

UTKARSH INDIA LIMITED

(Formerly Utkarsh Tubes & Pipes Limited)

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TURN OVER TO LIGHT...



High Mast, Polygonal/ Conical Poles & Steel Tubular Poles | Polymer Products | Steel Tubes, Pipes & Poles |
Metal Beam Crash Barrier | Railway Electrification Structures | Transmission Line Towers & Substation Structures

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Expanding to Global Expectations

Born in India, Utkarsh India Ltd. is a front-running enterprise that spreads aspiring wings to respond to the global demands of life. The company is now operating in six verticals, namely:

- **High Mast, Polygonal/Conical Poles & Steel Tubular Poles**
- **Polymer Products**
- **Steel Tubes, Pipes & Poles**
- **Metal Beam Crash Barrier**
- **Railway Electrification Structures**
- **Transmission Line Towers & Substation Structures**

Deeply imbuing the Indian philosophy '**customer is the king**', it's all set to mortgage itself to conquer the confidence of global customers, thus making its dream of emerging as a major global company come true.

Making the Future of Light Really Bright...

Utkarsh offers turnkey solutions for the following types of Steel Towers & Structures in the field of outdoor illumination.

- **Lighting Mast** - Manufacturing range from 10m to 40m
- **Street Lighting pole** - Manufacturing range starts from 3m and can be manufactured as required by the customer and locations
- **Decorative Lighting Pole** - The manufacturing range starts from 3m and can be manufactured as per customers' requirements
- **Camera pole** - Can be manufactured as per customers' requirement
- **Distribution pole** - Can be manufactured as per customers' requirement
- **Flag Mast** - Manufactured as per customers' requirement
- **Smart Pole** - Can be designed as per technological requirement with arrangement for fixing all types of electrical and electronic devices

Sold

25,000 Lighting Masts &
500,000 Lighting Poles

Mission

To deliver world class products at competitive prices, on demand as well as provide superior service to customers by developing leading-edge solutions in technology and processes, providing opportunities for inclusive growth for our employees, by nurturing human resource, so that all our partners can share the pride of success.

Vision

To be an industry benchmark across all verticals, while becoming the supplier of choice, delivering premium products and services, creating value with our customers and demonstrating high ethical standards.

The Identity

Utkarsh, as the name suggests, is a responsive business house serving the basic demands of life and committed to making the quality of life better. The brand statement 'life demands, we deliver' confers its corporate identity an exalted image reflecting dynamism, capability, commitment, empathy, consistency and continuity. The embedded philosophy is the responsiveness to the ever-changing demands of life. The new logo of Utkarsh, with a bold font represents strength and growth. The dynamic vision of growth with which we have been striding ahead towards the challenges of life is captured in the swoosh. It reflects a more youthful and futuristic image of ours and our strong, sturdy and bold attitude in delivering the best. The green represents 'life and its newer demands,' while the blue reflects technology and corporate commitment. The coming together of these two elements is symbolic of the effective way in which we have been responding to the several requirements of life of with an arsenal of technology and collective corporate dedication.





MD Speaks

We have reached out with Brand Offerings to global markets, a major step in strengthening leadership status, PAN India.

Dear Friends,

"Growth is the only evidence of life"- a quote by John Henry Newman is something our ideals completely correspond with. Hence, we have transitioned into becoming Utkarsh India Limited from Utkarsh Tubes and Pipes Ltd., widening our horizons into providing infrastructural solutions. And I firmly believe that a nation grows when its infrastructures grow, hence it is a humble step in that direction.

We have been making our way into more lives by providing our services and products at good value. We, at Utkarsh have branched out to different infrastructural arenas like telecom towers, transmission line towers, substation structures, poles and masts for lighting and distribution, road crash barriers, railway electrification structures and polymer products. Empowered with this diversification, Utkarsh India Limited has taken a step further and gone global, aiding in infrastructural development across several countries. This is a distinctly proud step for us as our expertise is helping not only add pace to the infrastructural enhancement of the country, but also contributing to the growth of foreign nations.

In the 40 years of our presence, Utkarsh has been scaling the mountains of success which could not have been achieved without a team of the excellent trekkers, who are our employees. This group of innovative, talented

and passionate young people has brought a modern vision into the organization. A strong, experienced management ensures a smooth flow of the inner-workings quite like our pipes do for our customers. This perfect balance between management and co-workers is what gives Utkarsh its efficiency.

Sticking to our corporate ethos- 'Life demands, We deliver,' we bring the strong promise of consistency and reliability ensuring optimum consumer satisfaction. 'Consumer first' is the motto that drives us to bring you quality.

We could have never reached out to the world with our products without the worthy associations of our suppliers, distributors and dealers and my gratitude extends to all of them. I firmly believe that Utkarsh, along with all its associates will emerge as the finest infrastructural brand in the recent future.

Regards,

Sunil Bansal
CMD

Captive High Mast Plant

- We are equipped with CNC operated machines and qualified technical manpower
- We have the in-house facility for the process of pre-galvanization and post-galvanization for better metal protection with 12.5m long GI Bath for single dipping facility which gives better finish to the products
- We have in-house testing facilities with well equipped physical & chemical laboratories
- We have 4 in-house state of the art galvanizing plant

Design Engineering

We have vetted design software to design the mast structure. We use check design stability both for Lighting Masts as well as Lighting Poles using design software developed by us considering the standards.

Reference Codes of Practice:

- IS-800-2007
- IS-875 Part 3
- 196533 Part 2, 1989
- Technical Report No. 7- High Mast for Lighting & CCTV, Inst. of Lighting Engineers, 2003
- BS-5649-1985



Material Specification & Manufacturing Process

Material Specification

- Mast & Pole Shaft BS EN 10025 or equivalent to be UTS-470 to 630 MPa & YST-355 (Min.)
- Base Plate: IS : 2062 to be UTS-410 (Min.) & YST-240 (Min.)
- Foundation Bolts: Special High Tensile MS round confirms to 2062, E250 A. The bolts are threaded by threading machine With help of chaser and threading head
- Galvanizaion: IS : 4759/ISO 1461

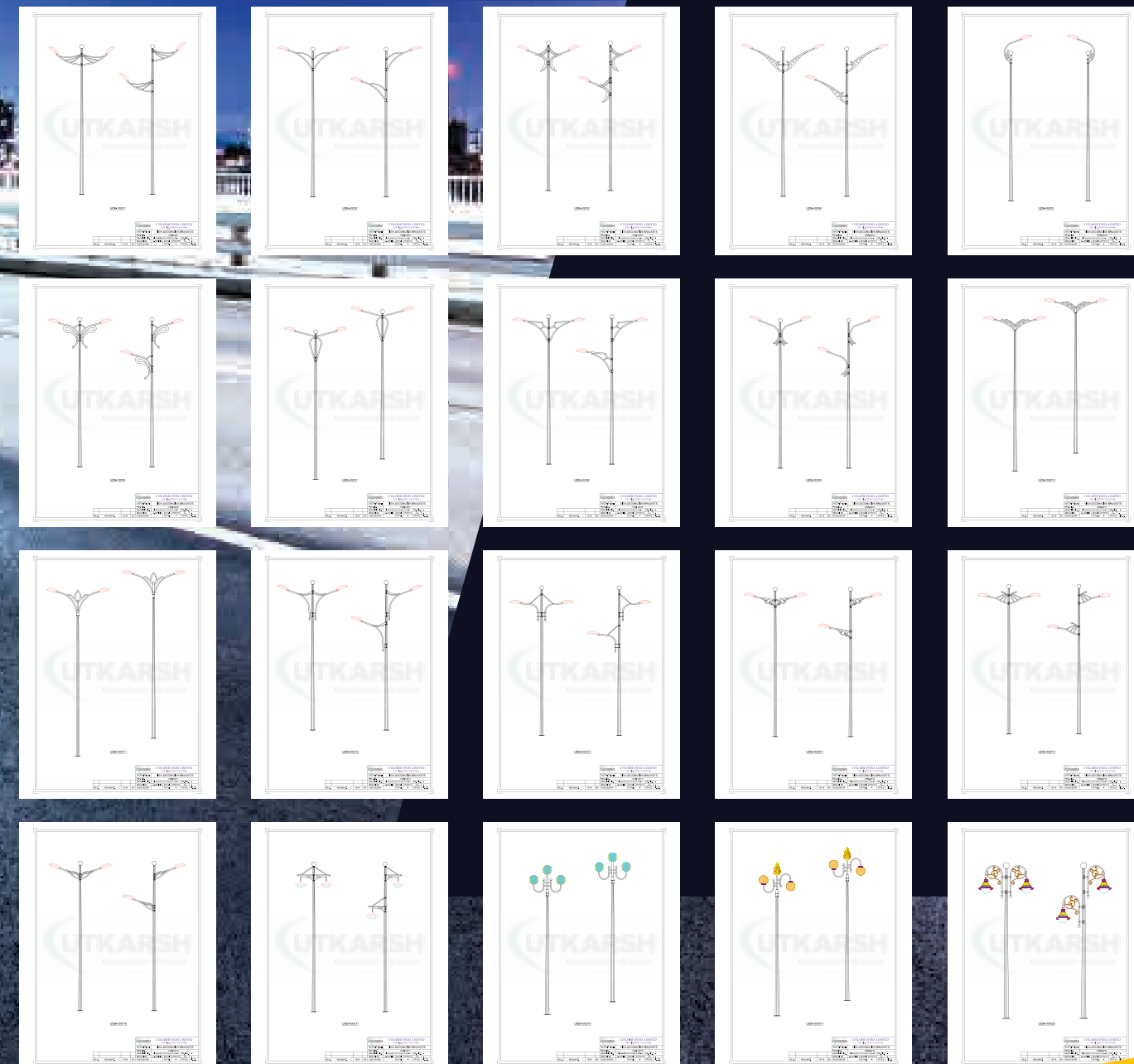
Manufacturing Process

- **Cut to Length:** Decoiling process width- 2200mm, shearing capacity- 8mm, coil loading capacity- 30T
- **Trapezoidal Cutting:** Taper cutting on using CNC plasma cutting M/c (Capacity 14m X 3.5m X 20mm thick by plasma & 150mm thick by Oxy Flame)
- **CNC Press Break:** Bending to polygonal capacity- 13m Long & 8mm Thick
- **Welding:** Longitudinal butt welding on using CNC Pole closing machine
- **Grinding:** The grinding work is done to give better surface finish
- **Base Plate Fitting:** Base Plates are welded at the bottom of the Pole Shaft to convert them into pole
- **Door Fitting:** Doors are fitted generally at 500mm projection of the Base Plates to place all the electrical accessories inside the Pole Shaft
- **Galvanization:** Galvanization done by seven tank process in single hot dipping method. Our Zinc Bath of 12.25m (L) X 1.05m (W) X 1.25m (D) is capable of single hot-dip galvanizing which ultimately gives better finish
- **Straightening & Finishing:** Straightening of pole done after galvanization with the help of straightening machine. Final finishing and fittings of electrical accessories done after the completion of straightening of the poles
- **Loading and Dispatch:** The loading is done by EOT cranes with trained person for loading. The materials are dispatched after proper loading and complete documentation

Product Range and Application

- **Lighting Mast** - Manufacturing range from 10m to 40m
The Lighting Mast are generally used for outdoor illumination like area lighting, yard lighting etc.
- **Street Lighting Pole** - Manufacturing range starts from 3m and can be manufactured according the customer and location. The Street lighting poles are generally used for road and street illumination purposes
- **Decorative Lighting Pole** - The manufacturing range starts from 3m and can be manufactured as per customers' requirement. These type of poles are used for decorative illumination in gardens, monuments, shopping complexes etc.
- **Camera Pole** - Can be manufactured as per customers' requirement. These type of poles are used for CCTV surveillance, toll plaza etc.
- **Distribution Pole** - Can be manufactured as per customers' requirement. These type of poles are used for distribution of electricity
- **Flag Mast** - Manufactured as per customers' requirement
- **Smart Pole** - Can be designed as per technological requirement with arrangement for fixing of all types of electrical and electronic devices

Decorative Poles



Technical Data & Drawings

Design & Detailed Engineering

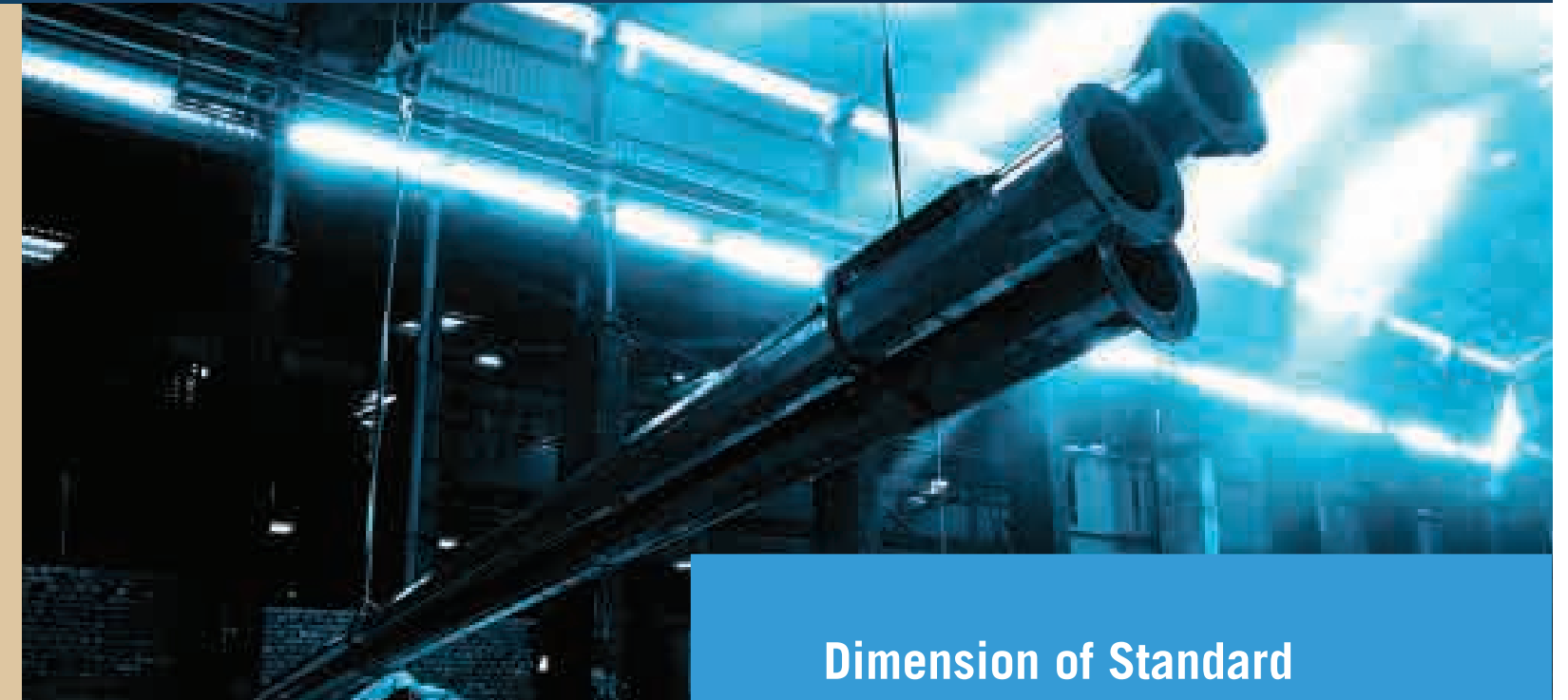
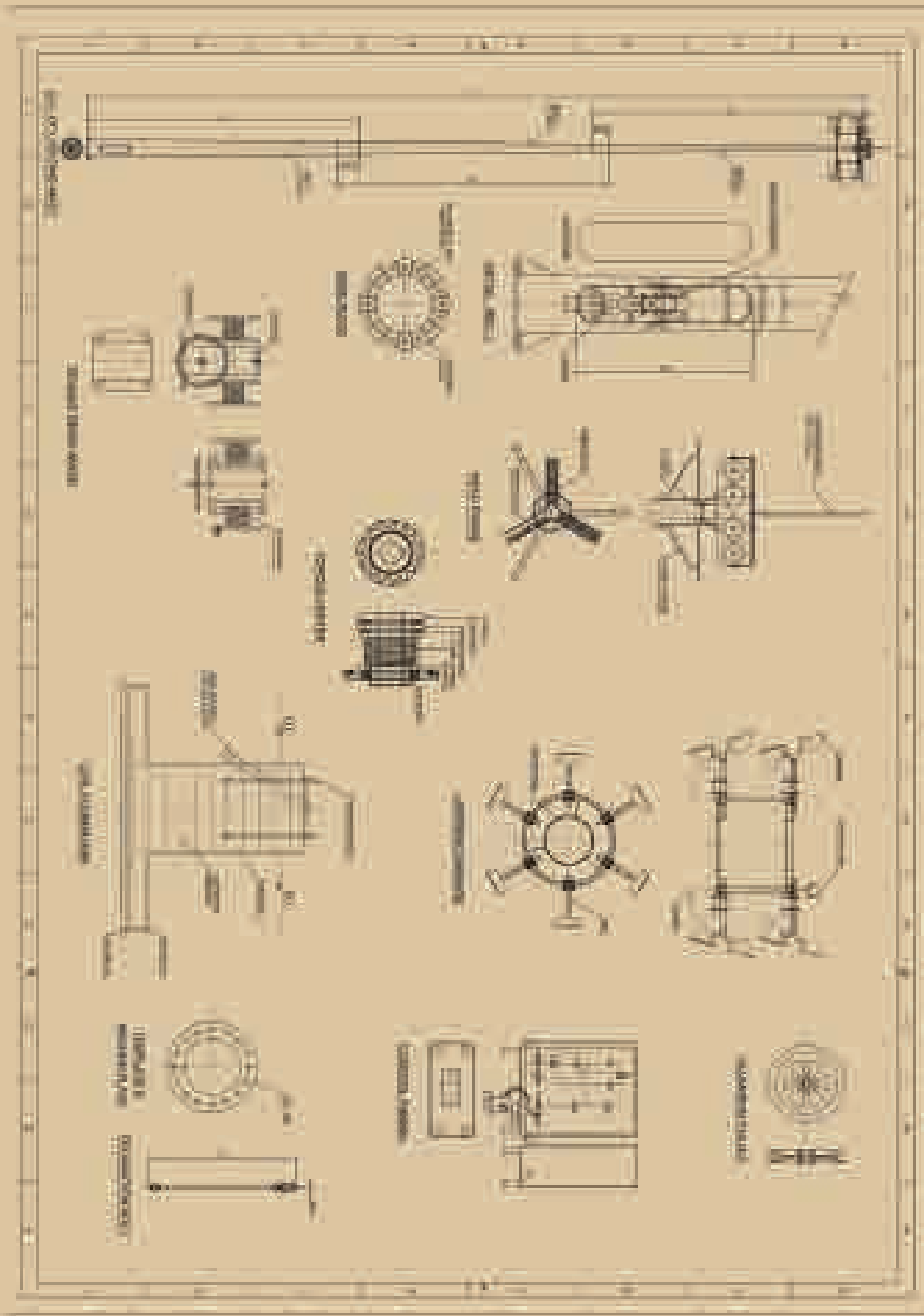
- Design: Structural and civil
- Drawing: Structural, civil and electrical
- In-house capability for designing the mast structure and its electrical accessories
- Project planning and execution

Dimension of Standard Polygonal Lighting Mast

LIGHTING MAST																		
Sr. No.	Mast Height	Section Details				Top Dia	Bottom Dia	Sheet Thickness			Base Plate Details			Foundation Bolt Details			Luminaries Details	
		Nos. of Section	Sides	Length	Top			Middle	Bottom	Dia	Thickness	PCD	Dia	Length	Nos. of Bolts	Type of Luminaries	Max.Nos. of Luminaries	
	MTRS	NOS	NOS	MM	MM	MM	MM	MM	MM	MM	MM	MM	MM	MM	NOS			
1	10	2	12	5250	150	340	3	x	3	520	25	445	24	750	6	Flood light	6	
2	12	2	12	6250	150	360	3	x	3	520	25	445	24	750	6	Flood light	6	
3	12.5	2	12	6500	150	360	3	x	3	520	25	445	24	750	6	Flood light	6	
4	16	2	20	8300	150	360	3	x	4	520	25	445	30	850	8	Flood light	9	
5	20	2	20	10300	150	410	3	x	4	570	30	490	30	850	8	Flood light	12	
6	25	3	20	9000	150	460	3	4	5	670	30	590	30	850	12	Flood light	12	
7	30	3	20	10600	150	610	4	4	5	840	30	740	32	1200	12	Flood light	12	
8	40	4	20	11000	200	740	4	5,6	8	950	40	850	33	1200	16	Flood light	12	
9	50	5	20	10800	250	800	5	5,6,8	8	1020	45	910	33	1200	20	Flood light	12	

Note: Dimensions are subject to change based on the location of Mast Installation, Luminary Type, Number, Distribution, Soil Condition, Design Life etc.

Technical Data and Drawings



Dimension of Standard Polygonal Lighting Pole

Dimension of Standard Polygonal Lighting Pole

Octagonal Pole															
Sr. No.	Pole Height	Section Details			Top Dia	Bottom Dia	Sheet Thickness	Base Plate Details				Foundation Bolt Details			
		Nos. of Section	Sides	Length				Length	Bredth	Thickness	PCD	Type	Dia	Length	Nos. of Bolts
	MTRS	NOS	NOS	MM	MM	MM	MM	MM	MM	MM	MM		MM	MM	NOS
1	3	1	8	3000	70	130	3	200	200	12	200	J-Type	16	450	4
2	4	1	8	4000	70	130	3	200	200	12	200	J-Type	16	450	4
3	5	1	8	5000	70	130	3	220	220	12	220	J-Type	16	600	4
4	6	1	8	6000	70	130	3	220	220	12	220	J-Type	20	600	4
5	7	1	8	7000	70	135	3	225	225	16	220	J-Type	20	700	4
6	8	1	8	8000	70	135	3	225	225	16	220	J-Type	20	700	4
7	9	1	8	9000	70	155	3	260	260	16	260	J-Type	24	750	4
8	10	1	8	10000	100	200	3	290	290	16	290	J-Type	24	750	4
9	11	1	8	11000	90	210	3	300	300	20	300	J-Type	24	750	4
10	12	1	8	12000	90	230	3	325	325	20	325	J-Type	24	750	4

Note: Dimensions are subject to change based on the location of Pole Installation, Luminary Type, Number, Soil Condition, Design Life etc.



Utkarsh Conical Poles

**The guiding lights
to your home**

In our extensive range of products, we also offer our esteemed clients a broad array of Conical Poles. These poles are manufactured with the help of the latest technology. Our offered poles are provided with hollow polygonal poles having closely circular cross section at both ends and mainly used for street, roadways, pedestrian lightning purpose. Further, these Conical Poles are available in following specifications as per our clients' requirement at market leading prices.

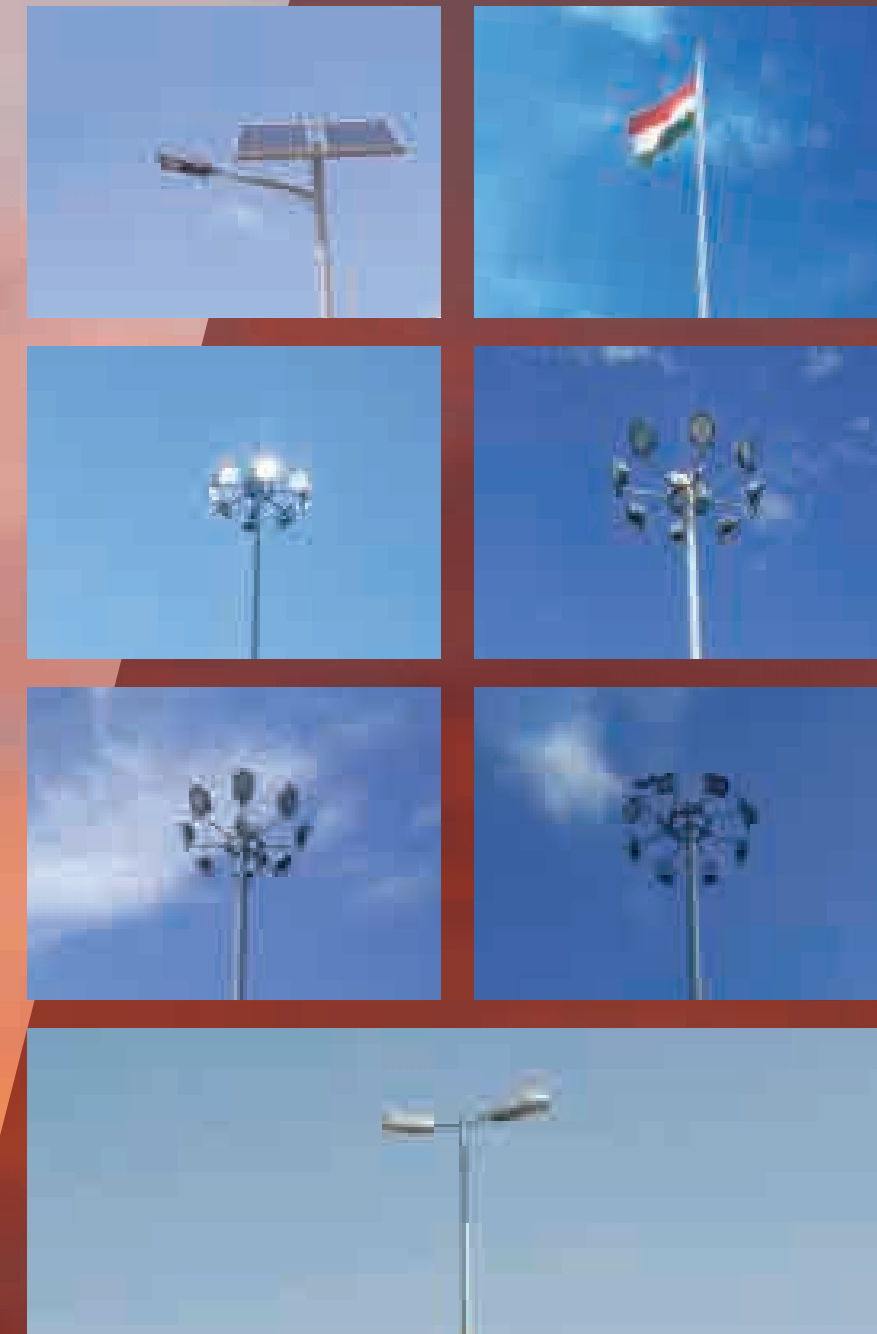
Key Features of Conical Poles

- Easy installation
- Dimensional accuracy
- Rust resistance
- Application specific design

Dimensions of Conical Poles

Sl.	Ht (mm)	Thk (mm)	Top A/F (mm)	Bot A/F (mm)	Base Plate	Pcd	Foundation Bolt	Door Length (Opening)
1.	6000	3	70	142	240 X 240 X 16	240	M20 X 700	350
2.	7000	3	70	154	240 X 240 X 16	240	M20 X 700	400
3.	8000	3	75	171	275 X 275 X 16	275	M20 X 700	400
4.	9000	3	75	183	275 X 275 X 16	275	M24 X 750	500
5.	10000	3	75	195	300 X 300 X 16	300	M24 X 750	500
6.	9000	3	90	198	300 X 300 X 16	300	M24 X 750	500
7.	10000	3	90	210	300 X 300 X 16	300	M24 X 750	500
8.	11000	3	90	222	320 X 320 X 20	320	M24 X 750	500
9.	12000	3	90	234	340 X 340 X 25	340	M24 X 750	500
10.	9000	3	100	208	300 X 300 X 16	300	M24 X 750	500
11.	10000	3	100	220	320 X 320 X 20	320	M24 X 750	500
12.	11000	3	100	232	340 X 340 X 25	340	M24 X 750	500
13.	12000	3	100	244	340 X 340 X 25	340	M24 X 750	500

A strong support towards a brighter future



Quality Benchmarking

Quality Objectives:

Increase customer satisfaction, reduce quality complaint, increase productivity, maximum utilisation of existing resources, increase sales turnover.

In-house Testing:

Raw material testing

Hardness- By hardness tester

Mechanical properties- By Universal Testing Machine (200KN & 600 KN)

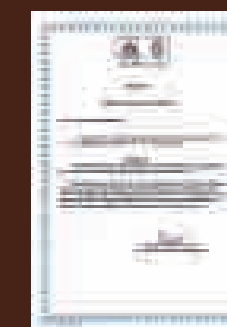
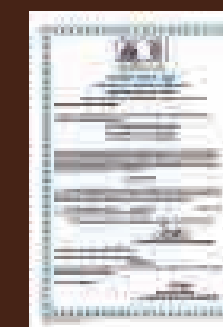
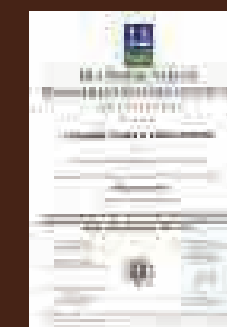
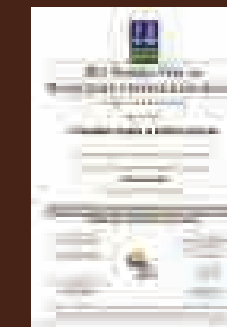
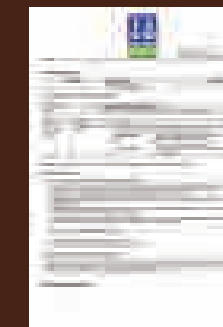
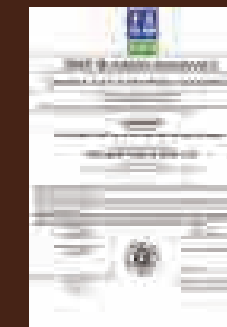
Chemical composition- By Spectrometer

Grain Structure- By Metallurgical Microscope

- Dimensions test- With Steel tape, Vernier, Micrometer
- Galvanizing Coating uniformity & adhesion- With digital coat meter, CuSO₄ solution, knife etc.
- Winch (gear box) load and alignment test- On load testing bed
- Wire rope- On load testing bed
- Cable continuity test- By Multi meter & Meger
- Fitment test- By physical test at works only before dispatch
- Motor Test- Reverse-forward test on testing bed
- Feeder Piller & Control Panel testing- Auto ON/OFF through timer, reverse/forward, load test on test bed

Quality Objective

- Increase in Customers' Satisfaction
- Reduce Quality Complaint (both internal & external)
- Quick delivery of products
- Increase in sales turnover
- Increase in productivity
- Improvement in competence of personnel
- Maximum utilization of existing resources
- To establish a brand image in the market



Corporate Social Responsibility

We, at Utkarsh are to engage in the continual improvement of the occupational health, safety and environment to achieve this the forerunners of the company comply by certain policies.

- Endeavouring to develop the culture of resource conservation and pollution prevention
- Providing expert training and programmes to the concerned personnel who are directly associated with the manufacturing process in this company. Respecting the mother nature and controlling environmental health hazards
- Work as a team in our effort to achieve the objectives of the company

Esteemed Clientele

Utkarsh could win its customers' confidence and achieve steady growth due to certain inherent strengths and special precautions which enabled the company to take timely corrective actions whenever any hurdle arised and the situation warranted.

- INDIAN RAILWAY
- PORT TRUST
- REFINERIES AND OIL SECTOR
- STEEL PLANTS
- NATIONAL HIGHWAY
- MUNICIPAL CORPORATIONS & DEVELOPMENT AUTHORITIES
- POWER PLANTS AND POWER DISTRIBUTION AUTHORITIES
- MILITARY ENGINEERING SERVICES
- CPWD & PWD
- DEVELOPERS & CONSULTANTS
- CORPORATES AND ELECTRICAL CONTRACTORS

Our Prestige

Some Important Projects

- SITC of High Mast Lighting Systems for NTPC Ltd., Farakka in West Bengal & Barh in Bihar
- SITC of High Mast for South East Central Railway at Raipur, Nagpur, Bilaspur and Bhatapara
- SITC of High Mast for Southern Railway at Chennai and Thiruvananthapuram
- Illumination work for different stations at Ajmer, Rajasthan for North Western Railway.
- Illumination work at Chennai Trade Centre, Chennai for CPWD
- Plant Illumination work at Noonmati, Guwahati for Indian Oil Corporation Ltd.
- Township Illumination at Neyveli, Tamil Nadu for NLC Ltd.
- Area Illumination work at Vidyasagar University, Medinipur, West Bengal.
- Area Illumination work at KRIBCO, Surat.
- SITC of High Mast at Budge Budge Municipality under Green City Mission
- SITC of High Mast at different Army Camps under Ministry of Defence
- SITC of High Mast at East Jaintia Hills at Meghalaya under The Office of the Dy.Commissioner, Khilariha



Our Prestige

Some Major Supply

- Supply of Octagonal Steel Poles to Techfab International Ltd. For the Project of Energy Development Corporation Limited, Rawanda
- Supply of Octagonal Steel Poles to Sterling & Wilson Ltd. For the Project of CAMPAGNIE ENERGIE ELECTRIQUE, Togo
- Supply of Galvanized Conical Poles to ELEKTRALITE LIGHTING (FZE), Sharza - UAE
- Supply of Octagonal Street Lighting Poles to Khimji Ramdas LLC, Muscat, Oman
- Supply of High Mast Lighting Systems to Vishal Electricals for the Project of GAIL (INDIA) LTD, PATA, AURIYA, U.P
- Supply of Octagonal Street Lighting Poles to Reunion Engineering Co. Pvt. Ltd. for the Project of New Visakha Black Oil Terminal, Visakhapatnam under Hindustan Petroleum Corp. Ltd.
- Supply of Octagonal Street Lighting Pole to NTPC Ltd. – Faridabad and Kudgi
- Supply of Street Lighting Poles for the Project of FIFA Junior World Cup at Vivekananda Yubabharti Kriangan, Kolkata
- Supply of Lighting Masts and Octagonal Poles to the different NHAI projects
- Supply of Street Lighting Poles and High Masts to Border Flood Lighting Projects.
- Supply of Flag Masts for hoisting National Flag to Indian Railways, Ports and Airports