



ISO 9001:2000 Co.

# INDERSONS

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## Chemical Earthing vs. Traditional Earthing

What is Earthing?

Earthing is the process of safe discharge of faulty electrical energy (current) below the earth by using a low resistance path. Earthing is of paramount importance to human as well as electrical machines safety, as it protects from electrical shock.

Conventional Earthing	Chemical Earthing
GI Pipe is inserted in a pit and connected to a Copper/GI Plate. Salt & Charcoal is filled in the pit and its watered, so as to ensure the earth remains moist & thereby conductive	Dual GI/Copper Pipe (Pipe in pipe) is used. The outer pipe is galvanized with thicker layer so as to resist corrosion and offer better conductivity. The space between the 2 pipes is also filled highly conductive & anti corrosive compound.
In long term the salt along with water gets deposited on the GI pipe and causes corrosion. This reduces conductivity, increases resistance and overall reduces earthing effectiveness	Here highly conductive backfill compound is used, which has no long term nature reactions and requires no watering or charging
Direct contact with soil also results in faster corrosion	No direct contact with soil
Can also result in failure to provide a safe discharge path for fault current	Always provides safe discharge to fault/surge/lightning current
Requires regular watering of the pit to ensure the earthing conductivity remains optimal	No water curing required. Install it once and forget then for ever
Earth resistance value varies based on regional geography	Minimal fluctuation in earth resistance
Low Product Life	Min. 20 years life
Product Life Cycle cost is high	Very cost effective over the lifecycle

