



# Aster Profile

**Aster Private Limited**

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## 1 About Aster

Aster with its vibrant integral units is bringing International standards with local competencies. Its vision of achieving performance excellence and creating standards is pushing the limits each time and paving way for more exciting things across the globe.

The present projects underway in 27 nations across the globe are the minute example of Aster's global impact. With its fast growth in diverse industries viz. Telecom, Transmission & Distribution, Special Structures and International Business Operations it is moving in the right direction to capture the global market.

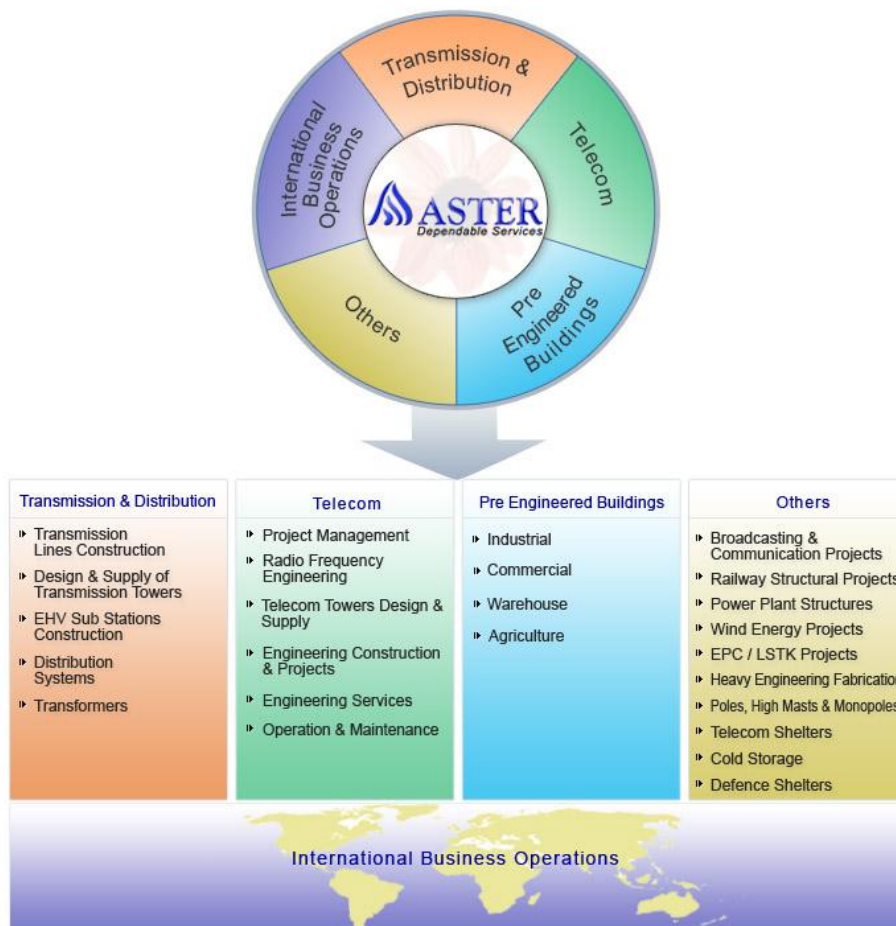
With the promise shown already, Aster is sure of joining some big names in the market in its pursuit of excellence in the near future.

## 2 Portfolio

We are a customer focused organization. In order to achieve higher levels of efficiency, we have removed conventional layers of management, and designed a non-hierarchical system, which lays emphasis on empowered teams.

Our project teams operate as a customer controlled unit, giving top priority to customer needs. The communication channels are completely transparent to the customer. The project team is an empowered entity, designed to give quick response to the customer.

A broad business portfolio is:



## 2.1 Human Resource Development

Aster follows a Human Resource Development program, which caters to:

- Tracking, monitoring and improvement of the skill levels of the employees
- Employee training programs
- Ensuring the safety and health concerns of all employees

## 2.2 Learning Centre

This Centre is responsible for knowledge transfer across project teams. After completion of each project, the experiences are presented through documents and interactive sessions. This Center also collects and maintains project data for ready reference and use. The necessary technical literatures are available with our Learning Centre.

# 3 Quality Systems

**All our Manufacturing Units and Service Divisions are accredited with 'ISO-9001:2008', 'ISO-14001:2004' and 'OHAS-18001:2007'**

## Quality Leadership

The executive management has developed the **Vision, Mission, Quality Policy and Quality Objectives** as part of the leadership process.

### 3.1 Vision

***Achieve Performance Excellence and Create Standards***

### 3.2 Mission

***Provide dependable services in response to changing needs and to provide value addition in all our endeavors as well as maintaining high standards of quality.***

### 3.3 Aster Values

- Hierarchy less matrix organization
- Teams based organization driven by project needs
- Leadership evolution
- Empowered manpower
- Informal work culture
- Knowledge creation & sharing
- Respect for individual

### 3.4 Quality Policy

***We will understand and fulfill our customer's needs, provide responsible solutions. We will support our customers in achieving their overall system goals. We strive for continual improvement of our QMS and processes.***

## 4 Portfolio

### 4.1 Transmission & Distribution

#### 4.2.1 Transmission Line Construction

- Survey, Profile Plotting and Tower Marking
- Civil Foundation and Erection of Transmission Towers
- Stringing, Testing and Commissioning of Transmission Lines

#### 4.2.2 Distribution Systems

- GIS Survey, Asset Mapping & Analysis and Consumer Indexing
- Turnkey EPC for Power Distribution Network establishment
- Network Optimization and EPC of Feeder Separation
- Franchising and UG cabling
- Operation & Maintenance
- Unmanned Substations and SCADA Implementation

#### 4.2.3 EHV Substations Construction

- Site Survey, Layout Design and Detailing
- Civil Construction, Erection, Testing and Commissioning of Substations upto EHV class

#### 4.2.4 Transmission Towers Design & Supply

- Design, Manufacturing and Supply of Galvanized Transmission Line Towers
- Design, Manufacturing and Supply of Galvanized Substation structures

#### 4.2.5 Transformers

- Design, Build, Testing, Supply and Commissioning of Distribution Transformers

### 4.1 Telecom

#### 4.1.1 Project Management Services

- Turnkey Project Management
- Task / Scope Based Project Management

#### 4.1.2 Radio Frequency Engineering Services

- RF Survey & Nominal Cell Planning
- CW Test for Model Tuning
- RF Network Planning and Designing
- Drive Test & Network Optimization
- RF Network KPI analysis and Post-processing
- Comparative Drive Test for Network Benchmarking
- Microwave LOS Survey and Link Engineering
- Microwave Network Planning

#### 4.1.3 Telecom Towers Design & Supply

- Design, Manufacturing and Supply of Telecom Towers
- Soil and Structural Testing and Analysis

#### **4.1.4 Engineering Constructions & Projects**

- Turnkey Telecom Site Infra Preparation
- Site Survey, Soil Investigation and Structural Stability analysis
- Foundation and Layout Design & Construction of Telecom Shelter & DG bed
- Construction of foundations for Rooftop and Ground based Towers
- Installation & Painting of Towers
- Earthing and Electrification of Cell Site
- Installation, Testing & Commissioning of OEMs viz. Power Backup Systems, Power Management Units, Diesel Generators, Air Conditioners etc.
- Site Documentation

#### **4.1.5 Engineering Services**

- Installation, Testing & Commissioning of all ranges of Telecom equipments related to GSM, CDMA and WiMax
  - Transportation Carrier-Optical (DWDM - SDH / SONET / ATM)
  - Transportation Carrier-Terrestrial Microwave (SDH / PDH)
  - Telecom Switches
- Network Integration
- In-building solutions for wireless networks
- IT Enabled Services
- Entrepreneur Solutions

#### **4.1.6 Operation & Maintenance**

- Telecom Cell Sites Maintenance
- Optical Fiber Networks Maintenance
- Professional Services
- Managed Services

### **4.3 Pre Engineered Buildings**

#### **4.3.1 Industrial**

#### **4.3.2 Commercial**

#### **4.3.3 Warehouse**

#### **4.3.4 Agricultural**

### **4.4 International Business Operations**

- Identify potential customers in various countries
- Execution of projects overseas
- Turnkey solutions for project evolution

### **4.5 Others**

#### **4.5.1 Broadcasting & Communication**

- Design, Manufacturing and Supply of Broadcast Towers
- Civil Construction for Broadcast Towers / Guyed Masts
- Erection of Broadcast Towers / Guyed Masts

#### **4.5.2 Railway Structural Projects**

- Supply of OHE structures for railways

#### 4.5.3 Power Plant Structures

- Supply of General fabrication and Auto weld boiler supporting structures
- Supply of Coal bunkers / Mechanical dust collectors/ Ducts

#### 4.5.4 Wind Energy

- Design, Manufacturing and Supply of Windmill Towers

#### 4.5.5 Poles, High Masts & Monopoles

- Design, Manufacturing and Supply of Monopoles & High Masts
- Civil Foundation and Erection of Monopoles & High Masts

#### 4.5.6 Telecom Shelters

- Design, Manufacturing and Supply of Telecom Shelters
- Civil Foundation and Installation of Telecom Shelters

#### 4.5.7 Cold Storage

- Design, Manufacturing and Supply of Cold Storage Cabins
- Civil Foundation and Installation of Cold Storage Cabins

#### 4.5.8 Defense Shelters

- Design, Manufacturing and Supply of Defense Shelters
- Civil Foundation and Installation of Defense Shelters

## 5 Our Strengths

### 5.1 Design & Testing

We are well equipped with highly experienced Engineers / Technicians and all necessary tools, test equipment for execution of various projects and to name some of them are:

**For Design of Power Transmission & Distribution Lines, Telecom Towers, Windmill Towers, Monopoles, High Masts, Broadcast and Guyed Masts Design:**

| Software              |                       | Hardware                   |
|-----------------------|-----------------------|----------------------------|
| • PLS-CADD v9.28      | • PLS-Tower 2011      | • Total Station            |
| • iTOWERS Designer TL | • iTOWERS Designer MW | • In-house Test Facilities |
| • bocad-3D            | • STAAD.Pro 2005      | • GPSs                     |
| • MS Pole v6          | • AutoDesk Inventor   | • Plotters & Printers      |
| • progeCAD 2010       |                       | • Digital Theodolites      |

**For Testing of Power, Telecom Network Planning & Designing, Site Construction Works, Installation, Testing & Commissioning**

|  |                               |
|--|-------------------------------|
| • RF Network Planning Tools              | • OTDRs                       |
| • Pathloss for MW Planning & Engineering | • Optical Talk Sets           |
| • Site Masters                           | • Fiber Optic Tool Kits       |
| • Total Stations                         | • RF Air-Interface test Tools |
| • Arc Fusion Splicing Machines           | • RF Post Processing Tools    |
| • Digital Theodolites                    | • Site Masters                |

## 5.2 Manufacturing

Installed Fabrication capacity of 142,320 MTTA and Galvanization capacity of 187,320 MTTA for Steel products; 600,000 Sq. meters of Ploy Engineering Systems with manufacturing facilities located at three strategic locations in India to meet the clients needs

**Manufacturing Capacity of Steel Products ranges from Power Transmission, Distribution, Substations, Telecom Towers / Masts / Poles, Windmill Towers, Telecom Monopoles, Lighting High Masts, Broadcast Towers and Guyed Masts, Pre Engineered Buildings and Poly Products.**

| Location                | Specialization   | Manufacturing Capacity (Annual) | Galvanization Capacity (Annual) | Manufacturing Floor Area (Sq. m) |
|-------------------------|--|---------------------------------|---------------------------------|----------------------------------|
| Hyderabad (Choutuppal)  | Power, Telecom, Broadcast, Railways, Windmills, Monopoles and Lighting Masts | 52,200 MT                       | 108,000 MT                      | 145,686                          |
| Hyderabad (Cherlapally) | Telecom Towers and Windmills   | 30,000 MT                       | 30,000 MT                       | 80,937                           |
| Raipur (Unit – I)       | Power, Telecom   | 21,000 MT                       | 21,000 MT                       | 40,468                           |
| Raipur (Unit – II)      | Power, Telecom   | 24,000 MT                       | 24,000 MT                       | 182,110                          |
| Hyderabad (Cheriyala)   | Tubular & Angular Towers   | 10,800 MT                       | -                               | 26,305                           |
| Vadodara                | Telecom Towers   | 4,320 MT                        | 4,320 MT                        | 18,210                           |
| Hyderabad (Jedcherla)   | Telecom Shelters, Cabinets, Cold & Clean Rooms                               | 12,000 Sq. m                    | -                               | 8,000                            |
| Hyderabad (Jedcherla)   | Pre-Engineered Buildings   | 50,000 MT                       | 50,000 MT                       | 153,780                          |

## 6 Our Clients and Executed Projects

### Transmission and Distribution

#### 6.1.1 Transmission Line Construction

**Double / Single Circuit Transmission Line on Turnkey basis - Survey, Design, Supply, Civil, Erection and Stringing for**

| Customer Name  | Voltage Class    | Quantity  |
|--|------------------|-----------|
| • Power Grid Corporation of India Ltd.               | 400 kV D/C       | 206.7 Rkm |
| • Gujarat Electricity Transmission Company Ltd.      | 400 kV D/C       | 84.1 Rkm  |
| • Transmission Corporation of Andhra Pradesh Ltd.    | 400 kV D/C       | 67.7 Rkm  |
| • Transmission Corporation of Andhra Pradesh Ltd.    | 220 kV D/C       | 11.1 Rkm  |
| • Maharashtra State Electricity Transmission Co. Ltd | 220 kV M/C & D/C | 8.0 Rkm   |
| • Madhya Pradesh Power Transmission Co. Ltd.         | 132 kV D/C & S/C | 220.0 Rkm |
| • Haryana Vidyut Prasaran Nigam Limited (HVPNL)      | 132 kV D/C & S/C | 71.0 Rkm  |
| • DPSC Ltd.  | 132 kV D/C & S/C | 29.5 Rkm  |
| • Orissa Power Transmission Company Ltd.             | 132 kV S/C       | 19.5 Rkm  |
| • Transmission Corporation of Andhra Pradesh Ltd.    | 132 kV D/C       | 15.1 Rkm  |
| • Karnataka Power Transmission Corporation Ltd.      | 110 kV D/C       | 23.8 Rkm  |
| • Karnataka Power Transmission Corporation Ltd.      | 66 kV S/C        | 65.6 Rkm  |

#### 6.1.2 Distribution Systems

**Rural Electrification work on Turnkey Basis - Survey, Load Analysis, Re-routing of Existing Lines, Design, Supply and Erection of New Lines:**

**For Maharashtra State Electricity Distribution Co. Ltd.**

|                                 |                      |                 |
|---------------------------------|----------------------|-----------------|
| <b>Substations</b>              | <b>Topology</b>      | <b>Quantity</b> |
| • New                           | 33/11 kV             | 12 Nos          |
| • Augmentation                  | 33/11 kV             | 10 Nos          |
| • Bay Extension                 | 33/11 kV             | 5 Nos           |
| <b>Distribution Line</b>        | <b>Voltage Class</b> | <b>Quantity</b> |
| • DTC                           | 33 kV                | 156 Rkm         |
| • DTC                           | 11 kV                | 1,065 Rkm       |
| • LT                            | 415 / 230 V          | 1,195 Rkm       |
| <b>Power Transformer</b>        |                      | <b>Quantity</b> |
| • 5 MVA                         |                      | 7 Nos           |
| <b>Distribution Transformer</b> |                      | <b>Quantity</b> |
| • 11 / .415 kV                  |                      | 3,150 Nos       |
| <b>Service Connections</b>      |                      | <b>Quantity</b> |
| • BPL Consumers                 |                      | 92,496 Nos      |

### 6.1.3 EHV Substations Construction

#### Design, Engineering, Supply, Installation, Testing and Commissioning of Extra High Voltage (EHV) Substations:

| Customer Name                                     | Voltage Class | Quantity |
|---|---------------|----------|
| • Transmission Corporation of Andhra Pradesh Ltd. | 220/11 kV     | 04 Nos   |
| • Transmission Corporation of Andhra Pradesh Ltd. | 132/11 kV     | 01 No    |
| • Karnataka Power Transmission Corporation Ltd.   | 66/11 kV      | 04 Nos   |

#### Design, Engineering, Supply, Installation, Testing and Commissioning of Extra High Voltage (EHV) Substation Bay Extension:

| Customer Name                                     | Voltage Class | Quantity |
|---|---------------|----------|
| • Transmission Corporation of Andhra Pradesh Ltd. | 220/11 kV     | 05 Nos   |
| • Orissa Power Transmission Company Ltd.          | 132/33 kV     | 06 Nos   |
| • Karnataka Power Transmission Corporation Ltd.   | 66/11 kV      | 01 No    |

### 6.1.4 Transmission Towers Supply

#### Design, Manufacturing and Supply of Transmission Towers:

#### 1,200 kV Transmission Towers Material - 3,970 MT

- Southern Petrochemical Industries Corporation Limited (SPIC)

#### 765 kV Transmission Towers Material - 8,005 MT

- Southern Petrochemical Industries Corporation Limited (SPIC)

#### 400 kV Transmission Towers Material - 62,660 MT

- Power Grid Corporation of India Limited
- Tata Projects Limited
- Kerala State Electricity Board (KSEB)
- Rajasthan Rajya Vidyut Prasaran Nigam Limited
- Southern Petrochemical Industries Corporation Limited (SPIC)
- Lanco Infratech Limited
- PT.Multifabrindo Gemilang
- Deepak Cables (India) Limited etc.,

#### 220 kV Transmission Towers Material - 5,051 MT

- Siemens T&D Limited
- Areva T&D India Limited
- Kerala State Electricity Board (KSEB)
- GVPR Engineers Limited
- ECI Engineering & Construction Company LIMITED
- Maytas Infra Limited
- Deepak Cables (India) Limited etc.,

#### 132 kV Transmission Towers Material - 6,694 MT

- Madhya Pradesh Power Transmission Company Limited (MPPTCL)
- Transmission Corporation of Andhra Pradesh Ltd (AP TRANSCO)
- Larson & Turbo Limited (L&T)
- Maytas Infra Limited
- ECI Engineering & Construction Company Ltd. etc.,

### **110 kV Transmission Towers Material**

- Karnataka Power Transmission Corporation Limited (KPTCL)
- BGR Energy Systems Limited
- GET Engineering Constructions Private Limited
- RR Dura Fabs Pvt. Ltd.
- Sharavathy Conductors Private Limited
- Kerala State Electricity Board (KSEB)
- Tata Projects Limited
- Southern Petrochemical Industries Corporation Limited (SPIC)
- Power Systems etc.,

### **66 kV Transmission Tower Material**

**- 2,343 MT**

- Karnataka Power Transmission Corporation Limited (KPTCL)
- Deepak Cables (India) Limited
- BGR Energy Systems Limited
- Sharavathy Conductors Private Limited etc.,

### **Manufacture and Supply of Substation structures:**

#### **400 kV Substation Structures**

**- 68 MT**

- Areva T&D India Limited

#### **220 kV Substation Structures**

**- 1,930 MT**

- Areva T&D India Limited
- Vijai Electricals Limited
- GVPR Engineers Limited
- Siemens T&D Limited etc.,

#### **132 kV Substation Structures**

**- 507 MT**

- Areva T&D India Limited
- Vijai Electricals Limited
- GVPR Engineers Limited
- RR Dura Fabs Pvt. Ltd.
- BGR Energy Systems Limited
- Maytas Infra Limited etc.,

#### **66 kV Substation Structures**

**- 64 MT**

- Karnataka Power Transmission Corporation Limited
- Siemens T&D Limited
- KB Contractors etc.,

#### **33 V Substation Structures**

**- 64 MT**

- Vijai Electricals Limited etc.,

## 6.2 Telecom

### 6.2.1 Project Management Services

#### Project Management services for Telecom Infrastructure developments for

|  |             |
|--|-------------|
| • Bharti Airtel Limited                        | 4,522 Sites |
| • Indus Towers Limited                         | 2,482 Sites |
| • Quippo Telecom Infrastructure Limited        | 1,759 Sites |
| • Wireless-TT Info Services Limited            | 1,338 Sites |
| • Vodafone Essar Limited                       | 757 Sites   |
| • Nokia Siemens Networks India Private Limited | 620 Sites   |
| • Idea Cellular Limited                        | 07 Sites    |

### 6.2.2 Radio Frequency Engineering

|   |               |
|---|---------------|
| • RF Survey & Site selection<br>Ericsson, Idea, Loop (Pan India), Huawei  | 144,192 Sites |
| • MW LOS Survey & Verification<br>Ericsson, Alcatel-Lucent, Vodafone, Idea,<br>Reliance Infocom, Huawei, Loop (Pan India) | 228,330 Hops  |
| • DT & Network Optimization<br>Ericsson, Vodafone, Nortel, Idea, Nokia, Huawei  | 185,080 Sites |
| • Network Optimization & KPIs Commitments<br>Idea   | 1,000 Sites   |
| • CW for Model Tuning<br>ZTE  | 270 Sites     |
| • Spectrum Analysis<br>ZTE  | 80 Sites      |
| • EMF Survey<br>AP-Vodafone, Ke-Airtel, Aircel, Vodafone, Swan,<br>Uninor, Idea, Shyam, MTS                               | 2,898 Sites   |
| • TERM Drive Test<br>Uninor   | 12 Towns      |

### 6.2.3 Telecom Towers Design & Supply

#### Design, Manufacture and Supply of Ground Based / Roof Top Telecom Towers and accessories for

|   |           |
|---|-----------|
| • Vodafone Essar Limited                        | 5,181 Nos |
| • Bharti Airtel Limited                         | 4,482 Nos |
| • Indus Towers Limited                          | 2,398 Nos |
| • Idea Cellular Limited                         | 2,224 Nos |
| • Wireless-TT Info Services Limited             | 1,925 Nos |
| • Aircel Limited                                | 1,903 Nos |
| • Nortel Networks India Private Limited         | 1,823 Nos |
| • Huawei Technologies India Co. Private Limited | 1,587 Nos |
| • Reliance Infocomm Limited                     | 1,550 Nos |
| • Ericsson India Private Limited                | 1,326 Nos |
| • TowerVision India Private Limited             | 1,051 Nos |
| • Tata Teleservices Limited                     | 1,018 Nos |
| • Ascend Telecom Infrastructure Private Limited | 1,017 Nos |

|   |         |
|---|---------|
| • Nokia Siemens Networks India Private Limited      | 700 Nos |
| • Bharat Sanchar Nigam Limited                      | 496 Nos |
| • ITI Limited                                       | 435 Nos |
| • Quippo Telecom Infrastructure Ltd                 | 360 Nos |
| • Essar Telecom Limited                             | 350 Nos |
| • ZTE Telecom (India) Private Limited               | 322 Nos |
| • Sterling Projects & Engineering Limited           | 195 Nos |
| • Totalcomm Infra Services Private Limited          | 171 Nos |
| • Synergy Telecommunication                         | 123 Nos |
| • ATC Tower Company of India Private Limited        | 110 Nos |
| • Dishnet Wireless Limited                          | 101 Nos |
| • Xcel Telecom Private Limited                      | 69 Nos  |
| • Tata Communications Limited                       | 33 Nos  |
| • Datacom Solutions Private Limited                 | 22 Nos  |
| • Microqual Techno Private Limited                  | 19 Nos  |
| • Atharva Infracom Ltd                              | 19 Nos  |
| • Alcatel-Lucent technologies India Private Limited | 16 Nos  |
| • ACME Tele Power Ltd                               | 13 Nos  |
| • Nuclear Fuel Corporation                          | 11 Nos  |
| • Viom Networks Limited                             | 25 Nos  |
| • Goodwill Telecom Infrastructure Private Limited   | 09 Nos  |
| • Leadcom Integrated Solutions Limited              | 08 Nos  |
| • GTL Limited                                       | 05 Nos  |
| • Spanco Limited                                    | 04 Nos  |
| • Sistema Shyam Teleservices Limited                | 05 Nos  |
| • Jindal Steel & Power Limited                      | 02 Nos  |
| • Shyam Telelink Limited                            | 02 Nos  |
| • Arya Omnitalk Wireless Solutions Pvt Ltd          | 10 Nos  |

#### 6.2.4 Engineering Constructions & Projects

**Cell Site Layout Design; Construction of Equipment Room; DG, A/C, Battery Installation & Commissioning; Implementation of Fire Safety Systems, Access Control and Electrical Systems etc., for**

|   |             |
|---|-------------|
| • Bharti Airtel Limited                         | 4,075 Sites |
| • Vodafone Essar Limited                        | 3,447 Sites |
| • Nortel Networks India Private Limited         | 1,937 Sites |
| • Idea Cellular Limited                         | 1,850 Sites |
| • Aircel Limited                                | 1,213 Sites |
| • Reliance Infocomm Limited                     | 1,170 Sites |
| • Aster Infrastructure Private Limited          | 690 Sites   |
| • Tata Indicom Ltd                              | 574 Sites   |
| • Nokia Siemens Networks Limited                | 486 Sites   |
| • Ericsson India Private Limited                | 472 Sites   |
| • Indus Towers Limited                          | 418 Sites   |
| • Essar Telecom Infrastructure Private Limited  | 159 Sites   |
| • ZTE Telecom India Private Limited             | 130 Sites   |
| • Quippo Telecom Infrastructure Limited         | 54 Sites    |
| • Xcel Telecom Private Limited                  | 38 Sites    |
| • TowerVision India Private Limited             | 60 Sites    |
| • Alcatel-Lucent India Private Limited          | 20 Sites    |
| • Huawei Technologies India Co. Private Limited | 12 Sites    |

|                                |          |
|--------------------------------|----------|
| • ITI Limited                  | 12 Sites |
| • Dishnet Wireless Limited     | 05 Sites |
| • Bharat Sanchar Nigam Limited | 06 Sites |
| • Viom Networks Limited        | 04 Sites |

**Civil Foundation and Installation & Painting of Telecom Towers and Site Preparation services for Rooftop and Ground Based Towers for:**

|  |             |
|--|-------------|
| • Bharti Airtel Limited                              | 4,018 Sites |
| • Vodafone Essar Limited                             | 3,529 Sites |
| • Nortel Networks India Private Limited              | 2,603 Sites |
| • Idea Cellular Limited                              | 2,217 Sites |
| • Indus Towers Limited                               | 1,413 Sites |
| • Aircel Limited                                     | 1,361 Sites |
| • Reliance Infocomm Limited                          | 1,130 Sites |
| • Aster Infrastructure Private Limited               | 901 Sites   |
| • Nokia Siemens Networks India Private Limited       | 886 Sites   |
| • Huawei Technologies India Co. Private Limited      | 790 Sites   |
| • Ericsson India Private Limited                     | 652 Sites   |
| • Tata Indicom Limited                               | 570 Sites   |
| • Wireless-TT Info Services Limited                  | 496 Sites   |
| • Essar Telecom Infrastructure Private Limited       | 282 Sites   |
| • TowerVision India Private Limited                  | 271 Sites   |
| • Reliance Infocomm Limited                          | 173 Sites   |
| • ZTE Telecom Co Limited                             | 146 Sites   |
| • Quippo Telecom Infrastructure Limited              | 130 Sites   |
| • Bharat Sanchar Nigam Limited                       | 54 Sites    |
| • Sterling Projects and Engineering Limited          | 49 Sites    |
| • Xcel Telecom Private Limited                       | 46 Sites    |
| • Totalcomm Infra Services Private Limited           | 44 Sites    |
| • Alcatel-Lucent India Private Limited               | 20 Sites    |
| • ITI Limited  | 20 Sites    |
| • Synergy Telecommunication                          | 08 Sites    |
| • Loop Telecom                                       | 07 Sites    |
| • Leadcom Integrated Solutions India Private Limited | 05 Sites    |
| • Dishnet Wireless Limited                           | 08 Sites    |
| • Datacom solutions Pvt Ltd                          | 02 Sites    |
| • Sistema Shyam Teleservices Limited                 | 01 Site     |

## 6.2.5 Engineering Services Division

• **MW Equipment Installation & Commissioning for**

| <b>End User Name</b>     | <b>OEM Vendor</b> | <b>Quantity</b> |
|--------------------------|-------------------|-----------------|
| • Vodafone Essar Limited | NSN               | 6,590 Hops      |
| • Vodafone Essar Limited | NEC               | 1,006 Hops      |
| • Vodafone Essar Limited | Ericsson          | 447 Hops        |
| • Vodafone Essar Limited | ZTE               | 25 Hops         |
| • Vodafone Essar Limited | NERA              | 24 Hops         |
| • Bharti Airtel Limited  | NSN               | 2,467 Hops      |
| • Bharti Airtel Limited  | Ericsson          | 1,245 Hops      |
| • Bharti Airtel Limited  | NEC               | 14 Hops         |
| • Tata Indicom Limited   | NEC               | 741 Hops        |
| • Tata Indicom Limited   | NSN               | 53 Hops         |

|                                     |          |          |
|-------------------------------------|----------|----------|
| • Tata Indicom Limited              | ZTE      | 02 Hops  |
| • Tata Indicom Limited              | Huawei   | 65 Hops  |
| • Tata Indicom Limited              | Ceragoan | 19 Hops  |
| • Bharat Sanchar Nigam Limited      | Siemens  | 572 Hops |
| • Bharat Sanchar Nigam Limited      | NEC      | 258 Hops |
| • Bharat Sanchar Nigam Limited      | Ericsson | 47 Hops  |
| • Bharat Sanchar Nigam Limited      | Motorola | 02 Hops  |
| • Bharat Sanchar Nigam Limited      | Huawei   | 81 Hops  |
| • Reliance Infocomm Limited         | NEC      | 579 Hops |
| • Idea Cellular Limited             | NSN      | 566 Hops |
| • Idea Cellular Limited             | Ericsson | 393 Hops |
| • Idea Cellular Limited             | NEC      | 67 Hops  |
| • Idea Cellular Limited             | NERA     | 14 Hops  |
| • Idea Cellular Limited             | ZTE      | 04 Hops  |
| • Idea Cellular Limited             | Comba    | 02 Hops  |
| • BPL Mobile Communications Limited | NEC      | 273 Hops |
| • BPL Mobile Communications Limited | NSN      | 63 Hops  |
| • BPL Mobile Communications Limited | Huawei   | 128 Hops |
| • BPL Mobile Communications Limited | Ericsson | 15 Hops  |
| • BPL Mobile Communications Limited | Eclipse  | 14 Hops  |
| • BPL Mobile Communications Limited | BPL-MU   | 02 Hops  |
| • Aircel Limited                    | NSN      | 365 Hops |
| • Aircel Limited                    | Ericsson | 43 Hops  |
| • Aircel Limited                    | Nera     | 21 Hops  |
| • Aircel Limited                    | NEC      | 286 Hops |
| • Aircel Limited                    | Huawei   | 322 Hops |
| • Loop Telecom                      | ZTE      | 07 Hops  |
| • Unitech                           | Ericsson | 02 Hops  |
| • Unitech                           | Huawei   | 117 Hops |
| • Unitech                           | NEC      | 46 Hops  |
| • Ericsson                          | Aircel   | 05 Hops  |

• **Installation & Commissioning of GSM – BTS Radio equipments for**

| <b>End User Name</b>                | <b>OEM Vendor</b> | <b>Quantity</b> |
|-------------------------------------|-------------------|-----------------|
| • Vodafone Essar Limited            | NSN               | 6,103 Sites     |
| • Vodafone Essar Limited            | Ericsson          | 379 Sites       |
| • Vodafone Essar Limited            | Motorola          | 320 Sites       |
| • Vodafone Essar Limited            | ZTE               | 06 Sites        |
| • Bharti Airtel Limited             | NSN               | 2,272 Sites     |
| • Bharti Airtel Limited             | Ericsson          | 1,266 Sites     |
| • Bharat Sanchar Nigam Limited      | Nortel            | 550 Sites       |
| • Bharat Sanchar Nigam Limited      | Huawei            | 383 Sites       |
| • Bharat Sanchar Nigam Limited      | Alcatel-Lucent    | 128 Sites       |
| • Bharat Sanchar Nigam Limited      | Ericsson          | 85 Sites        |
| • Bharat Sanchar Nigam Limited      | NSN               | 26 Sites        |
| • Idea Cellular Limited             | NSN               | 602 Sites       |
| • Idea Cellular Limited             | Ericsson          | 344 Sites       |
| • Idea Cellular Limited             | Huawei            | 143 Sites       |
| • Idea Cellular Limited             | ZTE               | 58 Sites        |
| • BPL Mobile Communications Limited | Motorola          | 108 Sites       |
| • BPL Mobile Communications Limited | NSN               | 96 Sites        |
| • BPL Mobile Communications Limited | Huawei            | 136 Sites       |

|  |                   |                 |
|--|-------------------|-----------------|
| • BPL Mobile Communications Limited  | Ericsson          | 23 Sites        |
| • Nepal Doorsanchar Company Limited  | Huawei            | 192 Sites       |
| • Aircel Limited   | Huawei            | 317 Sites       |
| • Aircel Limited   | ZTE               | 276 Sites       |
| • Aircel Limited   | NSN               | 327 Sites       |
| • Aircel Limited   | Ericsson          | 82 Sites        |
| • Datacom solutions Pvt Ltd  | Huawei            | 370 Sites       |
| • Datacom solutions Pvt Ltd  | NSN               | 67 Sites        |
| • ETDB   | Huawei            | 361 Sites       |
| • ETDB   | ZTE               | 166 Sites       |
| • Etisalat   | Ericsson          | 12 Sites        |
| • Loop Telecom   | ZTE               | 24 Sites        |
| • Mahanagar Telecom Nigham Limited   | Alcatel           | 39 Sites        |
| • Mobile Telesystems   | ZTE               | 60 Sites        |
| • MTS  | ZTE               | 24 Sites        |
| • Huawei   | BSNL              | 374 Sites       |
| • Huawei   | Data Com          | 267 Sites       |
| • Huawei   | Idea              | 267 Sites       |
| • Huawei   | Tata              | 229 Sites       |
| • Huawei   | Reliance          | 169 Sites       |
| • Huawei   | Uninor            | 92 Sites        |
| • Huawei   | Airtel            | 91 Sites        |
| • Huawei   | Videocon-Loop     | 68 Sites        |
| • Huawei   | Aircel            | 26 Sites        |
| <br>   |                   |                 |
| • <b>Installation &amp; Commissioning of CDMA – BTS Radio equipments for</b> |                   |                 |
| <b>End User Name</b>   | <b>OEM Vendor</b> | <b>Quantity</b> |
| • Reliance Infocomm Limited  | Alcatel-Lucent    | 1,181 Sites     |
| • Reliance Infocomm Limited  | Huawei            | 1,656 Sites     |
| • Reliance Infocomm Limited  | ZTE               | 711 Sites       |
| • Reliance Infocomm Limited  | Nortel            | 36 Sites        |
| • Tata Indicom Limited   | ZTE               | 1,503 Sites     |
| • Tata Indicom Limited   | Huawei            | 985 Sites       |
| • Tata Indicom Limited   | Alcatel-Lucent    | 611 Sites       |
| • Tata Indicom Limited   | NSN               | 430 Sites       |
| • Tata Indicom Limited   | Ericsson          | 376 Sites       |
| • Tata Indicom Limited   | Motorola          | 17 Sites        |
| • Tata Indicom Limited   | Airwal            | 02 Sites        |
| • Unitech  | Huawei            | 1,084 Sites     |
| • Uninor   | NSN               | 35 Sites        |
| • Unitech  | Alcatel           | 34 Sites        |
| • Unitech  | Ericsson          | 14 Sites        |
| • Shyam Telelink Limited   | ZTE               | 537 Sites       |
| • Shyam Telelink Limited   | Ericsson          | 15 Sites        |
| • Shyam Telelink Limited   | Huawei            | 03 Sites        |
| • Bharat Sanchar Nigam Limited   | A-Lucent          | 128 Sites       |
| • Swan   | ZTE               | 22 Sites        |
| <br>   |                   |                 |
| • <b>Swapping of GSM / CDMA RBS</b>  |                   |                 |
| <b>End User Name</b>   | <b>OEM Vendor</b> | <b>Quantity</b> |
| • Bharti Airtel Limited  | NSN               | 582 Sites       |
| • Bharti Airtel Limited  | Ericsson          | 262 Sites       |
| • Vodafone Essar Limited   | NSN               | 513 Sites       |

|  |                   |                 |
|--|-------------------|-----------------|
| • Vodafone Essar Limited   | Ericsson          | 261 Sites       |
| • Vodafone Essar Limited   | Motorola          | 19 Sites        |
| • Reliance Infocomm Limited  | Alcatel-Lucent    | 233 Sites       |
| • Reliance Infocomm Limited  | ZTE               | 196 Sites       |
| • Reliance Infocomm Limited  | Huawei            | 20 Sites        |
| • Bharat Sanchar Nigam Limited   | Siemens           | 82 Sites        |
| • Tata Indicom Limited   | ZTE               | 387 Sites       |
| • Tata Indicom Limited   | Huawei            | 83 Sites        |
| • Tata Indicom Limited   | Ericsson          | 58 Sites        |
| • Tata Indicom Limited   | Alcatel-Lucent    | 07 Sites        |
| • BPL Mobile Communications Limited                                    | NSN Ltd           | 189 Sites       |
| • BPL Mobile Communications Limited                                    | Huawei            | 76 Sites        |
| • BPL Mobile Communications Limited                                    | Motorola          | 55 Sites        |
| • Idea Cellular Limited  | NSN Ltd           | 128 Sites       |
| • Idea Cellular Limited  | Ericsson          | 01 Site         |
| • Shyam Telecom Limited  | ZTE               | 18 Sites        |
| <br>   |                   |                 |
| • <b>Switch Installation (BSC, MSC, GGSN and RNC) for</b>              |                   |                 |
| <b>End User Name</b>   | <b>OEM Vendor</b> | <b>Quantity</b> |
| • Reliance Infocomm Limited  | Alcatel-Lucent    | 25 Sites        |
| • Reliance Infocomm Limited  | Huawei            | 20 Sites        |
| • Reliance Infocomm Limited  | ZTE               | 18 Sites        |
| • Reliance Infocomm Limited  | Huawei            | 12 Sites        |
| • Reliance Infocomm Limited  | Tekelec           | 10 Sites        |
| • Reliance Infocomm Limited  | NSN               | 07 Sites        |
| • Reliance Infocomm Limited  | Ericsson          | 01 Site         |
| • Bharat Sanchar Nigam Limited   | Tekelec           | 22 Sites        |
| • Bharat Sanchar Nigam Limited   | Siemens           | 17 Sites        |
| • Bharat Sanchar Nigam Limited   | Nortel            | 15 Sites        |
| • Bharat Sanchar Nigam Limited   | Huawei            | 09 Sites        |
| • Tata Indicom Limited   | Tekelec           | 14 Sites        |
| • Tata Indicom Limited   | ZTE               | 09 Sites        |
| • Tata Indicom Limited   | Huawei            | 07 Sites        |
| • Tata Communications Limited  | ZTE               | 01 Sites        |
| • Shyam Telecom Limited  | ZTE               | 02 Sites        |
| • Unitech  | Huawei            | 14 Sites        |
| • Unitech  | ZTE               | 01 Sites        |
| • Huawei   | Aircel            | 08 Sites        |
| • Huawei   | Tata              | 06 Sites        |
| • Huawei   | Uninor            | 05 Sites        |
| • Huawei   | Data Com          | 04 Sites        |
| • Mahanagar Telephone Nigam Limited                                    | Tekelec           | 02 Sites        |
| • Datacom solutions Pvt Ltd  | Huawei            | 02 Sites        |
| • Bharti Airtel Limited  | Tekelec           | 01 Site         |
| <br>   |                   |                 |
| • <b>Switch De- Installation for</b>                                   |                   |                 |
| <b>End User Name</b>   | <b>OEM Vendor</b> | <b>Quantity</b> |
| • Tata Indicom Limited   | Lucent            | 09 Sites        |
| <br>   |                   |                 |
| • <b>Installation &amp; Commissioning of SDH – ADM, SDM / DWDM for</b> |                   |                 |
| <b>End User Name</b>   | <b>OEM Vendor</b> | <b>Quantity</b> |
| • Tata Teleservices Limited  | ECI               | 6,827 NEs       |
| • Tata Communications Limited  | ECI               | 32 NEs          |

|                                |        |           |
|--------------------------------|--------|-----------|
| • Reliance Infocomm Limited    | Nortel | 1,234 NEs |
| • Vodafone Essar Limited       | ECI    | 691 NEs   |
| • Bharti Airtel Limited        | ECI    | 80 NEs    |
| • Bharat Sanchar Nigam Limited | Tejas  | 74 NEs    |
| • Aircel Limited               | ECI    | 17 NEs    |
| • Idea Cellular Limited        | ECI    | 04 NEs    |

• **Installation & Commissioning of Digital Loop Carrier (DLC) for**

| <b>End User Name</b>    | <b>OEM Vendor</b> | <b>Quantity</b> |
|-------------------------|-------------------|-----------------|
| • Bharti Airtel Limited | UTStarcom         | 302 NEs         |
| • Tata Indicom Limited  | UTStarcom         | 137 NEs         |
| • Airtel Limited        | UTStarcom         | 112 NEs         |

• **Installation & Commissioning of DSLAM for**

| <b>End User Name</b>    | <b>OEM Vendor</b> | <b>Quantity</b> |
|-------------------------|-------------------|-----------------|
| • Bharti Airtel Limited | Siemens           | 32 NEs          |

**Installation & Commissioning of LMDS for**

| <b>End User Name</b>        | <b>OEM Vendor</b> | <b>Quantity</b> |
|-----------------------------|-------------------|-----------------|
| • Reliance Infocomm Limited | Siemens           | 52 Links        |

• **Installation & Commissioning of FSO for**

| <b>End User Name</b>   | <b>OEM Vendor</b> | <b>Quantity</b> |
|------------------------|-------------------|-----------------|
| • Tata Indicom Limited | Siemens           | 06 Links        |

• **Installation & Commissioning of VSAT Equipment for**

| <b>End User Name</b>    | <b>OEM Vendor</b> | <b>Quantity</b> |
|-------------------------|-------------------|-----------------|
| • Indian Police Network | BEL               | 164 Terminal    |

• **Installation & Integration of MUX Equipment for**

| <b>End User Name</b>     | <b>OEM Vendor</b> | <b>Quantity</b> |
|--------------------------|-------------------|-----------------|
| • Tata Indicom Limited   | ECI               | 1,742 NEs       |
| • Vodafone Essar Limited | ECI               | 223 NEs         |
| • Bharti Airtel Limited  | ECI               | 86 NEs          |
| • Bharti Airtel Limited  | Siemens           | 02 NEs          |
| • Unitech                | Huawei            | 04 NEs          |
| • Unitech                | ECI               | 01 NEs          |
| • Huawei                 | Aircel            | 01 NEs          |
| • Idea Cellular Limited  | ECI               | 01 NEs          |

• **Expansion of GSM - RBS for**

| <b>End User Name</b>           | <b>OEM Vendor</b> | <b>Quantity</b> |
|--------------------------------|-------------------|-----------------|
| • Huawei                       | Tata 3G           | 192 Nos         |
| • Huawei                       | Aircel            | 54 Nos          |
| • Tata Indicom Limited         | Huawei            | 69 Nos          |
| • Tata Indicom Limited         | NSN               | 62 Nos          |
| • Tata Indicom Limited         | ZTE               | 25 Nos          |
| • Bharat Sanchar Nigam Limited | Huawei            | 56 Nos          |
| • Bharti Airtel Limited        | Ericsson          | 28 Nos          |
| • Bharti Airtel Limited        | NSN               | 33 Nos          |
| • Loop Telecom                 | ZTE               | 44 Nos          |
| • Vodafone Essar Limited       | Ericsson          | 13 Nos          |
| • Vodafone Essar Limited       | NSN               | 13 Nos          |

|  |                   |                 |
|--|-------------------|-----------------|
| • BPL Mobile Communications Limited        | Huawei            | 08 Nos          |
| • Aircel India Limited                     | NSN               | 05 Nos          |
| <b>• De-Installation of MW link for</b>    |                   |                 |
| <b>End User Name</b>                       | <b>OEM Vendor</b> | <b>Quantity</b> |
| • Vodafone Essar Limited                   | NSN               | 22 Hops         |
| • Huawei                                   | Uninor            | 11 Hops         |
| • Huawei                                   | BSNL              | 08 Hops         |
| • Huawei                                   | Aircel            | 01 Hops         |
| <b>• Electrification of Cell Sites for</b> |                   |                 |
| <b>Customer Name</b>                       |                   | <b>Quantity</b> |
| • Reliance Infocomm Limited                |                   | 49 Sites        |
| • Vodafone Essar Limited                   |                   | 49 Sites        |
| • Idea Cellular Limited                    |                   | 29 Sites        |

## 6.2.6 Operation & Maintenance

|   |  |                     |
|---|--|---------------------|
| <b>• Telecom Cell Sites Passive / Active Infrastructure Maintenance for</b> |  |                     |
| <b>Customer Name</b>  |  | <b>Quantity</b>     |
| • Ericsson India Private Limited  |  | 514,321 Site Months |
| • Vodafone Essar Limited  |  | 396,909 Site Months |
| • Bharti Airtel Limited   |  | 71,367 Site Months  |
| • Bharti Infra Structure Pvt Ltd  |  | 9,167 Site Months   |
| • Aircel India Private Limited  |  | 48,097 Site Months  |
| • Nortel Networks India Private Limited                                     |  | 46,228 Site Months  |
| • Wireless-TT Info Services Limited   |  | 38,339 Site Months  |
| • GTL Limited   |  | 28,313 Site Months  |
| • Aster Infrastructure Private Limited                                      |  | 21,665 Site Months  |
| • Reliance Communications Limited   |  | 16,271 Site Months  |
| • Power Grid Corporation of India Limited                                   |  | 7,127 Site Months   |
| • Tata Teleservices Limited   |  | 5,252 Site Months   |
| • Nokia Siemens Networks India Private Limited                              |  | 4,510 Site Months   |
| • Indus Towers Limited  |  | 3,801 Site Months   |
| • Tower Vision India Private Limited  |  | 3,698 Site Months   |
| • Viom Networks Limited   |  | 1,863 Site Months   |
| • GAIL (India) Limited  |  | 211 Site Months     |
| • Quippo Telecom Infrastructure Ltd.  |  | 145 Site Months     |
| • Loop Telecom Pvt Ltd  |  | 12 Site Months      |
| <b>• Optical Fiber Networks Route Maintenance for</b>                       |  |                     |
| <b>Customer Name</b>  |  | <b>Quantity</b>     |
| • Tata Communications Limited   |  | 684,332 Rkm Months  |
| • Vodafone Essar Limited  |  | 318,644 Rkm Months  |
| • Railtel Corporation Limited   |  | 286,114 Rkm Months  |
| • Bharti Airtel Limited   |  | 185,776 Rkm Months  |
| • Idea Cellular Limited   |  | 54,514 Rkm Months   |
| • Power Grid Corporation of India Limited                                   |  | 29,721 Rkm Months   |
| • Gas Authority of India Limited  |  | 16,584 Rkm Months   |
| • Reliance Communication Limited  |  | 7,000 Rkm Months    |
| • Alcatel-Lucent network Management Services India Ltd                      |  | 4,950 Rkm Months    |
| • Nokia Siemens Networks India Private Limited                              |  | 3,783 Rkm Months    |

- Tulip India Limited
  - Dishnet Wireless Limited
- 1,229 Rkm Months  
423 Rkm Months
- **OFC Route Fault Rectification for**

| <b>Customer Name</b>        | <b>Quantity</b>    |
|-----------------------------|--------------------|
| • Tata Teleservices Limited | 281,011 Rkm Months |
  - **Deployment of Professional Manpower for Operation and Maintenance of BSS and OMC-R etc., for**

| <b>Customer Name</b>                            | <b>Quantity</b>  |
|---|------------------|
| • Ericsson India Private Limited                | 6,446 Man Months |
| • Nortel Networks India Private Limited         | 1,213 Man Months |
| • Nokia Siemens Networks India Private Limited  | 909 Man Months   |
| • Huawei Technologies India Co. Private Limited | 190 Man Months   |

## 6.3 International Business Operations

### 6.3.1 South East Asia

- Alcatel-Lucent Ltd - Site Survey and cell site electronics equipment testing
- Bharti Airtel Lanka - Site acquisition, Turnkey cell site construction including design, manufacturing and supply of telecom towers
- Ericsson Ltd - RF survey, MW LOS survey, DT and Optimization
- Huawei Technologies - Installation and Commissioning of BTS equipments
- Ceylon Electricity Board - Supply of Power Transmission towers
- Huawei Technologies - I&C of BTS & MW Equipments
- Hutchison Ltd - Microwave Link Commissioning
- Radio Communications - Supply of Tower
- Huawei Technologies - I&C of BTS & MW Equipments
- Sotelco - Site acquisition

### 6.3.2 Afghanistan

- AWCC - Design, Fabrication and Supply of Towers and Masts  
Telecom Training covering basic and advanced concepts in GSM & CDMA, Transmission (MW & Optical), Switching, Signalling & Data Networks Turnkey Telecom Sites Constructions
- MTN Afghanistan Ltd. - Site preparation, Supply and Erection of Towers
- MCIT - Site preparation, Design, Supply and Erection of Towers
- BECIL - Design, Supply, Installation of Towers and associated Civil works
- AISL - Supply of Towers
- Network Innovations - Supply, Foundation, Erection and Painting of Towers
- US Army - Supply and Erection of Towers
- GSI - Backbone Microwave & VSAT Network Design and its evaluation

### 6.3.3 Middle East Asia

- Motorola - Turnkey development of WiMax network
- Ericsson - Turnkey Cell Site construction
- Galfar Engineering & Constructions - Site Survey, Tower Plotting, Design, Manufacturing & Supply of Transmission Towers for 132 kV double circuit power line
- Omar Mobile Telecommunications Company LLC - Cell site civil construction
- Trifoil Communications - Supply and erection of Tower
- Motorola Inc - Turnkey Cell Site construction
- Motorola Inc - In-building solutions
- Al-Babtain Power & Telecommunication Co - I & C of telecom equipment
- Nokia Siemens Networks: Supply of Telecom Towers
- Al-Babtain Power & Telecommunication Co - In-Building Solutions
- Shabakkat - Supply of Telecom Towers
- KNETCO - Supply of Telecom Towers
- Batelco - Supply of Telecom Towers
- Hayat Telecommunications- Supply of Telecom Towers
- Spectral Link - Supply of Telecom towers
- Pioneer Information Technology - Supply of Telecom Towers

### 6.3.4 Africa

- Zil Telecom International Ltd - Design, Manufacturing and Supply of telecom towers
- Channel IT - Design, Manufacturing and Supply of telecom towers
- Globacom Ltd - Design, Manufacturing and Supply of telecom towers
- Econet Wireless - Turnkey Services for Cell Sites Infrastructure Development
- Interkel Nigeria Ltd- Design, Manufacturing and Supply of telecom towers
- Remi Jarslo - Design, Manufacturing and Supply of telecom towers
- Hayat Communications Ltd - Design, Manufacturing and Supply of telecom towers
- Benson Informatics Ltd- Design, Manufacturing and Supply of telecom towers
- Motorola SA Pty. Ltd.- Design, Manufacturing and Supply of telecom towers
- Remi Jarslo SA - Design, Manufacturing and Supply of telecom towers
- Huawei Technologies Co Ltd - Design, Manufacturing and Supply of Telecom towers including site civil construction work
- Network Plu - Supply of Telecom towers
- Airtel Telecom (Seychelles) Ltd - Supply of Telecom Towers along with Erection and Painting works
- Indigo - GSM Network Redeployment de-installation of Ericsson AXE-10 Switch and installation and commissioning of switch and RBS series Base Stations

## 6.4 Others

### 6.4.1 Broadcasting & Communication

**Design, Foundation, Manufacture, Supply, Erection and Painting of FM Towers for:**

- Broadcast Engineering Consultants India Limited

**Design, Manufacture, Supply, Erection and Painting of TV/FM Towers for:**

- Prasar Bharti (Broadcast Corporation of India) 06 Nos
- Electronic Corporation of India Limited 10 Nos

**Design, Manufacture, Supply, Erection and Painting of Medium Wave (MW) Masts for:**

- Electronic Corporation of India Limited 02 Nos
- Broadcast Engineering Consultants India Limited 03 Nos

**Design, Foundation, Manufacture, Supply, erection and painting of Guyed Masts for:**

- Centre for Wind Energy Technology (C-WET) 04 Nos

**Construction of CTI Buildings for:**

- Broadcast Engineering Consultants India Limited 11 Nos

**Design, Foundation, Manufacture, Supply, and Erection of Radar towers for**

- Aatash Dredging & Constructions Pvt. Ltd. 08 Nos

**Manufacture, Supply, and Painting of Self-support Towers**

- Godrej & Boyce Mfg. Co. Ltd. 135 Nos

## 6.4.2 Railway Structural Projects

**Supply of OHE structures for railways**

- Southern Petrochemical Industries Corporation Limited (SPIC) 612.46 MT
- ECI Engineering & Construction Co. Ltd 405.75 MT
- MCML Electrical Systems Pvt Ltd 308.91 MT
- Tata Projects Limited 143.40 MT
- Dhana Lakshmi Engineers 40.98 MT
- South Central Railways Railway 8.76 MT
- Nani Electro Technics Pvt Ltd 6.36 MT
- Accord Communication Pvt. Ltd 5.68 MT
- GKV Sharma 2.12 MT

## 6.4.3 Power Plant Structures

**Supply of General fabrication and Auto weld boiler supporting structures**

- Bharat Heavy Electrical Limited (BHEL) 2,162 MT

**Supply of Coal bunkers / Mechanical dust collectors/ Ducts / Handrails**

- Thermax Limited 1,115 MT

- GEI Industrial Systems Limited

#### 6.4.4 Wind Energy

##### Manufacture and Supply of Windmill Towers for:

- Shriram EPC Limited 21 Nos
- Vestas RRB India Limited 13 Nos

#### 6.4.5 Monopoles & High Masts

##### Design, Manufacture and Supply of Monopoles & High Masts for:

- Spaceage Switchgears Ltd 4,708 Nos
- KMG ATOZ Systems Pvt. Ltd. 1,972 Nos
- Sterling and Wilson 1,689 Nos
- Singan Projects Limited 1,139 Nos
- Keslec Schreder Pvt Ltd 689 Nos
- Surya Roshni Ltd 446 Nos
- Bharat Oman Refineries Ltd 250 Nos
- S.S.Electric Company 225 Nos
- Surya Engineers 210 Nos
- Pro-Lite India 109 Nos
- Crompton Greaves 106 Nos
- Aster Building Solutions Private Limited 68 Nos
- Dev Musco Lighting Private Limited 68 Nos
- Arches Lighting 40 Nos
- Others 1,532 Nos

#### 6.4.6 Design, Manufacture and Supply of Telecom Shelters / Enclosures

- Wireless-TT Info Services Limited 1,424 Nos
- Aster Infrastructure Private Limited 732 Nos
- Quippo Telecom Infrastructure Limited 601 Nos
- Idea Cellular Limited 531 Nos
- Sterling Projects and Engineering Limited 340 Nos
- TowerVision India Private Limited 205 Nos
- Leadcom Integrated Solutions India Private Limited 158 Nos
- ATC Tower Company India Private Limited 80 Nos
- Tata Teleservices Limited 49 Nos
- Totalcomm Infra Services Private Limited 41 Nos
- RN Infrastructure Communications Private Limited 28 Nos
- Aircel Limited 20 Nos
- ZIL Telecom International 14 Nos
- Others 66 Nos

#### 6.4.7 Installation & Commissioning of Telecom Shelters

- Wireless-TT Info Services Limited 899 Nos
- Aster Infrastructure Private Limited 668 Nos
- Quippo Telecom Infrastructure Limited 417 Nos
- Idea Cellular Limited 310 Nos
- Leadcom Integrated Solutions India Private Limited 143 Nos
- TowerVision India Private Limited 111 Nos
- Nortel Networks India Private Limited 66 Nos
- Others 166 Nos

## 7 Appreciations

### A few of the appreciations from our esteemed customers

We with great satisfaction and happy to pronounce that M/s. Aster Private Limited, has supplied the PUF Sandwich Panels for our cold store at RAU INDORE, M.P. in time with best quality and high standards, and also have done up the erection with very high quality and most advanced fool proof system.

We also put it on record that the performance of the PUF panel system done by ASTER is performing perfectly without any loss of cooling. We are fully satisfied with the panel quality and also with the workmanship.

**Radhe Shyam Patidar,  
Sakhari Seet Grha Sansatha Maryadite, Rau**

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I personally visited sites with my top management. All sites are 100% good in quality point of view. This is really a great achievement of your team and planning.

I would like to personally appreciate entire ASTER team for excellent performance in short period in completion of Infra readiness in all respects.

Keep it up in future assignments. Wish you all the best.

**S. Ashok Kumar,  
C.W Manager,  
BSNL GSM Project - Hyderabad-AP.  
Huawei Telecommunications (I) Co. Pvt. Ltd.**

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It gives me immense pleasure to share with you that the Aster AP team has done excellent work in Project Management including EB support to us.

The actual figures will speak by itself for the good work done by Aster's team in AP.

We would also like to place on record that, we have rated the Aster as Partner no 1 in our vendor rating. My sincere thanks to Aster's team in AP and also expect the same kind of performance in the years ahead.

**RajenderSingh Gurung,  
Network Head AP,  
Aircel Limited**

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“As a customer, we are extremely happy with the services Aster offered to us for erecting first ever 40 Mtrs monopole at Pune. They are committed lot and I wish them a very best luck for their future endeavors.”

**Vishal V Burle,  
Asst. Manager,**

**GTL Limited,  
Maharashtra & Goa**

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"Heartiest congratulations from Reliance Telecom Limited, Assam & NE Project teams. We wish you success in your new and higher responsibility."

You were a pillar of strength for us, always responsive and dependable. Please accept our sincere thanks for your wonderful support throughout.

I am sure that you would still stand by us if your help is required.

**Rajarshi Datta Choudhury,  
AVP, Projects,  
Reliance Telecom Limited,  
Assam & North East**

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"We have awarded several orders to M/s. Aster Pvt Ltd for Supply of Towers, and Erection & Painting works. We thank Aster team for their professional competence, quality of output, ever-willing support and valuable contribution to the Project."

We wish to continue fruitful and long association with Aster.

**Sankar Narayan,  
Sr. Manager Commercial,  
Idea Cellular Ltd**

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"Aster is doing good job. Keep it up!"

**BR Jaswal,  
Nokia Siemens Networks Ltd**

"It was a pleasure working with you and your professional team...We would surely like to avail services of Aster in future too and continue the relation. Thanks for all the support given."

**Manish Kumar,  
Tata Teleservices Ltd**

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"Mr. Kantha Rao and his team have adapted the logical and scientific methods to carry out in depth analysis of the problems with our system. More importantly, they have recommended solutions, which have started showing results, and enhanced confidence of customers in our network. It has been a pleasant experience working with these professionals".

**Ajay-Madan,  
Vice-President,  
Tata Teleservices Ltd**

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"I am impressed with dedication shown by your Project Infrastructure Team. Against all odds, they have met schedules and set high standards. We would like to enlarge scope of works. We look forward to continuing association with you."

**A.K.Sharma,**  
**Senior Vice President & Chief Technical Officer,**  
**BPL US West Cellular Ltd**

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It gives us pleasure to announce you as one of the preferred vendors for civil works and tower supply for our cell site constructions. We are also glad that you have committed to carry out electrical works in our next phase rollout.

**Col.Y.N.Mishra,**  
**VP-Technical,**  
**Vodafone Essar Ltd**

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“We at FASCEL Ltd are thankful for reliable and timely support by your Team Members. What has impressed us is ever willingness of your people to accept challenges and meet the goals. Your Site Preparation works continue to be of high standard. We hope to expand your scope of works in the next phase of Network Development.”

**Ashok Chakraborty,**  
**Vice President, FASCEL Ltd**

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“Congratulations on an outstanding job done in Guatemala. Your Integration team did a fabulous job and their efforts through presentations to the customer, workshops with LCN'S and validating tests and conducting system tests without a doubt demonstrated to the customer and also the other Lucent groups the value added services of Integration and hence the NKS team as a whole.”

**Kevin Conlon & Alberto Gomezgil,**  
**Lucent Technologies,**  
**Guatemala**

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"Thank you everyone for the tremendous support & co-operation extended to me. It certainly made my job easy & great fun. I would love to work again with each and every one of you."

**Ramesh Bhatia**  
**Lucent Technologies**

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"We would not have been able to manage these projects\* without ASTER's RNPDP"

**Rahul Sathe**  
**Head of RND, Ericsson**

\*Referring to the upcoming Hutchison's DCS 1800 NW in AP, Karnataka & Chennai.

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## 8 Contact Us

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e-Mail: [info@aster.in](mailto:info@aster.in)

### Corporate Office:

A-8/7, Aishwarya Chambers,  
A. S. Rao Nagar, Hyderabad,  
India- 500 062  
Tel: +91 (0) 40 2713 0273  
Fax: +91 (0) 40 2713 0272  
e-Mail: [sales@aster.in](mailto:sales@aster.in)

### Business Verticals:

|  |  |
|--|--|
| <p><b>Transmission &amp; Distribution:</b><br/>Bhavani Arcade,<br/>A. S. Rao Nagar, Hyderabad,<br/>India - 500 062<br/>Tel: +91 (0) 40 2712 4792<br/>Fax: +91 (0) 40 2712 4791</p>     | <p><b>Telecom:</b><br/>1-299/2, Arul Colony,<br/>A. S. Rao Nagar, Hyderabad,<br/>India - 500 062<br/>Tel: +91 (0) 40 4434 0340<br/><b>Fax: +91 (0) 40 2714 4611</b></p>            |
| <p><b>Pre Engineered Buildings:</b><br/>Aishwarya Chambers, # A-8,<br/>A. S. Rao Nagar, Hyderabad,<br/>India - 500 062<br/>Tel: +91 (0) 40 2716 2621<br/>Fax: +91 (0) 40 2716 2731</p> | <p><b>International Business Operations:</b><br/>Laxmi Towers,<br/>A. S. Rao Nagar, Hyderabad,<br/>India - 500 062<br/>Tel: +91 (0) 40 2716 2534<br/>Fax: +91 (0) 40 2716 2532</p> |
| <p><b>Others:</b><br/>1-299/2, Arul Colony,<br/>A. S. Rao Nagar, Hyderabad,<br/>India - 500 062<br/>Tel: +91 (0) 40 4434 0340<br/>Fax: +91 (0) 40 2714 4611</p>                        |  |

### Regional Offices (Domestic):

|   |   |
|---|---|
| <p><b>Bengaluru:</b><br/>6/1, GDP Extension, Vylirkaval,<br/>16<sup>th</sup> Cross, Malleswaram,<br/>Bengaluru - 560 003, India<br/>Tel: +91 (0) 80 2336 2382<br/>Fax: +91 (0) 80 2356 8404</p> | <p><b>Pune:</b><br/># 4, Krishna Plaza,<br/>Chandan Nagar,<br/>Pune - 411 014, India<br/>Tel: +91 (0) 20 2703 4495</p>          |
| <p><b>Ahmedabad:</b><br/>4&amp;5, Natwar Shyam Society,<br/>Ramdev Nagar, Satellite,<br/>Ahmedabad - 380 015, India<br/>Tel: +91 (0) 79 4006 1254</p>   | <p><b>Kolkata:</b><br/>CF-176, Sector-I, Salt Lake, Kolkata,<br/>West Bengal - 700 064, India<br/>Tel: +91 (0) 33 4068 5183</p> |
| <p><b>Chennai:</b></p>  | <p><b>Lucknow:</b></p>  |

Gee Emarold Buildings, 151 Village Road,  
Nungambakkam, Chennai,  
Tamil Nadu - 600 034, India  
Tel: +91 (0) 44 2473 4191

Sector 10/112, Muncipulia Chowraha,  
Indira Nagar, Lucknow  
Uttar Pradesh - 226 016, India  
Tel: +91 (0) 522 404 2642

### Regional Offices (Overseas):

#### Sri Lanka:

Aster Teleservices Lanka (Pvt) Ltd  
#140/12, Gemunu Mawatha,  
Nawala Road, Nugegoda, Sri Lanka  
Tel: +94 (0) 11 282 8216

#### Cameroon:

Aster Global Services (Cameroon) Limited  
4eme Étage Immeuble Dit << Carré D'or>>  
Sis À Rue Njo Njo, Face Chococho,  
Bonapriso, B.P.413, Douala, Cameroon  
Tel: +237 (0) 7754 8390

#### Afghanistan:

Aster Infrastructure Services Ltd.  
# 71/8, Street No. 2, Beside Daramsala,  
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Tel: +93 (0) 777 127860

#### United Arab Emirates:

Aster Private Limited  
LOB - 6G/19, PO BOX No: 42800,  
Hamriyah Free Zone, Sharjah – 42800,  
United Arab Emirates  
Tel: +97 (0) 1652 61337

#### Saudi Arabia:

Aster Teleservices Pvt Ltd  
Al Sulaiam Building, #7, Olaya Road,  
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#### Mauritius:

Aster Global Services (Mauritius) Limited  
333, Behind Bassin Community Health Center,  
Bassin Road, Quatre Bornes,  
Mauritius.  
Tel: +230 (0) 987 5419

#### Kenya:

Aster Global Services (Kenya) Limited  
Shamneel Court, Parklands Road, Westlands,  
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Tel: +254 (0) 734 995900

#### Tanzania:

Aster Global Services (Tanzania) Limited  
# 707/14, Mkwepu Street, ILALA  
Dar Es Salaam – 34777, Tanzania  
Tel: +255 (0) 778 254978

#### Nepal:

Aster Teleservices Nepal (Pvt) Limited  
Morocoplo Business Complex, Ward No.1,  
#209 - 211, Kamalpokhari,  
Kathmandu – 13230, Nepal  
Tel: +977 (0) 144 4797