



SHANDIAN

Earthing Solutions

Expert in **Earthing & Lightning** Solutions



KEEP DRY



AURIGA

EARTH ENGANCING COMPOUND
LOW RESISTANCE GROUNDING MATERIAL



SHANDIAN
Earthing Solutions



Net Weight
25Kg

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About Us

SHANDIAN EARTHING SOLUTIONS is an ISO 9001:2015 certified and MSME registered organization adhere to give quality products. Our products range is tested and approved by various national organization.

Shandian Earthing is CPRI tested and our Copper Bonded Rods are UL Approved. We offer 100% ROHS compliant earth enhancing compound that are specifically designed as per IEC 62305 & IEC 62561 & NFC17-102. Owing to the high quality of our finished products we have received CE Certification for them.

SHANDIAN EARTHING SOLUTIONS, we are experts in lightning protection. We have at your disposal all the existing technology and innovate every day, giving suitable solutions to each particular case. We manufacture our products according to maximum quality standards. Research, innovation and safety are the key factor underlining our leadership and presence the world over. SES not only provides these services for Railways, Telecom, Power Companies, Institutions, Hospitals, Sewage Treatment plants, Pump Stations, and other process industries but also for dwelling units, thereby increasing the safety by combining high-quality services with latest technology. SES provides Safety with Quality by understanding customer requirements & implementing their thoughts into action. We assure and ensure special attention to comprehend the complexities of the customer objectives process, priorities and their expectations. This helps us to provide solution in a befitting manner to reach the utmost customers satisfaction

Why Choose Us?

Standard of Excellence | Tested & Certified Products | Cost Effective | Customer Focus
Commitment to Accuracy | Easy to Customize | Unique Designs

Our Product Range

- ⚡ GI EARTHING ELECTRODE
- ⚡ COPPER BONDED EARTHING ELECTRODE
- ⚡ PURE COPPER EARTHING ELECTRODE
- ⚡ ELECTROLYTIC EARTHING ELECTRODE
- ⚡ COPPER BONDED EARTH ROD
- ⚡ 4G CLOSER BILDED EARTH ROD
- ⚡ PURE COPPER EARTH ROD
- ⚡ THEREADED EARTH ROD (COPPER/COPPER BONDED)
- ⚡ SOLAR EARTHING KIT
- ⚡ EARTHING BACKFILL COMPOUND
- ⚡ EARTH PIT CHAMBER
- ⚡ ESE LIGHTNING ARRESTER
- ⚡ LIGHTNING STRIKE COUNTER
- ⚡ LIGHTNING CONDUCTOR TESTER
- ⚡ CONVENTIONAL LIGHTNING ARRESTER
- ⚡ SURGE PROTECTION DEVICE (SPD)
- ⚡ ACDB & DCDB BOX
- ⚡ EXOTHERMIC WELDING KIT
- ⚡ EARTHING & LIGHTNING ACCESSORIES

GROUNDING / EARTHING SOLUTIONS

In today's competitive and technology-driven world, one of the most crucial investments any organization makes is in its infrastructure and sensitive electronic and electrical equipment. As a business grows, the risk to its infrastructure and assets from electrical faults and lightning hazards increases significantly. This makes the need for a highly efficient, low-resistance, and low-impedance earthing system absolutely essential.

Sandian Earthing Solution understands this critical requirement and offers a complete range of advanced earthing and lightning protection products and services. Our solutions are designed to protect your infrastructure, ensure operational safety, and minimize the risks posed by electrical surges and lightning strikes.

What is Grounding/Earthing?

Grounding or earthing refers to the connection of electrical systems or equipment directly to the earth. It is one of the most important safety measures to prevent electric shocks, equipment damage, and fire hazards. A properly designed grounding system not only ensures safety but also enhances the reliability and performance of your electrical setup.

Our Offerings at Sandian Earthing Solution:

We provide a wide array of high-quality products and expert services tailored to your specific needs, including:

- Advanced, Maintenance-Free Earthing Electrodes
- Premium Backfill Compounds
- Complete Lightning Protection Systems
- Ground Resistance Enhancement Materials
- Customized Earthing System Design & Engineering
- Site Survey, Soil Testing & Professional Installation Services

With **Sandian Earthing Solution**, you're not just installing a grounding system — you're investing in long-term safety, reliability, and compliance for your organization.

GI Earthing Electrode

We are a major GI Earthing Electrodes distributor and manufacturer in India. We design this product to fulfill the demands of our clients. The electrode is extensively used to safeguard people from dangers caused by a buildup in microwave antennas, telecommunication towers, residential places, and industrial locations. In places with high earth resistance, GI Earthing Electrode provides a low-impedance ground. When used in combination with Reflow Grounding Minerals, the approach absorbs lightning energy and other harmful electrical fault currents even in rocky or sandy soil conditions. We are a leading gi earthing electrode manufacturer & supplier throughout the country. We tailor this product to our client's specifications. Technically, this electrode is a great alternative for almost all earthing applications. This is a component of a chemical earthing system, & it is easy to install.

Manufacturer Name	Shandian Earthing Solutions
Product	GI 50MM
Model	RES – GI503
Length	3000mm
Quality of Electrode	As per IS 3043
Terminal	40mm X 6mm
Fault Current Capacity	As per IS 3043
Weight	12 Kg (approx.)
Terminal Hole	12mm
Quality of Electrode	Galvanized Iron



Copper Bonded Rod

99.9% pure Copper electrolytically bonded to low carbon steel cores.

Externally threaded/Unthreaded Copper Bonded Earth Rods are manufactured from a high tensile strength low carbon steel core with pure electrolytic copper molecularly bonded to its surface

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Shandian Earthing Solutions is a producer and marketer of Copper Bonded rods. Our Copper rod is a high-tech product based on worldwide technology that offers greater reduction resistance & prolonged shelf life than standard Rods.

We could use it for ground structures and foundations under a variety of conditions, including changes in soil temperature, wetness, and PH value. Copper Bonded Rods have a high thickness and give excellent corrosion resistance.

Manufacturer Name	Shandian Earthing Solutions
Product	Copper Bonded Rod 17.2mm
Model	RES – CBR173
Length	3000mm
Coating Type	Copper Bonded
Conductor Bus	50mm X 6mm
Weight	6 Kg (approx.)
Terminal Hole	10mm
Grade of Steel	E 250 as per IS2062



Polyplastic Earth Pit Chamber

We are working in decorum to manufacture the best range of earth pit covers. These are made by our team of trained and professional experts who are capable and qualified enough to manufacture these earth pit covers in the supremely high grade quality.

We are using the high density polyethylene to do the moulding process with the great patience and time to prevent any type of damage. These are made in such a way to increase the load bearing capacity and durability. These earth pit chambers are made with the advance technology in the variant shapes which can be conical, square, etc in the green and majorly black colors. These are made in the different dimensions.

Features:

- These are very easy to install
- We are making them resistive to rust and corrosion
- These are made in an ecofriendly manner

Manufacturer Name	Shandian Earthing Solutions
Product	Polyplastic Pit Cover
Top Dia	155mm (approx.)
Bottom Dia	210mm (approx.)
Height	240mm (approx.)
Manufacturing Standard	As per IS 3043
Loading Capacity	2.5 Tone
Weight	1 KG (approx.)



Ci Earth Pit Chamber

covers are commonly used in infrastructure and construction projects to provide robust and secure coverage for pits, chambers, and utility access points. These covers are made from cast iron, known for its strength and durability. Here are the specifications, features, and uses of

CI pit covers:

Specifications:

- Material: Cast Iron
- Size: 10" X10", 12" X12", 18" X18", 24" X24"
- Load Capacity: Designed to withstand specific loads, typically ranging from light-duty to heavy-duty
- Surface Finish: Can be smooth or have a patterned texture for enhanced traction
- Coating: Often coated with a protective layer, such as bitumen or epoxy, for improved corrosion resistance
- Weight: Heavier compared to materials like FRP, providing added stability and resistance to movement

Uses:

- Municipal Infrastructure: CI pit covers are commonly used in municipal infrastructure projects, including sewer systems, stormwater drainage, water treatment plants, and utility access points.
- Roadways and Highways: These covers are installed on roadways and highways to cover inspection pits, manholes, and service channels for underground utilities such as electricity, water, or telecommunications.
- Construction Sites: CI pit covers are used in construction sites to provide access to underground utility connections or to cover excavated pits temporarily.
- Industrial Applications: They are suitable for industrial facilities, including factories, power plants, refineries, and manufacturing sites, to cover pits and chambers related to process equipment, storage tanks, or underground infrastructure.
- Public Spaces: CI pit covers can be found in public spaces like parks, sidewalks, plazas, or pedestrian areas, where they cover utility access points while providing a secure walking surface.
- Commercial Buildings: They are used in commercial buildings, shopping centers, hospitals, and airports to cover utility access points, service tunnels, or inspection chambers.

Manufacturer Name	Shandian Earthing Solutions
Product	CI Pit Cover
Shape	Full Floor (SQUARE)
Usage / Application	Earthing Chamber
Surface Treatment	Casted
Weight	9 KG Approx
Length or Diameter	300X300X8mm
Country of Origin	Make in India



Earth Enhancing Compound

Used as Earth Electrode Backfill Compound for reducing soil resistivity. Backfill Earth Enhancing Compound with Pre-Mixed Concrete enables electrical earthing system designers and installers to achieve permanent, stable and low resistance earthing solutions, even in difficult ground conditions when used as a backfill to enhance the effect of copper earth electrodes or earth rods. It is a granulated electrically conductive aggregate which replaces sand in mixes with cement, thereby providing electrically conductive concrete.

- The Earth Enhancing Compound material for the Earthing system is highly conductive and non-Corrosive and Hygroscopic Compound that shall be easily consolidated when water is added to it and maintain the soil/electrode contact consistently. The electrode is properly sealed from both the ends.

Manufacturer Name	Shandian Earthing Solutions
Country Of Origin	India
Name Of Compound	Auriga
Product	Chemical Compound
Is Standard	IS3043/ IEEE 837
Chemical Composition	Standrd
Resistivity Value	0.2 Ohm Per Meter
Melting Temperature	1084 Degree Centigrate
Specific Gravity	2.8
Ph Vaue	8.89
Solubility In Water	3.57
Colour	Light Cream/ Ash
Main Cation	Sodium
Moisture Capacity At 105 Degree	10 %
Weight Of Chemical Used/ Earthig Pit	25 Kg
Environmental Effects	Eco Friendly
Shelf Life	15 Years (approx)



FRP Square Pit Cover

- FRP Earthing Pit Cover- Shandian Earthing solution is a manufacturer. FRP Earthing Pit Cover Manufacturer & Supplier in India.. Pit cover manufactured by us have excellent durability , and optimal strength to withstand substantial load of any kind.
- FRP Earthing Pit Cover are provided over earthing top to do health check as well as checking and recording Earthing Resistance value.In order to avoid masonry work at site ready made earth pit covers were introduced.Being one of the pioneers in manufacturing HDPE earth pit covers we are committed to provide best quality products yet at reasonable price.
- Earthing Covers are made of high density poly Polypropylene. Its comprises conical shape and having less diameter at top compare to bottom. This unique shape has an added advantage that it is tightly caught by surrounding soil and does not come out easily when pulled.

Manufacturer Name	Shandian Earthing Solutions
Product	FRP Square Pit Cover
Top Dia	500mm (approx.)
Bottom Dia	500mm (approx.)
Height	320mm (approx.)
Manufacturing Standard	As per IS 3043
Loading Capacity	5 Tone
Weight	3.5 KG (approx.)



Conventional Lightning Conductor

Conventional lightning arrestor is typically consist of Franklin rods strategically placed at elevated points on a structure. The effectiveness of these rods depends on factors such as their position, morphology, materials used, and their reaction to the electrostatic field during a lightning event.

The placement of conventional lightning arresters involves positioning the rods at dominant heights, making them favorable points for lightning strikes. The positive charge rises to the tip of the lightning rod. When a lightning strike occurs, the device allows the lightning leader from the cloud to reach the ground safely through the grounding system. As a result, the current discharge is evenly distributed throughout the ground, protecting the structure.

Manufacturer Name	Shandian Earthing Solutions
Product	Copper Bonded Lighting Conductor
Protection Radius	7 Meter Radius
Model	SES – CB LA
Length	1000 MM
Diameter	14 MM
Quality of Copper Bonded	As per IS 3043
SPIKES	4 SPIKES
Weight	1 Kg (approx.)
Quality of Copper bonded LA	Copper Bonded LA



ESE Lightning Conductor

Because the capture of a lightning strike is quicker than with a lightning rod, this technology can be used to protect zones spread over a wider area, thus ensuring the protection of large structures.

- (LUNAA) ESE Lightning Rods, fulfils standards UNE 21186 and NFC 17-102.
- Radius of protection certified and specific level gain in triggering time value.
- Effective performance in all types of weather.
- Fully effective even after being subjected to several lightning strike

Early Interception:

An ESE lightning arrester detect the lightning strike early and intercept it into the ground before it could strike the structure. Since, the lightning strike is intercepted at a distance the risk of damage reduces significantly.

Manufacturer Name	Shandian Earthing Solutions
Product	ESE Lightning Arrestor
Protection Radius	7 Meter Radius
Model	LUNA ESE LA
Protection Radius	107 Mtr Radius
Protection Class	Class IV
Material	Stainless steel 304 L
Standard	NFC17-102
Features	Advance discharge
Warranty	10 years



GI Mast For ESE Lightning Protection System

We are manufacturer of GI Pole (Galvanized Iron Pole) is a durable and corrosion-resistant pole used for mounting ESE Lightning Conductor. These poles are made from mild steel (MS) or iron and are hot-dip galvanized to prevent rusting, making them ideal for outdoor use.

Key Features of GI Poles:

Height: 5 mtr (customizable as per requirement)

Material: Mild steel (MS) with hot-dip galvanization



Shandian ESE Strike Counter

Strike Counter

Strike Counters are very useful tools in lightning protection installations because they provide first-hand information on whether the installation has been struck by lightning and thus whether there is a need for any subsequent verification or extra maintenance beyond the standard provisions ((UNE-EN IEC 62305, UNE 21186, NF C 17102, NP4426, etc.).

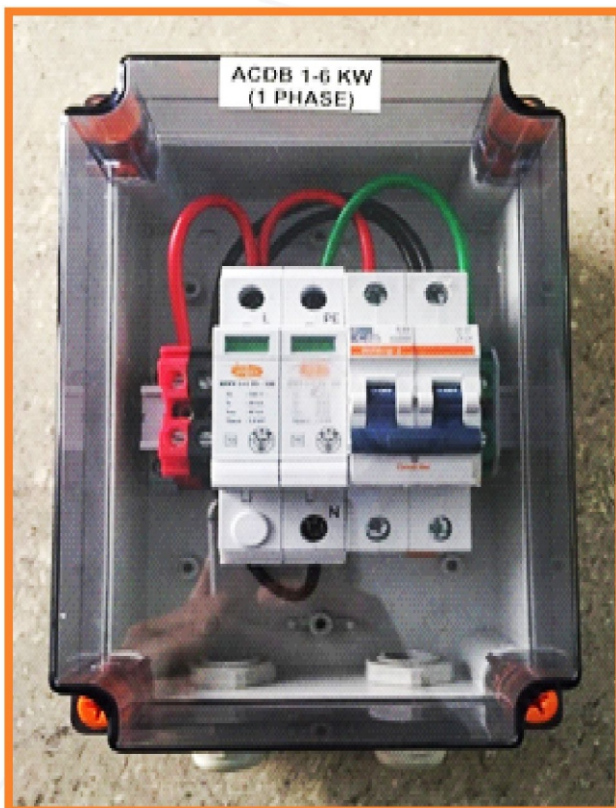
Specifications

- Current detection ranged from 2 to 200 kA
- Mechanical Counter with 6 Digits That Cannot Be Reset
- Mounting is simple
- There is no need for an external power supply



ACDB & DCDB Box

We are manufacturer and supplier of ACDB/ DCDB and both are an important and necessary part of a Solar Power generating system. Junction Boxes provide extra electrical protection to the solar system during failures. Solar DCDB provides the interconnection between the input string from the solar panels, and the output string to the solar inverter. The DCDB is customized for different configurations of the solar inverter, based on the number of strings of solar panels used in the Solar Power Plant layout. It also has a surge protection device (SPD) to save your system from any surges that occur due to fault or another phenomenon. It can be easily mounted on a wall. Solar ACDB operating temperature is between -25 to 60 degree Celsius. Its maximum DC Input is 1000V. Its number of DC Inputs ranges between 2-10 while the number of DC Outputs is 1. The number of terminal blocks is 2 to 20. Its Operating Condition is between -25 degrees to 60 degrees Celsius. The Junction Boxes also have a design life of 25 years.





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