



## **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.

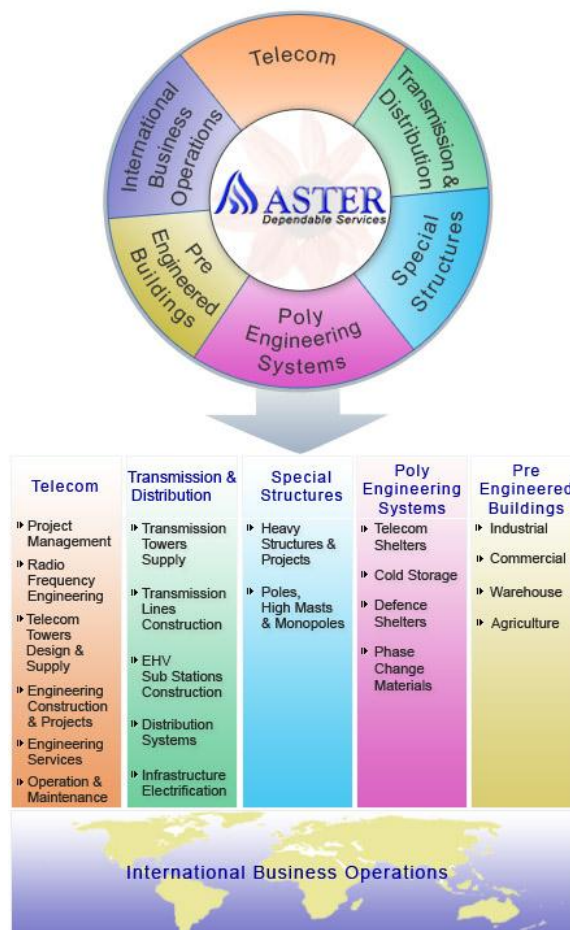
With the promise shown already, Aster is sure of joining some big names in the market in its pursuit of excellence in the near future.

# 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' and 'ISO-14001:2004' and we are moving towards 'TL-9000'**

### 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.***

## 3.5 Quality Objectives

The following are first phase objectives for quality improvement in Aster:

- Measure and improve project execution capabilities.
- Prevent defects by process control.
- Follow Plan-Do-Check-Act cycle to improve processes.

## 4 Portfolio

### 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 (Passive Maintenance)

- Optical Fiber Networks Maintenance
- Professional Services
- Managed Services

## 4.2 Transmission & Distribution

### 4.2.1 Transmission Towers Design & Supply

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

### 4.2.2 Transmission Line Construction

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

### 4.2.3 EHV Sub Stations Construction

- Site Survey, Layout Design and Detailing
- Civil Construction, Erection, Testing and Commissioning of Substations- LT / HT / EHT

### 4.2.4 Distribution Systems

- Design, Build, Testing and Commissioning of Power Distribution Systems and Rural Electrification

### 4.2.5 Infra Electrification

- Design, Supply, Installation, Testing and Commissioning of Electrical Installations & Fire Fighting System for Industrial Electrification, Infrastructure Development Projects and Commercial Complexes etc.

## 4.3 Special Structures

### 4.3.1 Broadcasting & Communication

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

### 4.3.2 Railway Structural Projects

- Supply of OHE structures for railways

### 4.3.3 Power Plant Structures

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

### 4.3.4 Wind Energy

- Design, Manufacturing and Supply of Windmill Towers

### 4.3.5 Poles, High Masts & Monopoles

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

## 4.4 Poly Engineering Systems

### 4.4.1 Telecom

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

#### 4.4.2 Cold Storage

#### 4.4.3 Defence

### 4.5 International Business Operations

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

## 5 Our Strengths

### 5.1 Testing & Design

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 Wireless RF Planning & Designing, Site Construction Works, Installation, Testing & Commissioning and Optical Fiber Cable Networks

- |  |                               |
|--|-------------------------------|
| • 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    |
| • Media Analyzers                        | • Site Masters                |

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

##### Hardware

- Total Station
- High End Computers
- GPSs
- Plotters & Printers

##### Software

- PLS-CADD
- TOWERS Designer *mw & tl*
- bocad-3d
- STAAD.Pro 2005

### 5.2 Manufacturing

Installed Fabrication capacity of 142,320 MT/Annum and Galvanization capacity of 187,320 MT/Annum 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 Telecom Towers / Masts / Poles, Transmission, Distribution, Substations, 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
Hyderabad Choutuppall	Telecom, Power, Broadcast, Railways, Windmills, Monopoles and	52,200 MT	108,000 MT	145,686 sq.m

	Lighting Masts			
Hyderabad Cherlapally	Telecom Towers and Windmills	30,000 MT	30,000 MT	80,937 sq.m
Raipur Unit - I	Telecom, Power	21,000 MT	21,000 MT	40,468 sq.m
Raipur Unit - II	Telecom, Power	24,000 MT	24,000 MT	182,110 sq.m
Hyderabad Cheriya	Tubular & Angular Towers	10,800 MT	-	26,305 sq.m
Vadodara	Telecom Towers	4,320 MT	4,320 MT	18,210 sq.m
Hyderabad Jedcherla	Telecom Shelters, Cabinets, Cold & Clean Rooms	12,000 sq.m	-	8,000 sq.m
Hyderabad Jedcherla	Pre-Engineered Buildings	50,000 MT	50,000 MT	226,624 sq.m

## 6 Our Clients and Executed Projects

### 6.1 Telecom

#### 6.1.1 Project Management Services

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

- Wireless-TT Info Services Limited 1,338 Sites
- Quippo Telecom Infrastructure Limited 1,759 Sites
- Indus Towers Limited 2,348 Sites
- Vodafone Essar Limited 757 Sites
- Nokia Siemens Networks India Private Limited 620 Sites
- Bharti Airtel Limited 1,490 Sites

#### 6.1.2 Radio Frequency Engineering

- RF Survey & Site selection 1,13,187 Sites  
Ericsson, Idea, Loop (Pan India), Huawei
- MW LOS Survey & Verification 1,96,080 Hops  
Ericsson, Alcatel-Lucent, Vodafone, Idea, Reliance Infocom, Huawei, , Loop (Pan India)
- DT & Network Optimization 1,01,080 Sites  
Ericsson, Vodafone, Nortel, Idea, Nokia, Huawei
- Network Optimization & KPIs Commitments 1,000 Sites  
Idea,
- CW for Model Tuning 270 Sites  
ZTE
- Spectrum Analysis for AP & Karnataka all cities

#### 6.1.3 Telecom Towers Design & Supply

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

• Vodafone Essar Limited	5,132 Nos
• Bharti Airtel Limited	4,480 Nos
• Idea Cellular Limited	2,176 Nos
• Nortel Networks India Private Limited	1,823 Nos
• Reliance Infocomm Limited	1,549 Nos
• Aircel Limited	1,860 Nos
• Ericsson India Private Limited	1,326 Nos
• Indus Towers Limited	1,766 Nos
• Tata Teleservices Limited	1,018 Nos
• Aster Infrastructure Private Limited	1,007 Nos
• Nokia Siemens Networks India Private Limited	697 Nos
• Huawei Technologies India Co. Private Limited	1,348 Nos
• Wireless-TT Info Services Limited	1,890 Nos
• TowerVision India Private Limited	697 Nos
• ITI Limited	435 Nos
• Essar Telecom Limited	350 Nos
• ZTE Telecom (India) Private Limited	316 Nos
• Quippo Telecom Infrastructure Ltd	358 Nos
• Totalcomm Infra Services Private Limited	171 Nos
• Sterling Projects & Engineering Limited	195 Nos
• ATC Tower Company of India Private Limited	99 Nos
• Tata Communications Limited	33 Nos
• Alcatel-Lucent technologies India Pvt Ltd	16 Nos
• Dishnet Wireless Limited	78 Nos
• Nuclear Fuel Corporation	11 Nos
• Bharat Sanchar Nigam Limited	426 Nos
• Leadcom Integrated Solutions Limited	08 Nos
• Jindal Steel & Power limited	02 Nos
• Shyam Telelink limited	02 Nos
• Atharva Infracom Ltd	19 Nos
• Datacom solutions Pvt Ltd	22 Nos
• Goodwill Telecom Infracom Pvt Ltd	09 Nos
• Microqual Tecno Pvt Ltd	17 Nos
• Sistema Shyam Teleservices Limited	03 Nos
• Spanco Ltd	04 Nos
• Synergy Telecommunication	121 Nos
• Xcel Telecom Private Limited	69 Nos

#### **6.1.4 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	4,059 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	314 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
• Alcatel-Lucent India Private Limited	20 Sites
• TowerVision India Private Limited	25 Sites
• ITI Limited	12 Sites

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

• Bharti Airtel Limited	3,935 Sites
• Vodafone Essar Limited	3,523 Sites
• Nortel Networks India Private Limited	2,603 Sites
• Idea Cellular Limited	2,169 Sites
• Aircel Limited	1,359 Sites
• Reliance Infocomm Limited	1,122 Sites
• Indus Towers Limited	1,268 Sites
• Aster Infrastructure Private Limited	901 Sites
• Nokia Siemens Networks India Private Limited	885 Sites
• Ericsson India Private Limited	652 Sites
• Tata Indicom Limited	570 Sites
• Essar Telecom Infrastructure Private Limited	282 Sites
• Wireless-TT Info Services Limited	496 Sites
• Huawei Technologies India Co. Private Limited	656 Sites
• Reliance Infocomm Limited	173 Sites
• ZTE Telecom Co Limited	146 Sites
• TowerVision India Private Limited	188 Sites
• Quippo Telecom Infrastructure Limited	130 Sites
• Xcel Telecom Private Limited	46 Sites
• Totalcomm Infra Services Private Limited	44 Sites
• ITI Limited	20 Sites
• Alcatel-Lucent India Private Limited	20 Sites
• Leadcom Integrated Solutions India Private Limited	05 Sites
• Bharat Sanchar Nigam Limited	51 Sites
• Datacom solutions Pvt Ltd	02 Sites
• Loop Telecom	07 Sites
• Sterling Projects and Engineering Limited	49 Sites
• Sistema Shyam Teleservices Limited	01 Site
• Synergy Telecommunication	08 Sites

**6.1.5 Engineering Services Division**

<b>MW Equipment Installation &amp; Commissioning for:</b>		
<b>End User Name</b>	<b>OEM Vendor</b>	<b>Quantity</b>
• Vodafone Essar Limited	NSN	6,356 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	17 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	49 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	71 Hops
• BPL Mobile Communications Limited	Ericsson	15 Hops
• BPL Mobile Communications Limited	Eclipse	14 Hops
• Aircel Limited	NSN	191 Hops
• Aircel Limited	Ericsson	43 Hops
• Aircel Limited	Nera	21 Hops
• Aircel Limited	NEC	286 Hops
• Aircel Limited	Huawei	249 Hops
• Loop Telecom	ZTE	07 Hops
• Unitech	Ericsson	02 Hops
• Unitech	Huawei	37 Hops
• Unitech	NEC	46 Hops
• <b>Installation &amp; Commissioning of GSM – BTS Radio equipments for:</b>		
<b>End User Name</b>	<b>OEM Vendor</b>	<b>Quantity</b>
• Vodafone Essar Limited	NSN	5,869 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	Alcatel-Lucent	128 Sites
• Bharat Sanchar Nigam Limited	Ericsson	85 Sites
• Bharat Sanchar Nigam Limited	NSN	26 Sites
• Bharat Sanchar Nigam Limited	Huawei	335 Sites
• Idea Cellular Limited	NSN	602 Sites
• Idea Cellular Limited	Ericsson	344 Sites
• Idea Cellular Limited	ZTE	58 Sites
• Idea Cellular Limited	Huawei	68 Sites
• BPL Mobile Communications Limited	Motorola	108 Sites

• BPL Mobile Communications Limited	NSN	96 Sites
• BPL Mobile Communications Limited	Huawei	79 Sites
• BPL Mobile Communications Limited	Ericsson	23 Sites
• Nepal Doorsanchar Company Limited	Huawei	192 Sites
• Aircel Limited	Ericsson	82 Sites
• Aircel Limited	NSN	153 Sites
• Aircel Limited	Huawei	276 Sites
• Aircel Limited	ZTE	276 Sites
• Datacom solutions Pvt Ltd	NSN	67 Sites
• Datacom solutions Pvt Ltd	Huawei	366 Sites
• ETDB	ZTE	166 Sites
• ETDB	Huawei	361 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
• <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	Alcatel-Lucent	611 Sites
• Tata Indicom Limited	Ericsson	376 Sites
• Tata Indicom Limited	ZTE	1,503 Sites
• Tata Indicom Limited	NSN	430 Sites
• Tata Indicom Limited	Huawei	985 Sites
• Tata Indicom Limited	Motorola	17 Sites
• Tata Indicom Limited	Airwal	02 Sites
• Bharat Sanchar Nigam Limited	A-Lucent	128 Sites
• Shyam Telelink Limited	ZTE	537 Sites
• Shyam Telelink Limited	Ericsson	15 Sites
• Shyam Telelink Limited	Huawei	03 Sites
• Swan	ZTE	22 Sites
• Uninor	NSN	35 Sites
• Unitech	Ericsson	14 Sites
• Unitech	Huawei	1,084 Sites
• Unitech	Alcatel	34 Sites
• <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
• <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	Huawei	20 Sites
• Reliance Infocomm Limited	Tekelec	10 Sites
• Reliance Infocomm Limited	Huawei	12 Sites
• Reliance Infocomm Limited	ZTE	18 Sites
• Reliance Infocomm Limited	NSN	07 Sites
• Reliance Infocomm Limited	Ericsson	01 Site
• Reliance Infocomm Limited	Alcatel-Lucent	25 Sites
• Bharat Sanchar Nigam Limited	Siemens	17 Sites
• Bharat Sanchar Nigam Limited	Nortel	15 Sites
• Bharat Sanchar Nigam Limited	Tekelec	22 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
• Mahanagar Telephone Nigam Limited	Tekelec	02 Sites
• Bharti Airtel Limited	Tekelec	01 Site
• Datacom solutions Pvt Ltd	Huawei	02 Sites
• Shyam Telecom Limited	ZTE	02 Sites
• Unitech	ZTE	01 Sites
• Unitech	Huawei	14 Sites
• Unitech	Alcatel	07 Sites
• <b>Switch De- Installation for</b>		
<b>End User Name</b>	<b>OEM Vendor</b>	<b>Quantity</b>
• Tata Indicom Limited	Lucent	09 Sites
• <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
• Reliance Infocomm Limited	Nortel	1,234 NEs
• Vodafone Essar Limited	ECI	691 NEs
• Bharti Airtel Limited	ECI	80 NEs
• Tata Communications Limited	ECI	32 NEs
• Bharat Sanchar Nigam Limited	Tejas	74 NEs
• Aircel Limited	ECI	17 NEs
• Idea Cellular Limited	ECI	04 NEs
• <b>Installation &amp; Commissioning of Digital Loop Carrier (DLC) for</b>		
<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
<b>• Installation &amp; Commissioning of DSLAM for</b>		
<b>End User Name</b>	<b>OEM Vendor</b>	<b>Quantity</b>
• Bharti Airtel Limited	Siemens	32 NEs
<b>• Installation &amp; Commissioning of LMDS for</b>		
<b>End User Name</b>	<b>OEM Vendor</b>	<b>Quantity</b>
• Reliance Infocomm Limited	Siemens	52 Links
<b>• Installation &amp; Commissioning of FSO for</b>		
<b>End User Name</b>	<b>OEM Vendor</b>	<b>Quantity</b>
• Tata Indicom Limited	Siemens	06 Links
<b>• Installation &amp; Commissioning of VSAT Equipment for</b>		
<b>End User Name</b>	<b>OEM Vendor</b>	<b>Quantity</b>
• Indian Police Network	BEL	164 Terminal
<b>• Installation &amp; Integration of MUX Equipment for</b>		
<b>End User Name</b>	<b>OEM Vendor</b>	<b>Quantity</b>
• Bharti Airtel Limited	Siemens	02 Nos
• Bharti Airtel Limited	ECI	86 Nos
• Idea Cellular Limited	ECI	01 Nos
• Tata Indicom Limited	ECI	1,742 Nos
• Unitech	Huawei	04 Nos
• Unitech	ECI	01 Nos
• Vodafone Essar Limited	ECI	223 Nos
<b>• Expansion of GSM - RBS for</b>		
<b>End User Name</b>	<b>OEM Vendor</b>	<b>Quantity</b>
• Bharti Airtel Limited	Ericsson	28 Nos
• Bharti Airtel Limited	NSN	33 Nos
• Aircel India Limited	NSN	05 Nos
• Bharat Sanchar Nigam Limited	Huawei	56 Nos
• BPL Mobile Communications Limited	Huawei	08 Nos
• Loop Telecom	ZTE	44 Nos
• Tata Indicom Limited	NSN	62 Nos
• Tata Indicom Limited	ZTE	25 Nos
• Tata Indicom Limited	Huawei	69 Nos
• Vodafone Essar Limited	NSN	13 Nos
• Vodafone Essar Limited	Ericsson	13 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
<b>• Electrification of Cell Sites for</b>		
<b>Customer Name</b>		<b>Quantity</b>
• Vodafone Essar Limited		49 Sites
• Reliance Infocomm Limited		49 Sites
• Idea Cellular Limited		29 Sites

## 6.1.6 Operation & Maintenance

- **Telecom Cell Sites Passive / Active Infrastructure Maintenance for**
  - Ericsson India Private Limited 495,884 Site Months
  - Aircel India Private Limited 42,916 Site Months
  - Vodafone Essar Limited 395,373 Site Months
  - Nortel Networks India Private Limited 46,228 Site Months
  - Nokia Siemens Networks India Private Limited 2,837 Site Months
  - Reliance Communications Limited 14,624 Site Months
  - Aster Infrastructure Private Limited 18,631 Site Months
  - Wireless-TT Info Services Limited 35,427 Site Month
  - Tata Teleservices Limited 5,252 Site Months
  - Bharati Infra Structure Pvt Ltd 9,167 Site Months
  - Bharti Airtel Limited 802 Site Months
  - Tower Vision India Private Limited 1,876 Site Months
  - Power Grid Corporation of India Limited 7,049 Site Months
  - Loop Telecom Pvt Ltd 03 Site Months
  - GAIL (India) Limited 211 Site Months
  - Quipo Telecom Infrastructure Ltd. 18 Site Months
  
- **Optical Fiber Networks Route Maintenance for**
  - Alcatel-Lucent network Management services India Ltd 1,650 Rkm Months
  - Tata Communications Limited 430,060 Rkm Months
  - Railtel Corporation Limited 275,721 Rkm Months
  - Vodafone Essar Limited 251,598 Rkm Months
  - Bharti Airtel Limited 160,585 Rkm Months
  - Power Grid Corporation of India Limited 28,017 Rkm Months
  - Idea Cellular Limited 36,375 Rkm Months
  - Gas Authority of India Limited 14,826 Rkm Months
  - Nokia Siemens Networks India Private Limited 3,783 Rkm Months
  - Reliance Communication Limited 4,000 Rkm Months
  - Tulip India Limited 995 Rkm Months
  
- **OFC Route Fault Rectification for**
  - Tata Teleservices Limited 250,533 Rkm Months
  
- **Deployment of Professional Manpower for Operation and Maintenance of BSS and OMC-R etc., for**
  - Ericsson India Private Limited 2,700 Man Months
  - Nortel Networks India Private Limited 1,104 Man Months
  - Nokia Siemens Networks India Private Limited 669 Man Months
  - Huawei Technologies India Co. Private Limited 190 Man Months

## 6.2 Poly Engineering Systems

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

- Wireless-TT Info Services Limited 1,424 Nos
- Aster Infrastructure Private Limited 732 Nos
- Idea Cellular Limited 531 Nos
- Quippo Telecom Infrastructure Limited 601 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

**Installation & Commissioning of Telecom Shelters for:**

• 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

## 6.3 Transmission and Distribution:

### 6.3.1 Transmission Towers Supply

**Design, Manufacturing and Supply of Transmission Towers**

**765 kV Transmission Towers Material - 2,200 MT**

- Southern Petrochemical Industries Corporation Limited - (SPIC)

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

- Power Grid Corporation of India Limited
- Tata Projects Limited
- Multifab
- Southern Petrochemical Industries Corporation Limited - (SPIC)
- PT.Multifabrindo Gemilang
- Deepak Cables
- Lanco
- Kerala State Electricity Board (KSEB)

**220 kV Transmission Towers Material - 1,889 MT**

- Siemens T&D Limited
- Areva T&D India Limited
- GVPR Engineers Limited
- Maytas
- Kerala State Electricity Board (KSEB)
- MEC Engineering
- Deepak Cables

**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
- MEC Engineering

### 110 kV Transmission Towers Material

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

### 66 kV Transmission Tower Material & Sub-station structures - 2,343 MT

- Karnataka Power Transmission Corporation Limited (KPTCL)
- BGR Energy Systems Limited
- Areva T&D India Limited
- Siemens Limited
- GET Engineering Constructions Private Limited
- Power Systems
- Sharavathy Conductors Private Limited
- Chadalavada Constructions Private Limited
- KB Contractors

## 6.3.2 Transmission Line Construction

(Double / Single Circuit) on Turnkey basis - Survey, Supply, Civil, Erection and Stringing for:

• Power Grid Corporation of India Ltd	400 kV	54 ckt kms
• Transmission Corporation of Andhra Pradesh Ltd	400 kV	70 ckt kms
• Madhya Pradesh Power Transmission Company Ltd	56 kV	147 ckt kms
• Transmission Corporation of Andhra Pradesh Ltd	132 kV	14 ckt kms
• Karnataka Power Transmission Corporation Ltd	110 kV	22 ckt kms
• Karnataka Power Transmission Corporation Ltd	66 kV	48 ckt kms
• Orissa Power Transmission Company Ltd	132 kv	19.5 ckt kms
• Gujrat Electricity Transmission Company Ltd	400 kv	83 ckt kms
• Haryana Power Transmission Ltd	132 kv	71 ckt kms
• Maharashtra Power Transmission Company Ltd	220 kv	3.8 ckt kms

## 6.3.3 Substations-EHV

Manufacture and Supply of Substation structures and Construction of Substations

<b>400 kV Substation Structures</b>	-	68 MT
• Areva T&D India Limited		
<b>220 kV Substation Structures</b>	-	1,930 MT
• Areva T&D India Limited		
• Vijai Electricals Limited		
• GVPR Engineers Limited		
• Siemens T&D Limited		
<b>132 kV Substation Structures</b>	-	507 MT

<ul style="list-style-type: none"> <li>• Areva T&amp;D India Limited</li> <li>• Vijai Electricals Limited</li> <li>• GVPR Engineers Limited</li> <li>• Dura Fabs</li> <li>• BGR Energy Systems Limited</li> <li>• Maytas</li> </ul>	-	64 MT
<p><b>66 kV Substation Structures</b></p> <ul style="list-style-type: none"> <li>• Karnataka Power Transmission Corporation Ltd</li> <li>• Siemens T&amp;D Limited</li> <li>• KB Contractors</li> </ul>	-	64 MT
<p><b>33 kV Substation Structures</b></p> <ul style="list-style-type: none"> <li>• Vijai Electricals Limited</li> </ul>	-	64 MT

## 6.4 Special Structures:

### 6.4.1 Broadcasting & Communication

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

• Broadcast Engineering Consultants India Limited	05 Nos
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**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
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**Construction of CTI Buildings for:**

• Broadcast Engineering Consultants India Limited	11 Nos
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**Design, Foundation, Manufacture, Supply, and Erection of Radar towers for**

• Aatash Dredging & Constructions Pvt. Ltd.	08 Nos
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### 6.4.2 Railway Structural Projects

**Supply of OHE structures for railways**

• Accord Communication Pvt. Ltd	5.68 MT
• Dhana Lakshmi Engineers	40.98 MT
• ECI Engineering & Construction Co. Ltd	405.75 MT
• GKV Sharma	2.12 MT
• MCML Electrical Systems Pvt Ltd	308.91 MT
• Nani Electro Technics Pvt Ltd	6.36 MT
• Spic SMO	279.46 MT
• Railway AP	8.76 MT
• Tata Projects Ltd	143.40 MT

### 6.4.3 Power Plant Structures

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

• BHEL	530 MT
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#### Supply of Coal bunkers / Mechanical dust collectors/ Ducts

• Thermax	285 MT
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### 6.4.4 Monopoles & High Masts

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

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

### 6.4.5 Wind Energy

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

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

## 6.5 International Business Operations

### 6.5.1 South East Asia

- Alcatel-Lucent Ltd : Site Survey and cell site electronics equipment testing
- Bharti Airtel Lanka (Pvt) Ltd: 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 Co Ltd: Installation and Commissioning of BTS equipments

- Ceylon Electricity Board : Supply of Power Transmission towers
- Huawei Technologies Co Ltd: I&C of BTS & MW Equipments
- Hutchison Ltd : Microwave Link Commissioning
- Radio Communications : Supply of Tower
- Huawei Technologies Co Ltd: I&C of BTS & MW Equipments
- Sotelco : Site acquisition

### 6.5.2 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

### 6.5.3 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

### 6.5.4 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

## 7 Appreciations

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

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 RNPD"

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

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

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## 8 Contact Us

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