



**RPCON**  
CHEMICAL  
EARTHING ELECTRODE



**RPCON Plus India Pvt. Ltd.**

(A MSME Enterprise)

Better Solution for Best Protection



## Necessity of good earthing

The outer housing of an electrical equipment is earthed by directly connecting it to an earth electrode, thereby providing a low resistance path to ground. In case of a fault involving earth, the live part of the equipment gets connected with the low resistance earth path. This produces high earth fault current and the protective devices in the circuit disconnects the circuit from the power source thereby reducing further damage to the equipment.

## "RPCON" Earthing System

RPCON Plus India Pvt. Ltd. has developed a more advanced chemical earthing system under the brand name of "RPCON". These earthing electrodes has been developed after a consistent R&D and being manufactured and marketed. "RPCON" specializes in engineering, manufacturing, installation and testing of highly conductive, corrosion free earthing system which is also of "Zero maintenance". Our services extend from public sector to private sector to corporate ranging from national to international level.

Our high-tech, revolutionary zero maintenance earthing systems provides noise free earthing for electrical, electronics, communication data (digital & analog) and lightning system. Our reliability, honest customer service and diligent technology has earned us the credibility, trust and respect from our customers not only in country but also internationally.

We have developed expertise in design, manufacturing and installation of our state of the art, corrosion free earthing system, ideal for all types of soils and environments. Our different applications have saved money of our valuable customers by preventing damage to costly equipment and increase productivity by eliminating unnecessary downtime.

Our product is tested in top NABL accredited laboratories like Central Power Research Institute (CPRI), National Test House (NTH) etc. We follow the concepts and guidelines of IEEE, RDSO, IEC etc while manufacturing our earthing products.

"RPCON" make earthings are manufactured by high end a metal which provides a multifaceted, proactive, highly conductive corrosion free earthing. Mostly the electrodes are made from high end GI pipes& copper pipes, to ensure maximum conductivity and long life. The CCM compound inside the pipe protects the pipe from corrosion (for GI) and enhances conductivity.

Back Fill Compound (BFC)- Our specially designed compound for the pit treatment enhances conductivity, lowers the resistivity of the soil. Having very low flash point, no acidic chemical, the BFC is very much Eco-Friendly and contributes in green revolution thereby enriching the soil component.

## Benefits of "RPCON" Earthing

- It provides a stable reference potential for instrument accuracy.
- Totally maintenance free. A kind of fit-n-forget device.
- It continuously maintains approximately the same earth resistance value over time regardless of the climatic conditions.
- The BFC creates a conductive zone, which provides increased surface area for peak current dissipation and also get stable reference point.
- Highly galvanized or copper pipes used. Anti corrosive, hence long life assured.
- Low impedance earthing.
- Customized design for different kind of soil.
- Reliable, honest & effective earthing solutions to our clients.







### Types of "RPCON" earthing electrodes

1. Pipe in Pipe GI earthing.
2. Strip in Pipe GI earthing.
3. Pure Copper (99.9%) pipe earthing.
4. Copper Bonded rod earthing.
5. Cast Iron (CI) earthing electrode system.
6. Customize the type and length of the earthing according to customer's choice.

### Speciality of "RPCON" earthing electrodes

- Pipe in Pipe (PIP) technology as per the clause 14.5 of IEEE 80 -2000, in order to reduce the number of electrodes in grid.
- Hot dip galvanized pipes (80-100 micron) with ISI mark.
- Back Fill compound(BFC) for lowering the soil resistance and to retain the ground moisture is made as per IEEE 80- 2000 and IS-3043. This is a "green" chemical product with eco-friendly chemicals thereby not contaminating the soil or nearby water sources of the earth pit.
- Specialized installation team to install electrode in any situations.

### Applications of RPCON earthing electrodes

- Electrical sub-stations, transformers, electrical panels, tele communication towers.
- Lightning arrester, Electrical machines, CNC machines.
- Railways, Airports, factories, diesel generators, pumping stations
- Thermal power plants, Hydro Power Plants, Nuclear Power Plants.
- Commercial buildings, residential buildings, cold storages.
- Renewable plants, Hotels, Hospitals etc.

### Our Other Products

RPCON Plus Pvt. Ltd. also deals with different types of lightning arresters like copper bonded arresters, Early Streamer Emitter (ESE), Strike counter, Surge Protection Devices (SPD's). We also undertake the installation of earthings , lightning arresters, SPD's and other electrical works in turnkey projects basis. We have done several prestigious projects on Lightning Protection Systems (LPS).

### Our different project's real time images



### Our clientele:

Some of our esteemed clients are as follows:

Powerbank Green (Suchi Anant Virya) ■ Shyam Steel Ltd. ■ Beekay Steel Ltd.  
Almatis Alumina Pvt. Ltd. ■ Bengal Energy Ltd. ■ Subhadarshini Hospital, Durgapur ■ CPWD  
Indian Railways ■ BNS Group ■ Vishnu Group ■ FACOR(Vedanta Group)  
Dhampur Sugar Mill ■ Insilica LLP

to name a few.



### For Enquiry:

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