



International Business Operations

Product portfolio

- Design, manufacture, supply Telecom and Transmission Line Towers
- Sub-station Structures
- Special structures for Broadcasting
- Monopoles (Telecom / Transmission Lines / Lighting)
- Shelters made out of Polyurethane Foam sandwiched panels
- Batteries for Power supply (Telecom equipment)
- Aviation lamps (LED)
- Power Control Units (PCU)
- VRLA Batteries

The Company

Aster Private Limited, established in 1998, is an ISO 9001 and 14001 certified company. Aster holds the baton as a pioneer company to offer a complete range of Telecom services: from Network Planning & Design through Operation and Maintenance of Telecom networks in the Indian market. Through time, the company has diversified its portfolio to provide turnkey solutions in infrastructure, Construction, Engineering, Railways, Defense and Power Transmission & Distribution.

The Company is managed by dedicated professionals with varied experience in different business segments. With more than four thousand professional staff, diverse business verticals, services covering concept to commissioning, Aster has made its presence known throughout India and is expanding its reach globally.

Aster is sensitive to the fact that the service excellence is dependent on skill levels of its employees. To achieve this, skill sets are continuously monitored and improved through training programs, while prioritizing on ensuring the safety and health concerns of all employees.



Brig. JP Singh receiving the Engineering Export Promotion Council (EEPC) Award, in Services Sector (Special Prize 2000-2001), from the Hon'ble Chief Minister of Andhra Pradesh., Sri. N. Chandrababu Naidu.



Mr. S Jagan Mohan receiving the Engineering Export Promotion Council (EEPC) Award, in Services Sector (Special Prize 2005-2006), from the Hon'ble Chief Minister of Puducherry., Sri. N Rangasamy.

International Business Operations

Aster's International Business Operations (IBO) division has broad experience in executing projects overseas. Having good technical expertise in the field of Telecom and Transmission Lines and other associated fields, we have successfully executed several overseas projects.



Vision

"Achieve Performance Excellence"
We will continuously strive to exceed our customers' expectations. We will deliver products, solutions and services that are optimum to meet all customer requirements. We achieve performance excellence in all endeavours.



Mission

- To provide services to our Customers in time and adapt to their changing needs
- Be a quality conscious valued supplier of products, solutions and services
- Empower Employees
- Be an equal opportunity employer and provide all employees with a platform for Growth and Leadership
- Maintain high standards of Corporate Governance
- Constantly strive to enhance shareholder value



Quality policy

Appreciate and accomplish customers' requirements and offer optimal solutions.



Values

- Commitment to Customers, Employees and Shareholders
- Ethical behavior
- Respect for every individual
- Aversion to waste
- Lead by example



Towers and Sub-Station Structures



Manufacturing Capabilities

Aster has the capability to execute projects from basic design to detail engineering, fabricate and test of prototypes and product manufacturing

Aster design team includes qualified and well experienced engineers and are equipped with latest software packages and required hardware tools

For designing we use Design standards conformed to

- iTOWERS Designer *mw*
- iTOWERS Designer *tl*
- STAAD.Pro
- MS Pole
- PLS Tower
- IS 875:1964, IS 800:1984 and IS 802:1984 Indian
- EIA/TIA 222-G Telecommunications Industry Association
- SEI/ASCE 10-97 & 48-05 American
- BS8100-1:1986, BS8100-3:1999 British
- AS3995-1994 Australian
- SABS South African

For detailing

- bocad-3D

We optimize Tower designs leading to total economy for the customers. Whenever customer seeks, validation of designs and testing is carried out by third party agency.

Aster has 6 facilities for Tower manufacturing along with integrated galvanising plants. The total capacity of these plants is 142,320 MT per annum.

The machinery includes

- CNC operated Angle cutting, hole and number punching machines
- Notch cutting machines
- Angle bending machines
- Radial drilling machines
- Inert gas welding machines

Strict quality assurance norms are adhered to at each stage of manufacturing.

We use international standards in packing and delivering the material.



Towers and Sub-Station Structures

Product Range

- Lattice Cell Towers upto 100 meters
- Broadcast Towers upto 170 meters
- Guyed Masts upto 500 meters
- Lattice Transmission Towers upto 765 kV
- Windmill Towers upto 100 meters
- Lattice Substations

Based on cross section of tower

- Square Towers
- Triangular Towers
- Delta Towers

Based on type of sections

- Angular Towers
- Hybrid Towers (Legs with tubes and bracings with angles)

Based on placement of tower

- Ground Based Towers
- Roof Top Towers



Poles

Aster has a state of the art Pole (multifaceted) manufacturing facility along with an integrated galvanising plant. The total capacity of this plant is 30,000 MT per annum.

Octagonal Poles range from 3m to 14m

Application

- Street lighting
- Highway lighting
- Park/Garden lighting
- Factory lighting
- Sign boards

High Mast range from 12m to 60m

Application

- Junction lighting
- Stadium lighting
- Sea port lighting
- Yard lighting
- Airport lighting

Monopoles range from 6m to 60m

Application

- Telecommunications
- Radio Communications
- Power Transmission

The machinery includes

- CNC operated press brake (can bend 12 m long and 22mm thick plates)
- CNC Plasma profile cutting machine (bed size 16m X 4m), can cut Steel Plates up to 20mm thick
- Pole closing and welding machines
- Pole straightening machines
- Galvanising bath with a length of 13 mtrs, width of 2.5 mtrs and depth of 2.5 mtrs



Shelters

Salient features of our shelters

- Reinforced roof panels
- Long life with zero maintenance
- Door fitted with stainless steel hinges and suitable lock
- Water proofing to the joints of the ceiling panels
- Air & water tight to achieve IP54 level protection
- Projected roof of 150 mm on all sides for rain protection
- Torque groove configuration with inbuilt unpickable eccentric cam locks
- Base frame is designed with bolted beam channel grid to withstand a uniform weight of 3500 Kg/M²
- Modular wall & roof panels to withstand 200Kmph wind load conditions
- Roof (snow) loading capacity 250 Kg/M²
- Self standing, self supporting galvanized steel structure
- Floor internal: 19 mm marine grade ply with internal skin

Our Shelter manufacturing unit is equipped with state of the art machinery and qualified and experienced Engineers and technicians.

Aviation Lamp

With its unique Electronic and Mechanical design makes it safe, reliable, highly productive and resistant in extreme conditions (as per specifications of ICAO [International Civil Aviation Organization]), long life, all with zero maintenance cost.

The special technology of high intensity LEDs (Red-Super bright view), makes it energy efficient. Input Voltage 80-270V AC



Power Control Unit (PCU)

PCU is designed to be compact integrated power feeding solution to the telecom base station.

This state of the art Power Control Unit consists of:

- Best phase selector (out of 2/3 phases)
- Isolation transformer
- Servo stabiliser
- AMF panel
- Alarms panel

Location	Indoor/Outdoor
Power Capacity	10KVA/15KVA/25KVA
Mains I/P	Phases : 1 phase, 2 phases and 3 phases
	Voltage range : Phase-Neutral 100-270 / 135-280
DG I/P	Phases : 1 phase and 3 phases
O/P Voltage	220v +/- 10 % with Static Voltage Regulator (Thyristor based)
Best Phase pair selection	in case of 1 / 2phases
Site Alarms monitoring and reporting	Fire/smoke alarm, DG alarm, AC alarms, Door alarm etc.



VRLA Batteries

Batteries for Telecom industry (fixed line operators, cellular service providers, switch & exchange OEMs) and Railways.

Spectrum of applications include

- Telecommunication
- Power Plants
- Standby Equipment
- Process & Service Industry
- Defense
- Motive Power
- Railways
- Renewable Energy
- Un-interruptible Power Supplies

Our reach



Aster Private Limited

International Business Operations

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