

## Technical Detail for “POWERPLUS GEL”

Earthing Chemical to reduce high Ground resistance



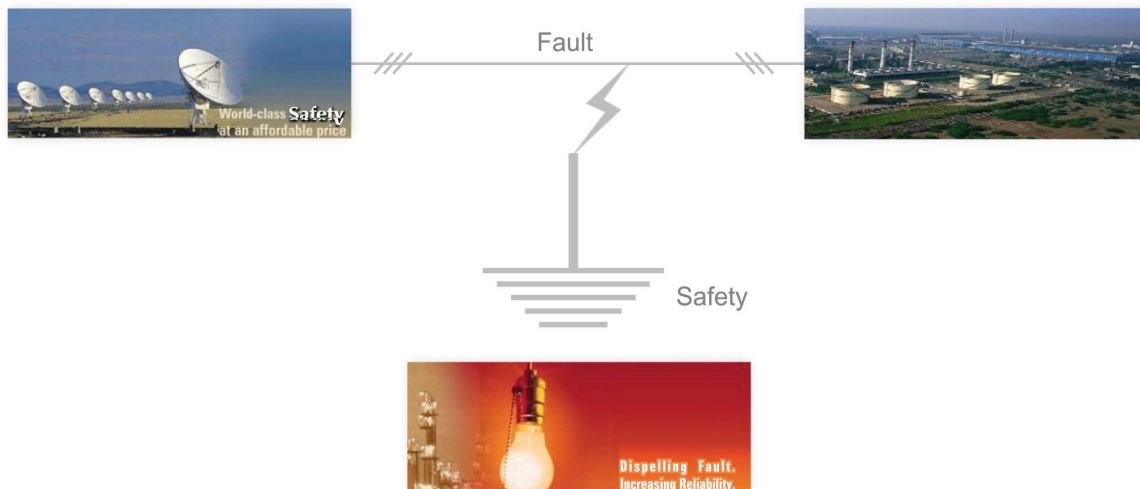
### **POWERTRAC INDUSTRIES**

Engineering | Design | Supply | Installation | Testing | Commissioning

ESE & Conventional Lightning Arresters | Earthing Electrode | BFC Materials

## Designed As per Standards:

- IS 3043
- IEEE
- I E Rules
- RDSO etc....



## Designed for Industry Safety for Human

POWERPLUS GEL is the water soluble earthing chemical designed as per standards, especially to reduce the high ground resistance without excavation of surrounding soil of earth electrode / plates/rod etc...

### Advantage:

- No soil excavation is requiring.
- Anti-corrosive.
- Long time stable.
- Highly durable.
- Reduce seasonal fluctuations of resistivity.
- Increase life of the electrode.
- Easily method to reduce ground resistance.

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# POWERPLUS – GEL



- Providing importance minerals surrounding of the electrode
- Keep earth pit resistivity as lower as possible.
- No periodic maintenance requires.
- Suitable for every types of earth pit designed.
- Compatible with every soil conditions.
- Unmatched performance evaluations.

Soil Type	Type of Existing Earthing Pit	Electrode Contact Resistance with the Earth before Reactivation (Ohms)	Electrode Contact Resistance arrived after Reactivation using POWERPLUS GEL (Ohms)	Percentage Reduction
Hilly	Pipe & Plate	0.79	0.35	63%
Crick	Mesh	1.55	0.38	75%
Sandy ...	Vertically Cross 4 Plate	1.20	0.45	62%
Rocky	Pipe Type	4.40	0.80	82%
Hard Murrum	Bore type pipe Electrode	4.00	0.50	87.5%

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## Frequently Asked Questions:

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### 1. How POWERPLUS GEL work?

POWERPLUS GEL is manufactured in liquid form so it is easily penetrate in the soil as deep as possible. So liquid molecules of the POWERPLUS GEL creating bonding contact between soils and the electrode, then resistivity start to reduction very fast and effectively.

### 2. Consumption / Quantity of the POWERPLUS GEL require for one earth pit?

POWERPLUS GEL is the very effective liquid solution, so small amount of POWERPLUS GEL liquid in ground soil, makes large amount of reduction on ground resistivity of the soil. Minimum consumption around 5 liter / 10 liter depends upon nature of soil. But we suggest 20 liter of POWERPLUS GEL solution for single earth pit.

### 3. Life of POWERPLUS GEL solution ?

Once POWERPLUS GEL poured into the soil, so it will be remain effective for 18 months to 24 months or might be more. POWERPLUS GEL durability is depends upon geographical condition of the earth pit's soil.

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## How POWERPLUS GEL is applied?

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### 1. Treatment of plate type earth pit.

Pour the liquid solution of the POWERPLUS GEL through the funnel attached with pit slowly.

What happen if funnel is not available?

Some time plate earthing don't have funnel or it might be damaged. So take one metal / GI hollow pipe around 1 meter length. Digging surrounding of the plate earthing for hole and after inserting around 1 meter in to the ground, pour the liquid through the pipe, repeat the procedure for 3 to 4 holes. Doing so liquid will be penetrate in soil easily and exact place.

### 2. How to treatment pipe electrode / chemical earth pipe / Rod?

Take one metal / GI hollow pipe around 1 meter length. Digging surrounding of the plate earthing for hole and after inserting around 1 meter in to the ground, pour the liquid through the pipe, repeat the procedure for 3 to 4 holes. Doing so liquid will be penetrate in soil easily and exact place.

Note: Before pouring POWERPLUS GEL liquid, remove the top soil around 1ft and make some hole, so liquid solution can be penetrate easily and exact place. Doing so, no chance of liquid flow any other place.

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