LAXMI POWER SOLUTIONS

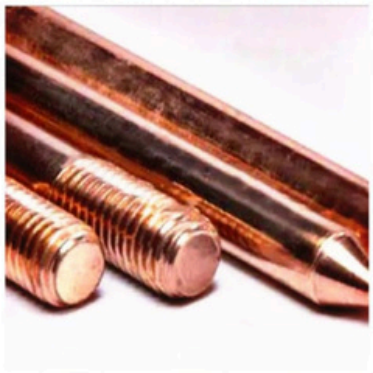
(AN ISO 9001:2015 Certified Co.)

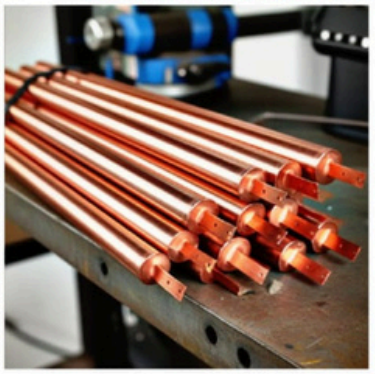
LPS

Saving the

UNIVERSE

from electric shocks





LAXMI POWER SOLUTIONS

ABOUT LPS

Welcome to Laxmi Power Solutions (LPS) – Your Trusted Partner in Lightning Protection & Earthing Solutions.

Dear Valued Customer,

It is our pleasure to introduce Laxmi Power Solutions (LPS), a name synonymous with excellence, safety, and innovation in the field of Lightning Protection & Earthing Solutions. Since our establishment in 2012, we have been driven by a singular vision—to create safer, more efficient, and highly reliable power management systems for industries across the nation.

Founded by **Mr. Netrepal Solanki**, whose deep-rooted expertise in electrical engineering has shaped our journey, LPS initially specialized in DG Sets – Sales, Repair, and Maintenance, along with a diverse range of electrical products. However, as we worked closely with industries, we identified a critical gap in electrical safety—the prevalence of accidents due to faulty earthing systems. This realization propelled us to invest in extensive research and practical innovations, allowing us to master conventional earthing systems and subsequently develop our Chemical Earthing System—a revolutionary solution engineered to provide long-lasting efficiency, durability, and protection against electrical hazards.

LAXMI POWER SOLUTIONS

VISION

At Laxmi Power Solutions, our vision is to become the most trusted global brand in earthing, lightning protection, and electrical safety solutions. We aim to empower industries, businesses, and homes with world-class products that ensure unmatched safety, durability, and performance. Through innovation, quality, and service excellence, we strive to set new benchmarks in electrical protection for a safer tomorrow.

MISSION

01 **Building Trust, Ensuring Safety**
We provide world-class earthing and lightning protection products for industries & homes. Our Solutions meet strict quality and standards to ensure long-term reliability. Every installation strengthens our bond of trust with customers.

02 **Innovating for Tomorrow**
We develop advanced technologies to meet the changing needs of modern power systems. Our R&D focuses on safety, efficiency, and sustainability. Through innovation, we shape a safer electrical future.
.

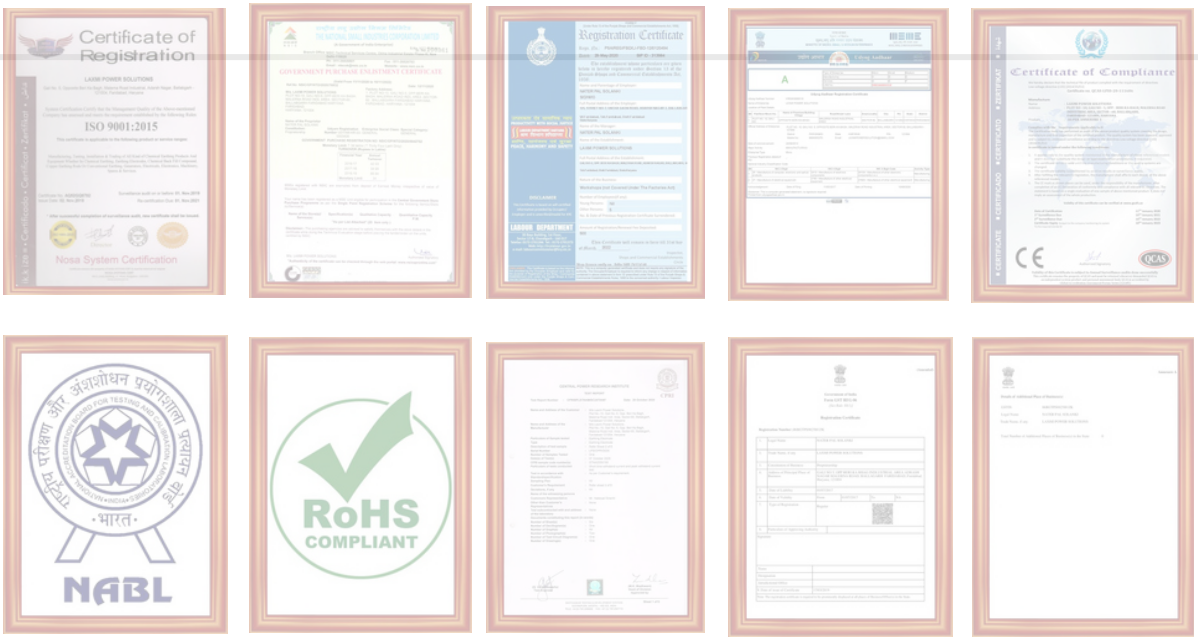
03 **Committed to Excellence**
From manufacturing to after-sales, we deliver unmatched service and support. Our processes are driven by precision and dedication to quality.
We aim to exceed expectations in every project we undertake.

LAXMI POWER SOLUTIONS

CERTIFICATIONS

We are an **ISO 9001:2015** certified organisation, also accredited with **ISO 14001:2015** , reflecting our commitment to quality, safety, and environmental responsibility. Registered with MSME & SSI, our excellence is backed by prestigious recognitions such as RoHS Compliance, NABL Accreditation, Certificate of Compliance, and Certificate of Registration.

Our products are tested and approved by leading National & International bodies, ensuring they meet the highest performance and safety standards. The trust of our clients is further strengthened by globally recognised certifications like **CPRI** and other industry benchmarks.



LAXMI POWER SOLUTIONS

OUR PRODUCT OFFERINGS

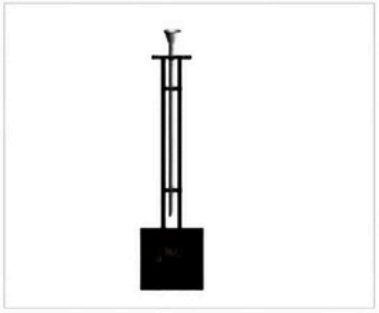
GI EARTHING ELECTRODE

COPPER EARTHING ELECTRODE

COPPER BONDED EARTHING ELECTRODE

BACKFILL CHEMICAL COMPOUND

COPPER BONDED EARTHING ROD



GI PLATE EARTHING

COPPER PLATE EARTHING

CAST IRON PIPE EARTHING

GI PIPE EARTHING

GI STRIP

PURE COPPER STRIP

ESE LIGHTNING ARRESTER

COPPER LIGHTNING ARRESTER

POLY PLASTIC EARTHING PIT COVER

RCC EARTHING PIT COVER

CAST IRON EARTHING PIT COVER

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WHAT IS EARTHING ?

Earthing (also called grounding) is a vital safety system in every electrical installation. It provides a direct path for fault current to flow safely into the earth, protecting human lives, electrical equipment, and property from the dangers of electric shock, fire, and lightning strikes.
Without proper earthing, **electrical faults** can cause severe damage and life-threatening risks.

WHAT IS LPS MAINTENANCE FREE CHEMICAL EARTHING SYSTEM ?

At **Laxmi Power Solution (LPS)**, we have developed a world-class earthing system that is:

- Maintenance-Free
- Engineered for Maximum Conductivity, Minimum Resistance
- Durable & Long-Lasting

Our system is trusted for homes, industries, corporates, and utilities where safety and reliability are non-negotiable.

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CORE COMPONENTS OF LPS CHEMICAL EARTHING SYSTEM

LPS Earthing Electrode

- Made with premium Copper Bonded / Pure Copper / GI material.
- Special anti-corrosive coating ensures long life & stable performance.
- Provides consistent low resistance even in challenging soil conditions.
- Branded with LPS mark of trust for assured authenticity.

LPS Backfill Compound (BFC)

- A unique eco-friendly compound that enhances conductivity.
- Maintains natural moisture, ensuring permanent low resistance.
- Non-corrosive, safe for soil & groundwater.
- Specially engineered to bond with electrodes, ensuring zero-maintenance earthing.

- Together, LPS Electrode + LPS Backfill Compound form a complete, reliable, and eco-safe earthing system designed to protect lives, property, and equipment for years without the need for repeated maintenance.

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HOW LPS MAINTENANCE-FREE CHEMICAL EARTHING SYSTEM WORKS AND INSTALLATION GUIDES?

The LPS Maintenance-Free Earthing System works by providing a highly conductive and permanently low-resistive path for fault current and lightning to discharge safely into the ground. During any electrical fault, leakage, or surge, the excess current is instantly diverted away from equipment and human contact, eliminating the risk of shock, fire, or damage. The unique combination of LPS Earthing Electrode and LPS Backfill Compound ensures stable resistance in all seasons by retaining natural moisture and enhancing soil conductivity. This results in a zero-maintenance, corrosion-free, and long-lasting earthing system that continuously protects lives, property, and electrical infrastructure.

Powering Safety, Protecting Lives

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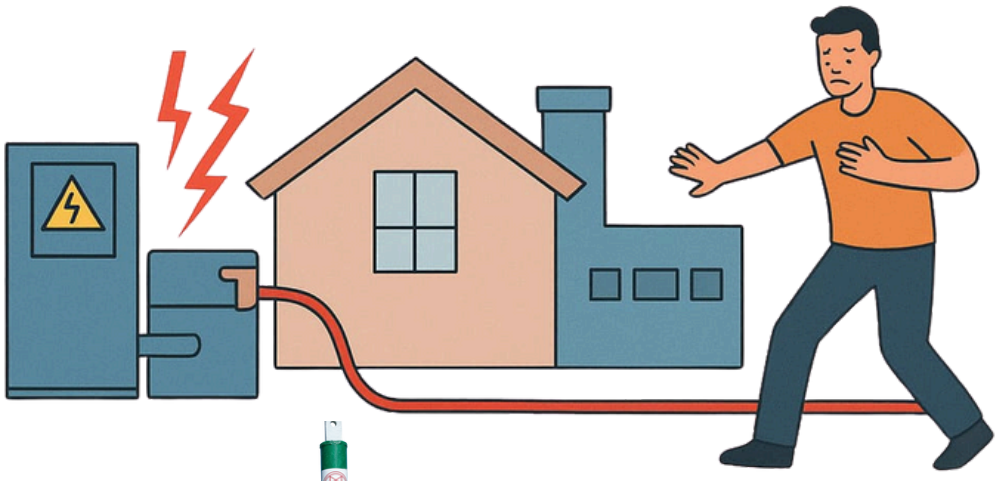

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TECHNOLOGY

GI EARTHING ELECTRODE (Strip in Pipe)				
Model	**Length (meter)**	**Outer Diameter (Min) mm**	**Terminal Size (mm)**	**Inner Strip size (mm)**
LPSGI50	*1,2&3*	*48*	*32x6*	*32x6*
LPSGI60	*1,2&3*	*58*	*40x6*	*40x6*
LPSGI76	*1,2&3*	*75*	50x6	*50x6*
LPSGI80	*1,2&3*	*88*	50x6	*50x6*

Features

- Cost Effective.
- Shiny Surface.
- Long Life Span.
- Highly Conductivity.
- Fast & High Fault Current Dissipation.
- Higher Compressive & Tensile Strength.
- Low Corrosion Rate as protected by Hot Dip Galvanization.

LAXMI POWER SOLUTIONS

CU EARTHING ELECTRODE (Strip in Pipe)				
Model	**Length (meter)**	**Outer Diameter (Min) mm**	**Terminal Size (mm)**	**Inner Strip size (mm)**
LPSCU50	*1,2&3*	*50*	*32x6*	*32x6*
LPSCU60	*1,2&3*	*60*	*40x6*	*40x6*
LPSCU76	*1,2&3*	*70*	50x6	*50x6*
LPSCU80	*1,2&3*	*80*	50x6	*50x6*

Features

- Highly Conductive.
- Higher Grounding rate.
- Lower Resistance Value.
- Having very long life as Corrosion free.
- Can withstand at higher ampere Current Values.
- Lowering Fluctuation & Damages in the drives of any Automation.
- Immediate discharges current to ground within seconds & safe human body.

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COPPER BONDED EARTHING ELECTRODE				
Model	**Length (meter)**	**Outer Diameter (Min) mm**	**Terminal Size (mm)**	**Inner Strip size (mm)**
LPSCB50	*1,2&3*	*48*	*32x6*	*32x6*
LPSCB60	*1,2&3*	*58*	*40x6*	*40x6*
LPSCB76	*1,2&3*	*75*	50x6	*50x6*
LPSCB80	*1,2&3*	*88*	50x6	*50x6*

Features

- Enhanced Conductivity
- Lower Resistance
- Versatility
- Copper bonding ensures excellent corrosion resistance.
- Manufactured using advanced electroplating technology.
- Cost-effective solution with high performance.

LAXMI POWER SOLUTIONS

GI PIPE IN PIPE EARTHING ELECTRODE				
Model	**Length (meter)**	**Outer Diameter (Min) mm**	**Terminal Size (mm)**	**Inner pipe size (mm)**
LPSGI50	*1,2&3*	*48*	*32x6*	*20*
LPSGI60	*1,2&3*	*58*	*40x6*	*25*
LPSGI76	*1,2&3*	*75*	50x6	*40*
LPSGI80	*1,2&3*	*88*	50x6	*50*

Features

- Cheap in Cost.
- Large Surface Area so provide Good resistance.
- Improved Mechanical Strength as Dual Pipe in Pipe.
- Easy Installation and maintenance.
- Reliable Performance.

LAXMI POWER SOLUTIONS

LPS BACKFILLING EARTHING COMPOUND	
Quantity	**No. of Bags**
25kg	*1*
15kg	*1*

BACKFILLING COMPOUND TYPE	
Bentonite Based	**Graphite & Carbon Based**

Features

- Soil & Eco – friendly.
- Resistance less than 0.2 ohm-water.
- Highly Conductive and moisture booster.
- Tested from NABL accredited Lab.
- Corrosion Resistant.

LAXMI POWER SOLUTIONS

GI PIPE EARTHING				
Model	Length (meter)	Outer Diameter (Min) mm	C-ClampSize (mm)	Watering hole dia (mm)
LPSGIP50	1,2&3	48	300x32x6	12
LPSGIP60	1,2&3	58	300x40x6	12
LPSGIP76	1,2&3	75	350x50x6	12
LPSGIP80	1,2&3	88	400x50x6	12
LPSGIP80	1,2&3	110	400x50x6	12

LPS Cast Iron (CI) PIPE EARTHING				
Model	Length (meter)	NB Nominal Bore in (mm)	Outer Diameter(Min) min	Thickness of pipe in (mm)
LPSCI100T4	1,2&3	100	108	4
LPSCI100T7	1,2&3	100	114	7
LPSCI100T10	1,2&3	100	120	10
LPSCI100T13	1,2&3	100	126	13

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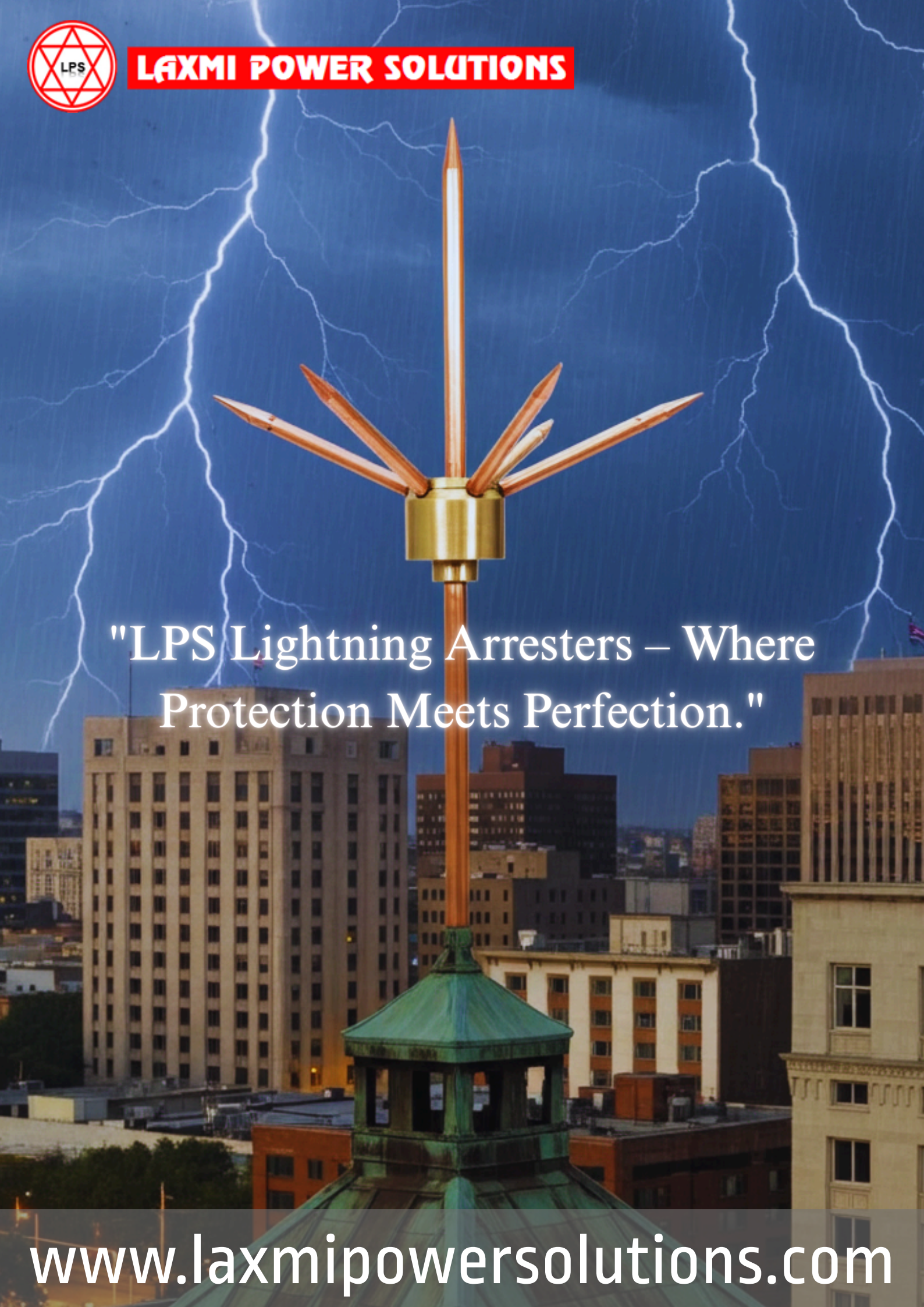
LPS Solid Copper & Copper Bonded Earth Rods			
Model	**Dia of Rod in (mm)**	**Length in (mm)**	**Copper Bonding**
LPS-CBR-14.2/1	*14.2*	*1,000*	*250 microns*
LPS-CBR-14.2/2	*14.2*	*2,000*	*250 microns*
LPS-CBR-14.2/3	***14.2***	***3,000***	*250 microns*
LPS-CBR-17.2/1	***17.2***	***1,000***	*250 microns*
LPS-CBR-17.2/2	*17.2*	*2,000*	*250 microns*
LPS-CBR-17.2/3	*17.2*	*3,000*	*250 microns*
LPS-CBR-25/1	***25***	***1,000***	*250 microns*
LPS-CBR-25/2	***25***	***2,000***	*250 microns*
LPS-CBR-25/3	*25*	*3,000*	*250 microns*

LPS Solid GI Earth Rods			
Model	**Dia of Rod in (mm)**	**Length in (mm)**	**Copper Bonding**
LPS-GI-14.2/1	*14.2*	*1,000*	*250 microns*
LPS-GI-14.2/2	*14.2*	*2,000*	*250 microns*
LPS-GI-14.2/3	***14.2***	***3,000***	*250 microns*
LPS-GI-17.2/1	***17.2***	***1,000***	*250 microns*
LPS-GI-17.2/2	*17.2*	*2,000*	*250 microns*
LPS-GI-17.2/3	*17.2*	*3,000*	*250 microns*
LPS-GI-25/1	***25***	***1,000***	*250 microns*
LPS-GI-25/2	***25***	***2,000***	*250 microns*
LPS-GI-25/3	*25*	*3,000*	*250 microns*

LAXMI POWER SOLUTIONS

LPS POLYPLASTIC EARTH PIT COVER					
Model	At top in (mm)	At bottom in(mm)	Height in (mm)	Length in (mm)	Width in (mm)
LPS-EPC-01	162	210	205	_	_
LPS-EPC-02	162	242	230	_	_
LPS-EPC-03	252	300	255	_	_
LPS-EPC-04	_	_	260	300	300

LPS RCC PRECAST EARTH PIT COVER					
Model	Top/Bottom inner to inner size in (mm)	Total Height in(mm)	Wall Thicknessi n (mm)	Cover Size in (mm)	Cover Thickness in (mm)
LPS-RCC-340X340 mm	220/210	255	65	250x250	50
LPS-RCC-340X340 mm	340/320	380	65	380x380	55
LPS-RCC-340X340 mm	400/370	450	115	500x500	76


LAXMI POWER SOLUTIONS
"LPS Lightning Arresters – Where Protection Meets Perfection."
www.laxmipowersolutions.com

LAXMI POWER SOLUTIONS

“WHY LIGHTNING PROTECTION MATTERS – POWERED BY LPS”

Lightning is one of nature’s most dangerous electrical phenomena, capable of causing fires, equipment failure, and even life-threatening hazards. Every year, industries, commercial setups, and households face heavy losses due to lightning strikes.

Laxmi Power Solution (LPS) provides advanced Lightning Arrester Systems designed to safeguard lives, property, and critical assets by ensuring a safe path for lightning energy to discharge harmlessly into the ground. With LPS, you get reliability, innovation, and proven protection trusted across multiple sectors.

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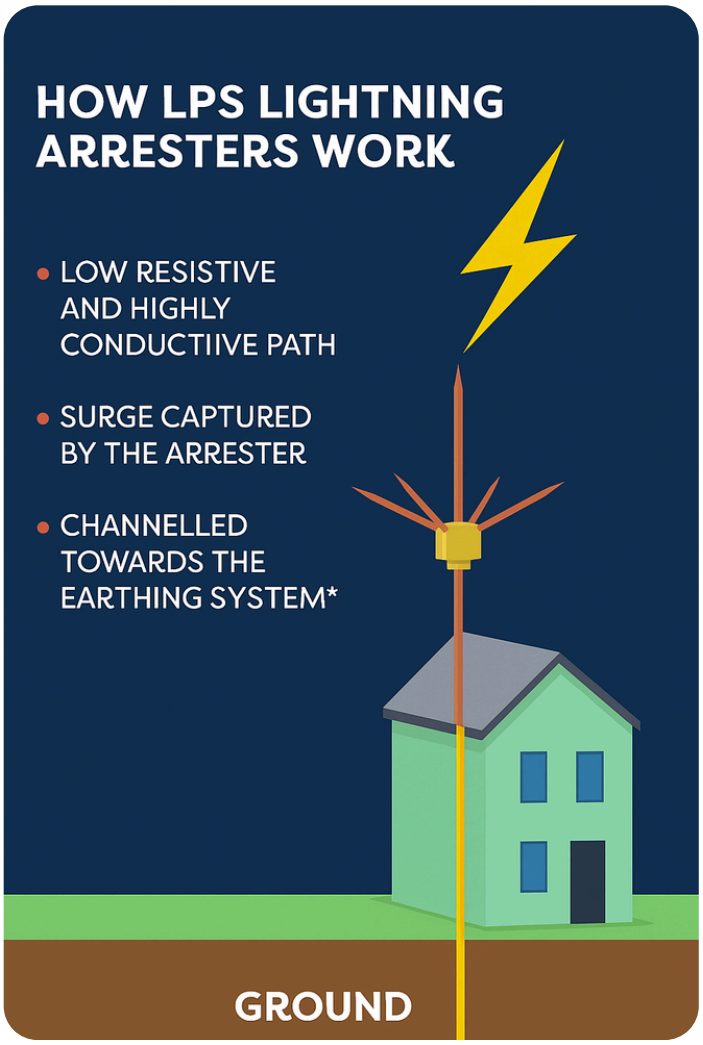
“HOW LPS LIGHTNING ARRESTERS WORK”

The working of **LPS Lightning Arresters** is based on providing the lowest resistive and highly conductive path for lightning discharge.

- When a lightning strike approaches, the arrester captures the surge energy.
- The arrester channels this high current safely towards the LPS Earthing System.
- The energy is neutralized into the ground, keeping buildings, equipment, and people safe.
- LPS arresters are engineered with advanced materials to ensure consistent performance, even under repeated strikes.

This system not only prevents structural damage but also protects against electrical surges that can damage sensitive devices.



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TECHNOLOGY

LPS CONVENTIONAL LIGHTNING ARRESTERS

The time-tested standard technology, designed to provide direct strike protection with durable and cost-effective solutions.

LPS COPPER LIGHTNING ARRESTER		
Model	**Diameter**	**Length**
Solid Rod 14mm	*14.2mm*	*1, 2 & 3 meter*
Solid Rod 25mm	*25mm*	*1, 2 & 3 meter*
Hollow Pipe 25mm	*25MM*	*1, 2 & 3 meter*

LAXMI POWER SOLUTIONS

ESE LIGHTNING PROTECTION SYSTEM

LIGHTNING ARRESTOR REQUIREMENT AS PER NFC 17-102 (2011).

- ·Non Electronic ESE
- ·Designed & tested as per NFC 17-102 (2011) Standard
- ·ΔT = 60 µSec (triggering Time Advance Delta T)
- ·100 KA (10/350) µSec lightning current & 200 KA Peak current tested in HIZAL (TURKEY, EUROPE) LAB.
- ·No use of battery or external power source.
- ·304L STAINLESS Steel design.
- ·Suitable for any environmental conditions
- ·Suitable for use with a variety of down conductors- tape, strip, round conductor, isolated/ insulated cables etc.
- Lightning Strike Counter 100 KA, IP 65

Protection radius as per NFC 17-102.				
Mast Height in (M)	**Level 1(Very High)**	**Level 2 (High)**	**Level 3 (Medium)**	**Level 4 (Standard)**
2	*31*	*35*	*39*	*43*
3	*47*	*52*	*58*	*63*
4	*63*	*69*	*78*	*85*
5	*79*	*86*	*97*	*107*
6	*79*	*87*	*97*	*107*
8	*79*	*88*	*98*	*108*
10	*79*	*88*	*99*	*109*
15	*80*	*89*	*101*	*111*
20	*80*	*89*	*102*	*113*
45	*80*	*89*	*105*	*119*
50	*80*	*89*	*105*	*120*
80	*80*	*89*	*105*	*120*
100	*80*	*89*	*105*	*120*

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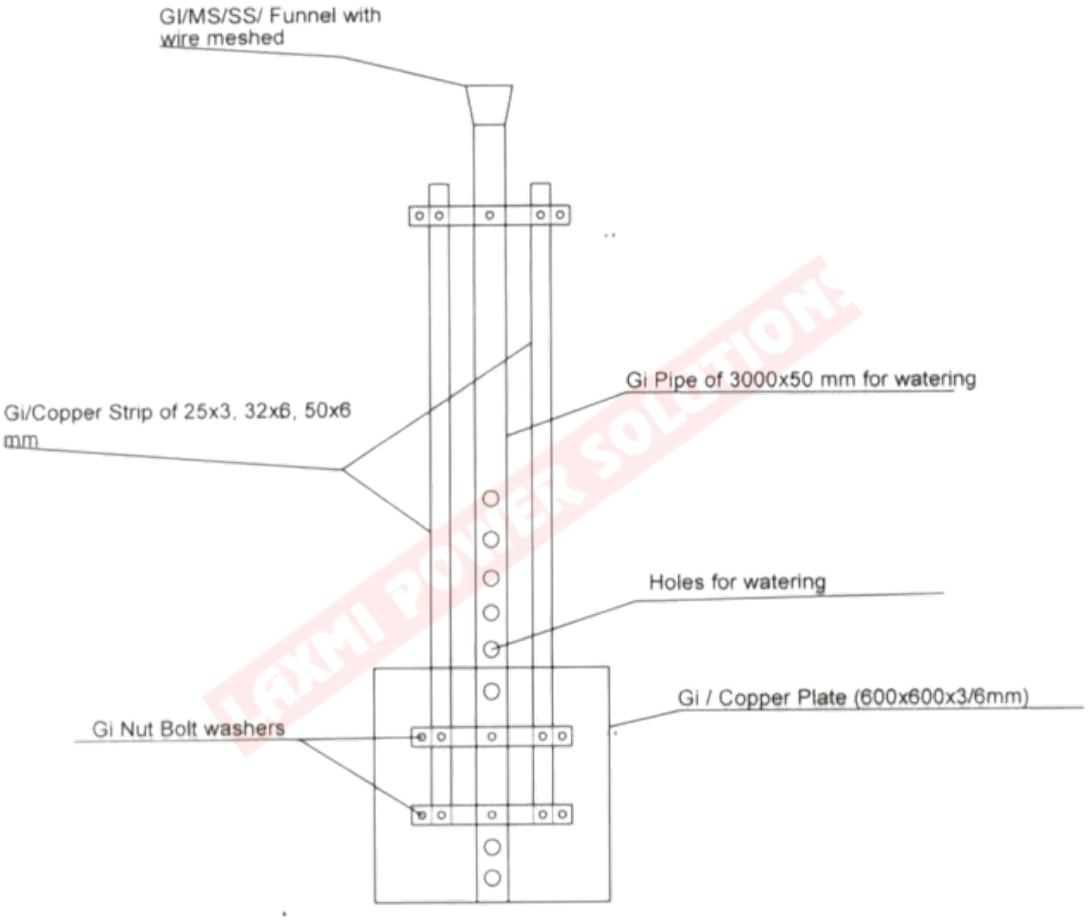
LPS PLATE EARTHING TECHNOLOGY

- Safety is the most important aspect of any electrical system. Whenever there is a fault or lightning surge, the electricity needs a safe path to flow into the ground. Plate Earthing is a simple, reliable, and widely used solution to achieve this.
- **LPS Plate Earthing** is a practical and effective method to protect electrical systems. It has been used for decades and continues to be trusted because it's easy to install, works in almost all conditions, and provides the protection needed without unnecessary complexity.

How does **Plate Earthing** work?
A metal plate, usually made of copper or GI, is placed in the ground. When there is an electrical fault, the current is safely directed through this plate into the earth. This protects both equipment and people from harm.



Conventional (Plate Earthing) Electrode

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LPS COPPER PLATE EARTHING

Laxmi Power Solutions (LPS) brings you Copper Plate Earthing, a premium and high-performance solution designed for installations where long-term reliability and excellent conductivity are essential. Copper's natural properties make it one of the most trusted materials for earthing applications, especially where safety and uninterrupted protection are critical.

LPS COPPER PLATE EARTHING			
Length	**Breadth**	**Thickness**	**Metal Purity**
600mm	600mm	*3mm*	98%
600mm	600mm	*6mm*	*98%*
300mm	300mm	*3mm*	*98%*
300mm	300mm	*6mm*	*98%*

FEATURES

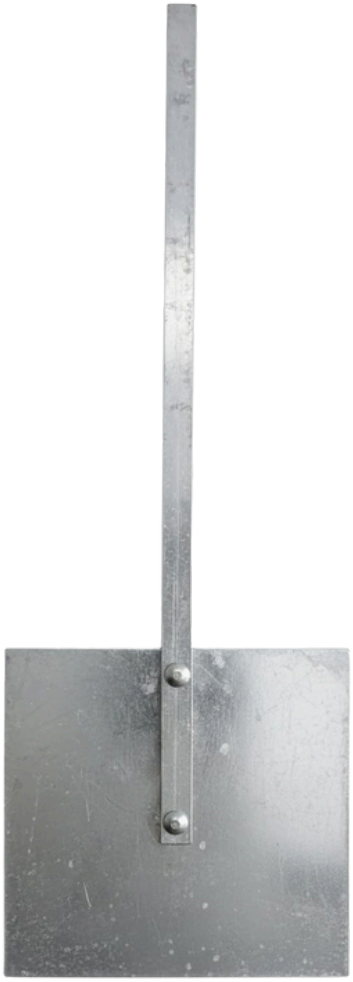
- **Excellent Conductivity** – Copper's low resistance ensures fast and efficient dissipation of fault currents into the ground.
- **Corrosion Resistant** – Performs reliably in all types of soil, even in aggressive and high-moisture environments.
- **Long Service Life** – Once installed, it requires minimal maintenance, providing years of consistent protection.
- **Compact & Efficient** – Requires less space without compromising on safety or performance.
- **Ideal for High-Risk Installations** – Perfect for substations, transformers, control rooms, and critical electrical infrastructure.

LAXMI POWER SOLUTIONS

LPS GI PLATE EARTHING

Laxmi Power Solutions (LPS) brings you **GI Plate Earthing**, a trusted and long-lasting earthing solution designed to ensure safety and protection for electrical systems. Our high-quality Galvanized Iron **(GI) Plate Earthing** offers superior conductivity, durability, and corrosion resistance, making it ideal for a wide range of applications in industries, residential areas, and commercial setups.

LPS GI PLATE EARTHING			
Length	**Breadth**	**Thickness**	**Coating thickness**
600mm	600mm	*3mm*	70-100 (microns)
600mm	600mm	*6mm*	*70-100 (microns)*
300mm	300mm	*3mm*	*70-100 (microns)*
300mm	300mm	*6mm*	*70-100 (microns)*



FEATURES

- Excellent conductivity for safe earthing
- Corrosion-resistant galvanized coating
- High durability in all soil conditions
- Maintenance-free, long-lasting protection
- Cost-effective and efficient solution
- Eco-friendly materials meeting industry standard

LAXMI POWER SOLUTIONS

LPS EARTHING STRIPS

GI & Copper Earthing Strips

Laxmi Power Solutions manufactures and supplies high-quality GI (Galvanized Iron) and Copper Earthing Strips designed for efficient and reliable grounding in industrial, commercial, and residential projects.
Available Sizes (mm):
25×3, 25×6, 32×5, 32×6, 40×5, 40×6, 50×5, 50×6, 65×6, 65×10, 75×6, 75×10
(Available in both GI & Copper)

GI Earthing Strips

- Hot-dip galvanized for uniform zinc coating.
- Excellent corrosion resistance and mechanical strength.
- Provides stable and safe low-resistance path to earth.
- Cost-effective and widely used for general earthing applications.

Copper Earthing Strips

- Manufactured with 99% minimum copper purity.
- Superior electrical conductivity and thermal performance.
- Long service life even in high-moisture and corrosive soil conditions.
- Preferred for critical installations like substations, panels & lightning protection.

⚡ Laxmi Power Solutions – Ensuring Reliable and Safe Grounding with GI & Copper Earthing Strips.

LAXMI POWER SOLUTIONS

ON-SITE EXCELLENCE-PROFESSIONAL INSTALLATIONS YOU CAN TRUST

LPS Projects – Real Installations at Work Sites

See How LPS Experts Deliver Safety On-Site

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LPS FAQS – TRUSTED ANSWERS FROM THE EXPERTS

✅ 1. What is earthing and why is it important?

Earthing provides a low-resistance path for electrical currents to safely dissipate into the ground. It protects people, equipment, and structures from electric shocks, short circuits, and lightning strikes by diverting fault currents away from sensitive systems.

✅ 2. What types of earthing solutions does LPS offer?

LPS offers a wide range of earthing solutions including GI earthing strips, copper earthing electrodes, chemical earthing systems, backfill compounds, and RCC/plastic covers – suitable for industrial, commercial, and residential applications.

✅ 3. How does lightning protection work?

Lightning protection systems by LPS safely intercept lightning strikes using air terminals (rods) and conductors, directing the high-energy surge to the ground through proper earthing arrangements. This prevents structural damage, fire hazards, and equipment failure.

✅ 4. What factors affect the effectiveness of an earthing system?

The performance of earthing depends on soil resistivity, electrode material, electrode size, moisture content, and proper installation. LPS products are designed to ensure maximum conductivity and low-resistance pathways even in challenging soil conditions.

✅ 6. Where are LPS earthing and lightning protection solutions commonly used?

Our solutions are used in electric vehicle charging stations, transformer yards, substations, high-rise buildings, telecom towers, solar farms, data centers, and industrial plants where safety and uninterrupted operation are critical.

✅ 7. How is soil resistivity tested before installation?

Soil resistivity is measured using specialized instruments like the Wenner or Schlumberger method. This helps determine the best electrode depth, material, and spacing to ensure optimal earthing performance, which LPS's engineering team helps configure for every site.

✅ 10. Are LPS solutions compliant with industry standards?

Absolutely. All LPS earthing and lightning protection products meet relevant IS, IEC, and national safety standards to ensure reliable performance, safety, and long-term durability across different environments.

LAXMI POWER SOLUTIONS

INDUSTRIES WE SERVE

YARA

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BCH ELECTRIC LIMITED

एनटीपीसी NTPC

TATA

YAMAHA

OMAXE
Turning dreams into reality

orient electric

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