



PRAGATI ELECTROCOM

COMPANY PROFILE & PRODUCTS



INNOVATION
TECHNOLOGY

www.pragatielectrocom.in

PRAGATI ELECTROCOM

Pragati Electrocom Pvt. Ltd. is a professionally managed ISO 9001, ISO 14001 & ISO 45001 certified company.

Pragati has created a brand name in delivering customized solutions through quality & innovations.

Our Solutions are powering the telecom sites in every nook & corner of this country with installed base of more than 30,000 sites.

True to our name and aspiration to deliver the best of the technology and to the growth of valued customers.

Pragati is transforming itself from an equipment-manufacturing outfit to a Total Solution Provider (TSP)

Pragati Electrocom's innovation can be used in the following sectors:

1. Telecommunications
2. Defence
3. Refineries
4. Railways
5. Oil Exploration
6. Industries
7. Hospitals
8. Hotels





OUR TEAM

A professional and dedicated technocrat team of Marketing designing and promotion sail through this task, which is full of challenges



ACTIVITIES

1. Modern design & development center with fully automated manufacturing facility.
2. Expert Advice & Technical Consultancy in Telecommunications, Railways and Power Sector, Defence and Industries.
3. Complete turnkey solution
4. Trading & Distribution



RESEARCH & DEVELOPMENT

Since its inception, Pragati has never lost its focus from the industry and has developed excellent products essential to the industry. In house setup for latest micro controllers, DSP based digital and complicated analog based controller systems, related software development. We have developed Energy saving Products which saves appreciable energy around 30% to 40% including Electricity & Diesel.



HOW WE OPERATE

1. Survey and Analysis at Client Site
2. System Design at State of Art Design Facility
3. Product Manufacturing, Integration & Test in our Laboratory
4. Installation & Implementation at Client site.
5. Warranty & Maintenance



PRAGATI ELECTROCOM

Today Pragati has an all India presence through its branch offices and offer solutions for:

EXTERNAL LIGHTNING PROTECTION

Two types of external lightning protection namely "Advanced Lightning Prevention" and "Advanced Lightning Capture" system are available. Protection is available against direct lightning, capable of handling multi strikes of lightning of the order of 200KA at 10/350 waveforms. Dissipation of this energy to earth is done through low impedance copper down conductor & maintenance free earth pits.

INTERNAL LIGHTNING PROTECTION

- A) **Class B Protection** at the building entry point having 100KA at 10/350 pulse handling capacity, designed using fuse less lightning arresters operating on RADAX Technology.
- B) **Class C Protection** before the distribution board, capable of handling surges of the order of 20KA at 8/20 using fuse less surge arresters. The multi strike handling system, operation is regulated by using an energy co-ordination coil.
- C) **Class D Protection:** Telephone Line Protection, radio Frequency Interface Protection, Computer Network Protection, Coaxial Cable Line Protection, Data Line and Server Protection.



Maintenance Free Earthing

PRAGATI MAINTENANCE FREE EARTHING KIT CONSISTS OF

1. UL Approved and CPRI certified Copper coated electrode
2. Our patented Earth Enhancement Material by trade name "LOHM" complying IEC 62561-7 standard.
3. Polypit / RCC Earth Chamber
4. Copper / Copper Coated Earth Bus Bar

Earthing is performed as per IS 3043; BS 7430 & IEEE 142 and RDSO guidelines to achieve Earth resistance of upto 1.0 Ohm.



EXOTHERMIC WELDING

Exothermic welding kit ensures lifelong integrity of the earthing joints connecting the earth pit with the equipment.



Power Conditioning, Automation & Energy Saving

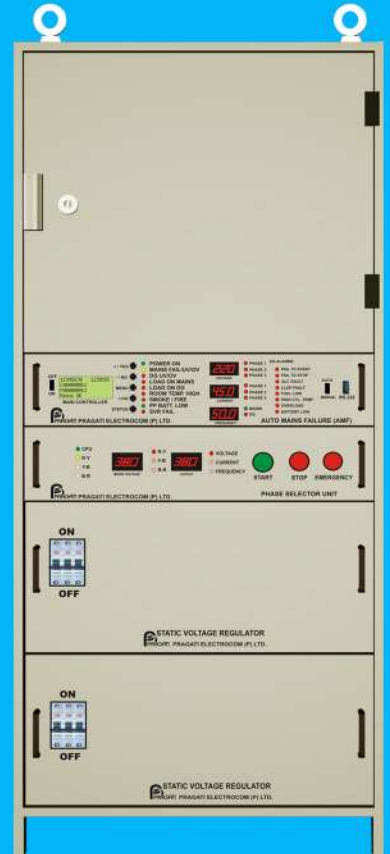
POWER MANAGEMENT SYSTEM (PMS)

Power Management System is a modular unit which combines Static Voltage Regulator, Isolation Transformer, best Phase Selector, Auto Main Failure, AC Distribution Panel, Lightning & Surge Protection, Alarm Systems to provide an ultimate Power Management solutions for Telecom sites.



SWITCH MODE POWER SUPPLY (SMPS)

SMPS is an optimised solution for telecom applications designed for the effective performance, unmatched features and competitive cost. Array of features aid remote monitoring and low voltage battery disconnected. The system comes fully equipped with integrated DC distribution.



FEATURES

1. Provides upto 150/450 A at 48V in one cabinet.
2. User configurable relay contacts
3. Multiple Rectifier Fail Alarm
4. Operates with global AC voltages
5. Designed to operate in poor power quality environments.
6. Easy for Installations & true Front access for maintenance
7. Cabinets equipped with AC and DC distribution.
8. Low voltage battery disconnection to protect batteries.
9. Utilizes 48V 2000 / 4000W rectifier modules
10. Compatible with Li-ion battery

FREE COOLING UNITS

Pragati Free Cooling Unit is designed for efficient, energy saving and environmentally protective cooling, ideally suited to cool BTS sites. Saving of over 50% in energy bills has been reported after installing our free cooling units.



Telecom and Transmission Towers

40M USO TOWER FOR BSNL



TOWERS

Pragati has fabrication & galvanizing facilities for manufacturing all types of Angular, Tubular and HT/MS Hybrid Towers for Telecom, Transmission Line, Sub Station Structures and Customised / Special Purpose Towers.

We also manufacture and supply/ install Solar Modules Mounting Structures for Solar Powered Sites / Solar Farms.

Our Tower / Structure Designs have approvals from all leading Institutions like SERC, IIT, TSEC, etc.

We have a large customer base for these products in Telecom Sector, Power Utilities, Large Corporate Sectors, PSUs and Govt. departments. We have been manufacturing and supplying, even on turnkey basis, in large quantities in India and Abroad.



TRANSMISSION TOWERS



Electrical Lifting Barriers Gates

We manufacture RDSO approved Electric Lifting barrier for installation on level crossing. Electric lifting barrier gates for factory or Residential colonies, fully automatic / manual operation built with all safety features.



Pragati's State of the ELB Manufacturing plant at Kotputali



Lithium Ion Battery

Pragati Electrocom's cutting edge technology brings a wide range of Lithium ion batteries.

We have batteries for the following applications:

1. Telecom
2. UPS
3. ESS
4. Railways
5. Power Sector
6. Defence



Duct Turbo Ventilation Unit for Telecom Sites

Energy Saving, Non-Electrical Turbo Ventilators, driven by outside wind to provide Natural & Duct Cooling Exhaust solution systems for Telecom Shelters. .



Solar Based Solutions

We specialize in providing Off Line / On Line solar power solutions. Our solar Power plants are providing autonomous reliable solar power to number of remote BTS sites for the past several years in India & abroad.



Total TSP

Pragati maintains phenomenal growth and today, it has extended its profile from an OEM and Solution provider to TECHNICAL CONSULTANT & TURNKEY SOLUTIONS PROVIDER

The Process involves:

1. Site Survey
2. Soil Testing
3. Lease & other documents collection from the concerned authority.
4. Statutory approval
5. Drawing approval from concerned authority
6. Tower & its foundation work
7. Shelter & its foundation work
8. Outdoor electrification and Earthing work



Consultancy

Technical Consultancy for Network Infrastructure, Services, Design Development of Software / Hardware and customised products.

Turnkey Projects

Complete design, product selection & execution of Telecom, Railways and Power related Projects.



Business Partners



PRAGATI ELECTROCOM



Product / System Certificates: UL, CE, CPRI, NABL, ISO 9001: ISO 14001; ISO 45001
Approvals RDSO, MES, Reliance Telecom, Indus Towers, State Electricity Board, BSNL / TEC

H.Q: Plot No. 184, Sector 3, IMT Manesar, Gurgaon-122050
Haryana, India
Ph: +91-124-2291480

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