

# EGR

## ELECTROLYTIC GROUNDING ROD



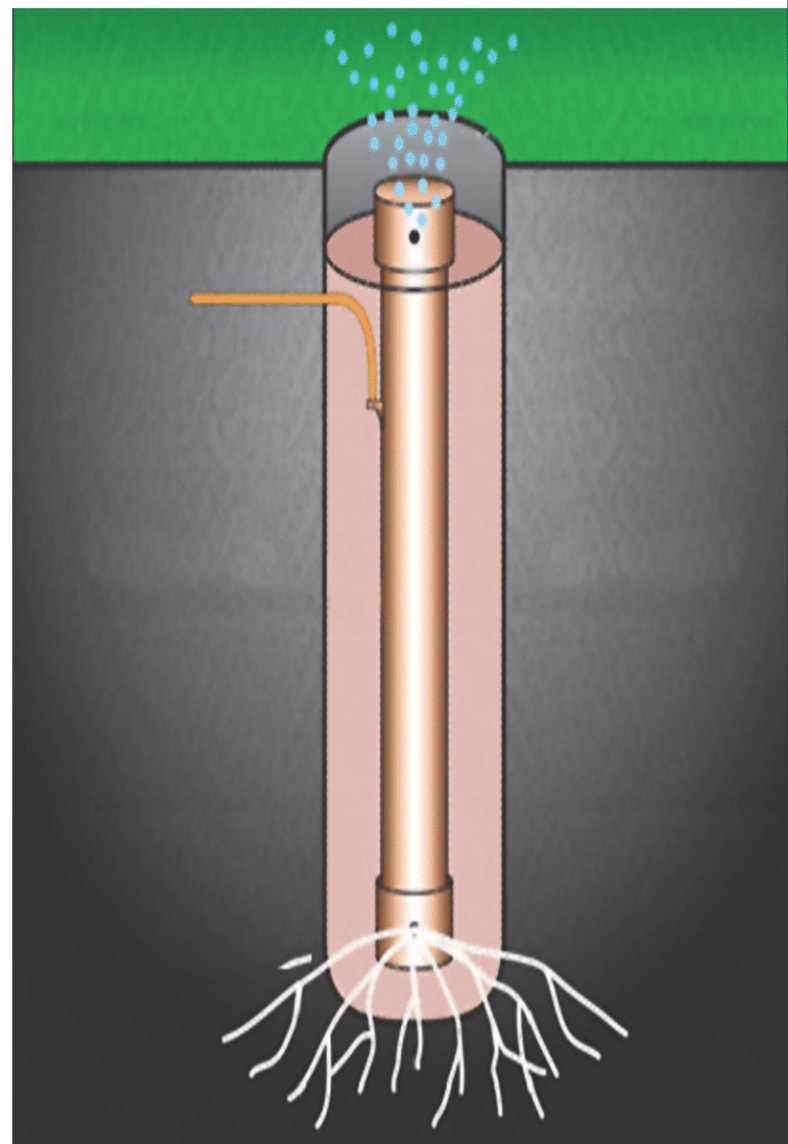
### ELECTROLYTIC GROUNDING ROD (EGR)

Electrolytic Grounding Rod (EGR) provides a low-impedance grounding in locations of high soil resistivity. With EGR as an electrode, the grounding system dissipates lightning energy and other dangerous electrical fault currents, even in sandy or rocky soil conditions very effectively.



### FEATURES

25mm ~ 50mm OD copper pipe contains natural electrolytic salts that permeate into the surrounding soil, lowering resistivity. Available up to 3 Mtrs in continuous length and longer rods can be field assembled using 3 Mtrs sections.



### **ZEEMAX VENTURE**

Malaysian Technology (R & D Product)

Alam Sanctuary, Jalan Alam Putra 3A,  
43300 Seri Kembangan, Selangor, Malaysia

Email: [info@zeemaxventure.com](mailto:info@zeemaxventure.com)

Whatsapp (**Text Only**): +60 10 277 7896

Website: [www.zeemaxventure.com](http://www.zeemaxventure.com)

# ZEEMAX

## APPLICATIONS

The EGR Ground Electrode system is ideal for locations of high soil resistivity as well as the locations where “Very Low Grounding Impedance” is required.

- ✓ Widely applied for the grounding grid projects in Electrical Substation, Thermal Power Plants, and the wind Power Projects
- ✓ Popularly used in Telecommunication applications such as: Towers and BTSs, microwave and other radio link stations, broadcasting and television grounding grids, communication equipment grounds where a dedicated earth is demanded.
- ✓ Highly applicable in large scale grounding grid projects where a final resistance value of less than  $1 \Omega$  is insisted.

## HOW IT WORKS ?

EGR is a self contained electrolytic grounding electrode that extracts moisture out of the air and from the earth on a continuous basis. This moisture mixes with and dissolves the metallic salts in the electrode that produces a continuous release of electrolyte into the soil. This dramatically reduces the resistivity of the soil around the electrode, thereby increasing the conductivity of the grounding system. The ground resistance continues to diminish as the electrolyte spreads further into the soil and is especially effective where the soil conditions are sandy, rocky, or have other undesirable factors. In these cases, the lack of moisture or the lack of natural metallic salts fails to produce a natural, conductive, electrolytic solution on a continuous basis. Our Grounding system provides these missing low resistance ingredients. The EGR incorporates several features that overcome these adverse soil conditions. The EGR's ability to extract moisture from both the air and the soil simultaneously is one of these features. When the topsoil is dry, the EGR extract moisture from the air and from the earth at a depth less susceptible to moisture variations. During a rainy season, the system extracts moisture from both the air and topsoil. This ensures the maximum and continuous development of the needed electrolyte.

## ADVANTAGES

- ✓ Occupies much Less Area & Less number of Rods as compared to the conventional grounding rods for achieving the same result.
- ✓ Grounding System becomes more efficient & effective using EGR.
- ✓ The performance of the grounding system improves with time, even under the adverse conditions of installation sites (sandy or rocky soils)
- ✓ Can be used with or without GCEM.



# ZEEMAX

## ZEEMAX VENTURE

Malaysian Technology (R & D Product)

Alam Sanctuary, Jalan Alam Putra 3A,  
43300 Seri Kembangan, Selangor, Malaysia

Email: [info@zeemaxventure.com](mailto:info@zeemaxventure.com)

Whatsapp (Text Only): +60 10 277 7896

Website: [www.zeemaxventure.com](http://www.zeemaxventure.com)

GLOBAL COORDINATOR & DEALER FOR PAKISTAN

# INDUS RESOURCES

212-B, S.M.C.H.S. Karachi - 75400, Pakistan

Email: [sales@indusresources.com](mailto:sales@indusresources.com)

Mobile: +92-321-2437191

Website: [www.indusresources.com](http://www.indusresources.com)