



*Em-powering the nation!!!*

- Transmission Line Construction
- Substations Construction
- Power Distribution
- Design, Manufacture, Test and Supply of Transmission Line Towers
- Infrastructure Electrification



# The Company

Aster is an ISO 9001 certified company. Managed by dedicated professionals with expertise in different business segments, the company is always responsive to the changing product needs of the clientele. With focus and strategic fusion of independent Strategic Business Units (SBUs) Aster assures dependable services, on time delivery and high quality products.

**Aster Transmission and Distribution** provides total turnkey solutions for power sector and other customers

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## Tower Supply (TWS)

### Design competence

Our design teams use latest software packages (PLS-Tower, iTowers Designer TL, STADD Pro., bocad-3D, AutoDesk Inventor, progeCAD etc.) to design and optimize Towers that are an optimal solution to our customers' requirements. On requirement by customers, validation of designs and testing can be done by third party agencies such as SERC Chennai, and CPRI Bengaluru.

### Infrastructure

Our main unit is located at Hyderabad which got accreditation with ISO 90001:2008, with matured design and development facilities. It is equipped with sophisticated laboratories for chemical and mechanical testing of the materials. The production is monitored and handled by technically experienced staff. The production unit is spread over 145,686 Sq. meters with production capacity of 60,000 MT per annum and galvanization capacity of 78,000 MT per annum.

We also have a manufacturing facility at Raipur which is spread over 182,110 Sq. meters with production capacity of 45,000 MT per annum and galvanization capacity of 45,000 MT per annum.



## Supply track record

Aster has successfully executed various Transmission Line Towers and Substation structures of state utilities as well as PGCIL. Repeat orders and confidence conveyed by long standing customers holds testimony to Aster service standards. Aster T&D is rapidly expanding its customer base across the country and overseas.

- 1200 kV Single circuit towers to Power Grid Corporation of India Limited (PGCIL). This is the first line of this capacity in India
- 765 kV Double and Single circuit towers to Power Grid Corporation of India Limited (PGCIL)
- 400 kV Double circuit Transmission Line Towers to Power Grid Corporation of India Limited (PGCIL), RRVPNL, Tata Projects Limited (TPL), APTRANSCO, MSETCL, GETCO, LANCO, EMC, GVPR and Areva T&D India Limited
- 220/132/66 kV Transmission Line Towers Supply to KSEB, Siemens T&D india, KPTCL, APTRANSCO, HVPNL, UPPTCL, MSETCL, OPTCL and CSPDCL
- 220/132/66/33/11 kV Substation Structures to MPPTCL, APTRANSCO, OPTCL, KSEB, MSETCL, KPTCL and their vendors
- 220/110 kV Multi Circuit Towers supplied to APTRANSCO, KPTCL



## Transmission Line Construction (TLC)

Aster is one of the leading companies in the execution of Turnkey/partial turnkey projects of Transmission Lines in India. As an EPC contractor, the scope of work involves Design & Detailing of Towers, Testing, Manufacturing including Galvanization of Towers, Survey, Route Optimization, Foundations/Civil Works, Erection, Stringing, Testing and Commissioning of Transmission Lines. Construction activities of Transmission lines in 1200 kV, 765 kV, 400 kV, 220 kV, 132 kV and 66 kV for PGCIL, APTRANSCO, GETCO, MPPTCL, MSETCL, KPTCL, RRVPNL, HVPNL, UPPTCL, Vedanta Energy Ltd. and various SEBs stand testimony to our competence. For customers requirement of narrow based towers or for those facing corridor problems or for transmission lines in densely populated areas, Aster has unique and cost effective solution of employing Monopoles (Polygonal) designed and manufactured in-house using CNC machines.

Aster is equipped with experienced and skilled manpower and necessary tools and plants to accomplish the construction activity. In Route Alignment and Tower Spotting we utilize state-of-the-art gadgets viz. DGPS, Total Stations, Digital Theodolites and Satellite Imagery and PLS-CAD. For a 1200 kV, 765 kV, 400 kV lines stringing, Aster deploys Tension Stringing Equipment imported from Tesmec, Italy. Aster has commissioned a large number of Transmission Lines upto 400 kV voltage level, for various Power utility companies. These lines are in successful use for the last few years. In all Aster has completed 413 km of 400 kV Lines & 450 km of lines below the voltage level of 400 kV.



## Infra Electrification (IE)

The company undertakes works related to internal/external electrification of buildings and Commercial complex, Shopping Malls, Residential colonies, Townships, Industrial Parks - IT, ITES, SEZ, Bio-tech, Apparel, Industries and Establishments, Hotels and Hospitals.

### The service components range through

- Internal electrification works for multi storied buildings
- Design, engineering and consultancy support
- Turnkey contracts involving design, supply, installation & testing of equipment
- Distribution transformers, control & relay panels, circuit breakers, cabling, ducting, metering
- Fire alarm systems & Smoke detection systems, PA system, CCTV and access control systems
- LAN /WAN Networking, stabilized source of supply.



## Extra High Voltage (EHV) Substation

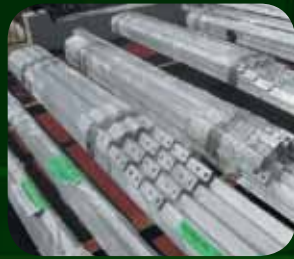
Aster embarks on design to commissioning of Substations upto 400 kV. The scope of the services broadly covers Soil Investigation, Structural Foundations-cum-Construction, Supply and Installation of Equipment, Earth Mats, Cable Duct Runs, Control Rooms, Approach Roads, Culverts, Switch Yards, Fencing, Terminal Bays, Installation and Testing of Power Transformers, Breakers, Isolators, CT/PT, Lightning Arrestors, Control and Relay Panels, Battery Banks, Yard Lights and Air Conditioning of Control Room. Substations constructed by Aster are in use at KPTCL for over two years now.

The Clientele from PSUs includes - APTRANSCO, GETCO, OPTCL, KPTCL, MPPTCL and customers from private sector - TATA Projects, L&T and Areva.

## Distribution Systems (DTS)

Aster also handles turnkey works related to Check Survey, Consumer Indexing, Distribution Network Analysis & Optimization, GIS Integration for EMS, Rural Electrification, Substation, Sub-Transmission lines, Augmentation, Feeder Separation and Substation & Distribution System Automation.

The Clientele includes power utilities Maharashtra State Electricity Distribution Company Limited (MSEDCL), Madhya Pradesh Poorv Kshetra Vidyut Vitaran Company Ltd., Madhya Pradesh Madhya Kshetra Vidyut Vitaran Company Ltd, Madhya Pradesh Pashchim Kshetra Vidyut Vitaran



**Aster Private Limited**

**Transmission & Distribution**

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