



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.

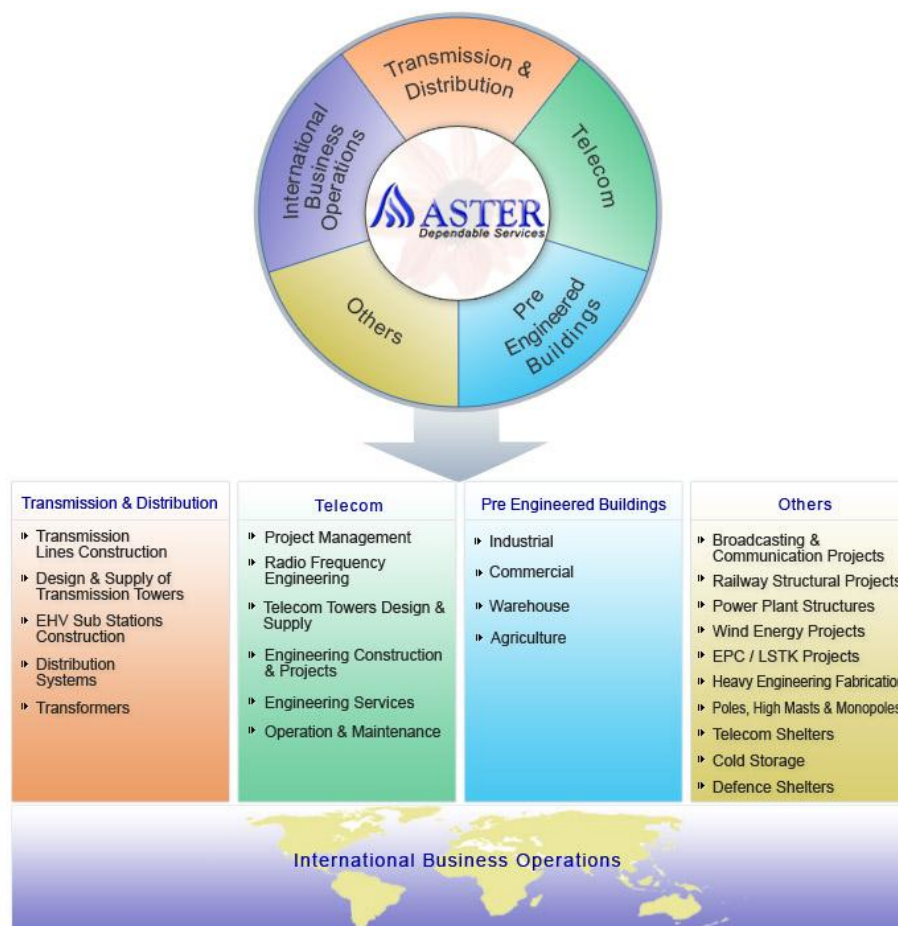
The present projects underway in 27 nations across the globe are the minute example of Aster's global impact. With its fast growth in diverse industries viz. Telecom, Transmission & Distribution, Special Structures and International Business Operations it is moving in the right direction to capture the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

- Respect for individual
- Transparent working at all levels
- High Performance Culture
- Leadership Development
- Empowerment with Accountability
- Informal Working Culture
- Knowledge Creation & sharing

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 v12.10	• PLS-Tower v12.10	• 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
• PLS-Pole v12.10	• 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.

Substations	Topology	Quantity
• New	33/11 kV	12 Nos
• Augmentation	33/11 kV	10 Nos
• Bay Extension	33/11 kV	5 Nos
Distribution Line	Voltage Class	Quantity
• DTC	33 kV	156 Rkm
• DTC	11 kV	1,065 Rkm
• LT	415 / 230 V	1,195 Rkm
Power Transformer	Quantity	
• 5 MVA	7 Nos	
Distribution Transformer	Quantity	
• 11 / .415 kV	3,150 Nos	
Service Connections	Quantity	
• 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	4,953 Sites
• Indus Towers Limited	2,485 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 Ericsson, Idea, Loop (Pan India), Huawei	144,192 Sites
• MW LOS Survey & Verification Ericsson, Alcatel-Lucent, Vodafone, Idea, Reliance Infocom, Huawei, Loop (Pan India)	228,330 Hops
• DT & Network Optimization Ericsson, Vodafone, Nortel, Idea, Nokia, Huawei	185,080 Sites
• Network Optimization & KPIs Commitments Idea	1,000 Sites
• CW for Model Tuning ZTE	270 Sites
• Spectrum Analysis ZTE	80 Sites
• EMF Survey AP-Vodafone, Ke-Airtel, Aircel, Vodafone, Swan, Uninor, Idea, Shyam, MTS	2,898 Sites
• TERM Drive Test 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	5,182 Nos
• Bharti Airtel Limited	4,482 Nos
• Indus Towers Limited	2,450 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	1,603 Nos
• Reliance Infocomm Limited	1,550 Nos
• Ericsson India Private Limited	1,326 Nos
• Tower Vision India Private Limited	1,067 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	497 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	114 Nos
• Dishnet Wireless Limited	101 Nos
• Xcel Telecom Private Limited	69 Nos
• Viom Networks Limited	37 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
• Others	51 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	4,086 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	487 Sites
• Ericsson India Private Limited	472 Sites
• Indus Towers Limited	399 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	75 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	02 Sites

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

• Bharti Airtel Limited	4,010 Sites
• Vodafone Essar Limited	3,529 Sites
• Nortel Networks India Private Limited	2,603 Sites
• Idea Cellular Limited	2,217 Sites
• Indus Towers Limited	1,500 Sites
• Aircel Limited	1,361 Sites
• Reliance Infocomm Limited	1,130 Sites
• Aster Infrastructure Private Limited	901 Sites
• Nokia Siemens Networks India Private Limited	885 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	279 Sites
• Reliance Infocomm Limited	173 Sites
• ZTE Telecom Co Limited	146 Sites
• Quippo Telecom Infrastructure Limited	130 Sites
• Bharat Sanchar Nigam Limited	66 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
• Viom Networks Limited	10 Sites
• Others	35 Sites

6.2.5 Engineering Services Division

• **MW Equipment Installation & Commissioning for**

End User Name	OEM Vendor	Quantity
• 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**

End User Name	OEM Vendor	Quantity
• 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
• Installation & Commissioning of CDMA – BTS Radio equipments for		
End User Name	OEM Vendor	Quantity
• 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
• Swapping of GSM / CDMA RBS		
End User Name	OEM Vendor	Quantity
• 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
• Switch Installation (BSC, MSC, GGSN and RNC) for		
End User Name	OEM Vendor	Quantity
• 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
• Switch De- Installation for		
End User Name	OEM Vendor	Quantity
• Tata Indicom Limited	Lucent	09 Sites
• Installation & Commissioning of SDH – ADM, SDM / DWDM for		
End User Name	OEM Vendor	Quantity
• 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		

	End User Name	OEM Vendor	Quantity
	• Bharti Airtel Limited	UTStarcom	302 NEs
	• Tata Indicom Limited	UTStarcom	137 NEs
	• Airtel Limited	UTStarcom	112 NEs
•	Installation & Commissioning of DSLAM for		
	End User Name	OEM Vendor	Quantity
	• Bharti Airtel Limited	Siemens	32 NEs
	Installation & Commissioning of LMDS for		
	End User Name	OEM Vendor	Quantity
	• Reliance Infocomm Limited	Siemens	52 Links
•	Installation & Commissioning of FSO for		
	End User Name	OEM Vendor	Quantity
	• Tata Indicom Limited	Siemens	06 Links
•	Installation & Commissioning of VSAT Equipment for		
	End User Name	OEM Vendor	Quantity
	• Indian Police Network	BEL	164 Terminal
•	Installation & Integration of MUX Equipment for		
	End User Name	OEM Vendor	Quantity
	• 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		
	End User Name	OEM Vendor	Quantity
	• 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
•	De-Installation of MW link for		
	End User Name	OEM Vendor	Quantity
	• Vodafone Essar Limited	NSN	22 Hops
	• Huawei	Uninor	11 Hops
	• Huawei	BSNL	08 Hops

- Huawei Aircel
- **Electrification of Cell Sites for**
- | Customer Name | Quantity |
|-----------------------------|-----------------|
| • Reliance Infocomm Limited | 49 Sites |
| • Vodafone Essar Limited | 49 Sites |
| • Idea Cellular Limited | 29 Sites |

6.2.6 Operation & Maintenance

- **Telecom Cell Sites Passive / Active Infrastructure Maintenance for**
- | Customer Name | Quantity |
|--|---------------------|
| • Ericsson India Private Limited | 623,245 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 |
| • Bharti Infratel Limited | 10,416 Site Months |
| • Aircel India Private Limited | 50,641 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 | 24,719 Site Months |
| • Power Grid Corporation of India Limited | 7,463 Site Months |
| • Tata Teleservices Limited | 5,252 Site Months |
| • Nokia Siemens Networks India Private Limited | 8,422 Site Months |
| • Indus Towers Limited | 3,801 Site Months |
| • Tower Vision India Private Limited | 17,930 Site Months |
| • Viom Networks Limited | 5,103 Site Months |
| • GAIL (India) Limited | 211 Site Months |
| • Quippo Telecom Infrastructure Ltd. | 145 Site Months |
| • Loop Telecom Pvt Ltd | 36 Site Months |
| • ACME Tele Power Ltd | 36 Site Months |
| • ATC Tower Company of India Private Limited | 5556 Site Months |
| • Dishnet Wireless Limited | 192 Site Months |
- **Optical Fiber Networks Route Maintenance for**
- | Customer Name | Quantity |
|--|--------------------|
| • Tata Communications Limited | 684,332 Rkm Months |
| • Tata Teleservices Limited | 63,000 Rkm Months |
| • Vodafone Essar Limited | 463,640 Rkm Months |
| • Railtel Corporation Limited | 327,274 Rkm Months |
| • Bharti Airtel Limited | 205,336 Rkm Months |
| • Idea Cellular Limited | 103,378 Rkm Months |
| • Power Grid Corporation of India Limited | 36,465 Rkm Months |
| • Gas Authority of India Limited | 16,584 Rkm Months |
| • Reliance Communication Limited | 20,200 Rkm Months |
| • Alcatel-Lucent network Management Services India Ltd | 18,150 Rkm Months |
| • Nokia Siemens Networks India Private Limited | 3,783 Rkm Months |
| • Tulip India Limited | 1,229 Rkm Months |
| • Dishnet Wireless Limited | 423 Rkm Months |
| • Aircel India Private Limited | 9,024 Rkm Months |

- **OFC Route Fault Rectification for**

Customer Name	Quantity
• Tata Teleservices Limited	300,811 Rkm Months

- **Deployment of Professional Manpower for Operation and Maintenance of BSS and OMC-R etc., for**

Customer Name	Quantity
• Ericsson India Private Limited	7,802 Man Months
• Nortel Networks India Private Limited	1,213 Man Months
• Nokia Siemens Networks India Private Limited	1,149 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 05 Nos

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 70 MT

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**

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.**

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**

“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

"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

"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

"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

“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, TataTeleservices Ltd

"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

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

"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

"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

"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

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

Rahul Sathe
Head of RND, Ericsson

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

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