



**Optimum Power Solution's**  
**for an Energised World**

**PRAGATI ELECTROCOM PVT. LTD.**

## *Vision*

**End to end novel solutions for energy conservation**

## *Mission*

**Optimum Power & Tower Solutions for an energised world**

# Pragati Electrocom



Pragati Electrocom (P) Ltd. is a professionally managed ISO 9001: 2000 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 and corner of this country with installed based of more than 30,000 sites.

True to our name and aspiration to deliver best of the technology and add to the growth of our valued customers, Pragati is transforming itself from an equipment manufacturing outfit to a **Total Solution Provider (TSP)**





## OUR TEAM

A professional and dedicated technocrat team of marketing designing & 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, Defense 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 capability enables Pragati to refine the process of development. We have developed Energy Saving Products which saves appreciable energy around 30% to 40% including Electricity & Diesel.

## HOW WE OPERATE

- Survey and Analysis at Client Site
- System Design at State of art Design Facility
- Product Manufacturing, Integration & Test in our Laboratory
- Installation & Implementation at Client site.
- Warranty & Maintenance





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

### **Power Conditioning, Automation and Energy Saving Products**

#### **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 and Surge protection and Alarm systems to provide an ultimate Power Management Solution for Telecom sites

#### **Servo Voltage Stabilizer (SVS) / Line Conditioning Unit**

Servo voltage stabilizers provide complete power protection to sensitive electronic equipment against large mains supply voltage variation.

#### **Power Distribution Frame (PDF)**

Power Distribution Frames distribute DC voltage of battery to various circuits in RBSC & MSC Telecom sites. Monitoring & Alarms are also provided in this system.

#### **Automatic Voltage Regulator (AVR)**

Automatic voltage regulators provide power protection to Air Conditioners against large mains supply voltage variation. 4/5 KVA 1PH & 3PH models are available. These products are specially designed for the telecom appliances.

#### **Phase & Neutral Balancing System (PNBS)**

PNBS balances three phase supply load in an unbalanced load distribution sites, resulting in reducing unbalanced load current through neutral, thereby reducing power losses. It also generates virtual neutral or phase for the load if the same is not available in mains supply.







## Power Protection Products

### 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 microseconds 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 micro seconds pulse handling capacity, designed using fuseless 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 micro second using fuseless surge arresters. The multistrike handling system, operation is regulated by using an energy co-ordination coil.

C) Telephone Line Protection, Radio Frequency Interface Protection, Computer Network Protection, Coaxial Cable Line Protection, Data Line and Server Protection.





### Maintenance Free Earthing

Good earth pits as per BIS/IES specifications are made, using Copper claded MS Rods or GI Plates/ Pipes, dug deep in the ground in different configurations. Use of EARTH CONDUCTIVITY ENHANCEMENT COMPOUND (LOHM) not only makes the pits maintenance free, but also improves the soil conductivity by 20 times. Low resistance earth pits, 2.0 ohms for lightning and <1 ohm for equipment are normally recommended. Soil conductivity enhancement compound poured in holes along the electrodes makes the pit maintenance free and also improves its conductivity.







## Telecom and Transmission Towers

### Towers

Pragati Electrocom is proud to announce the manufacturing of the lightest Telecom Towers in the world. The few specifications of the tower are given as below:

- a) Tower design is approved by SERC Chennai & TEC Delhi.
- b) The tower design is revolutionary in the sense that it is a mix of HT & MS concept.
- c) 40m tower weight is very low with 8GSM & 8MW antennas at 180KMPH including all accessories.
- d) Average saving of our customer is in the range of 10 to 15% using this innovative design.
- e) Customers may reduce their average CAPEX on tower.
- f) Three to four operators can share the structure keeping in mind the wind speed of 180KMPH.
- g) Foundation cost can also be reduced using our innovation design..







## Solar Based Solutions

1. Solar Home Lighting System
2. Solar Street Lighting System

Our product range complies with UL, CSA, EN, TEC and RDSO specifications. Pragati maintains phenomenal growth and today it has extended its profile from an OEM and Solution provider to TECHNICAL CONSULTANT and TURNKEY SOLUTIONS PROVIDER. With strength of skilled professionals. The system comprises of Solar Photo Voltaic Module (Solar Cells), charge controller, battery and lightning system (Lamps & Fan). The solar module is installed in the open on roof/terrace- exposed to sun light, the charge controller and battery are kept inside a protected place in the house. The Solar Photo Voltaic (SPV) systems have found important application in the dairy industry for lightning milk collection / chilling centers mostly located in the rural areas.

## TOTAL TSP

The process involves:

1. Site Survey
2. Soil Testing
3. Lease & other documents collection from concerned authority
4. Statuary approval
5. Drawing approval from concerned authority
6. Tower & its foundation work
7. DG & its foundation work



- 8. Shelter & its foundation work
- 9. Outdoor electrification and earthing work
- 10. EB connection

### CONSULTANCY

Technical Consultancy for Network Infrastructure, Services, Design & Development of software/ hardware and customized products.

### TURNKEY PROJECTS

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





## APPLICATIONS

The various application sectors are:

Telecommunications

Defence

Refineries

Railways

Oil Exploration

Industries

Hopitals

Hotels



## PRESTIGIOUS CLIENTS







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