

Aspecialconducting compoundconsistingofnaturalsandmineralswillbefilledinsidethe pipe.Thishelpsfastconductionofanyfaultcurrent/staticcurrenttoearth.

Alsopotentialearthingelectrodehaveintroducedeconomyinthebrandnameof STANDARDto meetoutthecustomersrequirement.

GroundEnhancerEarthLifeCompound:

Earthresistanceissolely dependentonsoilresistivityatthepitlocation.EarthLifecompound, and GEL Combination a soil friendly earth pit filling material can absorb, retain and give out moisture,thusenhancingtheconductivityaroundtheelectrodeevenindryweatherconditions.

SalientFeaturesofPotentialearthElectrode:

LowImpedanceEarthing,Mechanicallystrong,Reliable,CorrosionResistant,giveslongand uninterruptedservice,cancarryshortcircuitcurrentandfaultcurrentrepeatedly.

Thebestneedbasearthingforhighsensitivellectrical/electronicmachineryandequipment. wearefollowingIS3043-1987

TECHNICALSPECIFICATION

Models	Lengh (MM)	OuterPipe Dia(MM)	Wall Thk(MM)	InnerPipe Dia(MM)	Wall Thk(MM)	Terminal Size(MM)	Terminal Holes(MM)	Rod Size(MM)	MicronApprox AppliedOuter	MicronApprox AppliedInner
Models-SUPERIOR										
P83	2000/3000	80	4	50	3.2	40X10	14mm	18mm dia	UPTo-100Micron	200To-300Micron
P53	2000/3000	50	3.6	25	2.9	32X10	12mm	12mm dia	UPTo-100Micron	200To-300Micron
Models-STANDARD										
PS43	2000/3000	40	3.25			25X8	12mm		UPTo-100Micron	200To-300Micron
PS53	2000/3000	60	3.6			32X10	12mm		UPTo-100Micron	200To-300Micron
PS83	2000/3000	90	4			40X10	14mm		UPTo-100Micron	200To-300Micron

Applications:

BodyEarthing&NeutralEarthing,
LightningProtectionSystems,
SensitiveEquipmentlikeComputers,UPS,CNCMachines
DataProcessingCenters,
TelecommunicationTowers&MicrowaveAntennas,
OilRefineries&PumpingStations
ElectricalSubstationsandPowerPlants,
Transformers&DGEarthing,
AllFactories,CommercialBuildings&Residential
InShortallLV,MV,HV,EHVapplications.

Advantages:

IncreasesLifeTimeoftheEarthElectrode
LeastFluctuationofCurrent
VereasyforInstallationEarthElectrode
AdequateGalvanisation
HighlyConductive
CapacitytoCarryHighPeakCurrent
DurableandReliable



Potential EARTHING ELECTRODE



MaintenanceFreeEarthingSystem

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About Us:

As electrical engineers and contractors we, Value Engineers, started our journey in 1999. We executed electrical work at the Kalpakam Atomic Power Project. Since then there is no looking back. With the knowledge and experience gained over the years, we have been able to hold a dominant position in earthing and Lightning Protection engineering in Tamil Nadu. The creation of mutual trust between us and our customers has contributed in large measure to our success and growth.

Earthing:

It is an electric connection to the general mass of the earth. It is an integral part of any electrical system. The name Earthing is associated with earth strip, earth electrode, earth joints, earth resistance and soil resistivity.

Earthing electrode:

It is a critical component of the earthing system, which is in direct contact with the ground. Earth pipe is technically called the Earth Electrode. It is a device to which earth wires are connected to provide smooth passage of fault current into the earth mass.

Why Earthing Of Electrical Installation Is a Must?

Electric Shock:

When insulation in electrical equipment fails, the current leaks into the metallic body of the equipment and energizes the equipment. At this time if anyone touches the equipment then he suffers an Electric Shock, which could result in instant death or heavy damage.

To prevent electric shock at residences and industries and other places, the metallic body of equipment is connected with a wire to the earth pipe buried in the soil.

There are two types of earthing: system earthing and body earthing.

Equipment Earthing or Body Earthing:

This is required for the protection of people from suffering electric shock under short circuit conditions. Two separate and distinct earth flats or wires run from the body of the equipment are connected to the earth electrode.

Improper Earthing:

- Safety of people and property is always at risk from electrical shock and electrical fires.
- Result in damage to costly electrical/electronic equipment.
- Loss of valuable data.
- Electrical motors, transformers lose efficiency
- Machinery downtime
- Production Loss
- High maintenance cost.

The Need For Low Impedance Earthing:

With several types of high sensitive electrical and electronic machines and equipment very much in use in all industries and institutions, the need for protection of these costly machines against fault and lightning current is very much necessary.

Electro static discharge can damage sensitive electronic equipment and disrupt power supply. Grounding therefore is necessary to eliminate this problem. Any voltage difference between individual electronic units can destroy valuable equipment. Noise can cause data output distortion and errors.

Thus the need for a need based earthing has arisen and Value Engineers have introduced Potential Earth Electrode to safeguard sensitive electronic equipment.

Potential Earth Electrode

Earth Electrode:

Potential earthing electrode has a total solution with a brand name of SUPERIOR, manufactured with advanced technology. It is the method of twin pipe with soil rod technology with heavy long terminal.

Both the outer shell and inner shell are having maximum pipe wall thickness of 4mm in a standard length of 3 meter long, fabricated in MS and subsequent care of hot dip galvanization to a maximum up to 120 microns outside and 300 microns inside the pipe.



G.I Earth Electrode



Copper Earth Electrode



Earth life compound



Gel Combination



Copper bonded earth rods