



SAMAY ELECTRIC

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IVANAH

ADVANCE EARTHING SOLUTIONS



What is earthing?



The process of transferring the immediate discharge of the electrical energy directly to the earth by the help of the low resistance wire is known as the electrical earthing.

If there is a fault occurs in your electrical installation you could get an electric shock if you touch a live metal part. This is because the electricity may use your body as a path from the live part to the earth part. To avoid this fatal incident to occur, earthing system is being installed.

Purpose of Earthing

Earthing is used to protect you from an electric shock. It does this by providing a path (a protective conductor) for a fault current to flow to earth. It also causes the protective device (either a circuit- breaker or fuse) to break the electric current in the circuit that has the fault.

One of the most important reasons for grounding electrical currents is that it protects your appliances, your home and everyone in it from surges in electricity. If lightning was to strike or the power was to surge at your place for whatever reason, this produces dangerously high voltages of electricity in your system.

Advantages of Earthing System

- Maintenance Free
- Low Resistance
- High Conductivity
- Faster dissipation
- Eco Friendly
- Easy to Installed
- Anti Corrosive

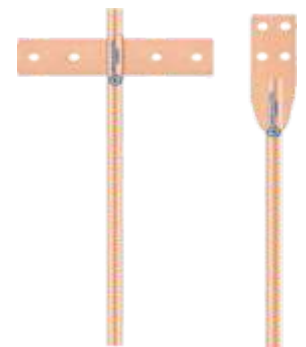
Application

- Body & Neutral Earthing
- Data Processing Centre's
- Electrical Substation & Power Plants
- Lightning Protection System
- Tele Communication system
- Transformer & DG Sets
- Sensitive Equipment & Electronics Items
- In All types of Industries
- Infrastructure Projects Etc.

Copper Bonded Electrodes

Ivanah Copper bonded earth Electrodes probably offer to the installer the best and most economical earth Electrodes available. They are made by molecularly bonding 99.9% pure electrolytic copper on to a low carbon steel Rods. Ivanah rods are not of the sheathed type. They are highly resistant to corrosion, and because the steel used has a very high tensile strength.

Model No.	Length (MM)	Dia. (MM)	Copper Bonding (μ)
EL-IV-4401502	3000 MM	15 MM	250 μ
EL-IV-4401702	3000 MM	17.2 MM	250 μ
EL-IV-4402001	3000 MM	20 MM	250 μ
EL-IV-4402501	3000 MM	25 MM	250 μ
EL-IV-4403201	3000 MM	32 MM	250 μ





HDGI Electrode (Strip In Pipe)

Model	Length (MM)	Inner Strip	Outer Pipe Dia.	HDGI (μ)
EL-IV-4408001	3000 MM	40X6 MM	80 MM	80 -100 μ
EL-IV-4305001	3000 MM	25X6 MM	50 MM	80-100 μ



HDGI Electrode (Pipe in Pipe)

Model	Length (MM)	Inner Strip	Outer Pipe Dia.	HDGI (μ)
EL-IV-4208001	3000 MM	40 MM	80 MM	80 -100 μ
EL-IV-4205001	3000 MM	25 MM	50 MM	80-100 μ

Copper Bonded Electrode (Strip In Pipe)

Model	Length (MM)	Inner Strip	Outer Pipe Dia.	HDGI (μ)
EL-IV-4458001	3000 MM	40x6 MM	80 MM	250 μ
EL-IV-4355001	3000 MM	25x6 MM	50 MM	250 μ



Copper Bonded Electrode (Pipe in Pipe)

Model	Length (MM)	Inner Strip	Outer Pipe Dia.	HDGI (μ)
EL-IV-4258001	3000 MM	40 MM	80 MM	250 μ
EL-IV-4255001	3000 MM	25 MM	50 MM	250 μ

Pure Copper Earthing Electrode

Ivanah Pure copper earth Electrodes offer greater resistance to corrosion. They are ideally used in applications where soil conditions are very aggressive, such as soils with high salt content.

Model	Length (MM)	Inner Strip/Pipe	Outer Pipe Dia.	Copper Grade
EL-IV-4348002	3000 MM	25X6 MM	80 MM	EC 99.9%
EL-IV-4345002	3000 MM	25X6 MM	50 MM	EC 99.9%
EL-IV-4248001	3000 MM	40 MM Pipe	80 MM	EC 99.9%
EL-IV-4245001	3000 MM	25 MM Pipe	50 MM	EC 99.9%

Note – All above Earthing system also available in different Length & Dia. On request.



Hydroscopic based conductive backfill compound is a natural compound used to fill up excavated earth pits. It is made of natural components (graphite, minerals, etc...) and is totally ECO-Friendly. Its ability to absorb the moisture from the surrounding soil and its non corrosive nature makes it an ideal environment around any earthing electrode.



Advance Conductive Backfill Compound is supplied in 20 Kg bags

Earthing Chamber Cover

HDPE Round Chamber

- Made of High-density polyethylene (HDPE) for extra durability & strength.
- Factory made two side cut outs are provided to enable routing of earth grid strips / cables.
- HDPE material is corrosion resistant, assuring long life.
- Anti skid surface.
- It has been tested for 5 Tons of weight.



Part No.	EL-IV-4871101
Top Diameter	Ø 255 mm
Base Diameter	Ø 350 mm
Height	260mm
Material	HDPE
Characteristics	Corrosion Resistant
Color	Black

Part No.	EL-IV-4871201
Dimension	300x300mm
Height	260mm
Material	HDPE
Characteristics	Corrosion Resistant
Color	Black

Conventional HDGI & Pure Copper Plate type Earthing

- HDGI Plate – 600 X 600 X 6 MM
- HDGI Plate – 600 X 600 X 12 MM
- Copper Plate – 600 X 600 X 3.15 MM
- Copper Plate – 600 X 600 X 6 MM
- CI Chamber Cover – 300 X 300 MM & 450 X 450 MM



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