

THINK ELECTRICAL
THINK JEF

JEF[®]

JEF

ECOSAFE SET

Maintenance-Free Grounding
Solution

Resistivity <0.12 Ohm Mtr



WHAT IS MAINTENANCE FREE GROUNDING?

The basic objective of good earthing is to ensure the safety of life and property from shock and fire.

A good maintenance free grounding should offer :

1. Relatively lower resistance than conventional grounding
2. Consistently retain the low resistance without the need for maintenance - watering/salt charging

According to all relevant Standards like BS, IS, IEEE, IEC, etc., the ground resistance of an electrode can be reduced by modifying the soil surrounding the electrode by a compound of very low resistivity. To make the grounding system maintenance-free, this compound shall conduct without the need for moisture (water) and should retain its characteristic for several years without degradation. Additionally, this compound should not corrode the metal electrode.

JEF ECOSAFE SET

offers all the above features making it a truly maintenance-free grounding system

ADVANTAGES

- Assured lower resistance connection to earth
- Does not contain hazardous chemicals
- Never needs salt/water recharging
- Conducts through flow of electrons (like in metals)
- Does not depend on moisture & offers stable ground
- Will set like concrete when installed
- Suitable for every kind of soil
- Performs very well even in dry/arid soil conditions
- Protects against corrosion of electrode
- Can be installed in dry/slurry form
- Will not leach/diffuse into the ground or expand/shrink with time
- Can be used with plate/strip/rod electrodes

OPTIONS OF JEF ECOSAFE SET

- Horizontal Mat Earthing
- Tripolar Earthing
- Counterpoise Earthing
- Radial Earthing



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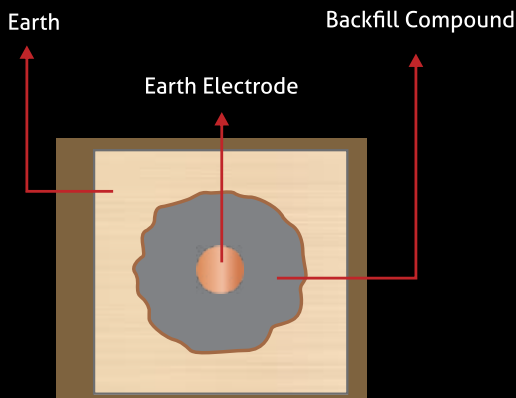
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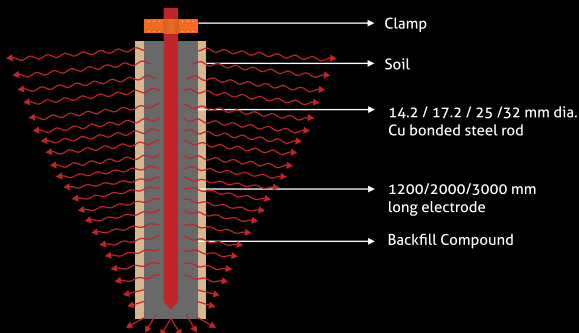
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A TYPICAL ILLUSTRATION
OF JEF ECO SAFE
GROUNDING SYSTEM



Important Note :

The bore dia and the length of the electrode and the quantity of compound shall be chosen depending on the soil condition.

* The backfill compound shall be poured in virgin form without mixing with soil.



EARTH ELECTRODE

- UL Certified
- Earth electrode conforms to IS 3043 : 2018 & IEC 62305 | 60364 standards

BRIEF INSTALLATION PROCEDURE

- Augur 3" to 4" dia borehole for the required depth
- Fill the bottom of the bore for about 300 mm with fresh soil
- Place the rod electrode at the center of the borehole
- In the case of rocky/hard soil strata, the depth of the borehole can be 6" less than electrode length. The bottom 12" can be filled with fresh soil. After this, adopt the procedure as detailed below :
- Pour half bag of Jef Ecosafe Set backfill in the borehole. Water it sufficiently (About 15 to 20 liters) and allow it to settle down for about 10 minutes
- Pour the remaining half bag of backfill compound and water again as mentioned above
- About 6" to 10" of the electrode may be visible in the borehole after the entire compound is filled. Fill fresh soil to cover this portion of electrode except for the top 6"
- Pour water again and allow the soil to consolidate
- Fix the clamp on top of the earth electrode
- DO NOT DISTURB the electrode (shaking/rotating etc)

EARTH ELECTRODE

- UL Certified
- Earth electrode conforms to IS & IEC standards
- High tensile strength-low carbon steel rod
- Based on globally accepted technology
- Stable performance due to uniform coating
- Various models according to customer requirements
- Cost-effective
- Suitable for all types of soil
- Long life and easy installation
- Superior resistance to oxidation
- Good electrical conduction & Effective performance
- Copper Bonding Thickness-100/ 250 micron
- Available in standard 14.2 / 17.2 / 25 / 32 mm Diameter

Other sizes available on request.

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HOUSR

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