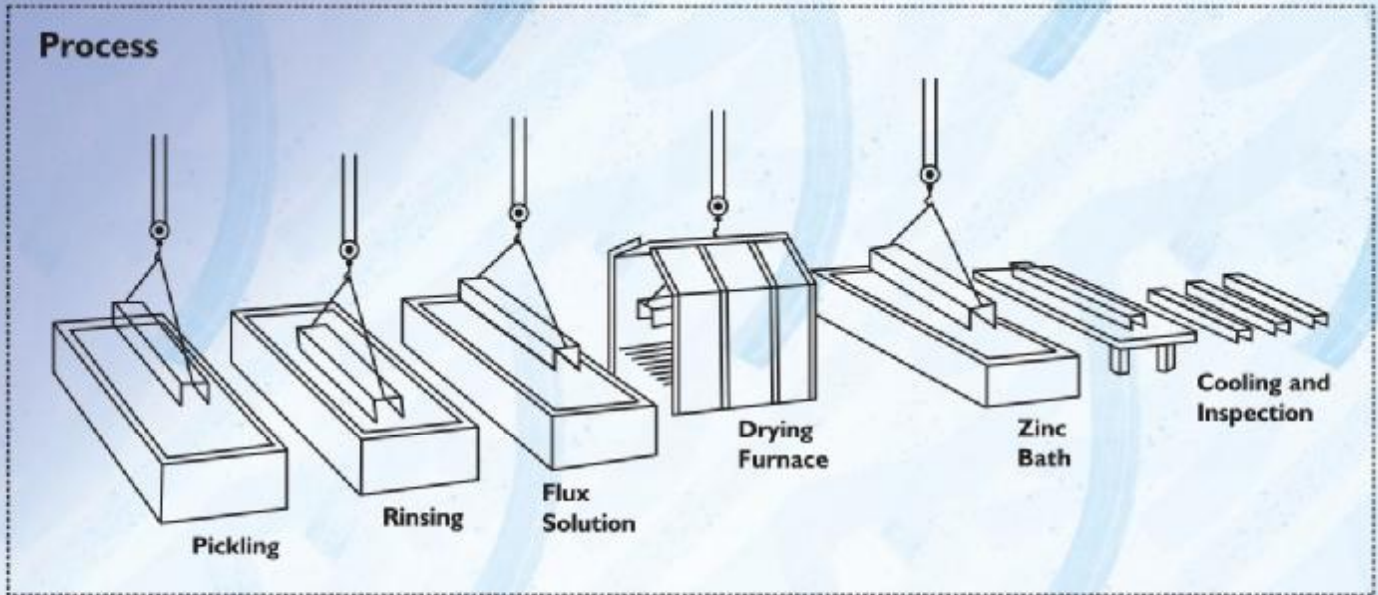
The entire material handling of the jobs is done with the help of EOT cranes with micro setting on the dipping crane. Hydraulic crane is used for material movement.

LIST OF MACHINERIES

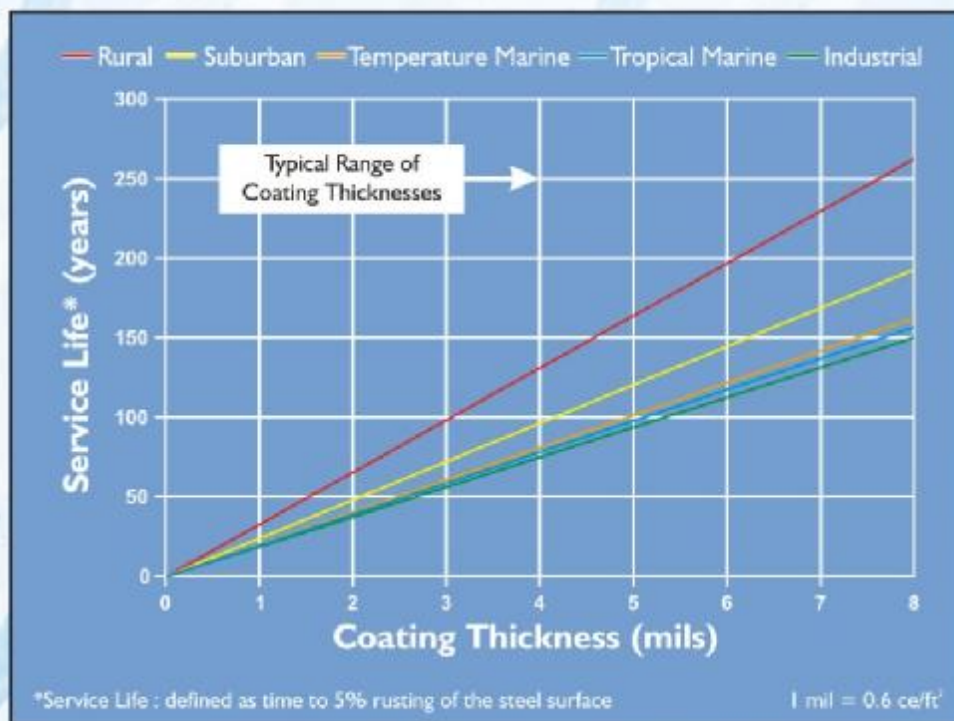
1. EOT Crane
2. Automatic Shearing Machines
3. Welding Rectifier and Transformer
4. Radial Drilling Machines
5. Hydraulic Press Machine
6. Bending Machines
7. Swaging Machines
8. Straightening Machines
9. Sand Blasting Machines
10. Powder Coating Paint



HOT DIP GALVANIZING PLANT 12.5 MTR. LONG



The graph below illustrates the expected service of a galvanized coating as a function of coating thickness in varying *atmospheric* conditions. As you can see, the life of a coating is linearly related to its thickness. Very simply, the thicker the coating, the longer it will last.



HIGH MAST POLES



HIGH MAST SPECIFICATIONS

Mast with continuous tapered polygonal cross section have high load bearing strength oscillation due to wind speed and related stress are fully taken care in the design.

IMPORTANT TECHNICAL FEATURES

FIXED TYPE HEAD FRAME :-

Designed with larger Dia. non corrosive aluminum pulley system for longer life and perfect balancing.

WINCHES :-

Winch designed with gear ratio 53 : 1 and without break or clutches. These are self lubricated for sustained trouble free life.

HIGH MAST FINISH :-

The complete mast with component is fully hot dip galvanized for anti rust treatment and longer life.

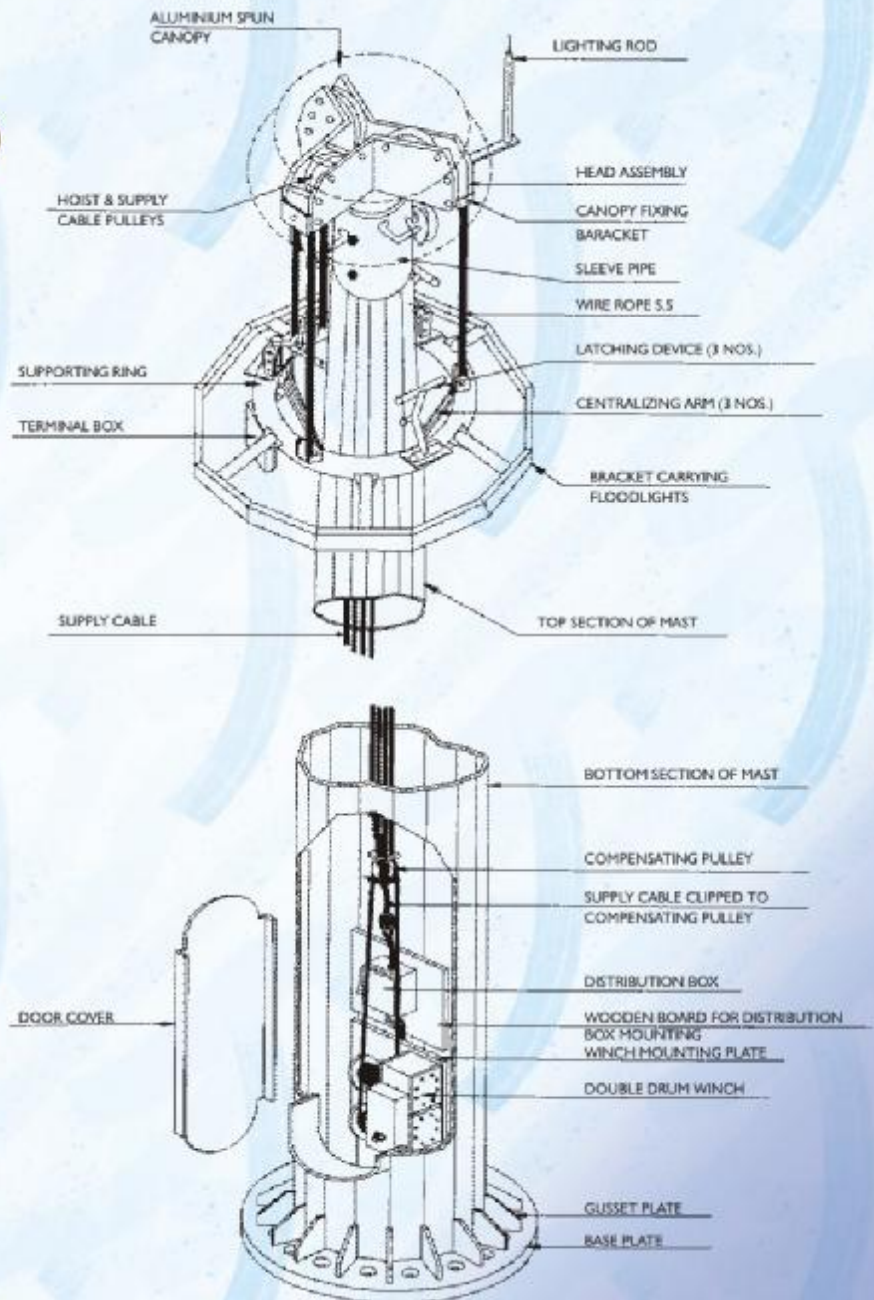
LANTERN CARRIAGE :-

We specialize in custom built design, standard lighting design and various types and shapes. The lantern carriage is supported with three numbers flexible 6 sq.mm. S.S. wire ropes from the distributors that can be elevated/lowered electrically and mechanically.

OPTIONAL :-

The most can be supplied with timer/ photo sensor panel for auto control.

ACCESSORIES



HOT DIP GALVANIZED HIGH MAST POLES

SPECIFICATIONS

	30 MTR	25 MTR	22 MTR	20 MTR
1 Material Construction	MS IS 2062/ BSEN 10025 FE 510 C	MS IS 2062/ BSEN 10025 FE 510 C	MS IS 2062/ BSEN 10025 FE 510 C	MS IS 2062/ BSEN 10025 FE 510 C
2 No. of Longitudinal Welds	Single/Double	Single/Double	Single/Double	Single
3 Cross section of mast in Polygon (No. of Sides)	20	20	20	20
4 Thickness	5,5,4 mm	5,4,4 mm	4,4 mm	4,4 mm
5 Individual Section's Length	10500 mm	8833 mm	11375 mm	10375 mm
6 Base & Top dia (OAF)	520/200 mm	485/200 mm	450/200 mm	450/200 mm
7 Thickness of galvanization (minimum) IS 2629	86 Microns	86 Microns	86 Microns	86 Microns
8 Size of opening door at base	350x1400 mm	350x1400 mm	350x1400 mm	350x1400 mm
9 Size of base plate diameter	700 mm	685 mm	650 mm	650 mm
10 Size of base plate thickness	32 mm	32 mm	32 mm	32 mm
11 Number of foundation bolts	16	12	12	12
12 PCD of foundation bolts	1000 mm	1000 mm	830 mm	830 mm
13 Type of foundation bolts	Tor steel (410 Mpa Y.S.)	Tor steel (410 Mpa Y.S.)	Tor Steel (410 Mpa Y.S.)	Tor steel (410 Mpa Y.S.)
14 Bolt diameter	28 mm	28 mm	28 mm	28 mm
LANTERN CARRIAGE :				
15 Number of fittings	AS PER CUSTOMER'S REQUIREMENT			
WINCH (VSP Make) :				
16 Drum's	2 Nos.	2 Nos.	2 Nos.	2 Nos.
17 Capacity	750 kg	750 kg	750 kg	750 kg
18 Number of ropes/thickness	3 nos./8 mm	3 nos./6 mm	3 nos./6 mm	3 nos./6 mm
Head – 3 PULLY SYSTEM				



HOT DIP GALVANIZED HIGH MAST POLES

SPECIFICATIONS

18 MTR	16 MTR	15 MTR	13 MTR	12.5 MTR	12 MTR
MS IS 2062/ BSEN 10025	MS IS 2062/ BSEN 10025	MS IS 2062/ BSEN 10025	MS IS 2062/ BSEN 10025	MS IS 2062 BSEN 10025	MS IS 2062/ BSEN 10025
FE 510 C	FE 510 C	FE 510 C	FE 510 C	FE 510 C	FE 510 C
Single	Single	Single	Single	Single	Single
20	20	20	8	8	8
4,4 mm	4,4 mm	4,4 mm	4 mm	4 mm	3 mm
9375 mm	8300 mm	7800 mm	13000 mm	12500 mm	12000 mm
422/200 mm	422/200 mm	422/200 mm	360/160 mm	360/160 mm	290/100 mm
86 Microns	86 Microns	86 Microns	86 Microns	86 Microns	86 Microns
350x1100 mm	350x1100 mm	350x1100 mm	250x1000 mm	250x1000 mm	250x1000 mm
625 mm	625 mm	625 mm	560 mm	560 mm	500 mm
32 mm	32 mm	32 mm	32 mm	32 mm	32 mm
8	8	8	6	6	6
830 mm	830 mm	830 mm	830 mm	830 mm	830 mm
Tor steel	Tor steel	Tor steel	Tor steel	Tor steel	Tor steel
(410 Mpa Y.S.)	(410 Mpa Y.S.)	(410 Mpa Y.S.)	(410 Mpa Y.S.)	(410 Mpa Y.S.)	(410 Mpa Y.S.)
28 mm	28 mm	28 mm	28 mm	28 mm	28 mm
AS PER CUSTOMER'S REQUIREMENT					
2 Nos.	2 Nos.	2 Nos.	2 Nos.	2 Nos.	2 Nos.
750 kg	750 kg	750 kg	750 kg	750 kg	750 kg
3nos./6 mm	3nos./6 mm	3nos./6 mm	3nos./6 mm	3nos./6 mm	3nos./6 mm



DIMENSIONS CAN BE CHANGED WITHOUT ANY PRIOR NOTICE. OTHER HEIGHTS OF POLES CAN BE MADE ON REQUEST.



HOT DIP GALVANIZED OCTAGONAL POLES

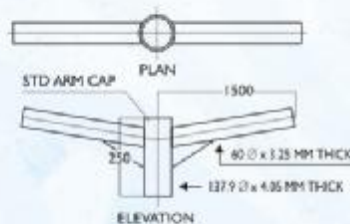
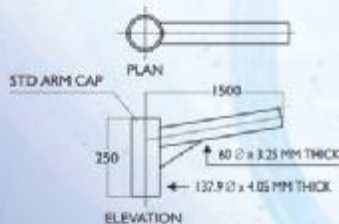
STANDARD SPECIFICATIONS



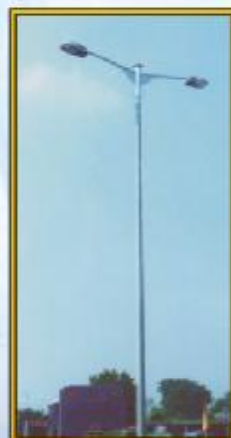
HEIGHT (Mtr.)	TOP Dia. (mm)	BOTTOM Dia. (mm)	SHEET (mm)	BASE PLATE (L x B x T)	BOLT SIZE (no. x dia.) (mm)
3	60	132	3	210x210x12	4x16
4	60	132	3	210x210x12	4x16
5	60	132	3	210x210x12	4x16
6	60	132	3	210x210x12	4x16
7	76	150	3	240x240x16	4x20
8	76	150	3	240x240x16	4x20
9	100	200	3	275x275x16	4x20
10	100	200	3	310x310x20	4x25
11	100	200	3	310x310x20	4x25
12	100	200	3	310x310x20	4x25

- Notes :**
1. The octagonal poles shall be hot galvanized in single dip to 86 micron.
 2. The octagonal poles are designed for maximum wind speed of 169 km/Hr.
 3. Octagonal poles of length upto 10 Mtr.
 4. Octagonal poles can also be manufactured as per customer requirement.

HOT DIP GALVANIZED BRACKET



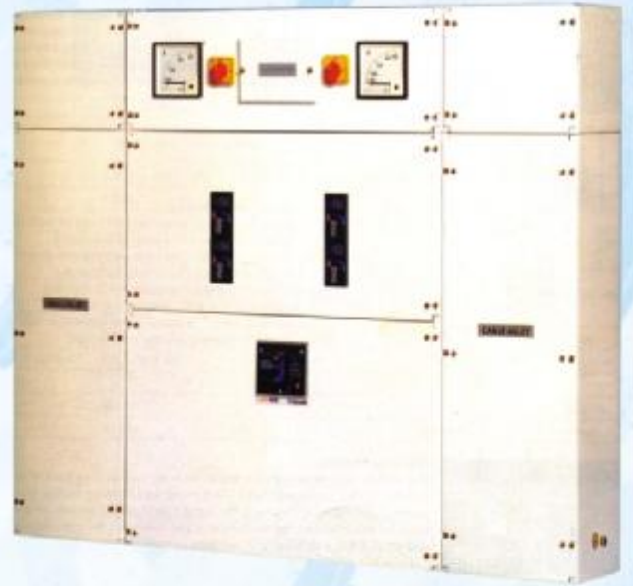
Finish : Hot dip Galvanized.
We can supply galvanized Arm brackets along with Different type of poles and as Per client's requirement.



ELECTRICAL CONTROL PANELS AND CABINETS



MCC Panel



Auto Power Factor Control Panel



A Typical MCC



Bus Duct

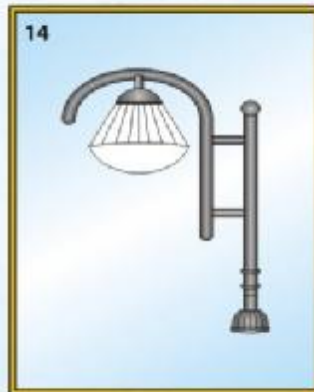
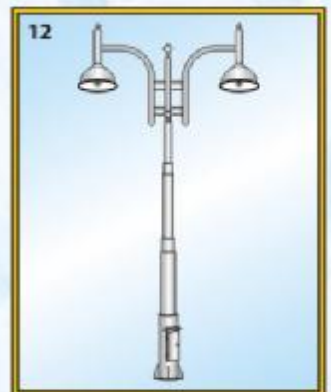


Power Control Center (PCC)



DECORATIVE POLES & BRACKETS

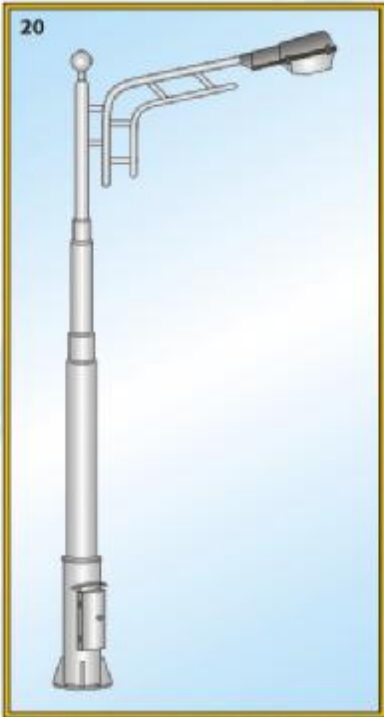
WITH POWDER COATED PAINT OR PU PAINT



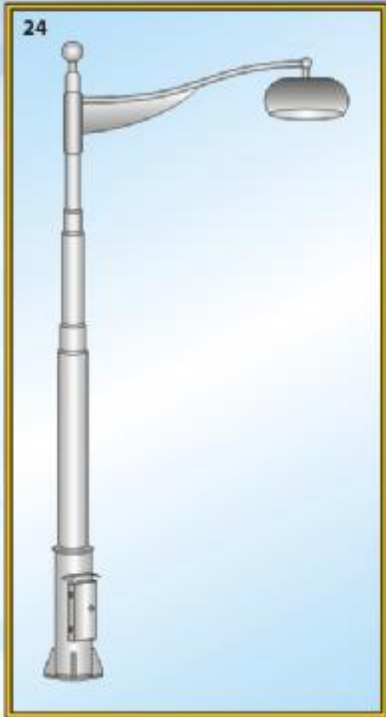
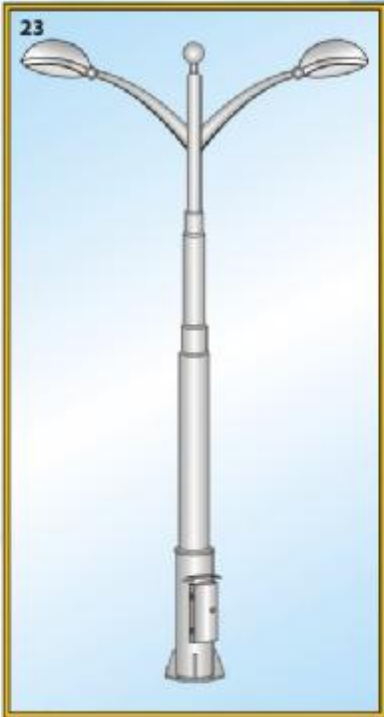


HIGH MAST

SWAGED POLES



SWAGED POLES



SWAGED POLES

MANUFACTURING PROCESS

Swaged poles are manufactured from E.R.W./Welded tubes of suitable lengths swaged & joined together. No circumferential joint shall be permitted in the individual tube lengths of poles. The longitudinal welds shall be staggered at each swaged joint. Swaging is done by Hydraulic Power Pack Unit. A circumferential weld shall be deposit at the upper end of the joint at aslope of approximately 45° poles are manufactured by us normally conform to As per IS 2713 (P-II)-1980 and special sizes poles can also be manufactured by as per customer drawings or requirements.

EARTHING ARRANGEMENT

If earthing arrangement is required, a bolt of 10 mm dia is welded on each pole at a height of 300 mm above the planting depth or can be provided as per customer's requirement.

QUALITY CONTROL

We have arrangement for strict quality control right from the receipt of raw material upto the final stage. The outside diameter, thickness, length of sections and the length of the pole controlled to come within the required specification.

AS PER IS : 2713 (PART - II) 1980

DESIGNATION	OVER ALL LENGTH	PLANTING DEPTH	LOAD APPLIED FROM TOP DISTANCE	HEIGHT ABOVE GROUND H	LENGTH OF SECTIONS			OUTSIDE DIAMETER & THICKNESS OF SECTIONS			APPROX WEIGHT OF POLE
					BOTTOM H ₁	MIDDLE H ₂	TOP H ₃	BOTTOM	MIDDLE	TOP	
(1)	(2) (m)	(3) (m)	(4) (m)	(5) (m)	(6) (m)	(7) (m)	(8) (m)	(9) (mm)	(10) (mm)	(11) (mm)	(12) (kg)
410SP - 1	7.00	1.25	0.30	5.75	4.00	1.50	1.50	114.3x3.65	88.9x3.25	76.1x3.25	62
410SP - 2	7.00	1.25	0.30	5.75	4.00	1.50	1.50	114.3x4.50	88.9x4.05	76.1x3.25	73
410SP - 3	7.00	1.25	0.30	5.75	4.00	1.50	1.50	114.3x5.40	88.9x4.85	76.1x3.25	85
410SP - 4	7.50	1.25	0.30	6.25	4.50	1.50	1.50	114.3x3.65	88.9x3.25	76.1x3.25	67
410SP - 5	7.50	1.25	0.30	6.25	4.50	1.50	1.50	114.3x4.50	88.9x4.05	76.1x3.25	79
410SP - 6	7.50	1.25	0.30	6.25	4.50	1.50	1.50	114.3x5.40	88.9x4.85	76.1x3.25	93
410SP - 7	7.50	1.25	0.30	6.25	4.50	1.50	1.50	139.7x4.50	114.3x3.65	88.9x3.25	97
410SP - 8	7.50	1.25	0.30	6.25	4.50	1.50	1.50	139.7x4.85	114.3x3.65	88.9x3.25	103
410SP - 9	7.50	1.25	0.30	6.25	4.50	1.50	1.50	139.7x5.40	114.3x3.65	88.9x3.25	110
410SP - 10	8.00	1.50	0.30	6.50	4.50	1.75	1.75	114.3x3.65	88.9x3.25	76.1x3.25	70
410SP - 11	8.00	1.50	0.30	6.50	4.50	1.75	1.75	114.3x4.50	88.9x4.05	76.1x3.25	83
410SP - 12	8.00	1.50	0.30	6.50	4.50	1.75	1.75	114.3x5.40	88.9x4.85	76.1x3.25	97
410SP - 13	8.00	1.50	0.30	6.50	4.50	1.75	1.75	139.7x4.50	114.3x3.65	88.9x3.25	101
410SP - 14	8.00	1.50	0.30	6.50	4.50	1.75	1.75	139.7x4.85	114.3x4.50	88.9x3.25	111
410SP - 15	8.00	1.50	0.30	6.50	4.50	1.75	1.75	139.7x5.40	114.3x4.50	88.9x3.25	119
410SP - 16	8.50	1.50	0.30	7.00	5.00	1.75	1.75	114.3x3.65	88.9x3.25	76.1x3.25	75
410SP - 17	8.50	1.50	0.30	7.00	5.00	1.75	1.75	114.3x4.50	88.9x4.05	76.1x3.25	89
410SP - 18	8.50	1.50	0.30	7.00	5.00	1.75	1.75	114.3x5.40	88.9x4.85	76.1x3.25	104
410SP - 19	8.50	1.50	0.30	7.00	5.00	1.75	1.75	139.7x4.50	114.3x3.65	88.9x3.25	109
410SP - 20	8.50	1.50	0.30	7.00	5.00	1.75	1.75	139.7x4.85	114.3x3.65	88.9x3.25	115
410SP - 21	8.50	1.50	0.30	7.00	5.00	1.75	1.75	139.7x5.40	114.3x4.50	88.9x3.25	129
410SP - 22	8.50	1.50	0.30	7.00	5.00	1.75	1.75	165.1x4.50	139.7x4.50	114.3x3.65	141
410SP - 23	8.50	1.50	0.30	7.00	5.00	1.75	1.75	165.1x4.85	139.7x4.50	114.3x3.65	148

ADVANTAGE

Steel tubular Poles are the most efficient and economical source for carrying the overhead transmission and overhead distribution lines which no other source can take place. Owing to the circular cross section, the poles with stand torsional stresses much better. Cylindrical surface offers minimum wind resistant and due to their elasticity, can take all sorts of shocks, cyclones, Thrust lines breakage etc. for better than any other type of poles. Bring light weight permits easy handling, transportation, low depth erection and less maintenance cost which insured the greatest economy of steel tublar poles.



SWAGED POLES

AS PER IS : 2713 (PART - II) 1980

DESIGNATION	OVER ALL LENGTH	PLANTING DEPTH	LOAD APPLIED FROM TOP DISTANCE	HEIGHT ABOVE GROUND H	LENGTH OF SECTIONS			OUTSIDE DIAMETER & THICKNESS OF SECTIONS			APPROX WEIGHT OF POLE
					BOTTOM H ₁	MIDDLE H ₂	TOP H ₃	BOTTOM	MIDDLE	TOP	
(1)	(2) (m)	(3) (m)	(4) (m)	(5) (m)	(6) (m)	(7) (m)	(8) (m)	(9) (mm)	(10) (mm)	(11) (mm)	(12) (kg)
410SP - 24	8.50	1.50	0.30	7.00	5.00	1.75	1.75	165.1x4.50	139.7x4.50	114.3x3.65	158
410SP - 25	9.00	1.50	0.30	7.50	5.00	2.00	2.00	114.3x3.65	88.9x3.25	76.1x3.25	78
410SP - 26	9.00	1.50	0.30	7.50	5.00	2.00	2.00	114.3x4.50	88.9x4.05	76.1x3.25	92
410SP - 27	9.00	1.50	0.30	7.50	5.00	2.00	2.00	114.3x5.40	88.9x4.85	76.1x3.25	108
410SP - 28	9.00	1.50	0.30	7.50	5.00	2.00	2.00	139.7x4.50	114.3x3.65	88.9x3.25	113
410SP - 29	9.00	1.50	0.30	7.50	5.00	2.00	2.00	139.7x4.85	114.3x4.50	88.9x3.25	125
410SP - 30	9.00	1.50	0.30	7.50	5.00	2.00	2.00	139.7x5.40	114.3x4.50	88.9x3.25	133
410SP - 31	9.00	1.50	0.30	7.50	5.00	2.00	2.00	165.1x4.50	139.7x4.50	114.3x3.65	147
410SP - 32	9.00	1.50	0.30	7.50	5.00	2.00	2.00	165.1x4.85	139.7x4.50	114.3x3.65	154
410SP - 33	9.00	1.50	0.30	7.50	5.00	2.00	2.00	165.1x5.40	139.7x4.50	114.3x3.65	164
410SP - 34	9.50	1.80	0.60	7.70	5.00	2.25	2.25	139.7x4.50	114.3x4.50	88.9x3.25	122
410SP - 35	9.50	1.80	0.60	7.70	5.00	2.25	2.25	139.7x4.85	114.3x4.50	88.9x3.25	129
410SP - 36	9.50	1.80	0.60	7.70	5.00	2.25	2.25	139.7x5.40	114.3x4.50	88.9x3.25	137
410SP - 37	9.50	1.80	0.60	7.70	5.00	2.25	2.25	165.1x4.50	139.7x4.50	114.3x3.65	153
410SP - 38	9.50	1.80	0.60	7.70	5.00	2.25	2.25	165.1x4.85	139.7x4.50	114.3x3.65	160
410SP - 39	9.50	1.80	0.60	7.70	5.00	2.25	2.25	165.1x5.40	139.7x4.50	114.3x3.65	170
410SP - 40	10.00	1.80	0.60	8.20	5.20	2.40	2.40	139.7x4.50	114.3x4.50	88.9x3.25	128
410SP - 41	10.00	1.80	0.60	8.20	5.20	2.40	2.40	139.7x4.85	114.3x4.50	88.9x3.25	135
410SP - 42	10.00	1.80	0.60	8.20	5.20	2.40	2.40	139.7x5.40	114.3x4.50	88.9x3.25	144
410SP - 43	10.00	1.80	0.60	8.20	5.20	2.40	2.40	165.1x4.50	139.7x4.50	114.3x3.65	160
410SP - 44	10.00	1.80	0.60	8.20	5.20	2.40	2.40	165.1x4.85	139.7x4.50	114.3x3.65	168
410SP - 45	10.00	1.80	.60	8.20	5.20	2.40	2.40	165.1x5.40	139.7x4.50	114.3x3.65	178
410SP - 46	10.00	1.80	.60	8.20	5.20	2.40	2.40	193.7x4.85	165.1x4.50	139.7x4.50	208
410SP - 47	10.00	1.80	.60	8.20	5.20	2.40	2.40	193.7x5.40	165.1x4.50	139.7x4.50	221
410SP - 48	10.00	1.80	.60	8.20	5.20	2.40	2.40	193.7x5.90	165.1x4.50	139.7x4.50	233
410SP - 49	11.00	1.80	.60	9.20	5.60	2.70	2.70	139.7x4.50	114.3x4.50	88.9x3.25	140
410SP - 50	11.00	1.80	.60	9.20	5.60	2.70	2.70	139.7x4.85	114.3x4.50	88.9x3.25	147
410SP - 51	11.00	1.80	.60	9.20	5.60	2.70	2.70	139.7x5.40	114.3x5.40	88.9x3.25	164
410SP - 52	11.00	1.80	.60	9.20	5.60	2.70	2.70	165.1x4.50	139.7x4.50	114.3x3.65	175
410SP - 53	11.00	1.80	.60	9.20	5.60	2.70	2.70	165.1x4.85	139.7x4.50	114.3x3.65	183
410SP - 54	11.00	1.80	.60	9.20	5.60	2.70	2.70	165.1x5.40	139.7x4.50	114.3x3.65	194
410SP - 55	11.00	1.80	.60	9.20	5.60	2.70	2.70	193.7x4.85	165.1x4.50	139.7x4.50	227
410SP - 56	11.00	1.80	.60	9.20	5.60	2.70	2.70	193.7x5.40	165.1x4.50	139.7x4.50	241
410SP - 57	11.00	1.80	.60	9.20	5.60	2.70	2.70	193.7x5.90	165.1x4.85	139.7x4.50	256

TOLERANCES

- | | | | |
|-------------------------------|---------------|--|-------|
| 1. OUTSIDE Diameter | + 1% | 4. Weight | |
| 2. Thickness | + Not Limited | For bulk supplies | 7.5 % |
| | - 10 % | For any single pole | 10 % |
| 3. Length | | 5. Straightness | |
| on the length of any section | + 40 mm | the finished pole shall not be out of | |
| on the overall length of pole | + 25 mm | straightness by more 1/1600 of its length. | |



SWAGED POLES

- Based on the assumption that steel weights 7.85g/cm³ * Before making a selection of pole it is necessary to assume a suitable factor of safety has to be applied on the breaking load or the crippling load of the pole as the case may be depending on the relevant electricity rules to obtain the working load.
- Value of working load of the poles with a factor of safety of 2 on crippling load and a Factor 2.5 on breaking load are both given in tables 1&2 in Indian standard book. The user will have to calculate the working load if different actors of safety other then those stated above are applied.
- Length the tolerance of the length of section shall be follows : On the length of section + 40mm. On the overall length + 10 mm.
- The mean weight for bulk supplied shall not be more than 5% below the calculated value the weight of any single pole shall not fall below the calculated weight more than 7.5%.
- Permissible tolerance on the tube thickness 10%.

AS PER IS : 2713 (PART - II) 1980

DESIGNATION	OVER ALL LENGTH	PLANTING DEPTH	LOAD APPLIED FROM TOP DISTANCE	HEIGHT ABOVE GROUND H	LENGTH OF SECTIONS			OUTSIDE DIAMETER & THICKNESS OF SECTIONS			APPROX WEIGHT OF POLE
					BOTTOM H ₁	MIDDLE H ₂	TOP H ₃	BOTTOM	MIDDLE	TOP	
(1)	(2) (m)	(3) (m)	(4) (m)	(5) (m)	(6) (m)	(7) (m)	(8) (m)	(9) (mm)	(10) (mm)	(11) (mm)	(12) (kg)
410SP - 58	12.00	2.00	.60	10.00	5.80	3.10	3.10	165.1x4.50	139.7x4.50	114.3x3.65	186
410SP - 59	12.00	2.00	.60	10.00	5.80	3.10	3.10	165.1x4.85	139.7x4.50	114.3x3.65	197
410SP - 60	12.00	2.00	.60	10.00	5.80	3.10	3.10	165.1x5.40	139.7x4.50	114.3x3.65	208
410SP - 61	12.00	2.00	.60	10.00	5.80	3.10	3.10	193.7x4.85	165.1x4.50	139.7x4.50	245
410SP - 62	12.00	2.00	.60	10.00	5.80	3.10	3.10	193.7x5.40	165.1x4.50	139.7x4.50	259
410SP - 63	12.00	2.00	.60	10.00	5.80	3.10	3.10	193.7x5.90	165.1x4.85	139.7x4.50	277
410SP - 64	12.00	2.00	.60	10.00	5.80	3.10	3.10	219.1x4.85	193.7x4.85	165.1x4.50	292
410SP - 65	12.00	2.00	.60	10.00	5.80	3.10	3.10	219.1x5.60	193.7x4.85	165.1x4.50	313
410SP - 66	12.00	2.00	.60	10.00	5.80	3.10	3.10	219.1x5.90	193.7x4.85	165.1x4.50	322
410SP - 67	13.00	2.00	.60	11.00	5.80	3.60	3.60	193.7x4.85	165.1x4.50	139.7x4.50	261
410SP - 68	13.00	2.00	.60	11.00	5.80	3.60	3.60	193.7x5.40	165.1x4.85	139.7x4.50	281
410SP - 69	13.00	2.00	.60	11.00	5.80	3.60	3.60	193.7x5.90	165.1x5.40	139.7x4.50	302
410SP - 70	13.00	2.00	.60	11.00	5.80	3.60	3.60	219.1x4.85	193.7x4.85	165.1x4.50	312
410SP - 71	13.00	2.00	.60	11.00	5.80	3.60	3.60	219.1x5.60	193.7x4.85	165.1x4.50	333
410SP - 72	13.00	2.00	.60	11.00	5.80	3.60	3.60	219.1x5.90	193.1x4.85	165.1x4.50	343
410SP - 73	14.50	2.00	.60	12.50	6.50	4.00	4.00	193.7x5.40	165.1x4.85	139.7x4.50	312
410SP - 74	14.50	2.00	.60	12.50	6.50	4.00	4.00	193.7x5.90	165.1x5.40	139.7x4.50	336
410SP - 75	14.50	2.00	.60	12.50	6.50	4.00	4.00	219.1x5.60	193.7x4.85	165.1x4.50	370
410SP - 76	14.50	2.00	.60	12.50	6.50	4.00	4.00	219.1x5.90	193.7x4.85	165.1x4.50	380
410SP - 77	16.00	2.30	.60	13.70	7.00	4.50	4.50	193.7x5.40	165.1x4.85	139.7x4.50	341
410SP - 78	16.00	2.30	.60	13.70	7.00	4.50	4.50	193.7x5.90	165.1x5.40	139.7x4.50	367
410SP - 79	16.00	2.30	.60	13.70	7.00	4.50	4.50	219.1x5.60	193.7x4.85	165.1x4.50	405
410SP - 80	16.00	2.30	.60	13.70	7.00	4.50	4.50	219.1x5.90	193.7x4.85	165.1x4.50	416



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