



# LIGHTING THE WORLD

**PRODUCT EXPLORER**

w.e.f. 01-04-2024

**ISO CERTIFIED:** ISO 9001 : 2015 | ISO 14001 : 2004 | ISO 45001 : 2018

 [www.vsphighmast.com](http://www.vsphighmast.com)



## **ABOUT US**

Over the last two generations of hard work, determination, and commitment to quality, We have become the leading group in the Pole Manufacturing industry in India.

We established our first company in 1994 as an Electric Control Panel manufacturer, adding Swaged Tubular Poles in 1998, followed by Octagonal and High Mast Poles in 2005. Today, we offer a wide range of Decorative Poles and LED Lighting luminaires in India.

With almost 27 years of excellence, VSTP is a well-known brand in pole manufacturing in India. We deliver quality products to the Government, Semi-Government Entities, Industries, Warehouses, Housing Societies, Fuel Filling Stations and Private Sectors across all of India.

We manufacture high-quality products in accordance with industry standards. Our facilities are equipped with state-of-the-art machinery, including CNC Plasma Cutting Machines, CNC Press Brakes, CNC Pole Closing SAW Welding Machines, and various other machines used in the manufacturing of Decorative Poles and Luminaires. Additionally, We have a highly skilled team of experienced and qualified engineers. Our in-house design and R&D Department continuously work on developing new designs. Some of these designs are featured in this catalog cum price list.

From Octagonal Poles to Decorative Poles and LED Outdoor Lighting Luminaires to LED Indoor Lighting Luminaires, we offer a wide range of products for our customers with on-time delivery, wherever and whenever you need them. Additionally, we can manufacture products according to customer requirements and designs.

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## SALIENT FEATURES

We provide **SPECIAL DESIGNS** for stadiums, Traffic Junctions, Airports, Seaports, Railways, etc., and have completed **SEVERAL LIGHTING PROJECTS.**

- 1) Production Capacity: Capable of manufacturing 5,00,000 Octagonal, High Mast, and Decorative Poles annually.
- 2) Optimized Design: Utilizes high tensile steel for economical and efficient mast structures.
- 3) Market Presence and Growth: Continuously expanding market presence with a dealer network and dedicated support team.
- 4) Advanced Manufacturing Equipment: Operates with fully automatic CNC machines for precise fabrication processes.
- 5) Customer-Centric Approach: Values customer feedback, offers tailored designs, and specializes in projects conforming to Indian/international standards, with in-house engineering expertise.

## MANUFACTURE QUALITY CONTROL, RAW MATERIAL AND OTHERS

VSTP's manufacturing division, equipped with advanced Automatic CNC-Controlled Machinery, ensures precise fabrication of High Masts and Octagonal poles to meet diverse customer needs and standards. Direct sourcing of High Tensile Steel and Zinc from manufacturers guarantees quality and enhances customer acceptance. In-house Mechanical and Chemical Testing facilities, supervised by QA Engineers, maintain high standards for materials and products. Safety engineers oversee worker safety and provide site execution guidelines, while all workers are insured for peace of mind. Direct marketing through trained staff reduces costs, enabling competitive pricing. Our strong reputation and approvals from various authorities highlight our reliability. We prioritize strict adherence to quality, sourcing materials from nationally reputed suppliers. With a capacity of 100,000 poles per annum, equipped with integrated quality assurance systems, we maintain a competitive edge in the market.



## IN-HOUSE LAB FACILITY & MACHINERY



**SPECTROMETER:** Latest version CCD OES with high resolution detector.

**BASE: FE CHANNEL**

1. MS/CS/LAS
2. Cr\_Ni\_Steel
3. Cr\_Steel.

**BASE: ALUMINIUM**

1. Al\_Low\_Alloys
2. Al\_Si\_Cu.
3. Al\_Si\_Alloys.
4. Al\_Global.



**ELECTRONIC UNIVERSAL TESTING MACHINE:**

**Model:** UTE - 40      **Capacity:** 40 KN  
 Load Range with Accuracy of Measurement  $\pm 1\%$   
**Measures:** Stress, Tensile & Yield Strength  
 Micro Control Based Panel

**Hardness Testers, Model RAS** is manually operated. It is suitable for testing hardness of metal and alloys of all kinds, hard or soft, weather flat, round or irregular shape, and is sensitive and highly accurate.

- Automatic load selection with automatic zero setting dial gauge.
- Manual Operation.
- **Loads:** 60, 100, 150 kgf
- **Initial Load:** 10 kgf
- **Max. Test Height:** 230 mm
- **Depth of Thread:** 133 mm



# LIST OF MACHINERY



**RAW MATERIAL STOCK**



**AUTOMATIC CNC AIR PLASMA SHEET CUTTING MACHINES**



**AUTOMATIC CNC AIR PLASMA BASE PLATE CUTTING MACHINES**



**AUTOMATIC CNC PRESS BRAKE WITH LASER BEAM MACHINES**



**AUTOMATIC CNC POLE CLOSING SAW WELDING MACHINES**



**BASE PLATE FABRICATION**



**POLE STRAIGHTENING**



**PACKING & DISPATCH**

# WIND TUNNEL TESTING OF TRUE SCALE HIGH MAST

## NWTF TECHNICAL REPORT - 393

SUBMITTED TO  
**VIPIN S.T. POLES PVT. LTD.**  
HISAR, HARYANA



NATIONAL WIND TUNNEL FACILITY

## INDIAN INSTITUTE OF TECHNOLOGY KANPUR

### REPORT DOCUMENTATION

**Report Date:** July 2022

**Title:** Wind tunnel testing of true-scale High Mast model

**Authors:** Ravi Shakya, Rohit Samkaria

**Performing Organisation:**

National Wind Tunnel Facility, Indian Institute of Technology Kanpur,  
Kanpur - 208 016 (India), Telefax: +91-512-259 7226

**Report No.:** NWTF TR - 393

**Sponsoring Agency:**

Vipin S. T. Poles Pvt. Ltd.  
Hansi Road, Village Kutubpur, Hisar-125044, Haryana, India

**Abstract:** This report deals with the wind tunnel testing of a true-scale high mast standard carried out in the National Wind Tunnel Facility (NWTF), IIT Kanpur. The main objective of the study was to experimentally determine the coefficient of drag ( $C_d$ ) and normal force ( $C_n$ ) of the high mast model by integrating the pressures measured around the circumference of the model at several air speeds ranging from 10 m/s to 70 m/s. A true-scale high mast specimen was supplied by M/s Vipin S. T. Poles Pvt. Ltd. (Hisar), Haryana and the same was instrumented at NWTF for wind tunnel testing. The instrumented high mast model was tested in the wind tunnel at various wind speeds ranges from 20 m/s to 70 m/s and wind incidence angles ( $-2^\circ$  to  $11^\circ$ ). During the tests, pressure data was acquired from the pressure ports located on the periphery of the model at half span. Force coefficients were then determined from the circumferential pressure distribution on the model and presented in the form of graphs and tables. The maximum drag coefficient for the model was found to be about 0.78 (without corner pressure) and 0.69 (with corner pressure) at a wind speed of 70 m/s.

**Keywords:** High Mast, Wind tunnel test, Pressure coefficient, Drag coefficient, Lift coefficient

**Security Classification of Abstract:**

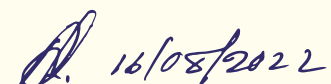
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**Security Classification of Report:**

Limited

**Total No. of pages:** 91

**Reviewed By:** Ravi Shakya

  
16/08/2022

**Approved By:**

Dr. Alakesh Chandra Mandal



## HOT DIP GALVANIZED OCTAGONAL & HIGH MAST POLES

### SPECIAL FEATURE AND ADVANTAGES:

1. Using High Tensile Steel confirming to BSEN, IS & ISO Standards.
2. Automated fabrication with the help of CNC operated machine for fast and accurate finishes.
3. SAW welding only one longitudinal welding.
4. Poles comes with Hot Dip Galvanized for longer life, no need to paint every year.
5. Poles having internal junction box, no need to external junction box.
6. Easy to Install & Easily relocation is possible.
7. Maintenance Free

### DESIGN, STANDARD FOLLOWED AND MATERIAL SPECIFICATIONS :

- 1 ▶ IS: 875 PART 3
- 2 ▶ BS 5649-1985 (EN40-2)
- 3 ▶ Mast & Pole Shaft – BSEN 10025 / IS: 2062
- 4 ▶ Foundation – IS: 2062 Gr. E250A
- 5 ▶ Base Plate – IS: 2062 Gr. E250A
- 6 ▶ Galvanization – IS 4759/2629

### AREA OF APPLICATIONS

ROADS & STREETS	RAILWAY STATION
AIRPORT	GARDEN
SPORTS COMPLEX	SHOPPING CENTER
HOTEL & RESTAURANTS	PRIVATE SECTOR



HISAR, HRY.



ALLAHABAD, UP

## HIGH MAST TECHNICAL FEATURES

Continuous tapered polygonal cross section gives Mast Strength oscillation to bear wind speed and related design takes care of all types of related stress fully.

### IMPORTANT TECHNICAL FEATURES

#### FIXED TYPE HEAD FRAME

Non corrosive aluminum pulley system is design with larger dia. For providing 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. We are providing winches of bronze treated which adds to its life and trouble free service.

#### HIGH MAST FINISH

To provide longer life the Mast with all its components is given anti rust treatment and fully hot galvanized treatment.

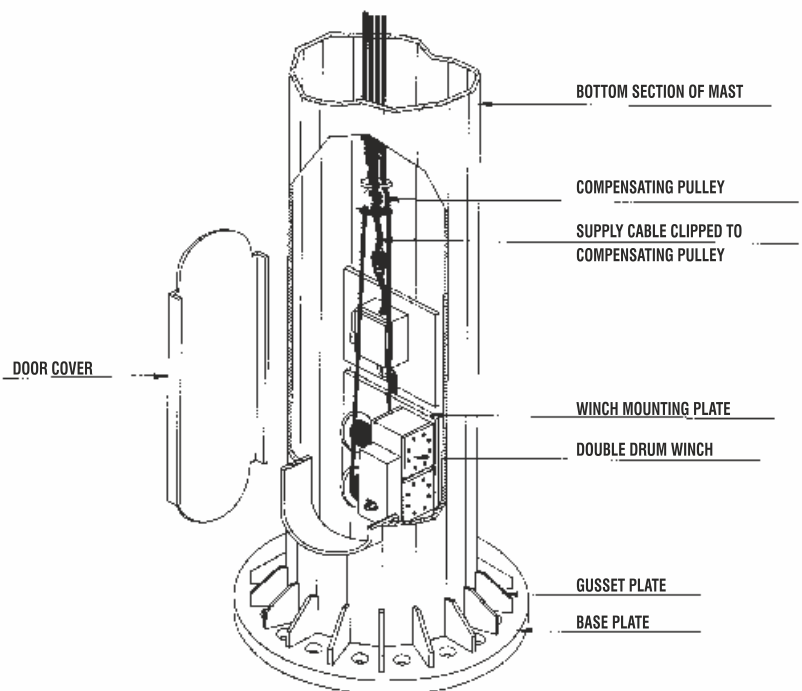
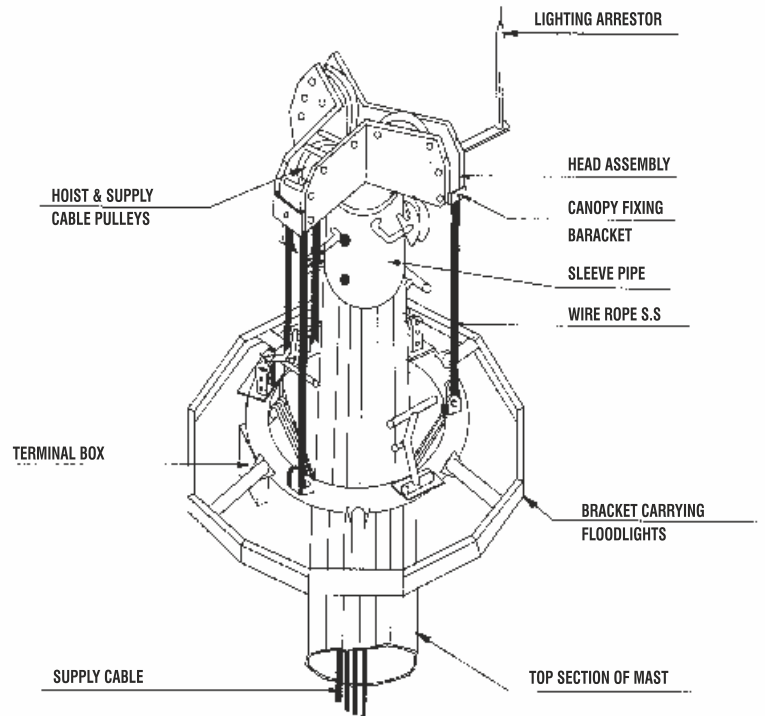
#### LANTERN CARRIAGE

We specialize in custom built design, standard lighting design and numerous types and shapes. The lantern carriage is supported with three numbers flexible 6/8 sq.mm. S.S. wire ropes from the distributors that can be elevated / lowered electrically as well as mechanically. Our competitors are providing 2 wires stay which is not as sturdy and balanced as provided by us.

#### OPTIONAL

The mast can be supplied with timer/photo sensor panel for auto control as per choice/requirement of the customers.

## ACCESSORIES





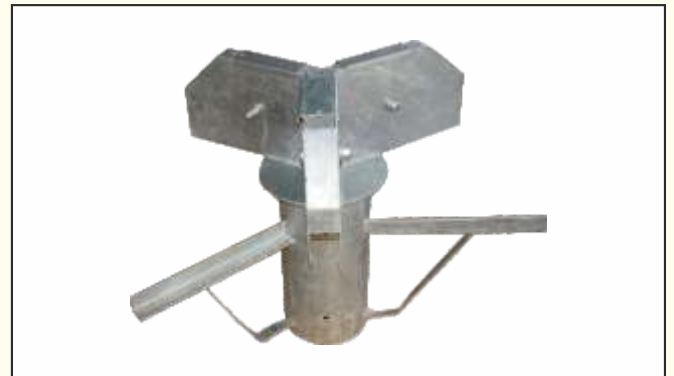
## HIGH MAST TECHNICAL FEATURES

Description	Cat No.	No. of Sections	Thickness	Individual Section's Length	Base & Top Dia (OAF)	Thickness of Galvanization (Average)	Size of Base Plate Diameter	Size of Base Plate Thickness	PCD of Base Plate	Foundation Bolts	No. of Ropes/ Thickness
12.5 MTR	VHM0120	2	3 MM	6500 MM	310/150	70 Microns	445 MM	25 MM	380	24x830x6	3Nos./5mm
12.5 MTR	VHM0125	2	3 MM	6500 MM	360/150	70 Microns	520 MM	25 MM	445	24x830x6	3Nos./5mm
16 MTR	VHM0161	2	3 MM	8300 MM	360/150	70 Microns	520 MM	32 MM	445	24x830x6	3Nos./6mm
16 MTR	VHM0162	2	4,3 MM	8300 MM	410/150	70 Microns	570 MM	25/32 MM	490	30x850x8	3Nos./6mm
20 MTR	VHM0201	2	4,3 MM	10350 MM	410/150	70 Microns	570 MM	32 MM	490	30x850x8	3Nos./6mm
20 MTR	VHM0202	2	4,3 MM	10350 MM	460/150	70 Microns	670 MM	32 MM	590	30x850x8	3Nos./6mm
25 MTR	VHM0250	3	4,4,3 MM	8833 MM	460/150	70 Microns	670 MM	32 MM	590	30x850x12	3Nos./6mm
25 MTR	VHM0250	3	5,4,3 MM	8833 MM	540/150	70 Microns	730 MM	32 MM	635	30x850x12	3Nos./6mm
30 MTR	VHM0302	3	5,4,3 MM	10500 MM	540/150	70 Microns	730 MM	32 MM	635	30x1000x12	3Nos./6mm
30 MTR	VHM0303	3	5,4,3 MM	10500 MM	600/150	70 Microns	800 MM	32 MM	700	30x1000x12	3Nos./6mm

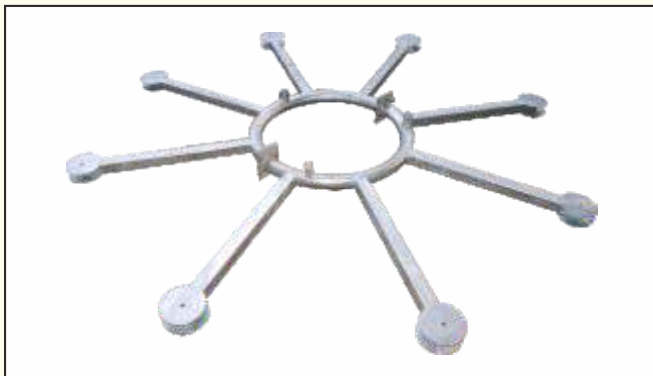
## ACCESSORIES



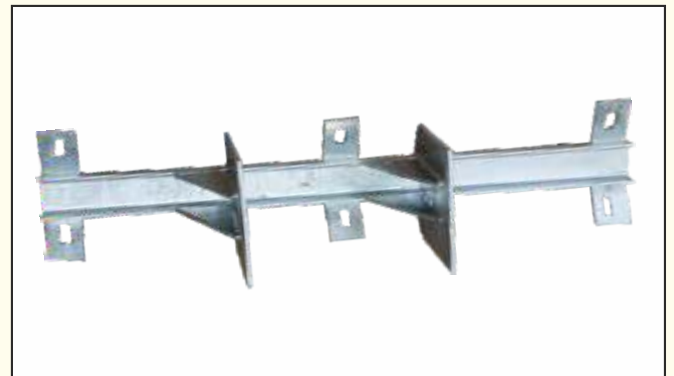
**WINCH**



**HEAD FRAME**



**LANTERN CARRIAGE**



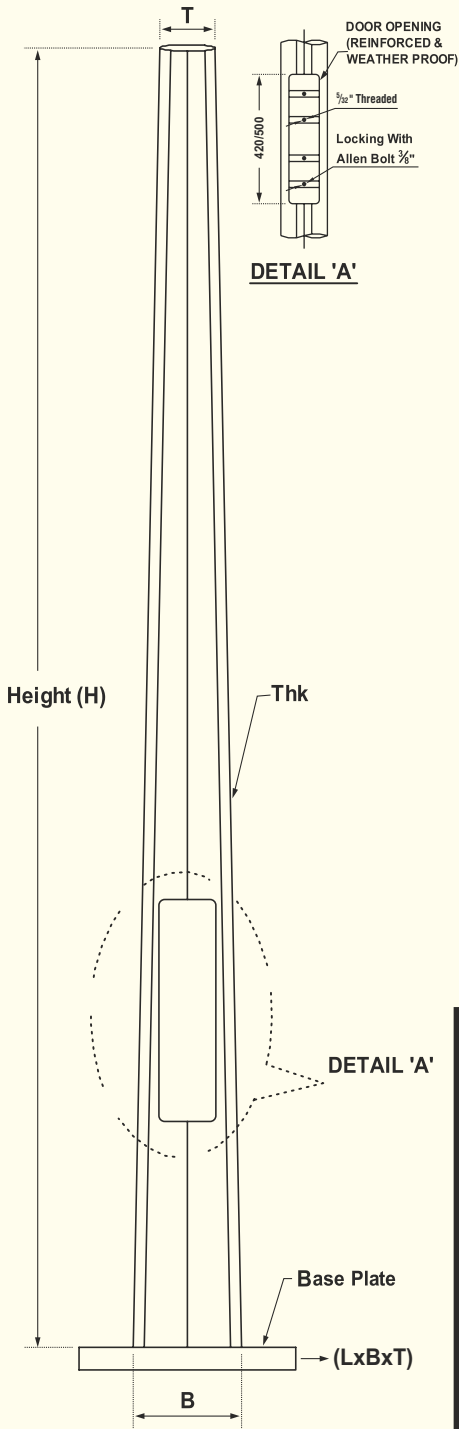
**WINCH STAND**

**NOTE:** High Mast can also be manufactured for other Customized Specifications.

# HOT DIP GALVANIZED OCTAGONAL POLES

We are the leading manufacturer of galvanized octagonal poles, which are generally used as street lighting poles. These poles are fabricated using finest quality raw material and are appreciated for precise dimension and corrosion resistance. We strictly check these poles at all stages. With the help of our expert professionals

## STANDARD SPECIFICATIONS



CAT No.	HEIGHT (MTR.) (H)	TOP DIA. (MM) (T)	BOTTOM DIA. (MM) (B)	SHEET THK. (MM)	BASE PLATE (LxBxT) MM	BOLT SIZE (Nos.xDia.xL)
VOP3030	3	70	130	3	200x200x12	4x16x450
VOP4030	4	70	130	3	200x200x12	4x16x450
VOP5030	5	70	130	3	200x200x12	4x16x600
VOP6030	6	70	130	3	220x220x12	4x20x600
VOP6050	6	75	150	3	275x275x16	4x20x600
VOP7030	7	70	130	3	220x220x12	4x20x600
VOP7050	7	75	150	3	300x300x20	4x20x700
VOP8035	8	70	135	3	225x225x16	4x20x600
VOP8020	8	100	200	3	325x325x20	4x24x750
VOP9030	9	70	130	3	225x225x12	4x20x700
VOP9055	9	70	155	3	260x260x16	4x24x750
VOP9020	9	100	200	3	350x350x20	4x24x750
VOP1055	10	70	155	3	260x260x16	4x24x750
VOP1075	10	70	175	3	275x275x16	4x24x750
VOP1020	10	100	200	3	310x310x16	4x24x750
VOP1175	11	70	175	3	275x275x16	4x24x750
VOP1110	11	90	210	3	310x310x16	4x24x750
VOP1210	12	90	210	3	310x310x16	4x24x750

### NOTE :

1. Octagonal poles can also be manufactured for other customized specification.
2. Octagonal poles have a galvanizing thickness of 65 Microns.
3. Different type of bracket are available for single, twin, triple luminaries & Four in various designs shown on page no. 11-13 and also as per customer requirement.
4. As per todays trend solar poles are highly in demand. We can provide them as per customers requirement & specifications.
5. We are manufacturing Octagonal Canti Lever/Traffic Light Poles also to meet market demand.

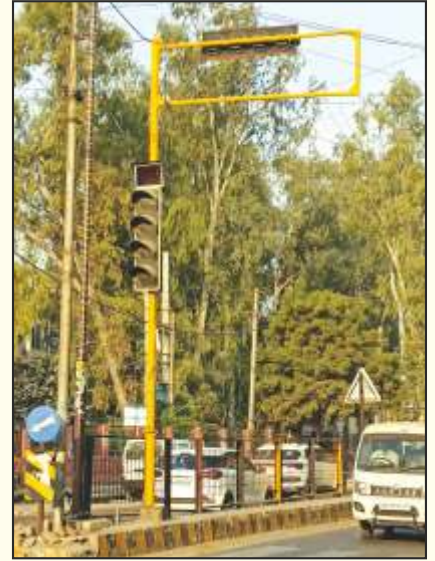
**DETAILED DIMENSION AS PER TABLE**

# STANDARD FLAG MAST SPECIFICATIONS

Height	Bottom & Top Dia.	Sheet Thk.	Size of Base Plate	PCD	Base Plate Thk.	Foundation Bolts
12.5 Mtr.	360/150	3,3 MM	520 MM	460	25 MM	24x830x6
16 Mtr.	410/150	4,3 MM	570 MM	490	30 MM	30x850x8
20 Mtr.	460/150	4,3 MM	670 MM	590	30 MM	30x850x8
25 Mtr.	540/150	5,4,4 MM	730 MM	635	30 MM	30x850x12
30.5 Mtr.	540/150	5,4,4 MM	730 MM	635	30 MM	30x850x12
35 Mtr.	610/150	5,4,4,4 MM	820 MM	700	30 MM	30x850x12
45 Mtr.	780/250	8,6,5,5,5 MM	980 MM	870	40 MM	30x1200x16



## CANTILIVER POLE



Traffic Light Poles engaged in premium quality Signal Lighting Poles. These high-profile signal support poles are designed to offer optimum performance in all environments. We supply pole with different heights that is depend as per client requirement.

### SPECIFICATIONS:

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>• We can provide the customized designs as per requirement.</li> </ul> | <ul style="list-style-type: none"> <li>• Can withstand high pressure wind &amp; Corrosion resistance.</li> </ul> |
| <ul style="list-style-type: none"> <li>• MS/GI Pipe with PU Painted/ Galvanised Finished.</li> </ul>          | <ul style="list-style-type: none"> <li>• Mounted as Foundation erected.</li> </ul>                               |

## SOLAR LIGHT POLE



Our firm is involved in manufacturing and supplying a huge range of Solar Lighting Poles. We design the given product following industrial standards by making use of best quality material and modern technology. Poles Solar power is a new way of generating energy. Because of this, people in the current world are finding it to be an interesting option as it lowers the cost of utilities and helps to reduce your carbon footprint. People across the globe are adopting solar as a medium of energy generation due to many reasons.

**Material:** MS, GI.

**Lighting Type:** Flourescent, LED, Incandascnt

**Size:** 2 meter to 6 meter.

**Irection Type:** Foundation/ Burial



## STADIUM HIGH MAST

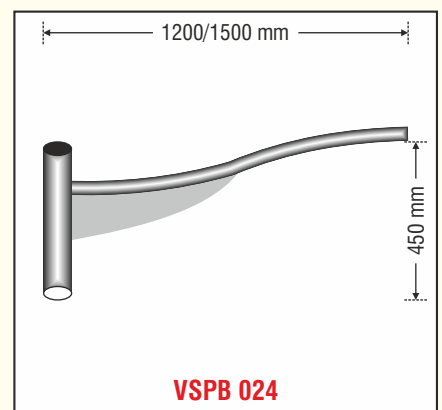
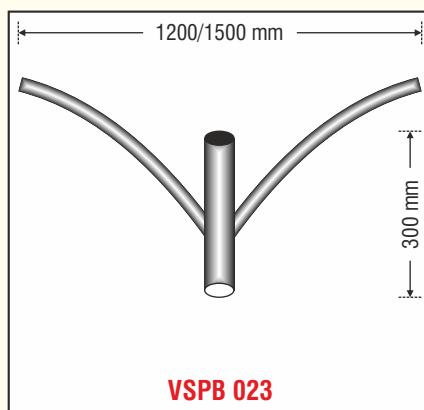
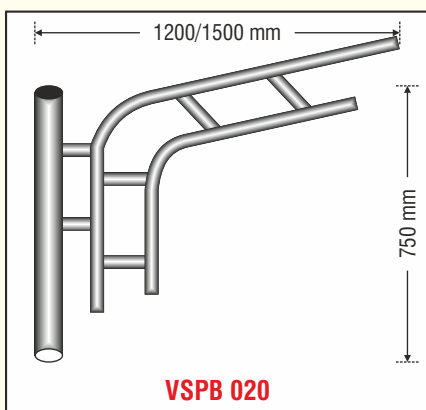
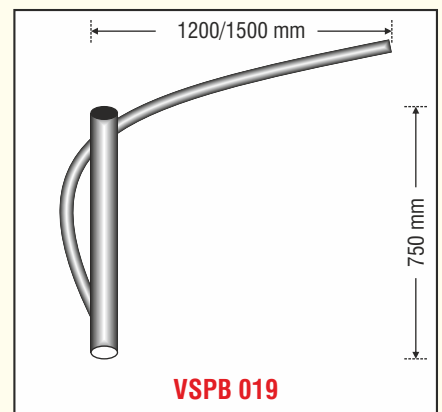
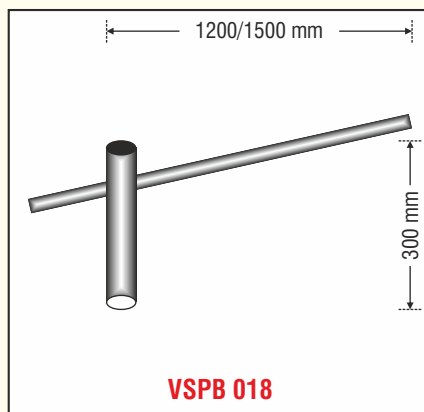
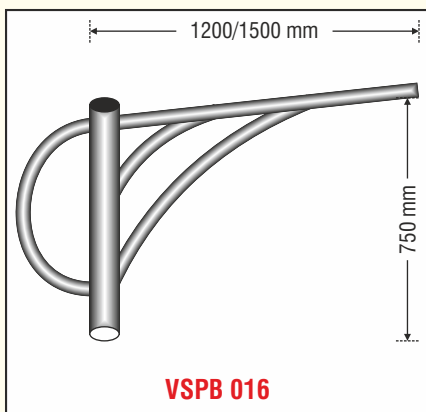
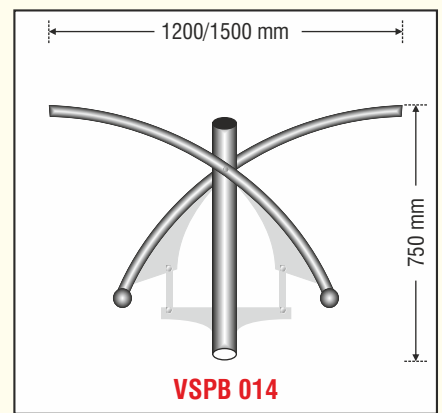
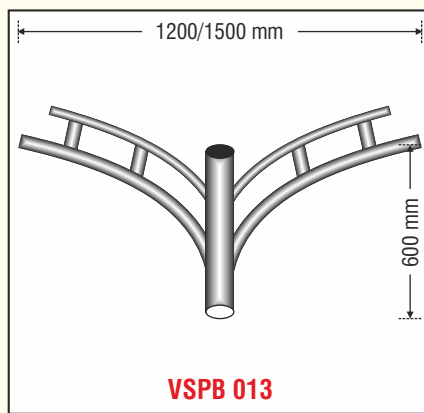
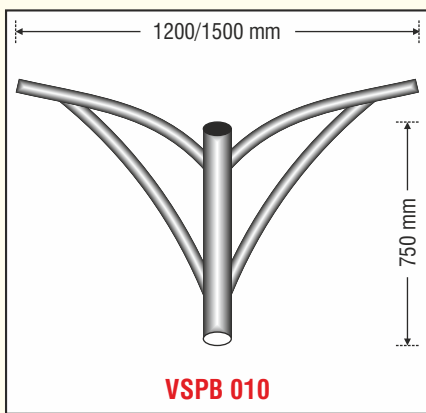
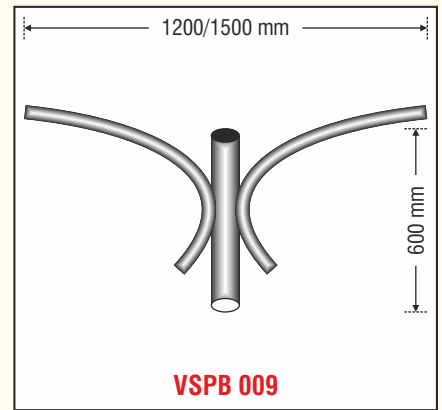
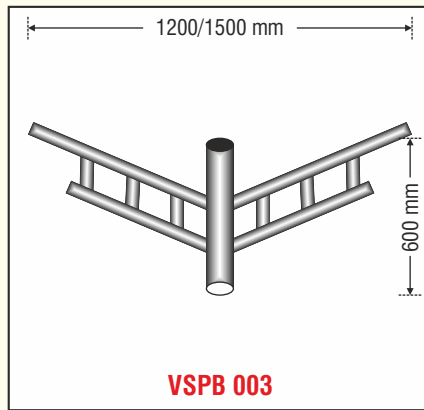
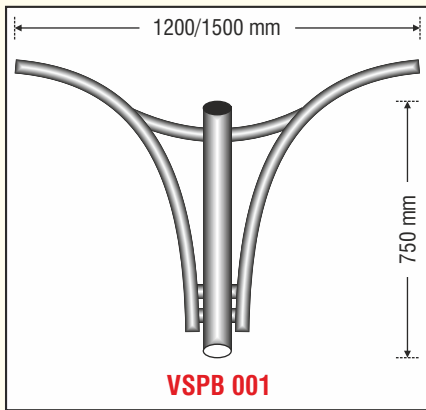
We used quality materials in the manufacturing process for significant impact on the durability and performance of the stadium high mast and signage pole. We always make sure to use high-quality materials and designed to withstand harsh weather conditions, resist corrosion and maintain their structural integrity over time.

High Mast are tall structures that need to be designed and manufactured with safety in mind. We are followed all relevant safety regulations and standards and use appropriate safety equipment during the manufacturing process.

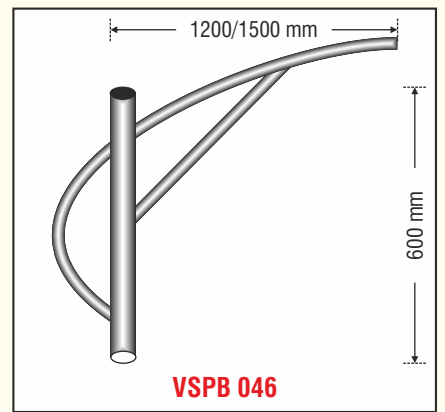
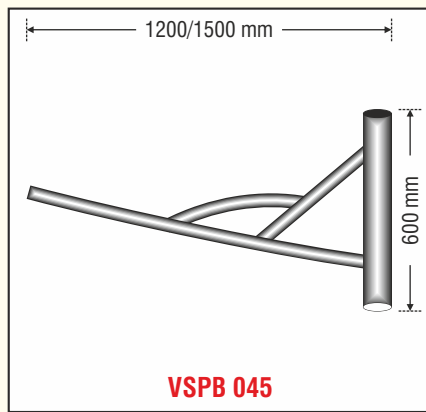
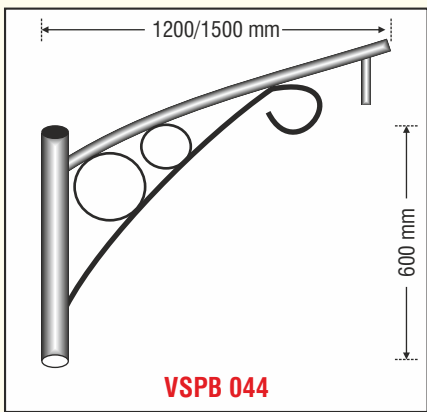
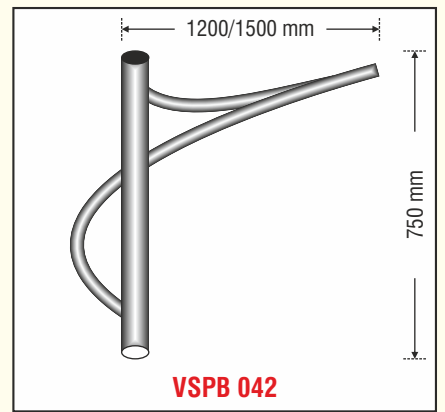
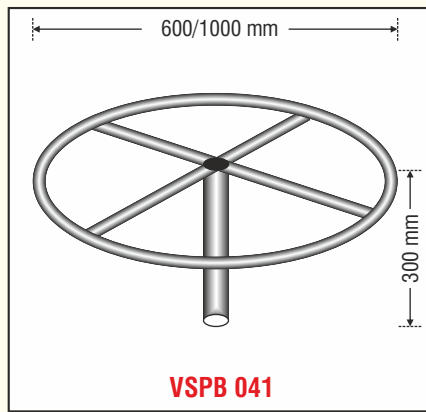
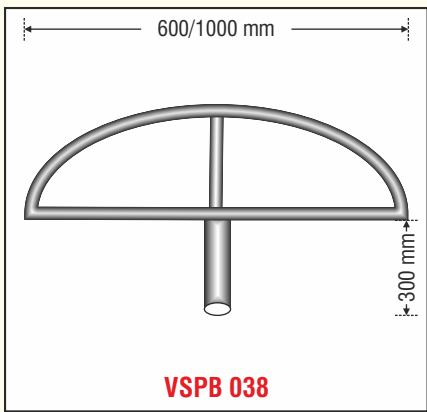
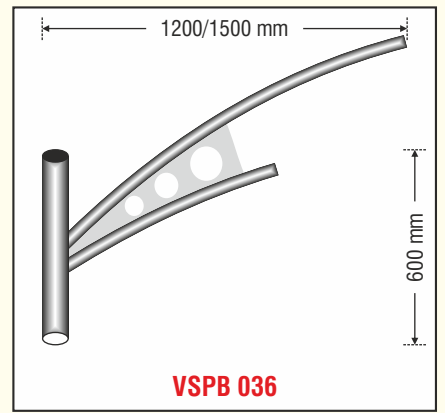
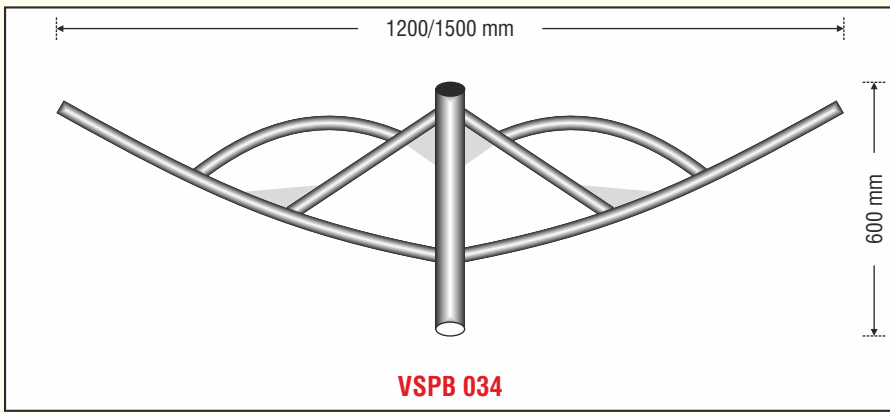
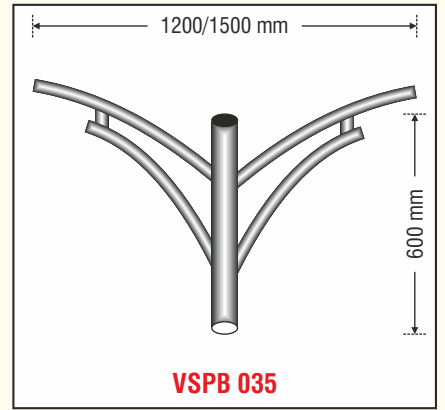
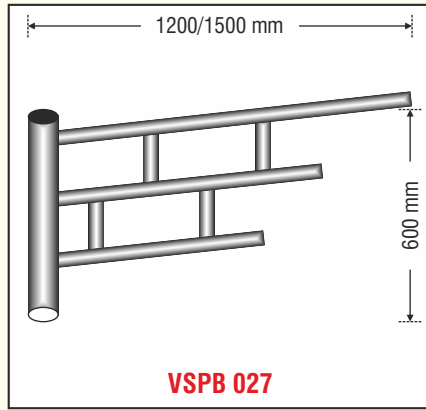
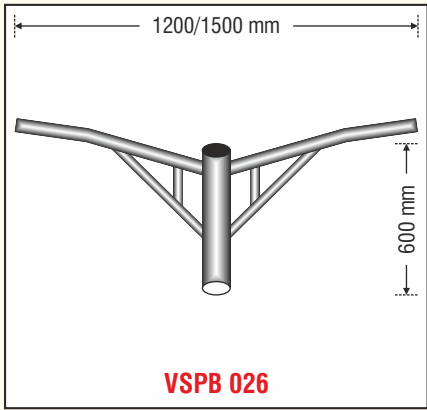


## SIGNAGE POLE

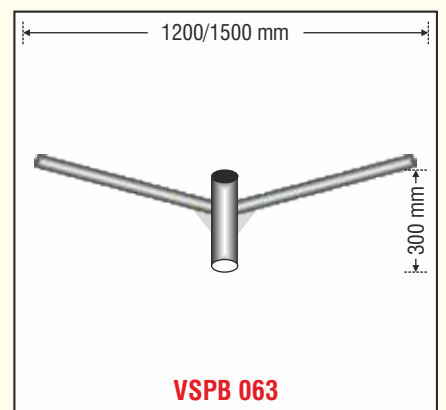
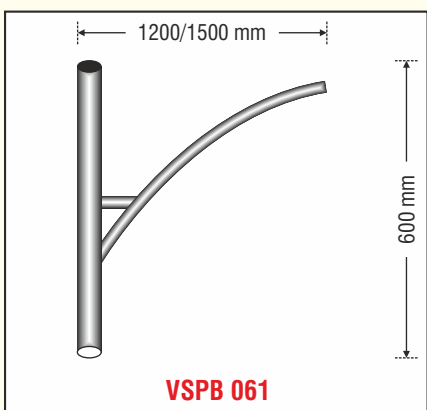
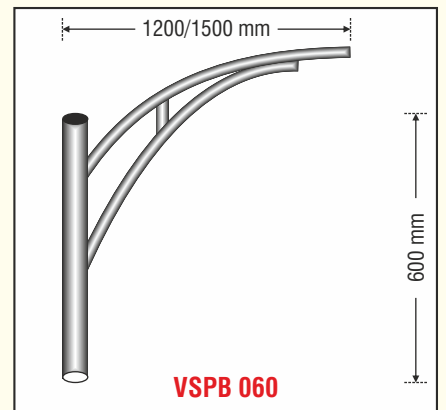
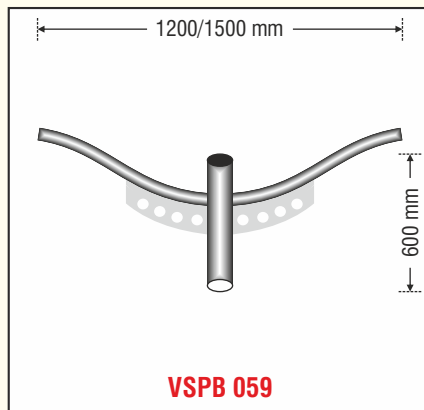
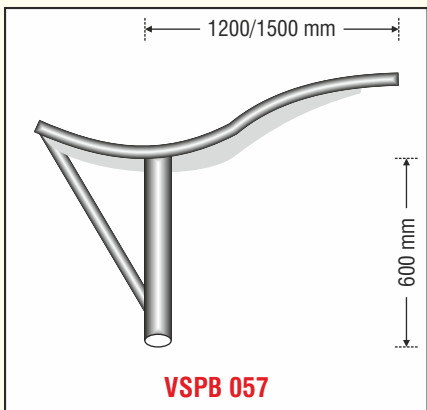
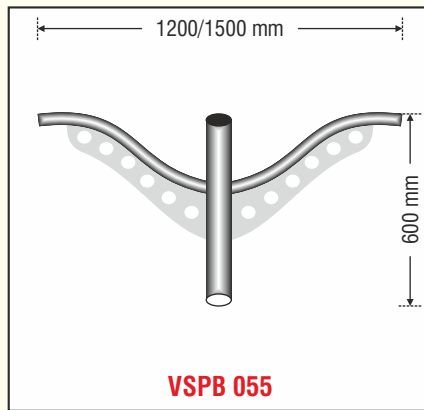
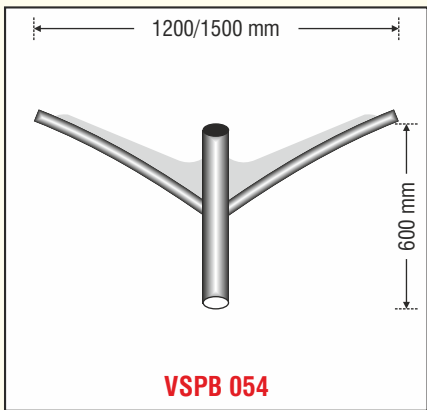
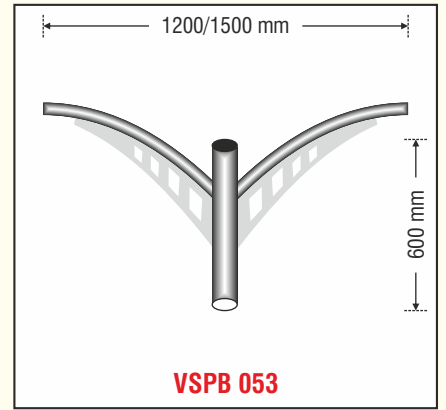
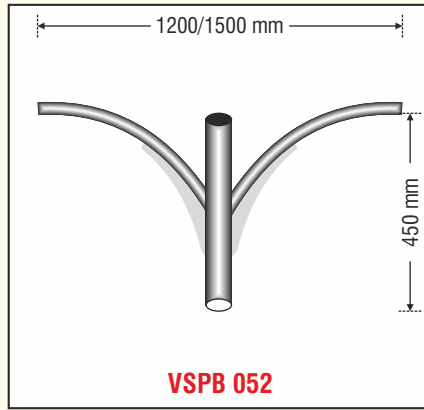
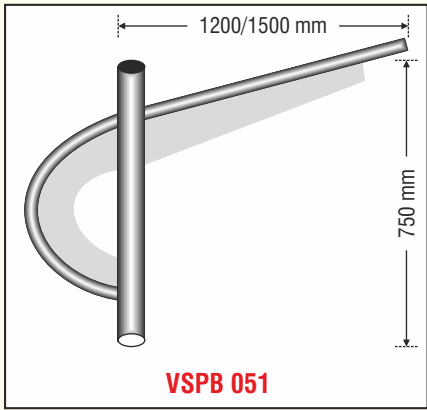
# DECORATIVE BRACKETS



# DECORATIVE BRACKETS



# DECORATIVE BRACKETS





## SWAGED STEEL TUBULAR 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.
- 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.

### AS PER IS : 2713 (PART-II) 1980

DESIGNATION	OVER ALL LENGTH	PLANT-ING DEPTH	LOAD APPLIED FROM TOP DISTANCE	HEIGHT ABOVE GROUND H	LENGTH OF SECTIONS			OUTSIDE DIAMETER & THICKNESS OF SECTIONS			APPROX WEIGHT OF POLE
					BOTTOM H <sub>3</sub>	MIDDLE H <sub>2</sub>	TOP H <sub>1</sub>	BOTTOM	MIDDLE	TOP	
1	2 (Mtr.)	3 (Mtr.)	4 (Mtr.)	5 (Mtr.)	6 (Mtr.)	7 (Mtr.)	8 (Mtr.)	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
410SP – 24	8.50	1.50	0.30	7.00	5.00	1.75	1.75	165.1x5.40	139.7x4.50	114.3x3.65	158

# SWAGED STEEL TUBULAR POLES

AS PER IS : 2713 (PART - II) 1980

DESIGNATION	OVER ALL LENGTH	PLANT-ING DEPTH	LOAD APPLIED FROM TOP DISTANCE	HEIGHT ABOVE GROUND H	LENGTH OF SECTIONS			OUTSIDE DIAMETER & THICKNESS OF SECTIONS			APPROX WEIGHT OF POLE
					BOTTOM H <sub>3</sub>	MIDDLE H <sub>2</sub>	TOP H <sub>1</sub>	BOTTOM	MIDDLE	TOP	
1	2 (Mtr.)	3 (Mtr.)	4 (Mtr.)	5 (Mtr.)	6 (Mtr.)	7 (Mtr.)	8 (Mtr.)	9 (MM)	10 (MM)	11 (MM)	12 (Kg.)
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	0.60	8.20	5.20	2.40	2.40	165.1x5.40	139.7x4.50	114.3x3.65	178
410SP – 46	10.00	1.80	0.60	8.20	5.20	2.40	2.40	193.7x4.85	165.1x4.50	139.7x4.50	208
410SP – 47	10.00	1.80	0.60	8.20	5.20	2.40	2.40	193.7x5.40	165.1x4.50	139.7x4.50	221
410SP – 48	10.00	1.80	0.60	8.20	5.20	2.40	2.40	193.7x5.90	165.1x4.50	139.7x4.50	233
410SP – 49	11.00	1.80	0.60	9.20	5.60	2.70	2.70	139.7x4.50	114.3x4.50	88.9x3.25	140
410SP – 50	11.00	1.80	0.60	9.20	5.60	2.70	2.70	139.7x4.85	114.3x4.50	88.9x3.25	147
410SP – 51	11.00	1.80	0.60	9.20	5.60	2.70	2.70	139.7x5.40	114.3x5.40	88.9x3.25	164
410SP – 52	11.00	1.80	0.60	9.20	5.60	2.70	2.70	165.1x4.50	139.7x4.50	114.3x3.65	175
410SP – 53	11.00	1.80	0.60	9.20	5.60	2.70	2.70	165.1x4.85	139.7x4.50	114.3x3.65	183
410SP – 54	11.00	1.80	0.60	9.20	5.60	2.70	2.70	165.1x5.40	139.7x4.50	114.3x3.65	194
410SP – 55	11.00	1.80	0.60	9.20	5.60	2.70	2.70	193.7x4.85	165.1x4.50	139.7x4.50	227
410SP – 56	11.00	1.80	0.60	9.20	5.60	2.70	2.70	193.7x5.40	165.1x4.50	139.7x4.50	241
410SP – 57	11.00	1.80	0.60	9.20	5.60	2.70	2.70	193.7x5.90	165.1x4.85	139.7x4.50	256
410SP – 58	12.00	2.00	0.60	10.00	5.80	3.10	3.10	165.1x4.50	139.7x4.50	114.3x3.65	186
410SP – 59	12.00	2.00	0.60	10.00	5.80	3.10	3.10	165.1x4.85	139.7x4.50	114.3x3.65	197
410SP – 60	12.00	2.00	0.60	10.00	5.80	3.10	3.10	165.1x5.40	139.7x4.50	114.3x3.65	208
410SP – 61	12.00	2.00	0.60	10.00	5.80	3.10	3.10	193.7x4.85	165.1x4.50	139.7x4.50	245
410SP – 62	12.00	2.00	0.60	10.00	5.80	3.10	3.10	193.7x5.40	165.1x4.50	139.7x4.50	259
410SP – 63	12.00	2.00	0.60	10.00	5.80	3.10	3.10	193.7x5.90	165.1x4.85	139.7x4.50	277

# SWAGED STEEL TUBULAR POLES

AS PER IS : 2713 (PART - II) 1980

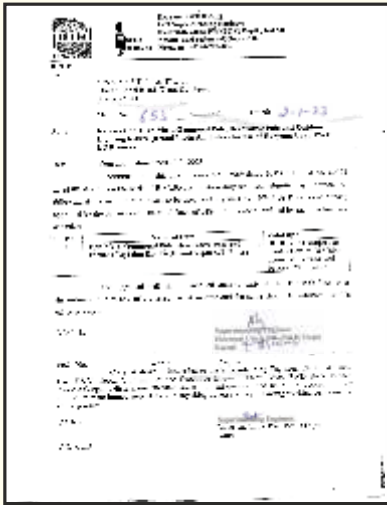
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					BOTTOM H <sub>3</sub>	MIDDLE H <sub>2</sub>	TOP H <sub>1</sub>	BOTTOM	MIDDLE	TOP	
1	2 (Mtr.)	3 (Mtr.)	4 (Mtr.)	5 (Mtr.)	6 (Mtr.)	7 (Mtr.)	8 (Mtr.)	9 (MM)	10 (MM)	11 (MM)	12 (Kg.)
410SP – 64	12.00	2.00	.60	10.00	5.80	3.10	3.10	219.1x4.85	193.7x4.85	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	193.7x4.85	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

## TOLERANCES

1. OUTSIDE Diameter	+ 1%	4. Weight	
2. Thickness	+ Not Limited	For bulk supplies	7.5 %
	- t 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 1/1600of its length.	

- Based on the assumption that steel weights 7.85g/cm<sup>3</sup>\* 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 +10mm.
- 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%.

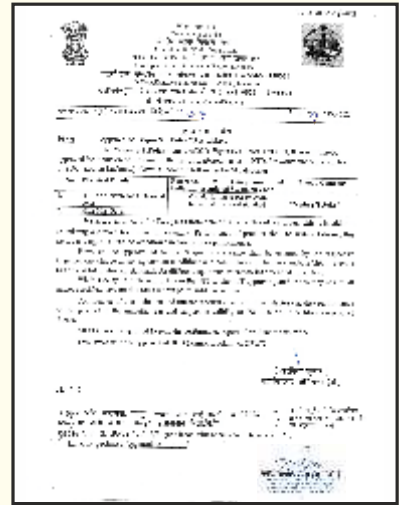
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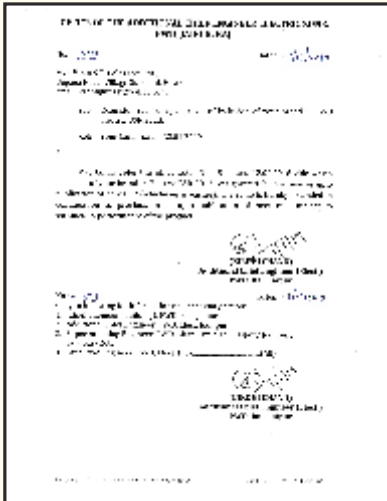
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Karnal, Haryana



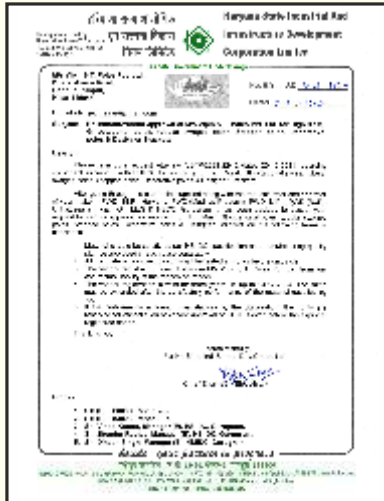
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Inderprasth, New Delhi



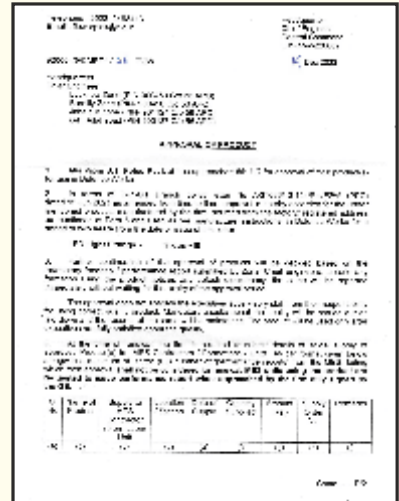
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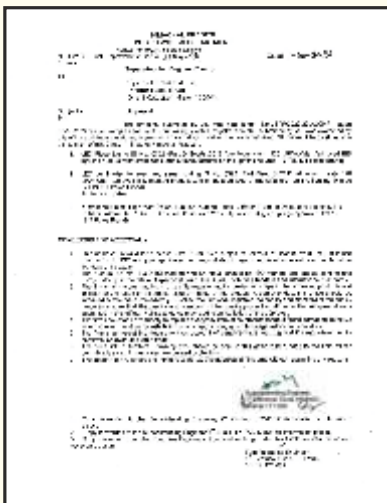
**PUBLIC WORKS DEPARTMENT**  
Jaipur, Rajasthan



**HSIIDC LIMITED**  
Gurugram, Haryana



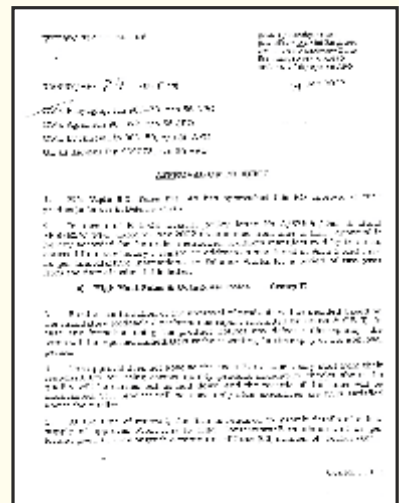
**HQ CHIEF ENGINEER CENTRAL COMD.**  
Lucknow, Uttar Pradesh



**PUBLIC WORKS DEPARTMENT**  
Shimla, Himachal Pradesh

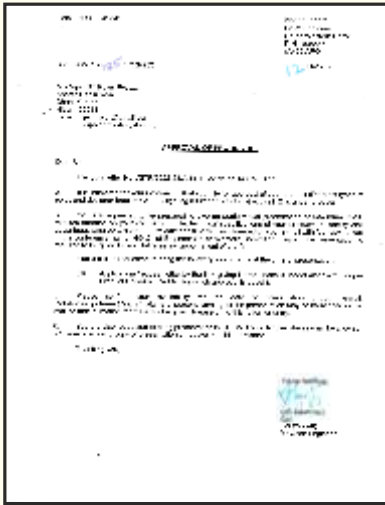


**UTTAR PRADESH RAJKIYA NIRMAN NIGAM LIMITED**  
Lucknow, Uttar Pradesh

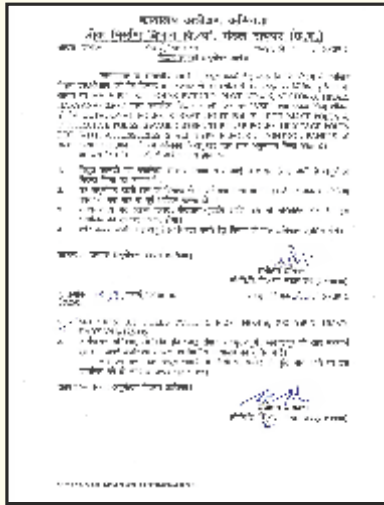


**HQ CHIEF ENGINEER LUCKNOW ZONE**  
Lucknow, Uttar Pradesh

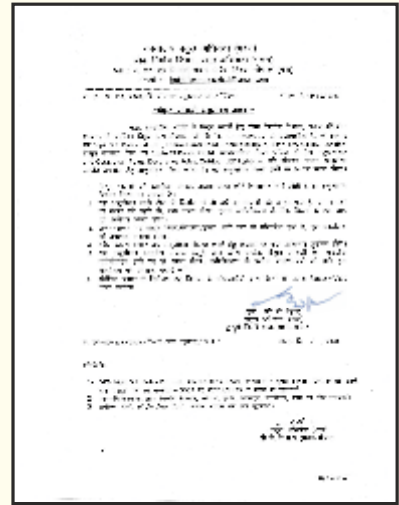
# APPROVALS



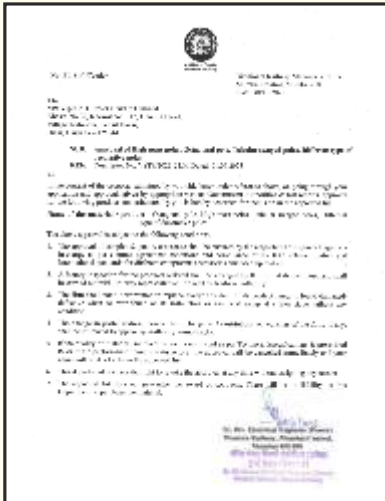
**HQ CHIEF ENGINEER SOUTH WESTERN COMD.**  
Jaipur, Rajasthan



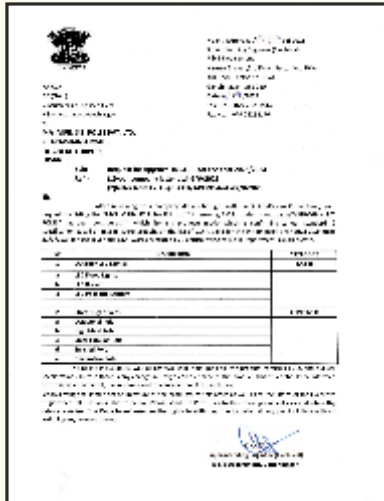
**LOK NIRMAN VIBHAG**  
Raipur, Chhattisgarh



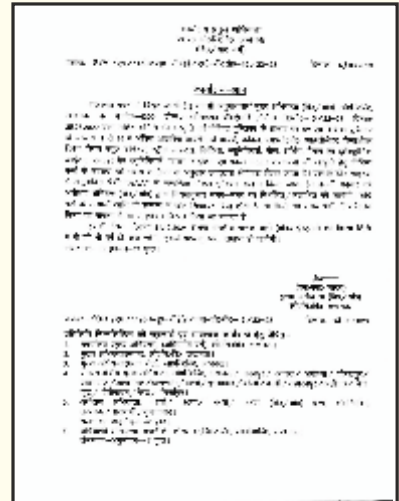
**LOK NIRMAN VIBHAG, ARERA HILLS**  
Bhopal, Madhya Pradesh



**DIVISIONAL RAILWAY MANAGER**  
Mumbai Central, Maharashtra



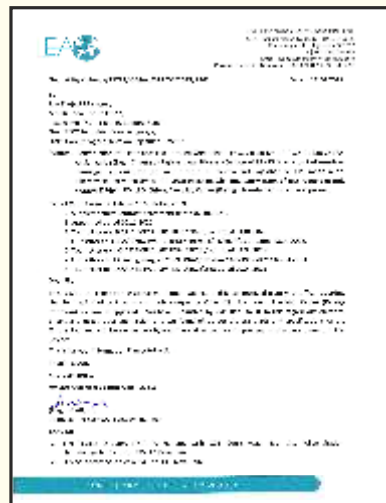
**ROAD & BUILDING DEPARTMENT**  
Gandhinagar, Gujarat



**PUBLIC WORKS DEPARTMENT**  
Lucknow, Uttar Pradesh



**HIGHWAY ENGINEERING, ABOHAR**  
Ludhiana, Punjab



**LEA ASSOCIATION SOUTH ASIA PVT. LTD.**  
Hanumangarh, Rajasthan

# LICENSE & ISO CERTIFICATES

RIP ID : 34526  
Application ID : 87226 Issued On: 03-04-2023

CHIEF INSPECTOR OF FACTORIES, HARYANA

## REGISTRATION & LICENSE TO WORK A FACTORY

IMPROVE THE OPERATIONAL INPUT PRODUCTIVITY WITH SOCIAL JUSTICE  
LABOUR DEPARTMENT HARYANA  
श्रमिक शान्ति और सुरक्षा  
PEACE, HARMONY AND SAFETY

License is hereby granted to

Occupier Details  
Sh./Smt. Vipin Goyal

Factory Details  
M/s Vipin S.T. Poles Pvt. Ltd.

Plant Name  
HARASRA NO. 36, KHEWAT NO. 342, DHANI KHARAD, VILLAGE KUTUBPUR, TEHSIL HANSI, HISAR - 125044

License Registration No. HSR-ONLINE-CHD-V-486  
License Serial No. HSR-ONLINE-CHD-V-487

valid only for the premises described below for use as a factory employing not more than 100 persons on any one day during the year and using motive power not exceeding 35 HP subject to the provisions of the Factories Act, 1946, and the Rules made thereunder.

The licence shall remain in force till the 31st day of December, 2023.

ADISH-HSR

Digitally Signed By SUNIL KUMAR KHURANA  
LABOUR DEPARTMENT HARYANA  
BAYS BUILDING CHANDIGARH  
CHANDIGARH Inspector of Factories  
Haryana, Chandigarh

DESCRIPTION OF THE LICENCED PREMISES  
The licensed premises shown on Building Plans approved vide No. TDP/13644 Dated-05-01-2023 are situated at the address given above and consist of building as per approved drawings.

DIRECTORATE OF INDUSTRIAL SAFETY & HEALTH  
LABOUR DEPARTMENT HARYANA, CHANDIGARH

**CERTIFICATE**  
This is to certify that

VIPIN S.T. POLES PVT. LTD.  
KHASRA NO. 36, KHEWAT NO. 342, DHANI KHARAD, VILLAGE KUTUBPUR, TEHSIL HANSI, HISAR - 125044 HARYANA

has been independently assessed and is compliant with the requirements of

**ISO 9001:2015**  
(Quality Management System)

This certificate is applicable to the following product or service category:

DESIGN, MANUFACTURING AND MARKETING OF OCTAGONAL POLES, HIGH MAST POLES, STREET LIGHT POLES, SWAGED STEEL TUBULAR POLES, HERITAGE POLES, DECORATIVE POLES, OUTDOOR LIGHTING FIXTURES ETC. WITH ACCESSORIES & ALL TYPE ELECTRIC CONTROL PANELS.

Certificate No.: SPC/120/034  
Date of issue: 03/04/2023  
Date of the Certificate: 03/04/2023  
Date of Expiry: 28/11/2025

Authorised Signatory:  
BP Certification Limited  
130, Old Street, London, EC1Y 1SP, U.K.  
Email: info@spccertification.co.uk  
www.spccertification.co.uk  
Company No. 1188116

Approved by:  
AFIST  
SPC

Approved by Government of India (Ministry of Labour) (1946-F-101)  
This certificate is issued in compliance with the requirements of the ISO 9001:2015 standard. The certificate is valid only for the scope and conditions mentioned above. To check validity of this certificate please visit www.spccertification.co.uk and www.afist.org

**Certificate**  
This is to certify that

VIPIN S.T. POLES PRIVATE LIMITED  
KHASRA NO. 36, KHEWAT NO. 342, DHANI KHARAD, VILLAGE KUTUBPUR, TEHSIL HANSI, HISAR, HARYANA - 125044, INDIA

Has been found in compliance with requirement of Occupational Health and Safety Standard

**ISO 45001:2018**  
For The Following Scope:

"DESIGN, MANUFACTURING AND MARKETING OF OCTAGONAL POLES, HIGH MAST POLES, STREET LIGHT POLES, SWAGED STEEL TUBULAR POLES, HERITAGE POLES, DECORATIVE POLES, DECORATIVE BRACKETS, OUTDOOR & INDOOR LIGHTING FIXTURES, WITH ACCESSORIES & ALL TYPE ELECTRIC CONTROL PANELS."

Certificate No.: UKAS/0050267/0001  
Original Certificate Date: 23/11/2018  
Issue Date: 23/11/2018  
Expiry Date: 23/11/2021

Authorised Signatory: Anand Kumar

International Standards Certification  
UKAS  
ISO 45001  
AFIST  
SPC

**CERTIFICATE**  
This is to certify that

VIPIN S.T. POLES PVT. LTD.  
KHASRA NO. 36, KHEWAT NO. 342, DHANI KHARAD, VILLAGE KUTUBPUR, TEHSIL HANSI, HISAR - 125044 HARYANA

has been independently assessed and is compliant with the requirements of

**ISO 14001:2015**  
(Environmental Management System)

This certificate is applicable to the following product or service category:

DESIGN, MANUFACTURING AND MARKETING OF OCTAGONAL POLES, HIGH MAST POLES, STREET LIGHT POLES, SWAGED STEEL TUBULAR POLES, HERITAGE POLES, DECORATIVE POLES, OUTDOOR LIGHTING FIXTURES ETC. WITH ACCESSORIES & ALL TYPE ELECTRIC CONTROL PANELS.

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# OUR ESTEEMED CLIENTS

## CENTRAL GOVERNMENT DEPARTMENTS



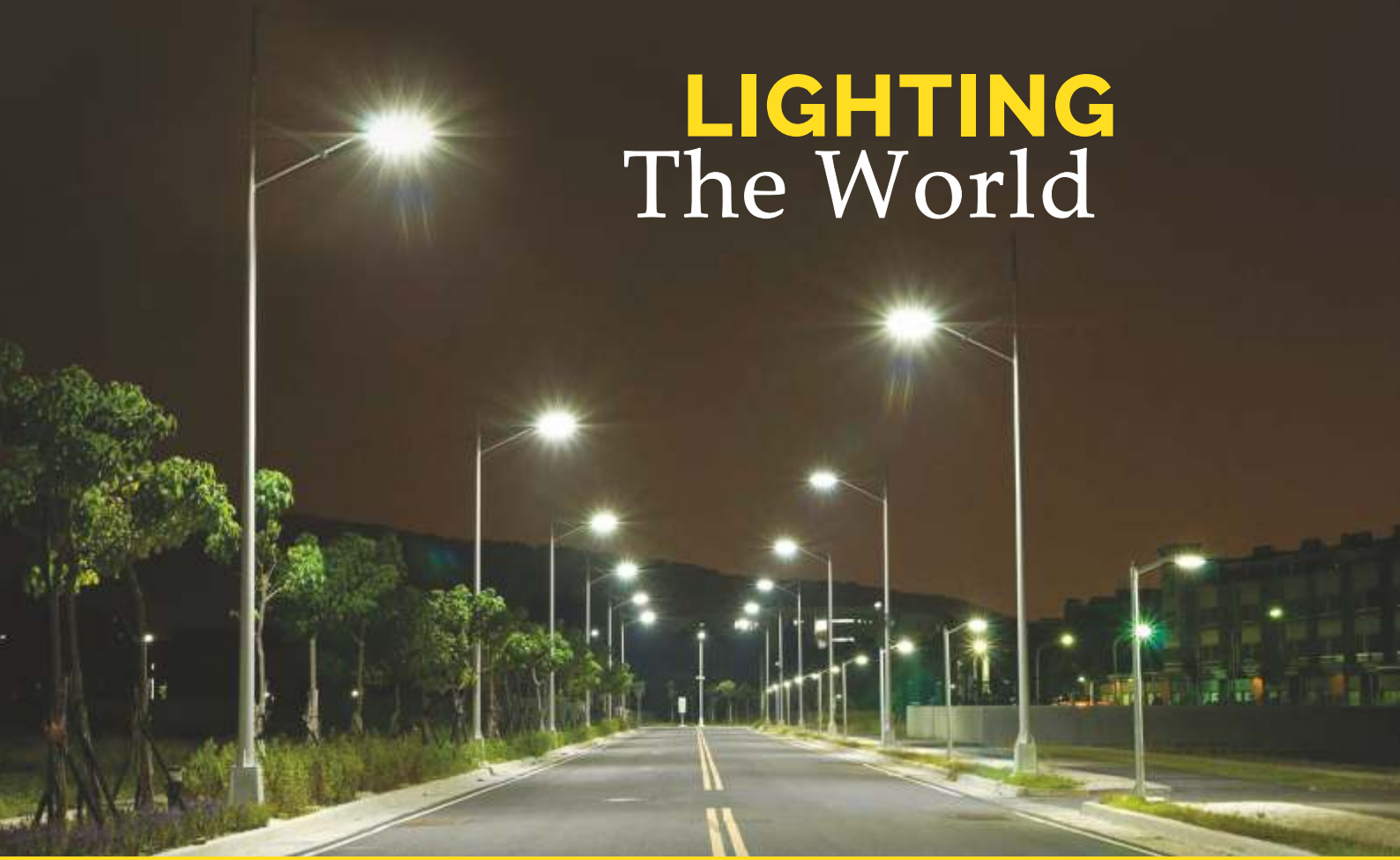
## STATE GOVERNMENT DEPARTMENTS



## PRIVATE SECTOR UNITS



# LIGHTING The World



## MANUFACTURER OF

- ❖ Octagonal Poles
- ❖ High Mast Poles
- ❖ Flag Mast Poles
- ❖ Stadium Mast
- ❖ Swaged Poles
- ❖ Cantilever Poles
- ❖ Solar Light Poles
- ❖ Cast Aluminum/ Cast Iron & Ornamental Decorative Poles
- ❖ Decorative Brackets
- ❖ LED Outdoor Lighting
- ❖ LED Indoor Lighting
- ❖ Bollard Luminaires
- ❖ Facade Lighting
- ❖ Electrical Control Panel
- ❖ Pre Engineered Buildings
- ❖ Gantry Structures



## VIPIN S.T. POLES PVT. LTD.

**REGD. OFF./WORKS:** Hansi-Kharar Road, Vill. Kutubpur, Hisar-125044 (Hry.)

**WAREHOUSE :** Lucknow (UP) & Jaipur (Raj.)

**CUSTOMER SUPPORT :** 1800 121 6921, 01662-227720

✉ [info@vsphighmast.com](mailto:info@vsphighmast.com), [support@vsphighmast.com](mailto:support@vsphighmast.com) | [gechissar@gmail.com](mailto:gechissar@gmail.com) | [www.vsphighmast.com](http://www.vsphighmast.com)

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