



All About Electrical Safety

## Offering Cost Effective Solution with Optimum Quality

### Chemical Earthing System

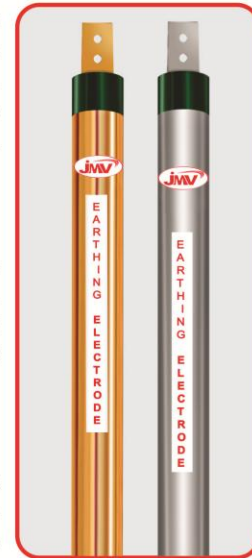
**JMV LPS Limited** is a known name for industrializing world class Earthing Solutions. It has an extensive experience in manufacturing all types of Chemical Earthing System that offers reliability, quality material, superior design, easy installation and maintenance free system. Chemical Free Earthing provides an alternate path for the fault current to dissipate safely into the ground and protect the life of the user and equipment which comes under fault condition. JMV's Earthing Electrodes are CPRI tested which confirms our high quality standards.

### Hot Dipped Galvanized Earthing Electrodes

JMV's GI Earthing electrodes are made up of superior quality raw material. It works as a medium which provides low impedance path to dissipate fault current safely into the earth. Assuring high quality standard of our earth electrodes they are galvanized using "Hot Dipped Galvanization Technology" to ensure uniform and in permanent molecularly bonded layer of protection for better corrosion resistance & improved product life.

### MTS Protected Earth Electrode

To ensure complete protection of the entire system apart from Hot Dipped Galvanization, we are only manufacturer that use internationally accepted Metal Thermal Spray Technology on the welded part of the electrode to ensure higher reliability against corrosion that may invite to joint failure and further damage to the equipment if not protected properly.



Earthing Electrodes

### What is MTS Technology?

Metal Thermal Spray (MTS) is an industrial coating process typically applied to metal substrates. It consists of a heat source (flame or other) and a coating material in a powder or wire form which is literally melted into tiny droplets and sprayed onto surfaces at high velocity. The Metal Thermal sprayed coatings uniquely enhance and improve the performance of the component. It offers protection against high temperature and corrosion.

### JAM FILL- An Efficient & Eco-friendly Earth Enhancement Compound

An efficient earthing system is an accurate combination of conductor and earth enhancing compound. The earth enhancing compound has its own significance in the earthing system. JMV's JAM Fill Earth Enhancing Compound is developed in accordance to IEC 62561-7 which is an international standard for earth enhancing compound offering smooth and fast dissipation of fault current to the ground. It is a highly conductive material designed to lower grounding system resistance which improves grounding effectiveness in all types of soil conditions. It maintains the constant resistance for the life of the ground system and it's a perfect replacement for slat and charcoal in any type of earthing system. JAM FILL compound is ideal for areas with poor conductivity like rocky ground, mountain tops, sandy soil and areas of moisture variation. JMV's Earth Enhancing Compound is RoHS tested which offers strength to our high quality standards.

### Features of JAM Fill Earth Enhancing Compound

- It does not dissolve, decompose or leach out with time.
- Safeguard electrodes from early corrosion.
- It is permanent and maintenance-free which maintains its earth resistance with time.
- It does not depend on the continuous presence of water to maintain its conductivity.
- Protect electrodes from direct contact with soil by forming an unsolvable layer.
- Provides a good life span without any need to have scheduled or routine maintenance.
- Maintain soil moisture and reduces its ohmic value.



Earth Enhancing Compound

*Leading the nation-towards electrical safety*



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## Tests & Approvals



### Earth Pit Covers

JMV's Earth Pit Covers are much advanced replacement of brick paved covers as they offers hassle free installations. They can be easily installed and removed in case of need. JMV's Pit Covers are highly appreciated for its excellent dielectric properties, high mechanical strengths, chemical resistance and zero water absorption make it ideal for every electrical application. The range of pit covers is as given below:



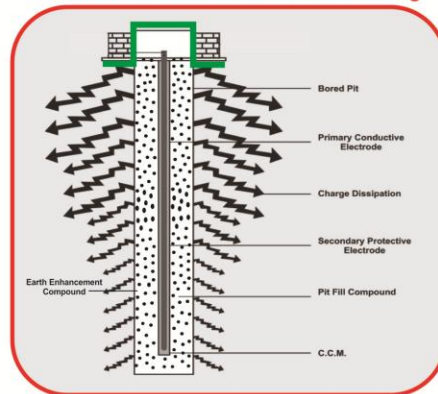
### Benefits of Chemical Earthing System

- Better corrosion resistant
- Excellent electrical conductivity
- Maintenance Free System
- Better product life
- Suitable for every soil type
- Trouble free installation
- Cost effective solution

### Applications of Chemical Earthing System

- Solar Industry
- D.G. Set
- Transformer
- Telecommunication
- Transmission System
- Lightning Protection System
- Manufacturing Facilities & Refineries

### Installation View of Chemical Earthing



### JMV's Range of Earthing System

Models	Electrode Diameter (MM)	Length (MM)	Internal Strip Size (MM)	Connection Terminal Hole Dia (MM) X No. of Hole	Recommended Earth Enhancement Compound
JMV-092	40	2000	25 X 04	10 X 02	25 kg
JMV-093	40	3000	25 X 04	10 X 02	50 kg
JMV-192	50	2000	32 X 04	12 X 02	25 kg
JMV-193	50	3000	32 X 04	12 X 02	50 kg
JMV-392	76	2000	40 X 06	14 X 02	25 kg
JMV-393	76	3000	40 X 06	14 X 02	50 kg

- \* Apart from the above mentioned standard sizes we also offer customize solution and sizes
- \* Above earthing models are available in GI, Copper & Copper Bonded.
- \* Above mentioned earth enhancing compound quantity can be increased as per soil type like rocky & sandy soil to get better resistance.
- \* We recommend the use of Earth Pit Cover with earthing.

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