



# Total Earthing Solutions



**GEESYS Technologies (India) Pvt. Ltd.**


**GEESYS  
CARES**


**SAFETY | QUALITY | SAVINGS**

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Lightning is a natural phenomenon involving high to very high quantum of electrical energy. When the electrical potential between two clouds or between a cloud and earth reaches a sufficiently high value the air becomes ionized along a narrow path and a lightning flash results which can extend up to multiple kilometres.

The consequences of a lightning strike and transient overvoltage or a power surge can be catastrophic and disastrous for any facility or structure and its internal occupants & equipment. Lightning can neither be prevented nor predicted. Hence it is imperative that one is adequately prepared at all times to protect against these dangerous natural phenomena.

Lightning Arrestors are critically placed on a structure and connected to a lightning conductor and Earthing system to safely receive a strike and safely dissipate it in the earth.

Effective and reliable protection is the only solution which Geesys provides with Indian standard IS/IEC 62305. This standard protects the structure and people against lightning and also the electrical and electronic equipment located inside the structure.

Geesys is one of the distinguished Manufacturers, Exporters, Traders and Suppliers of quality Earthing and Protection.

### **Lightning Arresters – Franklin or Multi Spike type**

Geesys Technologies India Pvt. Ltd., one of the leading Chennai based manufacturing organisation, has successfully expanded its business on PAN India, for all PV Solar related BoS products and serving varied market requirements. Geesys's Earthing & Lightning Arresters are manufactured utilizing superior quality raw material and the latest technology. Moreover, a team of our quality controllers conducts a series of quality tests on our entire range to eliminate any possible defect. In tune with industry standards, we provide these arresters which are dependable & affordable.

Backed by the rich industry experience and knowledge, we offer excellent quality Earthing and Lightning Arrester. This arresters are developed from the high quality raw material & modern techniques as per the defined industry standards. Besides, this lightning arrester is tested on several quality parameters in order to ensure its absolute flawlessness. This lightning arrester is available at your nearest dealer location.

#### **Features :**

- Robust design
- Finely finished
- High grade stainless steel construction
- Lightweight and easy to install
- Corrosion resistant
- Low wind loading
- Large selection of mounting hardware
- Independently tested

#### **Specifications:**

- Model No.
- System rated voltage KV
- MOA rated voltage KV
- Continuous operating voltage KV
- Reference voltage at < 1 mA
- Residual voltage at nominal discharge current
- Steep current impulse residual voltage
- 2ms rectangular current impulse withstand



## Earthing Electrodes:

**Geesys** with its wide industry experience and identifying the customers need, hereby offer one of the most tried and tested Earthing Electrodes in two variants viz, **Copper Micro Bonded Electrode** and **GI Chemical Electrode** - in a seamless GI Pipe. Our rugged products are precisely designed & engineered with perfection and is reliable for long term usage, suit to every need of Earthing Installation, be it domestic or large size commercials structures. Our devoted R & D and Design teams have put in their strenuous efforts in developing & producing one of the most trusted, maintenance free, longer lasting and affordable product with the finest and most suitable material. Both these "CPRI" certified Electrodes meet the highest possible precautionary standards. You can be rest assured our Electrodes will protect the structures, buildings, the human, the machinery and the equipments, whenever they are put to test in every weather condition. Owing to its capability, GI Earthing Electrode is widely demanded by our clients across PAN India.

### Features:

- Made with Low Carbon Steel (LCS) and Copper Micro bonded with 150 & 250
- Microns, available in 2 & 3 meters,
- Seamless GI Pipe sealed with chemicals, Maintenance free - available in 2 & 3 meters,
- Both have been tested and cleared the SCT tests at up to 40KA per second
- Have sufficient current-carrying capacity
- High fault current ensures safety of MCB, MCCB trips etc.



### Applications:

- Tele communication towers & microwave antennas
- Transmission & distribution system
- Substations & power generators
- Transformer neutral Earthing
- Lightening arrester Earthing
- Computer & data processing centres manufacturing facilities & refineries
- Heavy industries, High rise Commercial Buildings,
- Petrochemical, Oil refineries & pumping stations LNG,
- Railways, Airports, Nuclear Facilities, Military and Defence Installations



### Specifications:

- 3.0 Meter x 25.00mm & 17.2mm - 150Micron & 250 micron
- 2.0 Meter x 25.00mm & 17.2mm - 150Micron & 250 micron
- 1.0 Meter x 25.00mm & 17.2mm - 150Micron & 250 micron
- Moisture free Seamless GI Pipe 1.0, 2.0 & 3.0 Meter
- Thickness:  $\geq 0.254$  mm,  $\geq 0.172$  mm - Copper
- Thickness:  $\geq 0.48$  mm - GI
- Resistivity:  $\leq 0.05$  ohm / mm
- Tensile strength:  $\geq 600$  N / mm
- Length: 1000 mm to 3000 mm

### Features:

- High quality
- Moisture free
- Long life
- High grade Copper and GI coating
- Non-corrosive
- Cost effective
- Long lasting
- Easy to fix
- Perfect shape
- High strength

## **Earthing Compound:**

Geesys's competency lies in offering our clients a superior quality range of Maintenance Free Earthing Chemical manufactured with the use of approved chemical compounds and with the contemporary technology at pocket-friendly rates. Our entire range of Earthing material & components provide powerful circuit protection and control electromagnetic disturbances in an absolute proper manner.

Geesys offers the Earth enhancing Compound in two variants, suitable to dry & wet soils, in two packing, viz 15 and 25Kg bags, made from certified A grade raw materials and components thus reducing the maintenance cost of the Earthing system

### **Features:**

- Compositional accuracy
- Longer shelf life
- Free from contamination
- Improves earth resistivity
- Safe packaging
- Accurate composition
- Eco friendly
- Anti-Corrosive and Low Resistivity
- Non Hazardous Waste
- Premium Quality



## **GI Strips (Galvanised Earthing Tape - Hot Dipped)**

Geesys makes the Hot Dipped GI Earthing Strips duly keeping in mind the needs and requirements of the clients from superior material. Quality is maintained at all levels to match the international standards. Our products undergo quality checking at various parameters by our professionals to ensure, we deliver one of the best to our clients at a very attractive price. Our products are known for their precise fabrication, optimum finish, safe usage, high durability and easy to use which find extensive application in various industries

Our range of GI Earthing strips are available in various sizes and specifications to meet the diverse requirements of the clients.

### **Specifications:**

- Available in : 3x25mm, 6x25mm, 6x50mm
- Material : Hot Dipped Galvanised Low Carbon Steel (LCS),
- Application : Electrical - Domestic and Commercial
- Length : Maximum 3.5 to 3.6 Meters
- Longer life



## **Copper Strips (Copper Earthing Tape)**

Geesys makes one of the best Copper Earthing Strips with A grade material to fulfil the needs and requirements of the clients. Known for our Quality, we maintain strategic checks at all levels to match the international standards. Our quality inspection on various parameters by our professionals to ensures, a flawless, trouble free Strip which is high productive and pocket friendly. Precise fabrication, fine finish, high durability and easy to use are our USP

Our range of Copper Earthing strips are available in various sizes and specifications to meet the diverse requirements of the clients.

### **Specifications:**

- Available in : 3x25mm, 6x25mm, 6x50mm
- Material : Copper & Copper Bonded,
- Application : Electrical - Domestic and Commercial
- Length : Maximum 3.5 to 3.6 Meters
- Longer life
- Non Corrosive,
- Premium Quality



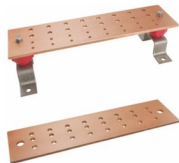
## Earthing Bus Bars - Copper and Copper Bonded.

Geesys, with our experience and the need of the market, brings you one of the top quality **Copper Bus Bar** with minimum conductivity 99% + in two variants viz, Copper and Copper bonded bars.

Our bars find the easy acceptance because of our industry standing, quality and it's price

### Features:

- Bright color
- Shimmery finish
- Durable bar design
- Available upto 300mm
- Copper bonded upto 150 Micron
- Application : Electrical - Domestic / Commercial
- Material : Copper and Copper bonded LCS



## Earthing Clamps :

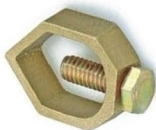
Geesys, identifies the need for a quality clamp, easily available, long lasting and attractive price.

### 1. "C" type

The **Geesys "C" type Earthing Clamp** is an Earthing clamp for installation on bare conductors. **This clamp** has a C-Type attachment and a hexagonal end-fitting. A circumferential braking system prevents the clamp from turning under the weight of the cable. **This clamp can be** separated by simple pulling.

### Features:

- Rating: 30 kA/1 s
- Dimensions: 44 x 100 x 180 mm
- Conductor diameter: Ø 5-35
- Weight: 650g



### 2. "D" type

The **Geesys D type Earthing Clamp** is an Earthing clamp used for MV installations and substations. This is a copper aluminium bronze earth clamp, and earth cable connection by connector, lug, TO- system.

### Features:

- Rating: 20 kA/1 s
- Dimensions: 40 x 73 x 135 mm
- Connection: Thread Ø 12.5 mm
- Clamp capacity: Ø 6 -25, 0 – 25
- Weight: 480g



### 3. Steel Earthing Clamp (Silver, Copper)

Geesys brings in spring loaded welding Earthing clamp with the current rating of 300A, can be clipped directly to the metal being welded or onto a metal welding table.

#### Features:

- Earth clamp made of zinc coated steel and copper plated
- Jaws can be opened up to 60mm.
- Jaws provide very good contact with the work piece
- Most suitable for heavy duty applications



### 4. U type clamps (GI, Copper Alloy)

Geesys manufactures the U type bolt rod clamps, suitable for connecting round conductors to an earth rod. All U-bolt clamps are manufactured from high strength copper alloy.

#### Features:

- U-Bolt Rod Clamp
- Size: 14 -16 mm Rods, Cable 35 mm<sup>2</sup> - 120 mm<sup>2</sup>
- Material: UNS C84400 (high strength copper alloy)
- Fastener - 316 S/S
- Weight: 16g

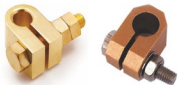


### 5. Split Connector Clamp

Geesys Split Connector Clamp Type suitable for connecting threaded and unthreaded rods to cable/rod via a lug clamp.

Split Connector Clamp – Metallic (Alloy / Copper)

Thread	Diameter	Weight Kg	Ordering Code
5/8"	UNC	0.15	XXXXXXXX
3/4"	UNC	0.15	XXXXXXXX



### 6. Plastic Press Type Clamps

Geesys identifies the need to be cost effective, easy to use and long life clamps to be offered to its valued clients. Hence developed one of its quality, precisely engineered and aesthetically attractive. Material used is A grade hard plastic, non-resistant, nonconductive.



\*Tailor Made Products are available

Due to constant product modifications, GEESYS Technologies has the right to amend the above information / Specification without prior notice.

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