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**Chhattisgarh Office:** Lotus - 33, Talpuri International Colony, Block A, Bhilai District - Durg - 490006 (Chhattisgarh). India

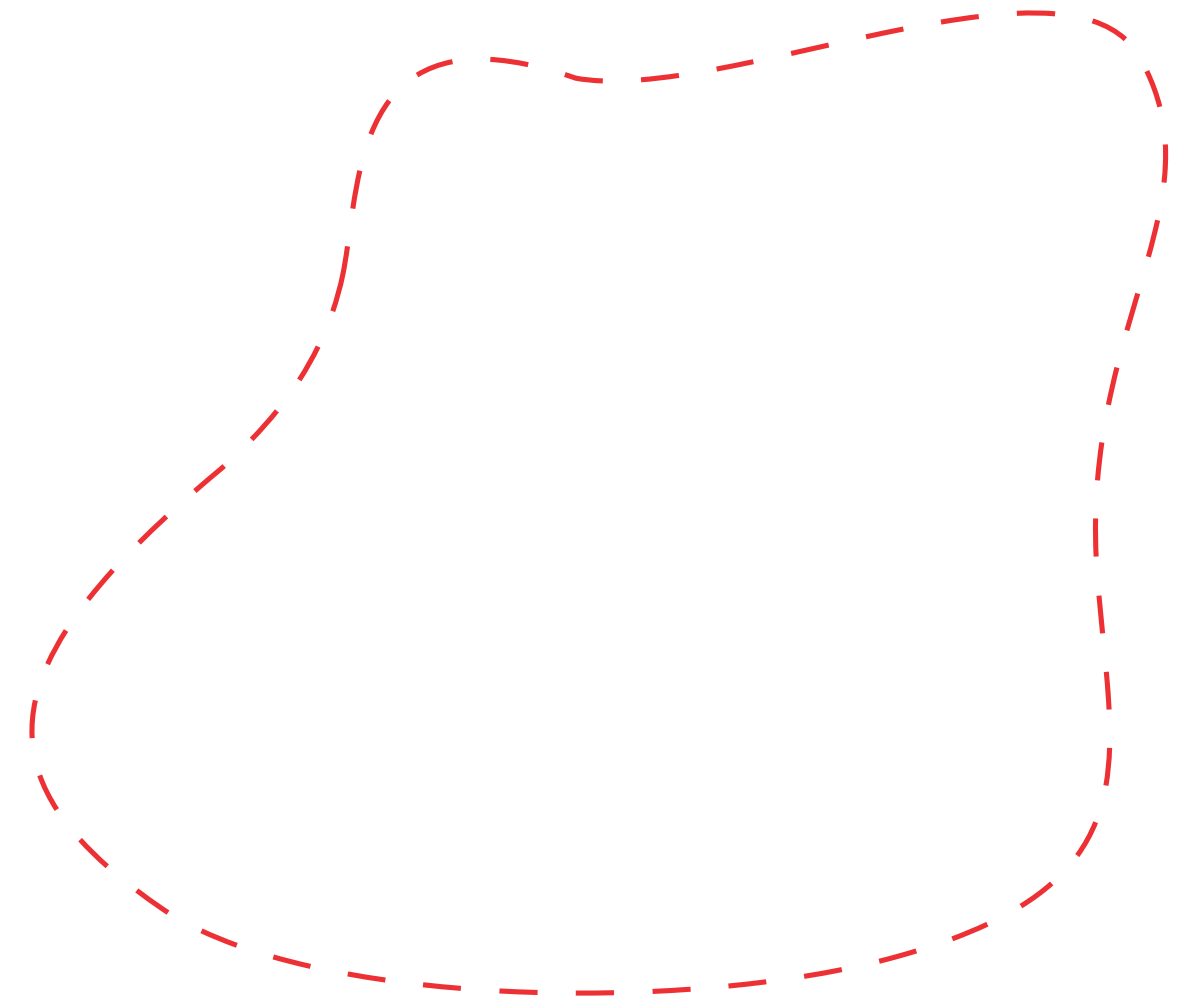
**Website:** [www.salasartechno.com](http://www.salasartechno.com)



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**Steering India's Infrastructural Growth**







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# THE SALASAR STORY

In the year 2006, Salasar started out as a tower manufacturer with the vision of transforming the industry. Tower manufacturers rarely provided multiple solutions under one roof. Salasar sought to fill this gap by aspiring to become a one-stop shop for India's telecom giants by carrying out engineering, designing, procurement, fabrication, galvanization and EPC under one roof. Owing to our persistence, expertise, and capability to work wonders with steel, today we are no longer confined to towers and have expanded our range of products and services to encompass all the infrastructural needs of a rapidly developing nation.



**25+**

Countries We Export To



**210k+**

MT Annual Production Capacity



**500+**

KM Power Transmission Line

## OUR MISSION

To be at the forefront of **developing technologically advanced Infrastructural solutions** for our customers around the world.

## OUR VISION

To make a **substantial contribution towards the development of National Infrastructure** by providing technologically advanced solutions, and to play a critical role in making India the most preferred destination for the fulfilment of local & global Infrastructural needs.



## WHO WE ARE

Salasar Techno Engineering Limited was established as a result of a patriotic ambition to contribute towards the growth of India's dynamic infrastructure space. The manufacturers catering to the industry rarely provide multiple solutions under one roof. Salasar sought to fill this gap by aspiring to become a one-stop shop for India's infrastructure giants by carrying out engineering, designing, procurement, fabrication, galvanization and EPC under the same roof. What further differentiates us from other players is the emphasis placed on technology and research backed processes. We started out manufacturing telecom towers in the year 2006, and now offer 360-degree solutions to our customers across continents and industries.

At Salasar, our focus is the customer and we provide individual attention to all our clients. All of our products are fabricated as per the customer's requirements in accordance with applicable standards. Fabrication is carried out in state-of-the-art manufacturing facilities, ensuring strict quality control and safety at every level of production. Having executed projects in all types of geographical terrains and weather conditions, we have established our execution capabilities in a short span of time, and developed firm relationships with our suppliers and customers. These relationships have allowed us to carry out massive touchstone projects all over India.

We consider ourselves Infrastructure Enablers and are dedicated to endow the creation of people-centric ecosystems. Slowly and steadily, we are moving towards incorporating technology in our products and providing smart solutions that are the need of the day.



## IN HOUSE ENGINEERING

An Engineering Excellence lead by **Dayanand Swamy Kuna, a distinguished Civil Engineer working as President/CEO (Sales/Marketing & EPC).**

He has knowledge of applicable codes and industry standards for Utility (Transmission, Distribution & Sub-station), Telecommunication, Lighting, Traffic, Traction, Buildings and other structures of Lattice Towers & Poles

Our in-house engineering division ensures **cutting-edge solutions** in design, feasibility studies, technical support, and Foundation designs.

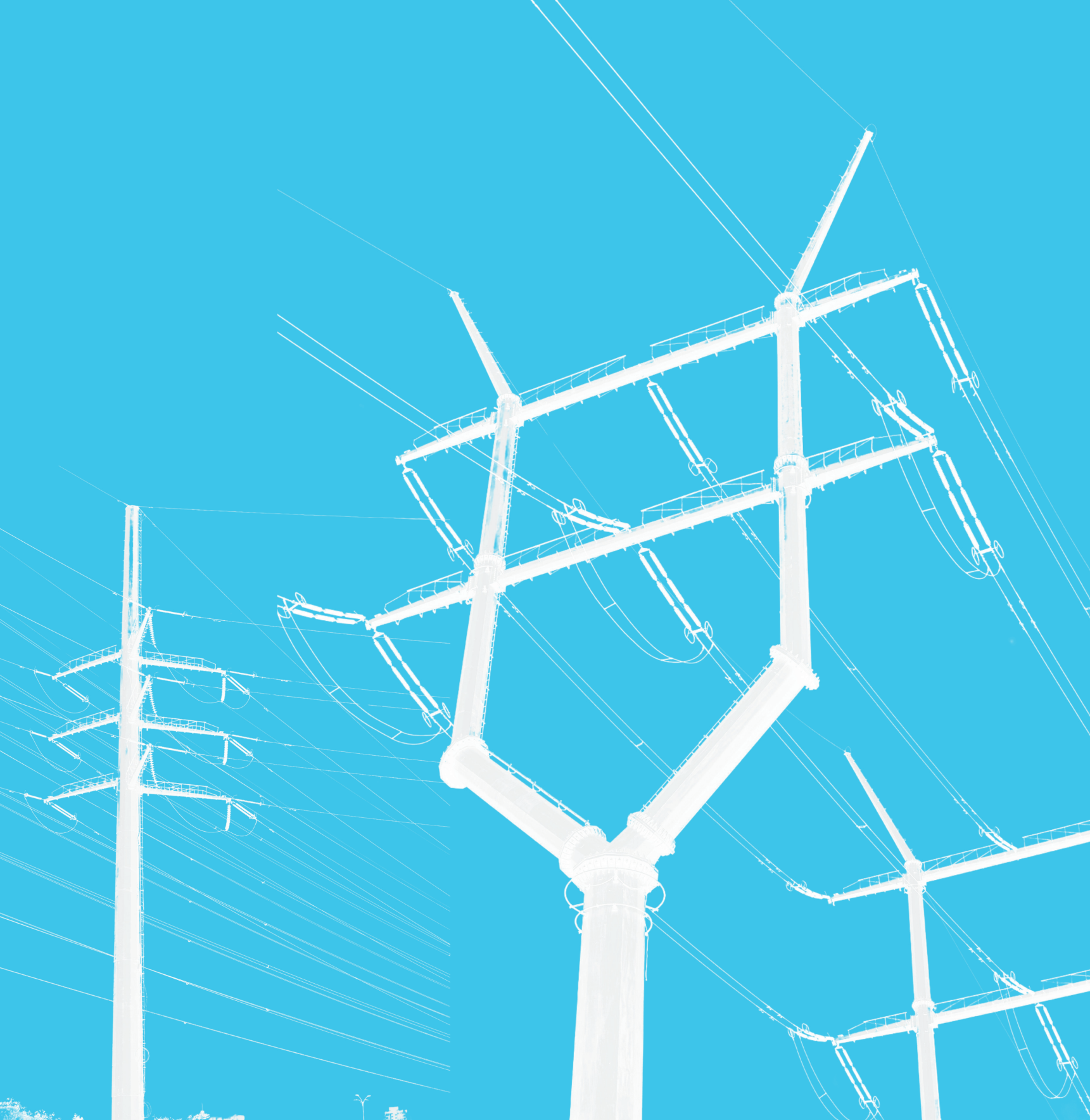




Promising Quality &  
Durability with Unprecedented  
Manufacturing & Product Testing Capabilities



				<p>Installed annual capacity of 2,11,000+ metric tonnes</p> <hr/> <p>Strict adherence to ISO 9001:2015 and ISO 14001:2015</p>
<p>Largest Galvanizing plant in Northern India with bath length of 13m</p>				
<p>3 state-of-the-art manufacturing units spread over 30+ acres close to New Delhi and 1 in Chattisgarh</p>		<p>Bending Machine capable of bending mild steel plates of up to 30mm thickness with utmost precision</p>		<p>Care for the environment built into every process</p>
			<p>Hi-tech international machinery and equipment</p> <hr/> <p>Batch production to allow complete customizability</p>	
	<p>Internal QAP (Quality Assurance Plan)</p> <hr/> <p>Zero Defects approach right from procurement till delivery</p>		<p>In-house Quality Testing Laboratories</p> <hr/> <p>Stringent safety rules in accordance with OHSAS 18001:2007</p>	



## Utility Structures

Transmission Line Monopoles / Towers  
Sub-Station Structures  
Distribution Monopoles / Sections  
Railway Electrification (Portal Structures)

Building Robust  
Connections with  
**Cutting-Edge Infrastructure.**



# UTILITY POLES

## Transmission Line Monopoles

Transmission line monopoles are rapidly gaining popularity over towers as securing new right-of-way permits for overhead DC/AC transmission lines is becoming difficult, and in some jurisdictions, impossible due to space constraints. Monopoles are a viable alternative, as they require only one-sixteenth of the space sought by lattice towers for erection while being capable of attaining heights higher than 50 m. Additionally, Monopoles have other distinct advantages over towers, such as faster installation and shorter delivery times.



220DCT\_29.2M BXA



PDMLT 30 (0°-30°) /  
DE\_15.5M BXA



MCPD (60°-90°)/ DE +36M



DPD (30°-90°) / DE\_29.20M BXA



PD (30°-60°) / DE\_35M BXA



TDPD (30°-60°)/ DE\_45M BXA



# Distribution Monopoles

Our Steel Power Distribution Poles have the ability to perform under the worst of weather conditions and are easy to install and maintain. Galvanized in-house in high-tech galvanizing plants, each pole has a lifespan of at least 25 years. Backed by real-world testing, these poles can be customized according to clients’ requirements and preferences, and provide reliable support to power lines.

## Product Categories

### Line Distribution

- i. Swaged Pole
- ii. Polygonal Pole

### Data Distribution

- i. Fiber Optic Circular Pole



# Substation Structures

Before electricity can reach the end user, it must pass through an assemblage of equipment called a Substation where the voltage is stepped up or stepped down to serve specific purposes. We manufacture or source all components required for the installation of substations and are experienced

at planning and carrying out turnkey projects in any terrain and geographical condition. Manufactured in compliance with industry standards, our substations can withstand adverse weather conditions, require low maintenance, and are protected against power surges.







## UTILITY TOWERS

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### Transmission Line Towers

Used in high-voltage AC and DC systems, Transmission Line Towers come in a variety of shapes and sizes. Being a leader in the market, we offer Transmission Line Towers of all types approved by PGCIL and other power utilities and corporations, with long durability, aesthetic design, and excellent functionality.





# Distribution Towers

Our Steel Power Distribution Tower have the ability to perform under the worst of weather conditions and are easy to install and maintain. Galvanized in-house in high-tech galvanizing plants, each tower has a lifespan of at least 25 years. Backed by real-world testing, these poles can be customized according to clients’ requirements and preferences and provide reliable support to power lines.

## Product Categories

### A. Line Distribution

- i. Swaged Tower
- ii. Polygonal Tower

### B. Data Distribution

- i. Fiber Optic Circular Tower



# Substation Structures

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Utility Monopole Testing



CLIENT: ABI  
END CLIENT: NHAI & PGCIL  
POLE TYPE: PB(0°-15°)\_25M  
BXA  
VOLTAGE: 400kV  
No. Of CIRCUIT: S/C  
POLE HEIGHT: 33850MM  
MOMENT: 7256.89 kNm



CLIENT: JMJE  
END CLIENT: PSPCL  
POLE TYPE: PMD (30°-60°)/DE\_16M  
BXA  
VOLTAGE: 66kV  
No. Of CIRCUIT: M/C  
POLE HEIGHT: 35850MM  
MOMENT: 30073.33 kNm

Utility Tower Testing



CLIENT:  
CONSULTANT:  
TOWER TYPE:  
VOLTAGE:  
NO. OF CIRCUIT:  
TOWER HEIGHT:

ENERGY DEVELOPMENT CORPORATION LTD, RWANDA (EDCL)  
SOFRECO & IBC  
MEDIUM ANGLE TOWER TYPE-"MAT(15°-30°)  
110KV  
D/C  
29800MM



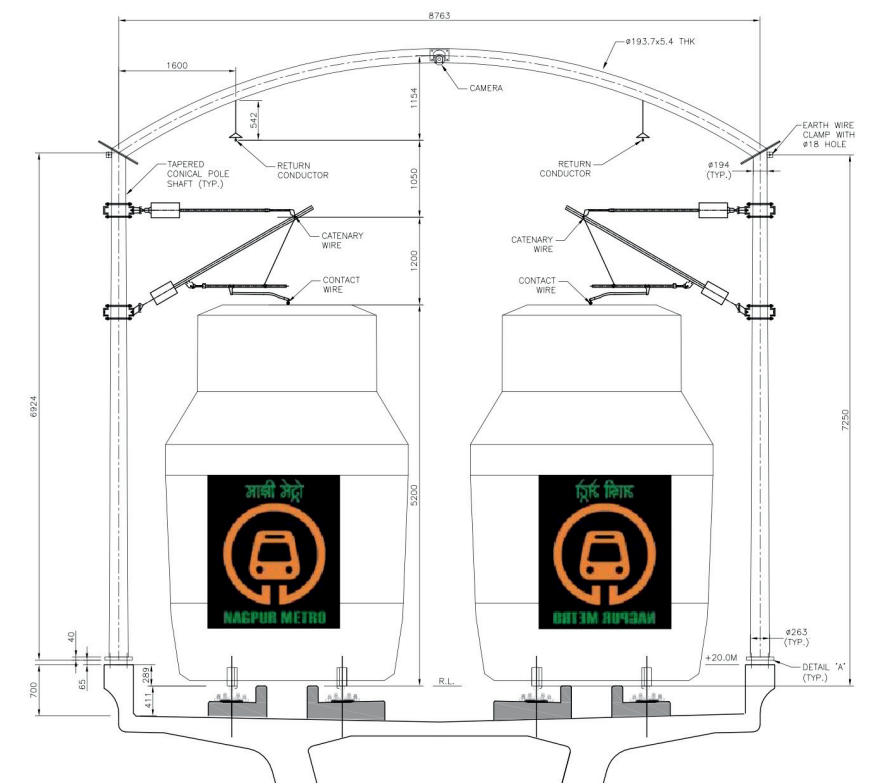
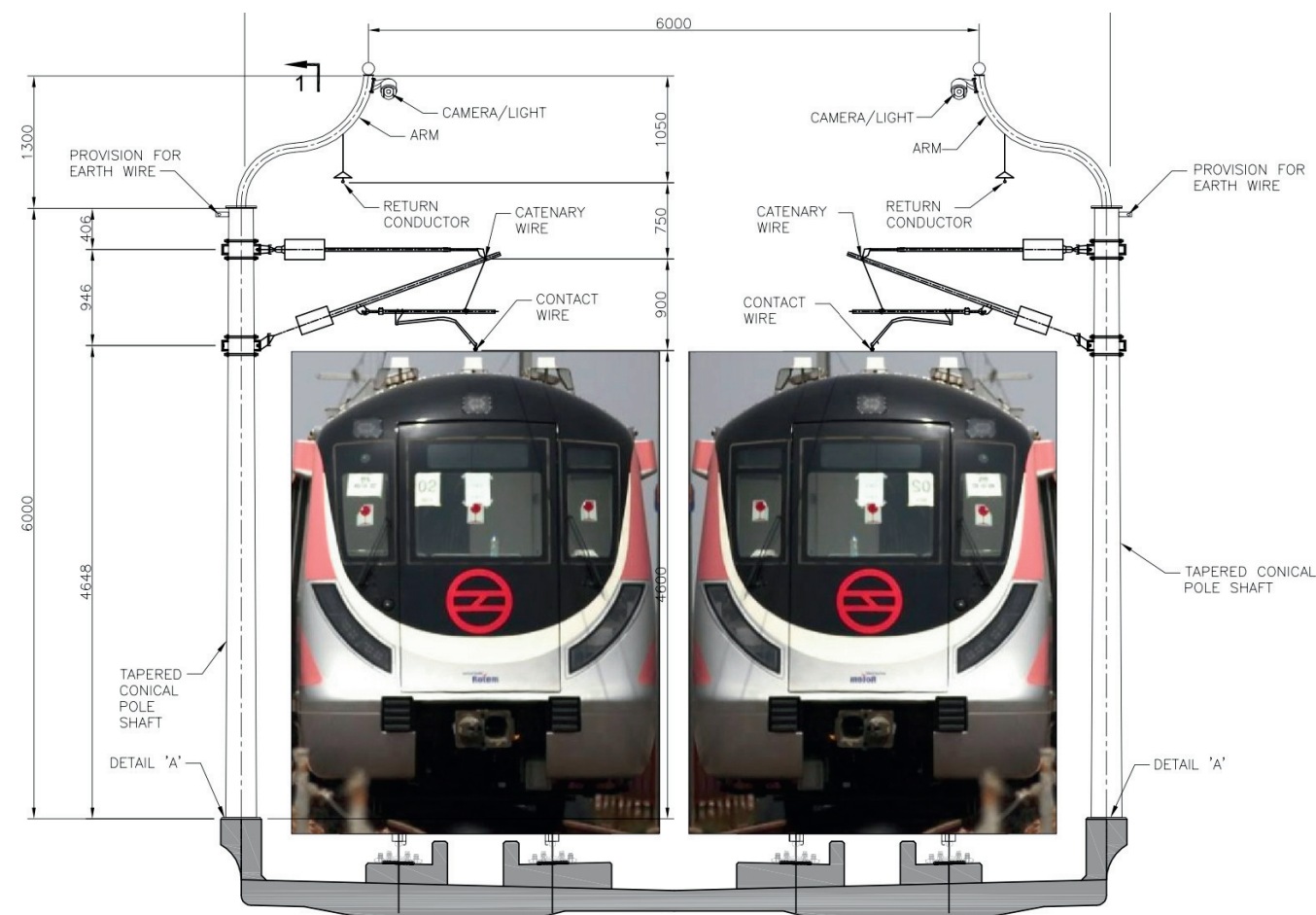


# Railway Electrification

Being an industry expert in steel and power, we offer CORE approved Railway Overhead Electrification structures, manufactured under expert guidance and strict quality control for top notch functionality and endurance.

## Product Categories

- Portal Frame
- Traction Masts





## General Structures

Lighting Poles

High Mast

Sports / Stadium Poles

Traffic Structures

Engineering Resilience with  
**Innovative Infrastructure.**



# Lighting Poles

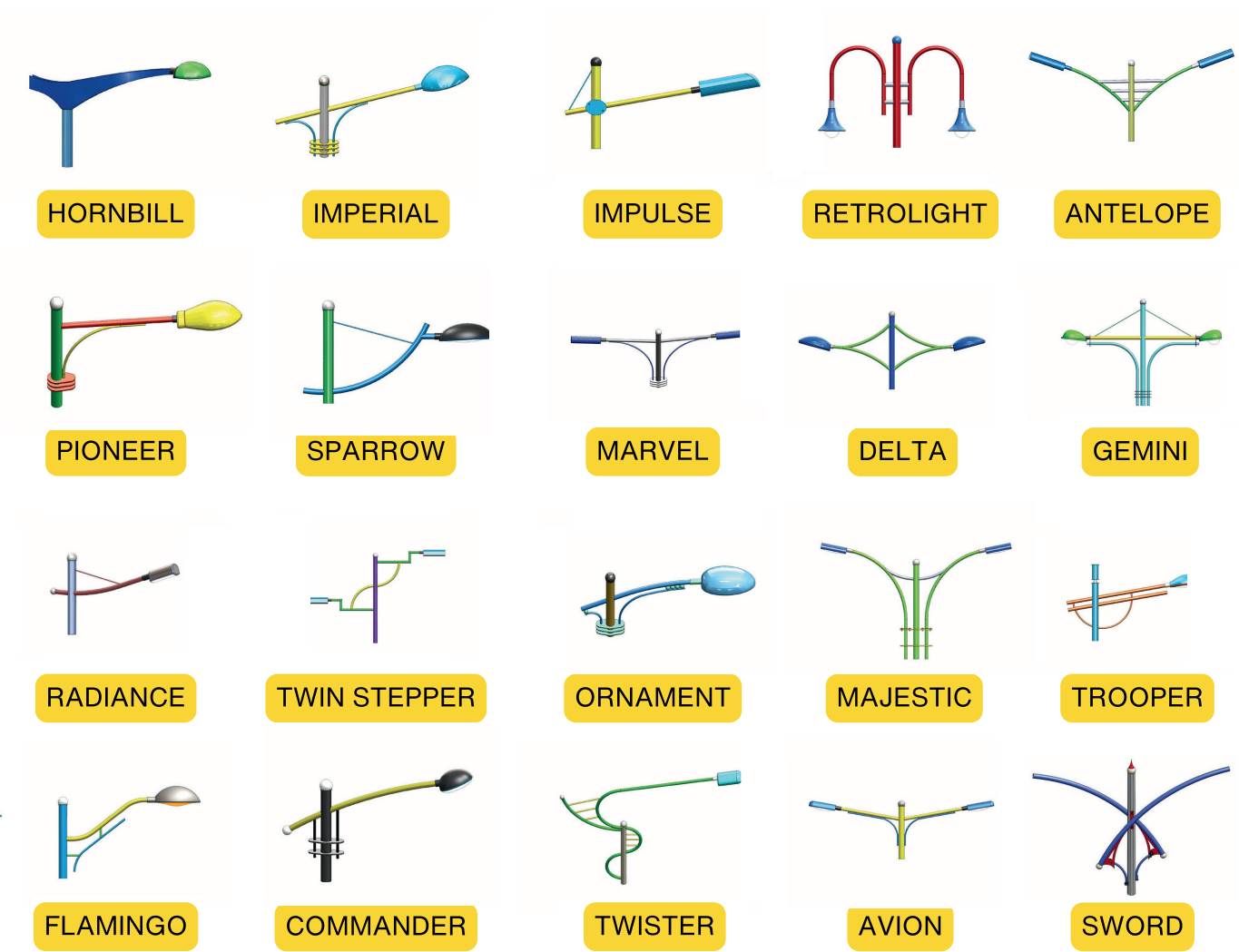
Lighting Poles Street lighting fulfils an important function: keeping pedestrians, drivers, and other roadway users safe while promoting the use of public spaces. Our versatile range of steel poles has been employed in numerous projects throughout India to illuminate our nation-a fact we are proud of. Our poles can be manufactured as per specific customer requirements, and we possess the ability and know-how to produce poles as tall as 100 m and above.



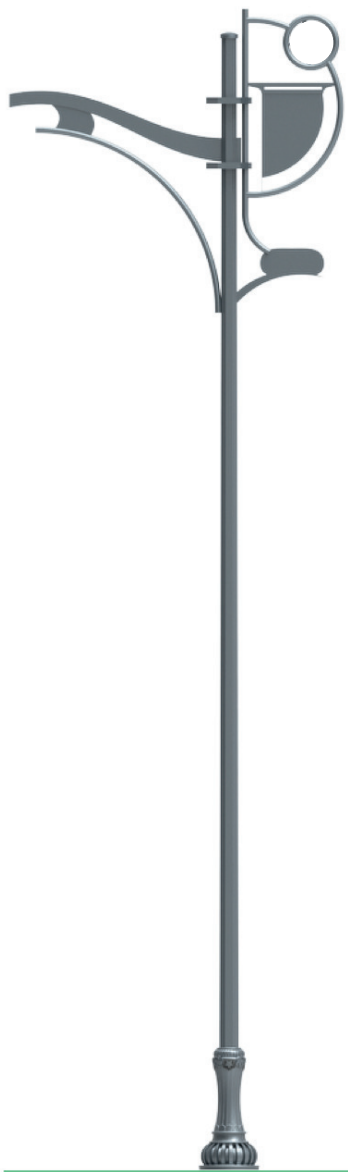
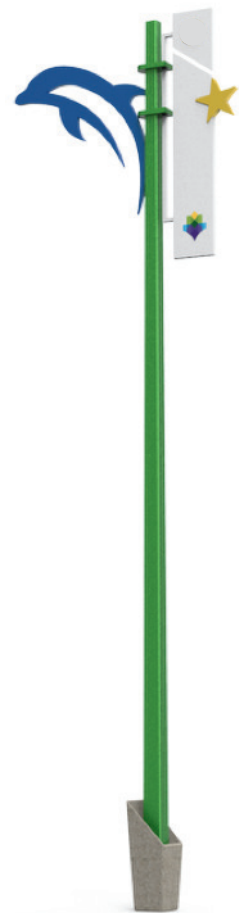
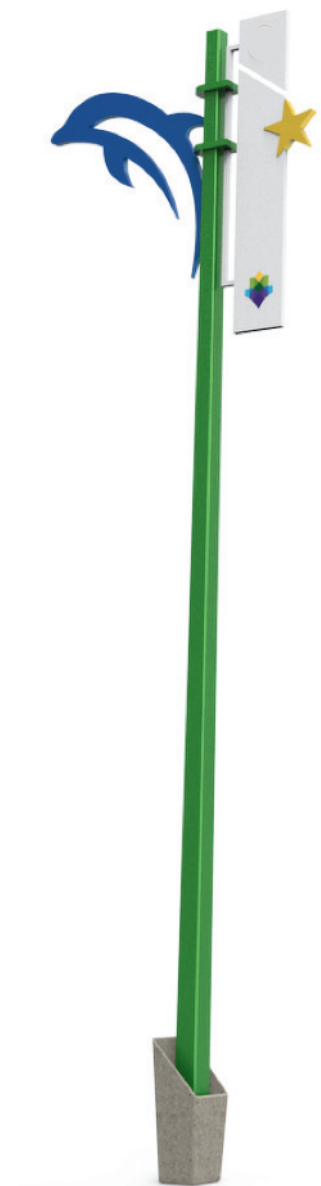
# Lighting Pole Brackets

Salasar provides a diverse range of decorative brackets designed to suit various applications and requirements. We also offer customized, unique solutions tailored to the specific needs of customers in the lighting industry.

Our decorative brackets are compatible with a variety of pole types, including octagonal, conical, round, square, and other polygonal shapes. Additionally, all brackets are available with different arm lengths and overhangs to meet specific project requirements.



Decorative Poles





## Sports / Stadium Poles

A Stadium Mast Pole is a high-mast lighting structure designed to provide powerful and uniform illumination for large sports arenas, stadiums, and other expansive outdoor venues. These poles are engineered to withstand extreme weather conditions while ensuring optimal light distribution for enhanced visibility and performance.

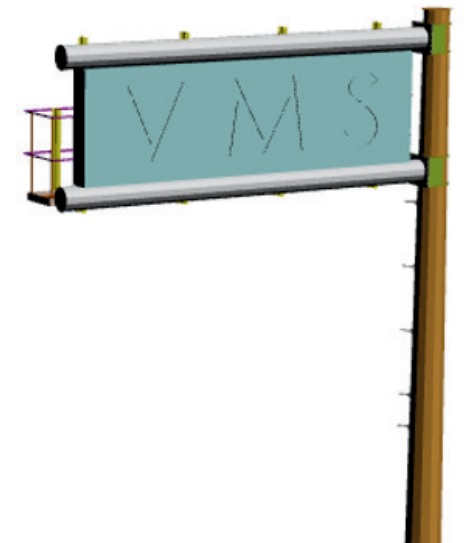
Salasar offers custom-engineered stadium mast poles built with high-quality materials, adhering to international safety and durability standards. Our poles are designed to support multiple floodlights, ensuring efficient and glare-free lighting for various sporting events.

## Traffic Structures

Building on a legacy of proven success, Salasar provides a comprehensive range of traffic light signal structures, highway sign structures, traffic security poles, mass transit structures, and essential infrastructure accessories for safe and efficient traffic management.

Salasar Structures, along with other Salasar businesses worldwide, specialize in designing and manufacturing custom-engineered traffic structures. These poles are designed in accordance with international standards, specifically the AASHTO 2015 “Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals.”

- Traffic Signal Pole
  - Straight Pole with Traffic Signal
  - Cantilever Arm Mounted Traffic Signal (Single/Double)
- Traffic Sign Poles
  - Overhead Balanced and Unbalanced Cantilevers
  - Overhead Bridge
  - Overhead Bridge with Cantilever
  - Roadside Signs
- VMS Poles
- Tramway & Trackway Poles





# Traffic Structures



# High Mast

- Types of High Mast:
- 1. Static High Mast
  - 2. Lowering & Raising High Mast.
  - 3. Latching High Mast.





## Telecommunication Infrastructure

# Creating Possibilities. Transforming Lives.

We started out as tower manufacturers, and despite having expanded into several product segments, we have consolidated our position in the telecom infrastructure space. Over the years, we have established our prowess in the segment, and our quality and delivery times - both in manufacturing and deployment - are hard to beat.

With the increasing proliferation of smartphones among the Indian masses, data will grow exponentially, requiring a significant number of additional data sites over the next few years. In order to make 5G a success story in India, it is essential to invest in network densification heavily through provisioning of fiber, small cells and mobile towers. To provide 5G services on a large scale, carriers will need to add at least 250,000 new small cell sites nationwide. We, at Salasar, are prepared to cater to the needs of the industry at unprecedented speeds.

### Product Categories

Antenna Bracket Mounts  
i. Microwave Mounts  
ii. GSM Mounts

Cable Trays



## Towers

Owing to our unfailing commitment towards quality and shortest delivery times, Salasar has emerged as one of India's leading Tower suppliers within a short span of time. Our telecommunication towers are made as per time-tested Ramboll designs, in-house IIT certified designs, or tailored as per customer designs. The Indian telecom industry is witnessing a surge in demand for data services, which calls for an increase in network coverage and given the high frequency spectrum on which data technology operates there is a need to bridge the network coverage gaps. Salasar is all set to ride this wave with an unprecedented consolidation of its faculties, facilities and expertise.

### Product Categories

- a. Tubular Towers
  - i. Ground Based
  - ii. Roof Top
    - Non-Penetrating Poles
  - iii. Quick Build Solutions
- b. Guyed Masts
- c. Angular Towers
  - i. Ground Based
  - ii. Roof Top
- d. Hybrid Towers
  - i. Ground Based
  - ii. Roof Top



# Monopoles

Salasar boasts of having the largest Galvanizing plant in North India with a bath length of 13m. This allows us to manufacture and galvanize Monopoles as tall as 40m. Our technical collaboration with Danish design giant Ramboll along with our prowess in EPC, guarantees state-of-the-art Monopoles capable of enduring all types of soil and wind conditions.

With large-scale deployment, land acquisition and tower aesthetics are becoming a costly challenge even for the telecom giants and Monopoles are the need of the hour. We also provide high-quality aesthetic Camouflaging for our monopoles, which not only make our cities look better but also make it easier to secure permits.



## Product Categories

### a. Flange Type Monopoles

- i. Ground Based
- ii. Roof Top

### b. Slip Joint Monopoles

- i. Ground Based
- ii. Roof Top
- iii. Camouflaged



# Portable Towers

Salasar has innovated heavily and come up with pathbreaking solutions in the field of Portable Towers. Our Portable Towers are modular solutions bespoke to the customer. They support customer challenges of low footprint and minimal civil work on site, and can be installed within 24 hours to meet the requirements of fast rollout. They can be transported over large distances and rough terrains, and may be left at site for an extended period of time with the use of either Mains Power, Diesel Generators, or Solar-Powered Batteries.

## Product Categories

### a. Cell-On-Wheels

### b. Skid Base Towers





## Accessories

Salasar is a firm practitioner of providing end-to-end solutions to its customers. Therefore we also manufacture Accessories of all nature as required by the client, including Mounts and Cable trays, boasting very low prices, smallest lead times and zero defects.



### Product Categories

- a. Antenna Bracket Mounts
  - i. Microwave Mounts
  - ii. GSM Mounts
- b. Cable Trays

## Services

- EPC Projects
- Contractual Galvanizing
- Repair & Maintenance
- Strengthening
- Designing



## Salasar Artificial Intelligence

### Tower Maintenance Using AI

Salasar has come up with solutions for Tower Maintenance using Artificial Intelligence. Cameras mounted on Drones scan entire towers from all angles and record video in high definition, which is then analyzed by an AI trained machine for detecting defects such as rust, nests, missing members, missing hardware and loose members. This technique eliminates the need for a Rigger to climb the tower periodically for preventive maintenance. Climbing is now required only when actual repair is needed, thereby significantly reducing costs and safety incidents. Data from different sensors installed at the tower sites like Access Control, Grid Power, and DG is also being labelled and analyzed for predictive and preventive maintenance. We are also working on using Computer Vision in AI for testing the load bearing capacity of a tower.



### Salasar AI Suraksha

About 48,000 workers die in India annually due to occupational accidents- of which 38 fatal accidents take place every day in the construction sector alone. To help Telecom Players with Safety Compliance, Salasar has developed “Salasar AI Suraksha” which is a video/image recognition system to help improve safety on sites. CCTV cameras send continuous video streams to AI machines trained to detect PPE violations. An alert is immediately sent to the designated personnel, the moment any violations are detected, or periodically, as required.

This eliminates human input freeing up time for staff to focus on other key areas of health and safety.



## Cell-on-Wheels (COW)

A COW is a mobile cell site product that includes a tower and transceiver, as well as all other necessary equipment, carefully constructed on a trailer or truck. Unlike standard towers, COWs are highly portable, but they are not constructed for permanence. However, a high-quality system can be utilized for longer periods of time, if necessary. Emergency Response System (ERS).





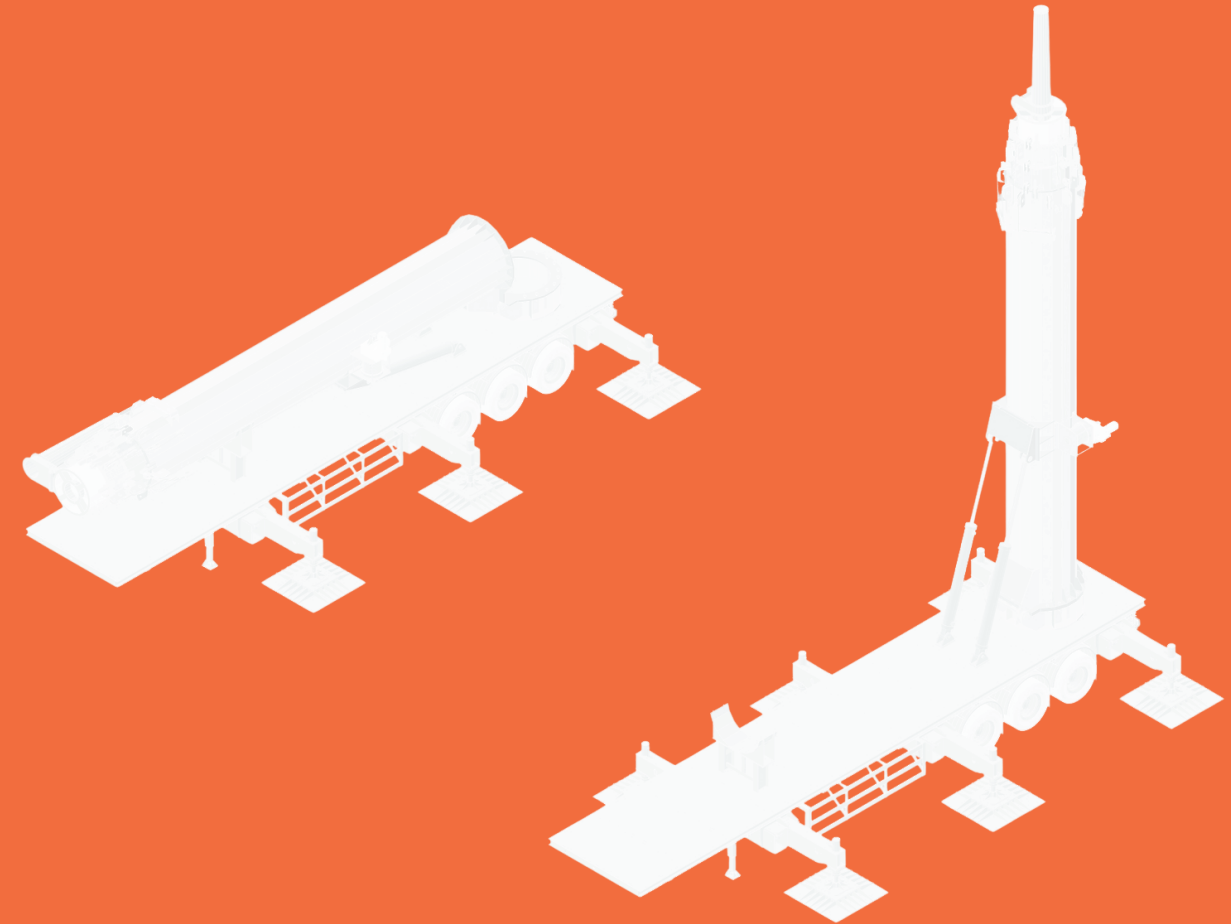
## Special Structures

### Product Categories

#### Special Structures

- a. Mid-Hinge Poles
- b. Emergency Response System (ERS)
- c. Smart Poles

Crafting innovation with  
**Purpose-Driven  
Structures.**



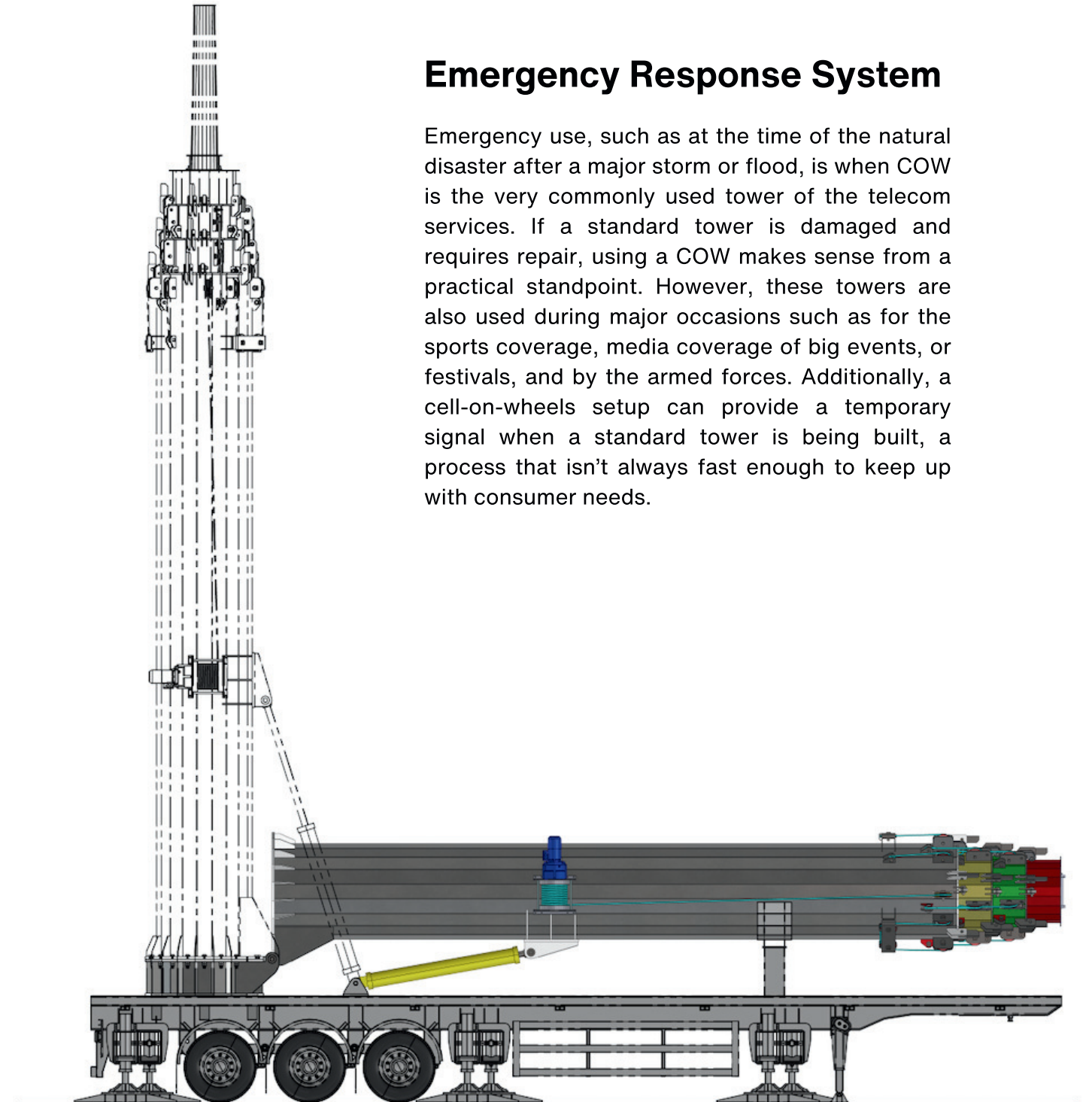
## Mid-Hinge Poles

Mid-hinged lighting poles are durable, base plate-mounted structures, hot-dip galvanized for longevity. Ideal for challenging locations like mine sites, large parking areas, airports, and rail yards, these poles offer easy maintenance without crane access. Available in standard heights from 3.0 m to 30.0 m, they can be customized as per customer needs.



## Emergency Response System

Emergency use, such as at the time of the natural disaster after a major storm or flood, is when COW is the very commonly used tower of the telecom services. If a standard tower is damaged and requires repair, using a COW makes sense from a practical standpoint. However, these towers are also used during major occasions such as for the sports coverage, media coverage of big events, or festivals, and by the armed forces. Additionally, a cell-on-wheels setup can provide a temporary signal when a standard tower is being built, a process that isn't always fast enough to keep up with consumer needs.





# Smart Poles

Salasar plays a key role in India’s Smart City Mission, contributing to projects in Visakhapatnam, Agartala, Indore, Bhopal, and NCR. In collaboration with Ramboll, we offer modern Smart City Poles equipped with LED lights, CCTVs, Wi-Fi, pollution sensors, distress buttons, and motion-detecting energy-efficient lighting. These poles enhance mobile networks, support dual operators, and feature RF-transparent camouflage for seamless installation with minimal disruption. Our advanced camouflaging solutions ensure cities are not only smart but also aesthetically pleasing.

## Product Categories

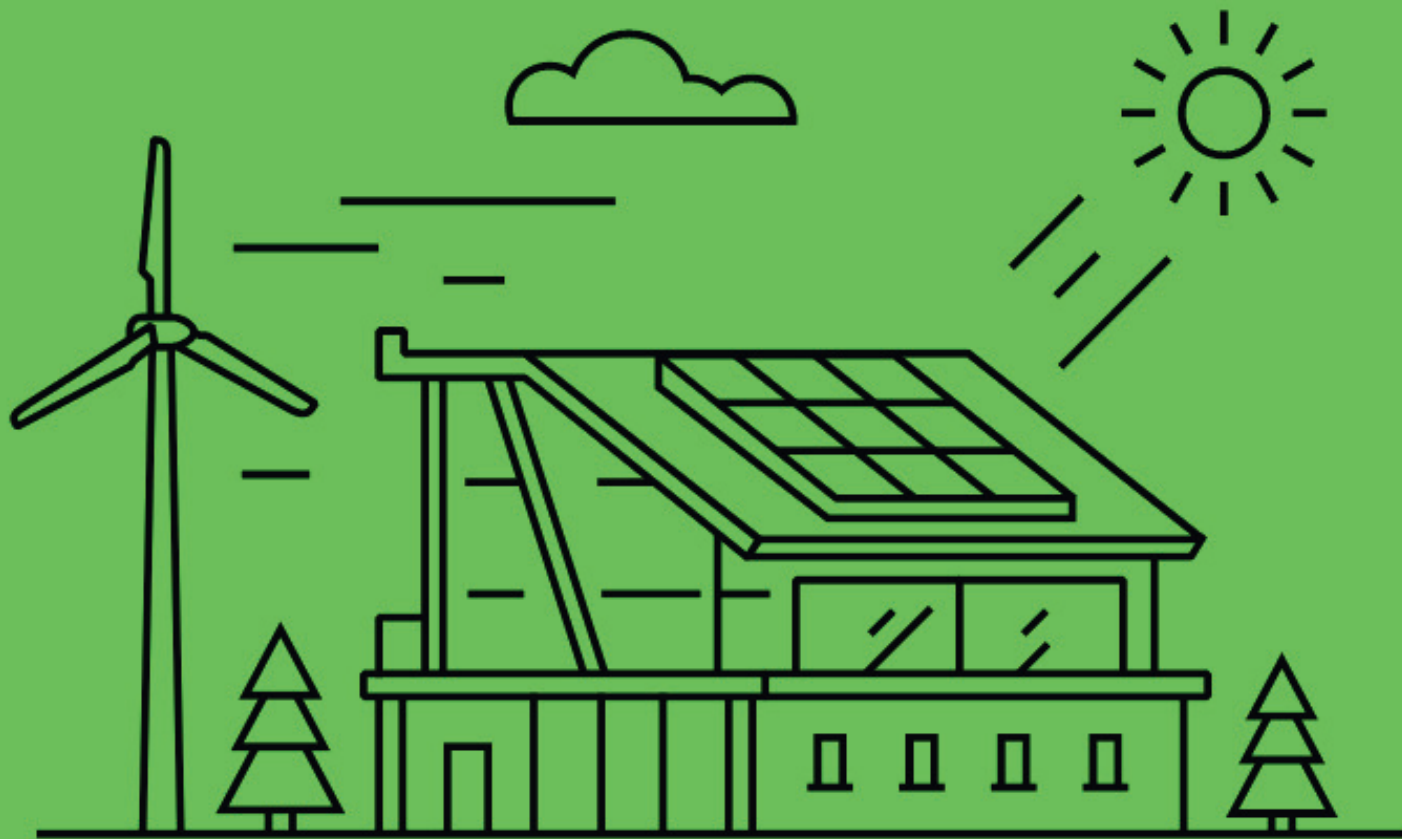
### Camouflaging Solutions

- i. Lotus Monopole
- ii. Palm Tree
- iii. Coconut Tree
- iv. Pine Tree



## Smart Poles

The Smart Cities Mission is an urban renewal and retrofitting program by the Government of India with the mission to develop 100 citizen-friendly and sustainable "smart cities" across the country. With a special focus on cost optimization and connectivity, Salasar is working extensively to fulfil this mission and has contributed significantly towards the development of several smart cities across India.



Renewable Energy

Product Categories

- a. Solar Structures
- b. Wind Structures

Powering a  
**Sustainable Future**  
with Innovative Energy Solutions.



# Solar Structures

Solar Ever since our genesis, we’ve been doing everything under the sky to contribute towards creating the required infrastructure for a better world. In our last decade of operation, we’ve already supplied Solar Module Mounting Structures for over 1000 MW of Solar Projects across the country. We have also innovated to come up with offbeat solar-powered solutions for Smart Cities.

## Product Categories

- **Module Mounting Structures**
- **Solar Water Pumps**
- **Solar Trees**
- **Solar Street Light Poles.**



# Wind Structures

Wind Employing our expertise in manufacturing, we have come up with wind energy solutions that cater to industries across verticals, e.g., telecom and power. We apply the same stringent quality code and extend our production prowess for manufacturing structures to harness the potential of wind energy.

## Product Categories

- **Windmill Towers**

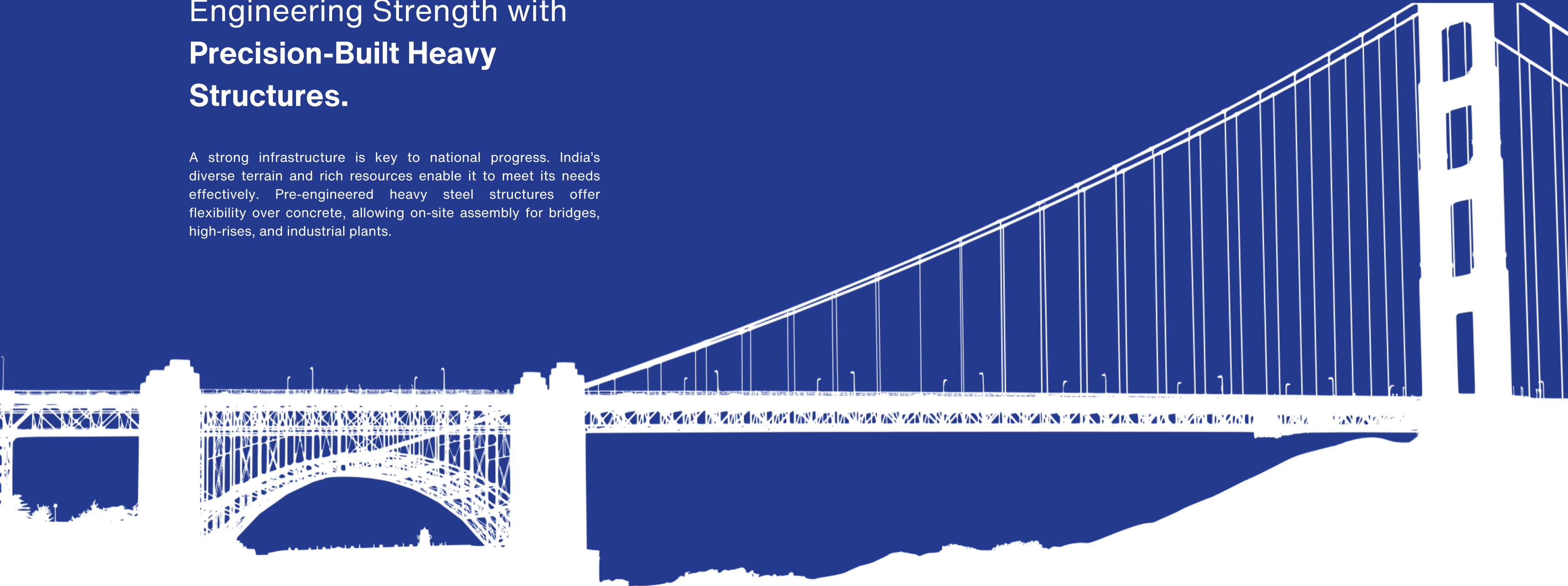




Heavy Structure Division

## Engineering Strength with **Precision-Built Heavy Structures.**

A strong infrastructure is key to national progress. India's diverse terrain and rich resources enable it to meet its needs effectively. Pre-engineered heavy steel structures offer flexibility over concrete, allowing on-site assembly for bridges, high-rises, and industrial plants.





## Bridges

In a geographically diverse country like India, bridges play a vital role in facilitating connectivity and driving economic growth. Salasar's adaptability empowers engineers, architects, and design professionals to construct ultra-durable bridges using our steel structures. Salasar, approved by the Research Designs and Standards Organisation (RDSO), is dedicated to accelerating roadway and railway connectivity in India through the production of reliable and meticulously crafted bridges.

### Product Categories

- Composite Girders
- Open Web Girders
- Bowstring Bridge
- Foot Over Bridge
- Road Over Bridge
- Rail Over Bridge

## Buildings

Buildings The strength of a nation lies in the strength of its infrastructure. Concrete has been the conventional choice for building construction in India, but it contributes to significant carbon emissions. It is time to leverage steel, a valuable raw material abundantly available in our country, to construct greener and stronger buildings. The strength of a nation lies in the strength of its infrastructure. Concrete has been the conventional choice for building construction in India, but it contributes to significant carbon emissions. It is time to leverage steel, a valuable raw material abundantly available in our country, to construct greener and stronger buildings. Opting for pre-engineered steel in building construction, as opposed to its reinforced concrete counterpart, offers significant benefits in terms of cost-efficiency, environmental sustainability, and energy conservation. By utilizing steel, construction expenses are reduced, waste generation is minimized, and energy consumption is optimized, thanks to its ability to accommodate thicker insulation layers. Opting for pre-engineered steel in building construction, as opposed to its reinforced concrete counterpart, offers significant benefits in terms of cost-efficiency, environmental sustainability, and energy conservation. By utilizing steel, construction expenses are reduced, waste generation is minimized, and energy consumption is optimized, thanks to its ability to accommodate thicker insulation layers. With our extensive engineering expertise, Salasar is committed to enhancing urban infrastructure by delivering modern, durable buildings that withstand the test of time.

### Product Categories

- |                       |                       |                    |
|-----------------------|-----------------------|--------------------|
| ▪ Composite Buildings | • High-Rise Buildings | ▪ Bowstring Bridge |
| ▪ Low-Rise Buildings  | • High-Rise Buildings | ▪ Bowstring Bridge |
| ▪ Stadiums            | • Composite Buildings | ▪ Foot Over Bridge |
| ▪ Stadiums            | • Low-Rise Buildings  |                    |





## Heavy & Complex Industrial Structures

Industries form the backbone of any modern nation and drive its economic trajectory. Investing in heavy and complex structures such as thermal power plants, steel plants, cement plants, and petrochemical plants is crucial for supporting and expanding these industries. Needless to say, these industrial plants need heavy and complex structures to work, such as Boiler Supports, Plate Mills, Blast Furnaces, Cement Kilns, Distillation Columns, Substation Buildings, Process Buildings, and TEAL Buildings. Salasar collaborates with you to build these structures, utilizing revolutionary technology, path-breaking techniques, and our unwavering commitment to excellence.

## A Look Into Our Facilities

At Salasar, we possess exceptional facilities and cutting-edge machinery from around the world to support our steel fabrication processes. Our total covered fabrication area spans 10,000 square meters, accompanied by a dedicated painting and blasting area covering 3,000 square meters. The presence of a 130 m x 33 m assembly yard eliminates bottlenecks, enabling us to expedite project timelines. Additionally, our dedicated raw material yard is equipped with overhead cranes and magnetic lifters for efficient and safe material handling.

**Our range of machinery includes:**

### Beam Welding Line

Made in Italy, this advanced line has the capability to process thicknesses up to 63 mm and widths up to 3,000 mm

### Plate & Beam Drilling

Procured from Taiwan, this machinery can work with beams up to 2,000 mm X 2,000 mm, and process plate thicknesses up to 125 mm and widths up to 3,000 mm

### Multitorch OxyFuel Cutting Machine

Manufactured indigenously by Pro-Arc Welding and Cutting Systems, this machine can process plates up to 5,500 mm X 27,000 mm, with a thickness of up to 200 mm and 8 torches

Our process support equipment includes a Beam Straightening Machine, End Milling Machine, Bandsaw Machine, and Face Milling Machine. These machines ensure precision and efficiency throughout the fabrication process, enabling us to deliver exceptional results.



## Coatings

### Product Categories

1. Galvanization
  - a. Hot Dip Galvanization
  - b. Metallizing
2. Galvanization with Painting
3. PU Painting

**Enhancing Durability** with  
Advanced Protective  
Coatings.





# Galvanization

It is estimated that up to four percent of the world's GDP is lost through corrosion each year, a fact that makes lifecycle costs a key consideration in many modern construction projects. An average coating thickness of 85 microns, the same thickness as a sheet of A4 paper, can protect a steel structure for the better part of 100 years. Hot-dip galvanizing has long been seen as the most environmentally friendly finishing process available to prevent corrosion. It is highly sustainable and produces minimal waste; any waste zinc that does not instantly form a coating on the metal remains in the galvanizing bath for reuse. We provide you with a world-class facility for the galvanized coating with our 99.99% pure zinc, which is IS 2629 (1985) certified.



## Benefits

- Less Maintenance
- Long Life
- Durability
- Toughest Coating
- Complete Protection
- Hygienic
- Speedy Application







## PU painting

PU (Polyurethane) painting is a durable, high-performance coating ideal that provides excellent resistance to weather, chemicals, and abrasion. It offers a smooth, glossy finish, making it for architectural and industrial applications. Automotive, and PU paint also enhances longevity and aesthetic appeal while protecting surfaces from corrosion and wear.



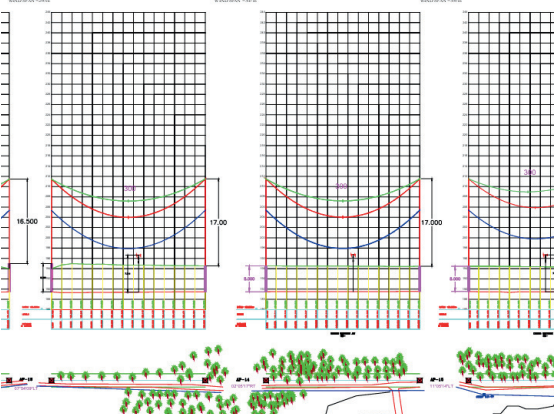
EPC Services



SURVEY



GEOTECHNICAL INVESTIGATION



PROFILE, SCHEDULE, PLAN



EXCAVATION AND FOUNDATION



ERECTION



STRINGING



# Certifications / ISO

# Our Clients

