

Saumya Earthing – Conductive Concrete Plate Earthing

Product: Pre-cast, electrically conductive concrete plate electrode for maintenance-free earthing.

Parameter	Specification
Type	Pre-cast conductive concrete plate earthing
Size (typical)	300 × 300 × 35 mm
Core Material	Electrically conductive concrete (inert, non-leaching)
Bulk Resistivity	≈ 0.001 Ω·m
Service Life	30+ years
Maintenance	No water, salt or chemical recharging required

Electrical/Performance

- Target earth resistance: < 1 Ω typically achievable (depends on soil, parallel earthing as needed).
- Soil suitability: Effective in rocky, sandy, water-logged, saline and high-resistivity soils.
- Stable vs. moisture and seasonal variations.

Standards & Compliance

- IS 3043:2018 – Code of Practice for Earthing.
- IEC 62561-7:2024 – Earthing enhancing compounds.
- IEC 62561-2 – Earth electrodes & conductors.

Installation Summary

1. Conduct soil resistivity test.
2. Excavate trench/borehole.
3. Place pre-cast conductive concrete plate.
4. Connect copper/HDG earth strip with exothermic weld/compression.
5. Backfill and compact soil.
6. Test earth resistance and document.

Advantages

- No charcoal, salt, or chemical recharge required.
- Long life, environmentally friendly.
- Stable ohmic performance.
- Low cost of ownership (maintenance-free).

Suggested BOQ Item

Supply, installation, testing & commissioning of pre-cast electrically conductive concrete earthing plate, nominal size 300×300×35 mm, with copper/HDG earth strip ____ × ____ mm to nearest earth bar, exothermic welded joints, inspection chamber, testing as per IS 3043:2018; conductive concrete conforming to IEC 62561-7:2024.