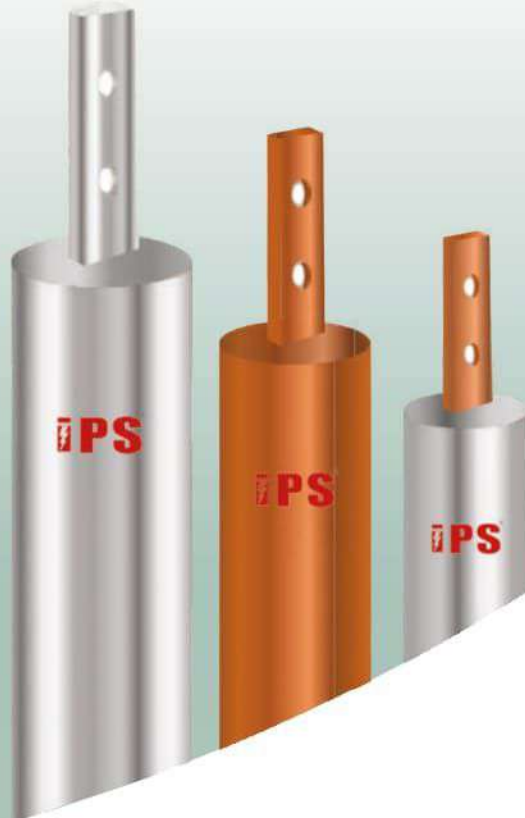
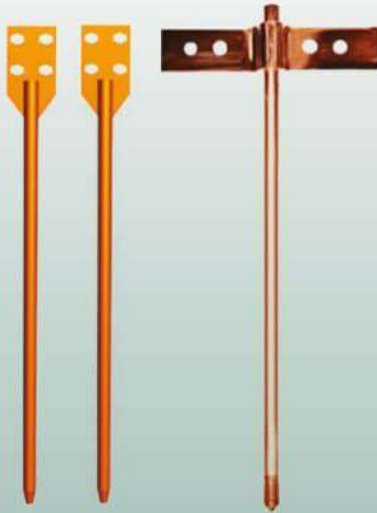




# CHEMICAL GEL EARTHING



## Earthing

Have you ever experienced a mild shock when you touch certain appliances while in operating condition? Sometimes these shocks can be dangerous and can lead to major hazards. To avoid mis happenings, it is always advisable to have a proper **earthing** done to the building. This process of sharing the charges with the earth is called earthing. Earthing is a simple way for the leakage of current and hence protects the devices from electrical damage. Grounding is also one such safety process that protects the entire power system from malfunctioning and is mainly used for unbalancing the load when the electric system overloads.

Earthing is defined as **“the process in which the instantaneous discharge of the electrical energy takes place by transferring charges directly to the earth through low resistance wire.”**

Low resistance earthing wire is chosen to provide the least resistance path for leakage of fault current.

## About IPS (Indo Powersys Pvt. Ltd)

Reliability and consistency in quality are critical to be a success in the business of power equipment's. Indo Powersys Private Limited (**IPS**) which epitomizes both these traits has emerged as a leading manufacturer of IPS chemical earthing bearing international quality certificates ISO 9001;2015, ISO 14001;2015, ISO 45001;2018, ISO 27001;2003, ROHS, CE marking, registered in MSME, NSIC & GEM and approved by . The company established under the able leadership of technocrats, boasts of a satisfied clientele. The leader in power equipment management has established itself as a name of repute and promise. Inspired by a mission to give customers maximum value for money, IPS has in house production line, innovative R&D, enterprising, marketing channels and complete infrastructure for transportation and storage. The company has a strong and aggressive marketing network comprising of market savvy dealers spread all over the country. Behind such a planned and integrated management is a dedicated team of young and dynamic professionals, qualified engineers & proficient market handlers, that manage IPS and have established it as a company of repute on the map of Rajasthan. The machines are tuned to next generation performance and reliability, and bring a new level of quality to the art of power production with a concept of growth through innovation and tranquility of mind.

## IPS Chemical Earthing System

IPS chemical earthing or maintenance free earthing is essential and important for the safety of human lives and equipments. Hence after consistent research and development we have developed an efficient and effective earthing technology.

IPS chemical earthing makes sure safety of equipments from voltage surge and transients by arresting damages to highly sensitive equipments which can be caused by inadequate grounding performance. IPS earthing electrode are highly secured, stable and reliable in all adverse environmental conditions. It is completely maintenance free and have long life expectancy. The existing traditional type of earthing system needs to be changed every 3-4 years and use salt, coal, etc. which gets washed away over a period of time but IPS chemical earthing is completely maintenance free and has a life of more than 20 to 25 years.

IPS earthing electrode is an ultra-efficient low surge impedance grounding system. It provides the desired low maintenance interface with the real earth by continuously conditioning the surrounding soil. It is a corrosion free grounding system ideal for all types of soil conditions.

## Importance & Advantage of Chemical Earthing

As heart is for body, importance of earthing is for electric circuit. Earthing is critical area of electrical engineering maintenance. An effective earthing ensures the safety of plant, equipment, human beings residential & commercial buildings.

A good earthing system also help in mitigating the electrical disturbances and serve as a common voltage reference to the sensitive electronic equipments.

Earthing electrode contains a conductor rich crystalline mixture to protect the main earth electrode is the soil and facilitates the faster transfer of the fault current to the earth.

Protection from lightning, short circuit, leakage of current, electrical shock, current fluctuation , fault current, high voltage etc.

Benefits of greater personal and equipment safety, reliability, current load capacity, discharge path for short circuits, fault current/surge protection, stable earth value with longer life.

## Salient Features of IPS Chemical Earthing

- Maintain uniform earth resistance
- No need to dispense water recurrently
- Ultra low resistance grounding electrode
- Absorb and retains the moisture
- Prevents static & Stray current accidents
- Chemical Used are eco-friendly
- Large surface area for current dissipation
- Low earth resistance & High Conductivity
- Multi direction dissipation of current
- Weather proof & Highly durable
- Needs lesser space for installation



## IPS Earthing Products

### GI Earthing Electrode (Strip in Pipe Technology)

#### IGI-SIP Series

Model No.	Dia	Length	T.Size	Inner GI Strip	BFC
IGI-SIP-481	48mm	1Mtr	32x6mm	25x3mm	15kg
IGI-SIP-482	48mm	2Mtr	32x6mm	25x3mm	25kg
IGI-SIP-483	48mm	3Mtr	32x6mm	25x3mm	50kg
IGI-SIP-581	58mm	1Mtr	40x6mm	25x3mm	15kg
IGI-SIP-582	58mm	2Mtr	40x6mm	25x3mm	25kg
IGI-SIP-583	58mm	3Mtr	40x6mm	25x3mm	50kg
IGI-SIP-802	80mm	2Mtr	50x6mm	25x3mm	25kg
IGI-SIP-803	80mm	3Mtr	50x6mm	25x3mm	50kg

### GI Earthing Electrode (Dual Pipe Technology)

#### IGI-PIP Series

Model No.	Dia	Length	T.Size	Inner pipe	BFC
IGI-PIP-581	58mm	1Mtr	40x6mm	25mm	15kg
IGI-PIP-582	58mm	2Mtr	40x6mm	25mm	25kg
IGI-PIP-583	58mm	3Mtr	40x6mm	25mm	50kg
IGI-PIP-802	80mm	2Mtr	50x6mm	40mm	25kg
IGI-PIP-803	80mm	3Mtr	50x6mm	40mm	50kg

### GI Earthing Electrode with Copper Terminal

#### IGI-CT Series

Model No.	Dia	Length	T.Size	Inner GI Strip	BFC
IGI-CT-581	58mm	1Mtr	40x6mm	25x3mm	15kg
IGI-CT-582	58mm	2Mtr	40x6mm	25x3mm	25kg
IGI-CT-583	58mm	3Mtr	40x6mm	25x3mm	50kg
IGI-CT-802	80mm	2Mtr	50x6mm	25x3mm	25kg
IGI-CT-803	80mm	3Mtr	50x6mm	25x3mm	50kg

### GI Earthing Electrode with Copper Strip

#### IGI-CS Series

Model No.	Dia	Length	T.Size	Inner Cu Strip	BFC
IGI-CS-581	58mm	1Mtr	40x6mm	25x3mm	15kg
IGI-CS-582	58mm	2Mtr	40x6mm	25x3mm	25kg
IGI-CS-583	58mm	3Mtr	40x6mm	25x3mm	50kg
IGI-CS-802	80mm	2Mtr	50x6mm	25x3mm	25kg
IGI-CS-803	80mm	3Mtr	50x6mm	25x3mm	50kg

### Copper Bounded Earthing Electrode

#### ICBP Series

Model No.	Dia	Length	T.Size	Inner GI Strip	BFC
ICBP-481	48mm	1Mtr	32x6mm	25x3mm	15kg
ICBP-482	48mm	2Mtr	32x6mm	25x3mm	25kg
ICBP-483	48mm	3Mtr	32x6mm	25x3mm	50kg
ICBP-581	58mm	1Mtr	40x6mm	25x3mm	15kg
ICBP-582	58mm	2Mtr	40x6mm	25x3mm	25kg
ICBP-583	58mm	3Mtr	40x6mm	25x3mm	50kg
ICBP-802	80mm	2Mtr	50x6mm	25x3mm	25kg
ICBP-803	80mm	3Mtr	50x6mm	25x3mm	50kg

### Copper Bounded Earthing Rod

#### ICBR Series

Model No.	Dia	Length	T.Size	Cu Bounding 253micron	BFC
ICBR-141	14.2mm	1Mtr	50x6mm	253micron	15kg
ICBR-142	14.2mm	2Mtr	50x6mm	253micron	25kg
ICBR-143	14.2mm	3Mtr	50x6mm	253micron	50kg
ICBR-161	16.2mm	1Mtr	50x6mm	253micron	15kg
ICBR-162	16.2mm	2Mtr	50x6mm	253micron	25kg
ICBR-163	16.2mm	3Mtr	50x6mm	253micron	50kg
ICBR-171	17.2mm	1Mtr	50x6mm	253micron	15kg
ICBR-172	17.2mm	2Mtr	50x6mm	253micron	25kg
ICBR-173	17.2mm	3Mtr	50x6mm	253micron	50kg
ICBR-192	19.2mm	2Mtr	50x6mm	253micron	25kg
ICBR-193	19.2mm	3Mtr	50x6mm	253micron	50kg
ICBR-252	25.2mm	2Mtr	50x6mm	253micron	25kg
ICBR-253	25.2mm	3Mtr	50x6mm	253micron	50kg

### Pure Copper Earthing Electrode

#### ICU Series

Model No.	Dia	Length	T.Size	Inner GI Strip	BFC
ICU-501	50mm	1Mtr	40x6mm	25x3mm	15kg
ICU-502	50mm	2Mtr	40x6mm	25x3mm	25kg
ICU-503	50mm	3Mtr	40x6mm	25x3mm	50kg
ICU-802	80mm	2Mtr	50x6mm	25x3mm	25kg
ICU-803	80mm	3Mtr	50x6mm	25x3mm	50kg

## IPS Back Fill Compound (BFC)

IPS back fill compound is specially developed compound capable of absorbing and retaining the moisture for a longer period. It has all the qualities of an ideal back fill compound for an effective & efficient earthing system. It consistently holds its own shape and adheres to any surface it touches. It has following characteristic :

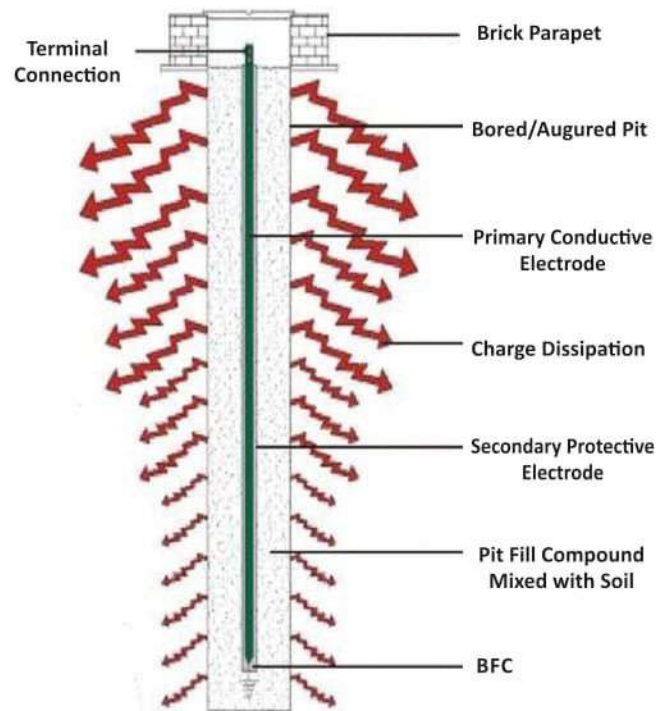
- Does not contain any hazardous chemicals
- Reduces the soil resistivity
- Helps in current dissipation
- Retains moisture for a longer period
- Does not dissolve, decompose or leach out with time
- Available in 25kg,15kg & 5kg packing



## Installation Guide

1. Unwrap the packing from the electrode.
2. Drill a bore of 150-200mm in diameter to an appropriate length of electrode.
3. Place the earthing electrode in vertical position in the pit with the connection terminal on the top.
4. Refill empty space around the earthing electrode with IPS earth resistance enhancement compound which is already mixed with adequate water.
5. Don't use hammer during installation
6. Do proper water pouring up to 2-5 days after installation, if necessary (depend upon the soil conditions).

\*\*Ohmic value depends/Varies on soil conditions



## Earth Pit Chamber

Environment friendly rust proof heavy duty weather proof FRP earth pit chamber

Model : FRP 01

Model : FRP 02



### Dimensions

At top dia – 150 mm  
At Bottom dia – 210 mm  
Height - 240 mm

### Dimensions

At top dia – 254 mm  
At Bottom dia – 330 mm  
Height - 260 mm

### Main Features:

- Light Weight
- High Mechanical Strength
- Cost Effective Solution
- Resistant material assuring long use-life
- Green top cap matches the environment

## Our Other Products :

Offline & Online UPS | Servo Voltage Stabilizer  
Solar Projects | DSP Sinewave HUPS  
Isolation TRX | Battery | Battery Charger

# IPS<sup>®</sup>

## Indo Powersys Pvt. Ltd.

(An ISO 9001, 14001, 45001, 27001, RoHS, BIS & CE Cert. Co.)

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