



*We Integrate Communications...feel the connection*

- 
- Engineering Services (Wireless & Wireline Networks)
  - Design, Manufacturing and Supply of Tower
  - Cell Site Infrastructure Construction
  - OSP works for Optical Fiber Communication Networks
  - Manufacturing and Installation of Shelters
  - Installation and Commissioning of Telecom Equipments
  - Operation and Maintenance of Networks
  - Project Management Services



# The Company

Aster 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, Project management and Maintenance of telecom networks and has attained a distinctive position in the Indian Telecom space.

Governed by dedicated professionals with diverse expertise in different business segments, the company is always responsive to the changing product needs of the clientele. With perfect focus and strategic fusion of independent Strategic Business Units (SBUs) Aster assures dependable service bandwidth, adhering to planned time lines and meticulous quality norms.

## Products & Services

The company achieved competence in delivering products and services ranging through

- Engineering Services (Wireless & Wireline Networks)
- Design, Manufacturing and Supply of Tower
- Cell Site Infrastructure Construction
- OSP works for Optical Fiber Communication Networks
- Design, Manufacture and Supply of Telecom Shelters
- Installation and Commissioning of Telecom Equipments (GSM/CDMA/Wimax/Optical Transmission/Satellite)
- Operation and Maintenance of Networks
- Project Management Services



## Radio Frequency Engineering Services (Wireless)

Radio frequency engineering service is provided for all wireless networks such as GSM, CDMA and Wireless Broadband networks like Wi-Fi, WiMax and LTE. The skilled and consummate service team ensures that the network design with its multi-technology capabilities meets the performance objectives of customers.

### Radio Network Design & Planning

- RF Nominal Planning
- RF Site Surveys & Site Selection
- In Building Solution Planning

### Transmission Network Design & Planning

- Transmission Planning
- Microwave Line of Sight Survey
- Microwave Link Budgeting and Link Engineering
- Microwave Network Planning

### Drive Test & Optimization

- Drive Test for GSM / CDMA Networks
- Comparative Drive Tests
- Post Processing of Drive Test Data for Network Optimization

## Engineering Services (Wireline)

- Topo Map study, OFC Route Design & feasibility study
- OFC Survey (Long distance / Access)
- Soil investigation, preparing BOM and estimation
- Row clearance
- GIS based Optical Fiber Network Design
- LAN / WAN Networks for Enterprises



## Telecom Towers Design & Supply

Qualified and competent in-house design teams at Aster are proficient in designing and developing all types of towers using relevant and latest software that use national standards.

ATPL has seven tower manufacturing units with total production capacity of 170,000 MT per annum, spread through three strategic locations of Hyderabad, Raipur and Vadodara. This ensures cost effectiveness and proximity to the customer site locations.

Equipped with state-of-the-art technology and machinery for Tower Manufacturing and allied Structural Fabrication Facilities and with significant technical expertise, Aster builds solutions that are fast and reliable.

### Product Range

#### Based on Design of Tower

- Square Angular Tower
- Tri-Angular Tower
- Polygonal Tower
- Monopoles
- Guyed Masts

#### Based on type of Material Sections

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

#### Based on Placement of Tower

- Ground Based Towers
- Roof Top Towers

#### Poles

- Roof Top Poles
- Wall Mounted Poles



## Engineering Constructions & Projects

We provide complete Turnkey Infrastructure construction solutions for Telecom Sites

### Scope

- Site Soil / Structural Survey and foundations design
- Site layout and drawings
- Approvals from local statutory bodies or municipal authorities
- Construction of Tower, Shelter & DG Foundation and other related civil works Viz. Site Leveling, Access Road, Guard Room, Fencing, Compound Wall, Security Gates
- Tower Erection and Painting
- Earthing Systems
- Supply & Installation of Shelters
- Indoor and Outdoor Electrical Works including Installation of Lightning Arrestors and Aviation Lamps
- Supply and Installation of Active Infrastructure items like Power Plant, PMUs / PIUs / PSUs, A/Cs, DGs, Batteries and Telecom Cell Site Monitoring System
- EB Liaisoning for power connection at cell sites



## Equipment Installation and Commissioning

Experienced and Qualified Engineers are deployed for installation and commissioning of all Telecom equipments.

### Scope

Installation & Commissioning of

- BTS / BSC (GSM / CDMA / Wimax / LTE) and MW equipment
- SDH / DWDM equipment
- L2/L3 Switches, Routers, Metro Ethernet Network (IP Core / Aggregation Edge)
- FTTH / FTTX Wireline BWA (GEPON / EPON)
- NOCC Testing for VSAT equipment
- Equipment for In building solutions
- Network Management System

## Operation & Maintenance

Operation and maintenance division endeavor to provide dependable, qualitative and responsive solutions to meet customer requirements. The services provided are cost effective. The teams deployed are project specific and well trained with required skills.

### Scope

- First Level Maintenance of BTS/BSC equipments (GSM/CDMA/Wimax/LTE)
- Optical Fiber Cable Network Maintenance
- Infra Maintenance of BTS / BSC Sites
- Infra Maintenance of Data Centers / MSC
- Maintenance of Enterprise Network (Voice / Data / Video)



## Outside Plant Services - OFC(NLD/Access)

- Underground OFC laying, termination
- Aerial Cabling
- Construction of Repeater / Regenerator
- Link testing
- Design, Supply & Installation of Optical Network Management System
- Integrated GIS Brand Optical Fiber Network Management System
- Fiber Intrusion System, Remote test equipment of monitor live fiber
- Supply, Installation, Commission & Testing of Physical Layer monitoring equipment of OFC overrr

## Project Management Services

The project management team is experienced and accomplished to manage and execute all activities from site survey to integration. The team Plans and Manages the Project to meet the Time Lines.

### Scope

- Site Survey, Soil / Structural Testing and design of Foundations
- Planning, scheduling, execution, monitoring & controlling
- Analyzing & reporting of Project status
- Product and Services inspection
- Liaisoning for EB, local body approval, Electrical Inspectorate
- Site Acceptance Test (AT) and documentation



*Our Customers Grow...and so we do*



**Aster Private Limited**

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