

Brand Overview

Earthing & Lightning Protection

Protecting your assets - always



Decades of Manufacturing...
One Standard of Quality...



Group of Companies

TERRA

E&LP Solutions

BRAND HISTORY & VALUES

Decades of Precision Manufacturing

TERRA E&LP Solutions is the earthing and lightning protection brand of Luxemetal Overseas Private Limited, a manufacturing house whose roots trace back to 1982. What began as a builders' hardware export business under founder Mr. R.K. Jindal grew, in 1997, into a specialized focus on Earthing & Lightning Protection, Grounding & Bonding, Door hardware and Traffic Hardware - carried forward by the second generation, Mr. Maneesh K. Jindal.

That specialization is what the TERRA brand represents today - decades of manufacturing discipline, applied specifically to the products that keep people, structures, metallic services and electrical systems safe from lightning and other fault currents. Following the 2025 consolidation of the group's manufacturing entities into a single organization, TERRA now carries this expertise forward as a distinct and focused brand within the wider Luxemetal portfolio.



The TERRA name reflects what the brand stands for - a direct, dependable connection to the earth, engineered with precision and without compromise.

OUR REACH & EXPERTISE

A Complete Earthing & Lightning Protection Range

TERRA E&LP Solutions is built to address the full earthing and lightning protection requirement of a project - from capturing a strike at top most roof level as well side strikes and safely discharging the same to earth. Our range is manufactured end to end in-house, from raw material to finished & tested component, packed for dispatch.

The TERRA E&LP Solutions broadly include:

Air Termination Systems : air rods, air rods base, free standing masts, strike pads, multi-point terminals etc.

Fittings & Clamps : DC clips, saddles, square clamps etc.

Earthing : earth rods, couplings, driving studs, copper-bonded, solid copper, stainless steel (316L), galvanized earth rods, Solid copper earth plates, lattice mats etc.

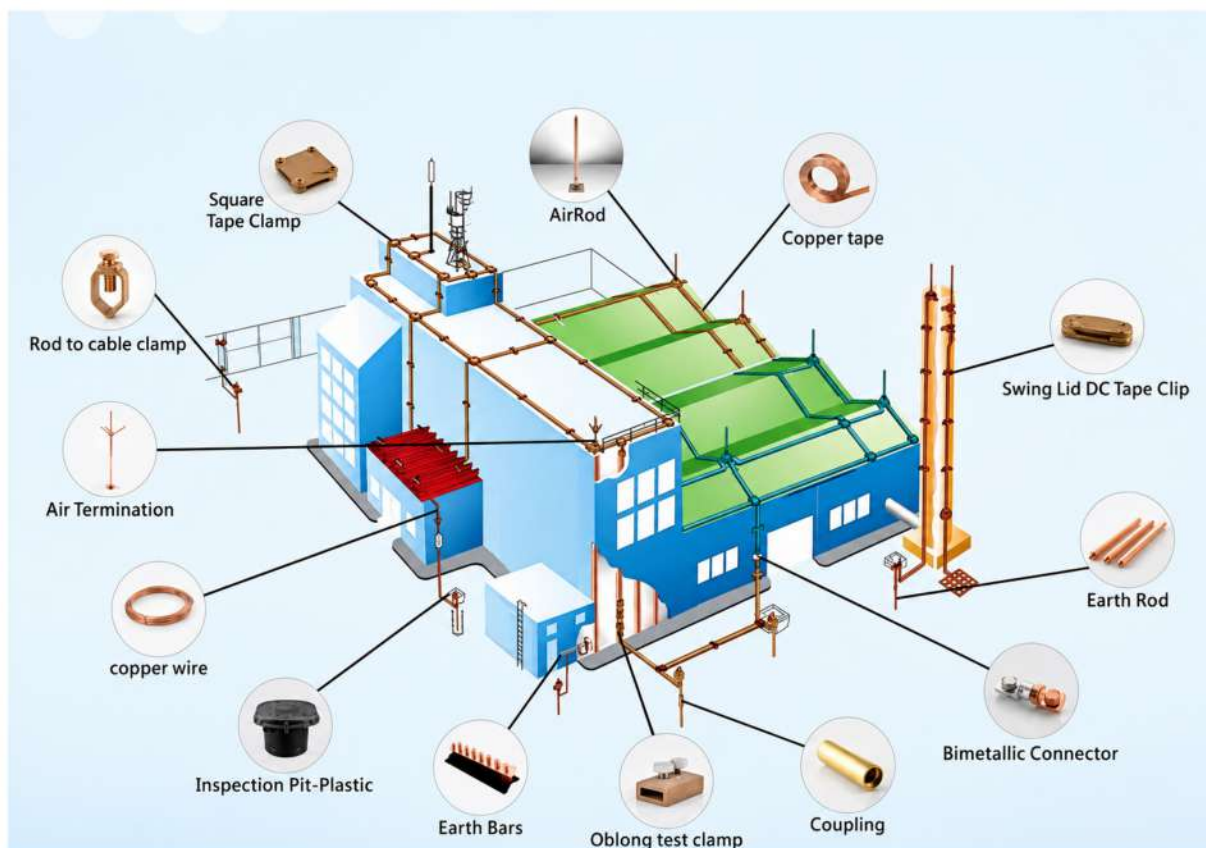
Conductors : bare and PVC-covered copper and aluminium tape. Tin plated & lead covered copper tape is also available

Bonds & Test Clamps : B-bonds, RWP bonds, plate, oblong test clamps etc.

Grounding Clamps : rod-to-tape, rod-to-cable, rod-to-rod, ground rod clamps (Type - A, E, G, GUV, Rebar - to - Rebar)

Weatherproof Covers & Pipe Repair Clamps : for junction boxes, switches and pipeline sealing

Cable Lugs : tinned copper cable lugs across a wide conductor range



Every component is manufactured to be installed as part of a coordinated system : not a standalone part such that the integrity of the earthing path is never left to chance.



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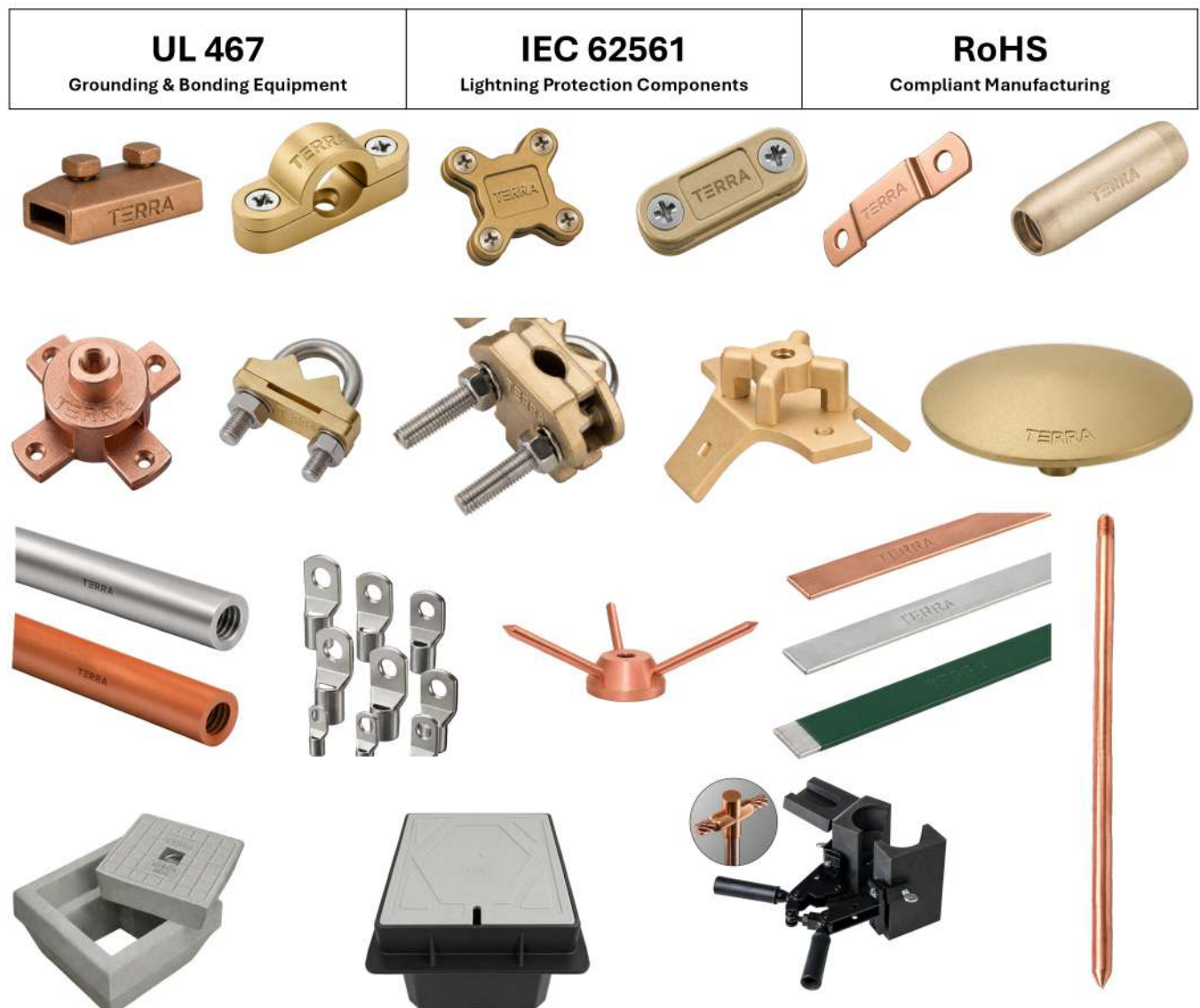
WHY EARTHING & LIGHTNING PROTECTION MATTERS

Protection That Cannot Be an Afterthought

A lightning strike can carry tens of thousands of amps into a structure in a fraction of a second. Without a properly designed and installed path to earth, this high energy has nowhere predictable to go –thereby putting people, structures, services and sensitive equipment (electrical, telecom, hospital equip.) at direct risk.

Effective protection depends on two things: An appropriate design to the relevant standards (IEC/BSEN 62305, NFPA 780 etc), quality of the components used (compliant to IEC/BSEN 62561; UL 467, UL 96 etc) and the integrity of the installation of the complete system. A single weak joint or a poor quality component or undersized conductor can compromise an entire installation, regardless of how well the system is designed.

This is the standard TERRA is built to meet - components manufactured to recognized international standards, knowledgeable resources with design ability.....working together to provide a complete and reliable system.





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MANUFACTURING & QUALITY

Built In-House, Tested to relevant International standards

TERRA products are manufactured within Luxemetal's own facility at Aligarh : from copper cathode to making our own alloy to casting and forging through to machining, plating (if required) and final testing. This vertical integration is what allows TERRA to hold every component to a consistent standard, order after order.

In-house capabilities include:

- Copper cathode melting and continuous casting
- Copper alloy extrusion - rods, sections, tubes
- CNC, VMC, EDM and wire-cut machining
- 35 power presses and dedicated forging presses up to 300 MT
- Tool and die development - in-house capability
- Semi-automatic powder coating and electroplating
- Precision CNC machining and surface finishing
- UL-approved testing laboratory and spectrometer verification
- Induction furnaces for copper, brass, and aluminium alloys
- Brass (Cu-Zn) alloy production - multiple grades including defence-grade 70/30, 72/28, 65/35
- Hot and cold rolling mills - strip and coil production
- Blanking, deep drawing, and precision metal forming
- Multi-pass annealing and controlled atmosphere heat treatment
- Aluminium pressure die-casting and sand casting
- In-house 2D/3D design, CAD-CAM, and 3D printing
- Metallurgical testing and quality systems
- In-house crate-making and container loading for export shipments
- Export-oriented production to international standards since 1982



Every alloy batch is verified for composition, every finished product batch is tested to international standards and every shipment is packed for safe transit - because reliability has to hold from the furnace to the field.



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WHERE TERRA IS USED

Industries We Serve

TERRA products are used wherever a dependable earthing path is non-negotiable - supporting utilities, infrastructure, construction, renewable energy projects etc. across our markets.

- Power & Utilities : substations, transmission networks
- Renewable Energy : solar installations and supporting infrastructure
- Industrial Facilities : manufacturing and process plants
- Telecommunications : towers and exchange installations
- Construction : commercial, residential, and industrial buildings
- Traffic & Public Infrastructure : municipal and roadway systems



Our products are trusted by customers ranging from contractors to established international buyers, with a track record built on consistent, repeat business rather than one-off orders.



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WHY CHOOSE TERRA

A Reliable Partner, Wherever You Build

- **Engineering & Compliance**
 - > Design Support & Technical support in compliance with IEC/BSEN 62305, NFPA 780 and UL 96a standards
 - > Products testing in compliance to IEC/BS EN 62561, UL 467 and UL 96
- **Complete Solutions:**
 - > A comprehensive portfolio
- **Customer Partnership**
- **Project specific Customized & special products**
- **After-sales assistance**
- **Reliable Delivery**
- **Manufacturing Excellence**
 - > Products made from virgin raw materials
 - > Precision manufacturing
 - > Consistent quality
- **Customer Partnership**
 - > Technical & Application support
 - Risk Assessment report
 - Design Philosophy
 - AutoCAD design
 - > Site visit
 - soil resistivity testing
 - final resistance testing
 - installation supervision



TERRA is backed by Luxemetal manufacturing group, systems and standards that have supported Luxemetal's international customers for decades, giving every TERRA order the reliability of a competent technical supplier.

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Let's Discuss Your Requirement

For project enquiries, project requirements, technical support, technical drawings, technical clarification etc. our team is ready to assist.

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