



ZEMEINDIA
Earthing Private Limited



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Corporate Profile

APPROVED BY



ABOUT US



Pioneering Safety Solutions in Lightning Protection

- Leading the charge in innovative lightning protection solutions.
- Collaborating for safety: Join us in securing assets and infrastructure.
- Proven track record in lightning hazard mitigation.



DIRECTOR'S MESSAGE

Continuous improvement and innovation is second nature to our operation and is embraced by all. We have an experienced, engaged team with strong leadership that is continuously striving to produce the highest quality components and solutions for our customers.

- MR. AJAY SINGH



MISSION

Our mission is to educate the world about the importance of reconnecting to the earth to restore and maintain our natural state of health. We conduct research, create awareness, and design and develop state of the art products that help restore our lost connection to the earth's abundant ground energy.



VISION

A world where lightning hazards are effectively neutralized Long lasting, maintenance free, best in the market, earthing protection solution that is designed for your need, fits perfectly on your budget. Our specialized team of engineers can create customized products on your demand.



ABOUT ZEME INDIA

We, Zeme India Earthing, manufacturer and exporter of complete earthing and lightning protection solutions and products such as chemical earthing electrodes, copper earthing bonded rods and electrodes, earthing pit covers, enhancing (backfill) compounds, copper and aluminum strips, conventional and ESE lightning arresters for home and industrial use.

We Provide all the products required to make your home/workplace a safer place with ISO Certified equipment, which are manufactured under the supervision of well-qualified engineers and goes through quality control under well-known quality check specialists

We, Zeme India Earthing Private Limited is the top manufacturer and Exporter of all Earthing equipment in India. we do the inspection, consult and setup earthing for your home and industrial and commercial space.

ABOUT EARTHING & LIGHTNING PROTECTION SYSTEM

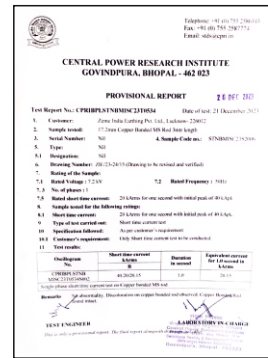
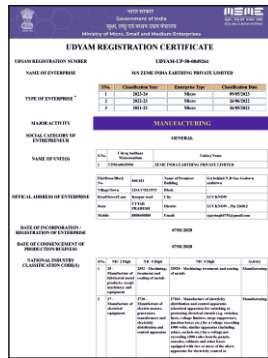
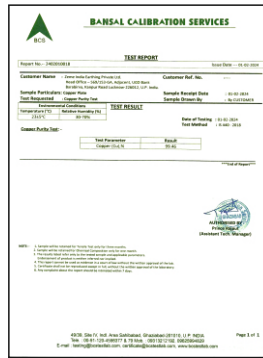
Chemical Earthing is an advanced form of Maintenance Free Earthing utilizing Superior ground-enhancing compounds such as Back Fill Compound to reduce the ground resistance to get low-resistance earthing in place of Charcoal and salt, as used in conventional earthing of earlier days.

A lightning protection system includes a network of air terminals, bonding conductors, and ground electrodes designed to provide a low impedance path to ground for potential strikes. Lightning protection systems are used to prevent lightning strike damage to structures.

CERTIFICATES

QUALITY ASSURANCE AND RECOGNITION

- ▶ ISO certification: Adhering to global standards
- ▶ Regulatory endorsements: Compliance and reliability
- ▶ Testimonials: Client feedback on the efficacy of our solutions



TEAM UP FOR SAFETY

Collaborative Partnerships



Inviting industry collaborations
Strengthening safety networks



Joint ventures
Co-creating solutions
for unique challenges



PUSHING BOUNDARIES IN LIGHTNING PROTECTION



Sustainable Practices
Environmentally conscious approaches



Integrated Solutions
Tailored packages for
diverse infrastructure needs



Smart Monitoring Systems
Real-time tracking of lightning activity

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आपकी सुरक्षा
हमारा वादा



ZEME INDIA EARTHING PVT. LTD.

Lighting Protection & Earthing Solutions

Zeme India Earthing has developed a full range of earthing products & services to safe guard your assets & secures your infrastructure and life from lightening hazards.

We owned by group of dedicated engineers and research & development team.

We understand that the traditional system of earthing is unreliable and prone to problems we understand consumers requirement according that we always focussing to give best solutions to our customers. We thank you for choosing us.

WE ENSURE EVERYTHING ABOUT YOUR SAFETY

- ✓ IDENTIFYING POTENTIAL HAZARDS
- ✓ COMPLIANCE TO STANDARDS
- ✓ REGULAR MAINTENANCE
- ✓ USE OF PROPER PPES
- ✓ LABELLING POTENTIAL HAZARDS



**CUSTOMER SERVICE
SHOULD NOT BE A
DEPARTMENT IT
SHOULD BE THE
ENTIRE COMPANY**



EARTHING AND ITS IMPORTANCE IN ELECTRICAL SYSTEM

Earthing is one of the main factors in electrical systems to protect the humans from getting electric shock. Earthing is used in almost every equipment. Earthing is system in which the part of the equipment is connected to the earth with the help of the wires or cables. Earthing is also known as the grounding system.

Earthing is defined as the discharge of electric current in the earth with the help of the wires or cables having low resistance. Mostly Galvanized iron (G.I) strips are used for the earthing. Earthing protects the humans from getting electric shock from the leakage current and when a live wire or cable comes in the contact of the body of the equipment or from the short circuit current.

WHY EARTHING IS IMPORTANT IN ELECTRICAL SYSTEMS

- Earthing keeps the humans safe from getting electric shock. Earthing protects the equipment from getting damage from the excessive flow of the current in the circuit. Earthing prevents the risk of the damage of the equipment from leakage current.
- In case of the electrical faults high voltage can pass through the circuit which can damage the electrical installation.
- If earthing is installed in the circuit the excessive voltage passes through the cables to the earth.

The earthing provides the easiest path to the flow of the short-circuit current even after the failure of the insulation.

TYPES OF EARTHING

There are two types of earthing in electrical system:

ELECTRODE EARTHING

PLATE EARTHING

CHEMICAL EARTHING

LIGHTNING ARRESTERS

WHAT IS EARTHING

Earthing is the process of creating alternative path for the flow of fault/excessive current safely into the ground in the presence.

The primary purpose of earthing is to reduce the risk of serious electric shock from current leaking into insulated metal part of an appliance, power tool, or other electrical devices. In a properly earthen system, such leaking/fault current is carried away harmlessly while tripping the fields. Over the years billions of dollars' worth of property has been destroyed due to electrical

ADVANTAGES OF PROPER GROUNDING

- ⚡ Prevents electric fires
- ⚡ Eliminates shock hazard
- ⚡ Reduces equipments repair cost & downtime
- ⚡ Lowers levels of electrical noise (fluctuation in an electrical signal)
- ⚡ Protects equipments from voltage



RESEARCH & DEVELOPMENT

Our technical specialists, engineers & researchers changes latest technology products for provided that safe, efficient & cost-effective solutions,

STANDARDS & CERTIFICATIONS

NABL LAB | ISO 9001:2015 | CPRI

BANSAL CALIBRATION SERVICE | ECO FRIENDLY

TUV AUSTRIA | IEC | TRADEMARK | MSME

SERVICE

- Eco Friendly TUV Austria IEC Trademark MSME SERVICES
- Location Surveys
- Risk Analysis
- Technical Assistance
- Installation
- Verification
- Maintenance Solutions
- Training



COMPREHENSIVE LIGHTNING PROTECTION SOLUTIONS



Grounding Systems

Ensuring Lightning Energy Dissipation



Lightning Rods

Proactive Lightning Strike Prevention



Surge Protection Devices

Safeguarding Electronic Equipment



Maintenance Services

Regular Inspections And Upkeep For Sustained Protection

LIGHTNING ARRESTER

A) This Section specifies the lightning protection system for the building(s) or structure(s). This system provides safety for the building and occupants by preventing damage to the structure caused by lightning. The design of this system is to be in strict accordance with this section of the specification and all contract drawings that apply.

B) The work covered under this section of the specifications consists of furnishing labor, materials and services required for the completion of a functional and unobtrusive lightning protection system approved by the architect and engineer.

C) A specialty contractor actively engaged in the installation of certified lightning protection systems.

SYSTEM DESCRIPTION

The entire lightning protection system shall be designed and installed in accordance with:

A) National Fire Protection Assoc. (NFPA) Document # 780

B) Underwriters' Laboratories, Inc. (UL) Standard # 96A

C) Lightning Protection Institute (LPI) Standard # 175

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ZM- ESE LIGHTNING ARRESTER

Lightning strike counter is used for recording number of times a lightning strike occurs from various kinds of lightning eliminators and lightning rod. It is kind of electro mechanical counter with digital display facility, lightning strikes provides valuable information for the maintenance and safety of all structures and its occupants.



ZM-ARRESTER COPPER

⚡ FEATURES OF SPIKE LIGHTNING ARRESTER

- ⚡ Durable
- ⚡ Sturdy housing
- ⚡ Latest design
- ⚡ Sr. No.Inner Strip Size Terminal SizeTerminal125 X
650 x 6G.1.225 X 3 (Copper)50 x 6Copper325 X
- ⚡ 650 x 6G.1.425 X 3 (Copper)50 x 6Copper550 X
- ⚡ 350 x 6G.1.650 X 3 (Copper)50 x 6Copper750 X
- ⚡ 350 x 6G.1.825 X 3 (Copper)50 x 6Copper



LIGHTING STRIKE COUNTER

Lightning strike counters are very useful tools in lightning protection installations, since they provide first-hand information on whether the installation has suffered a lightning strike. VTR provides both type of strike counters i.e. Analog Strike Counter and Digital Strike Counter.



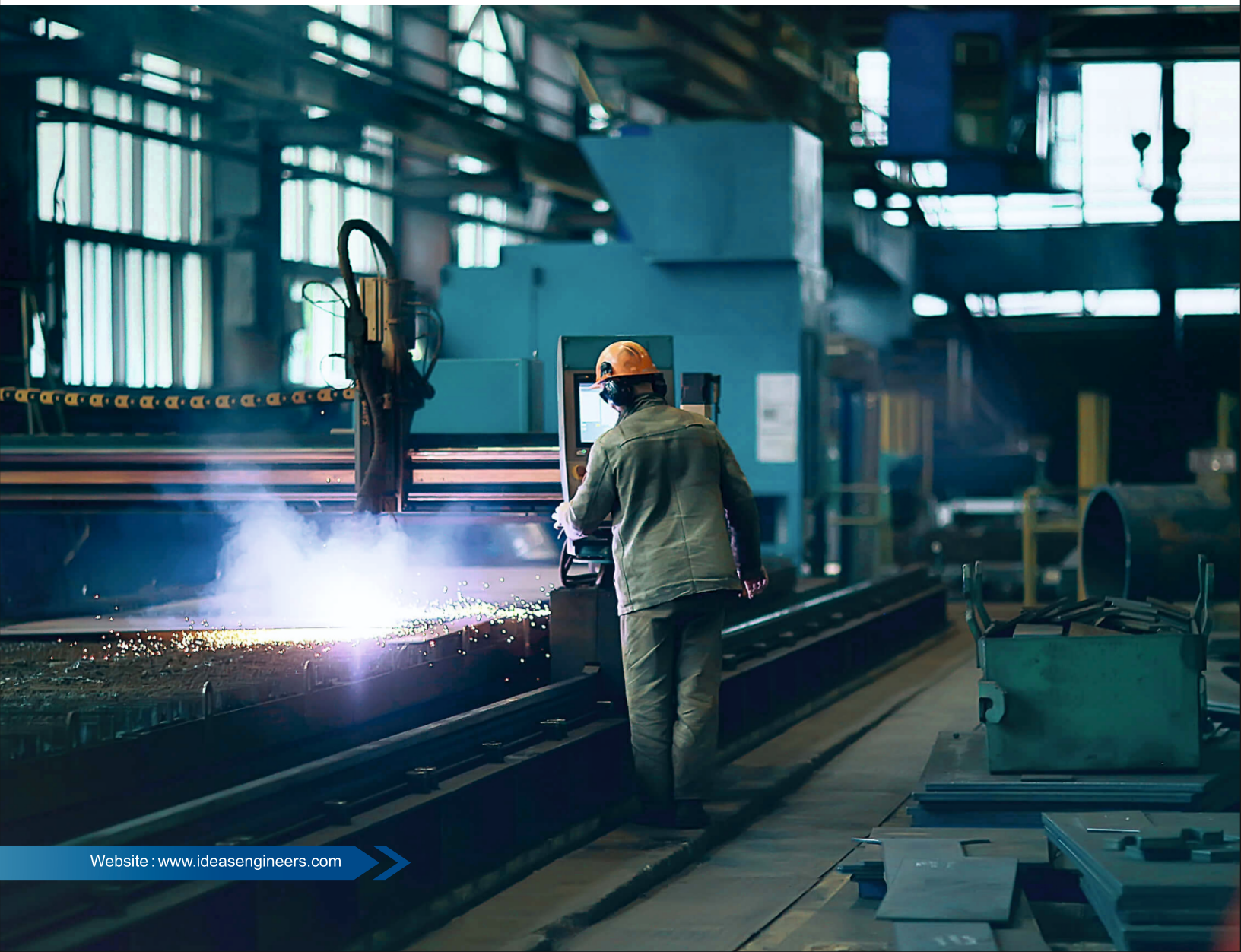
Analog Strike Counter



Digital Strike Counter

”
EMPOWERING THROUGH
STATE - OF - THE -
ART FACILITIES

- ▶ Advanced testing labs:
Rigorous quality assurance
- ▶ Research and development centres:
Focused on continuous innovation
- ▶ Strategic locations:
Efficient distribution and prompt service
- ▶ Have a Own Copper Plating
Manufacturing Unit



ABOUT EARTHING

Zeme earthing is a necessity for all electrical equipments. its primary purpose to reduce the risk of serious electric shocks from current leaking into insulated metal part of an appliance and devices. over the years billions of dollars value of properties has been destroyed due to electrical system failures.

Grounding is the process of creating alternative path for the flow of excessive current safety in to the ground in the presence of minimum resistance.

Better Be
SAFE
Than **WORRY**

Zeme Total Earthing Solutions



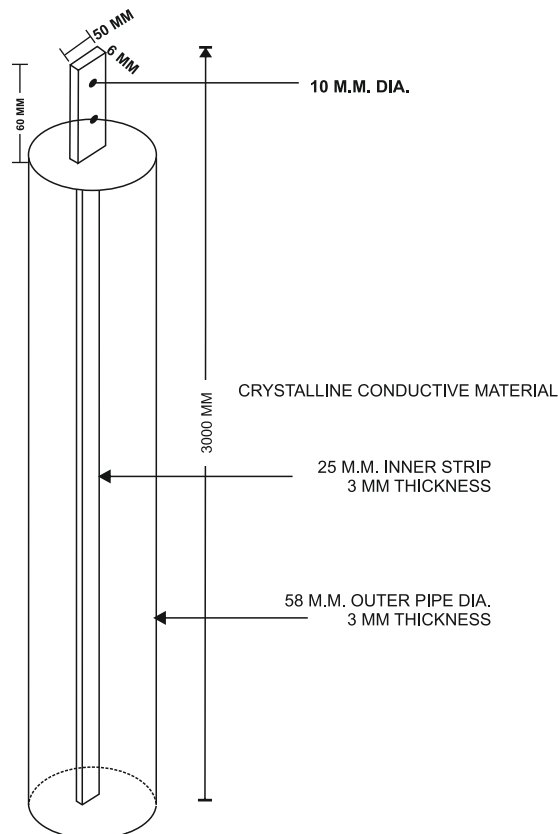
ZM-GI

Earthing electrode

⚡ SPECIFICATION

- ⚡ Most suitable for soil condition with pH value 5.0 to 8.0.
 - ⚡ Moisture booster chemical bags provided for low earth resistance.
 - ⚡ Low maintenance at installation site.
 - ⚡ Easy & Fast Installation.
- Hot dip galvanized for corrosion protection.

MODEL NO.	GI PIPE OUTER DIAMETER in mm	GI PIPE LENGTH (mm)	INTERNAL STRIP SIZE (MM)	Capacity / Load Capacity
ZM 248253 GI	48	2000	25x03	15 KVA - 81 A
ZM 248254 GI	48	2000	25x04	15 KVA - 81 A
ZM 348254 GI	48	3000	25x04	30 KVA - 163 A
ZM 258304 GI	58	2000	30x04	40 KVA - 217 A
ZM 358304 GI	58	3000	30x04	50 KVA - 271 A
ZM 288506 GI	88	2000	50x06	55 KVA - 298 A
ZM 388506 GI	88	3000	50x06	70 KVA - 380 A



ZM-COPPER

BONDED Earthing electrode

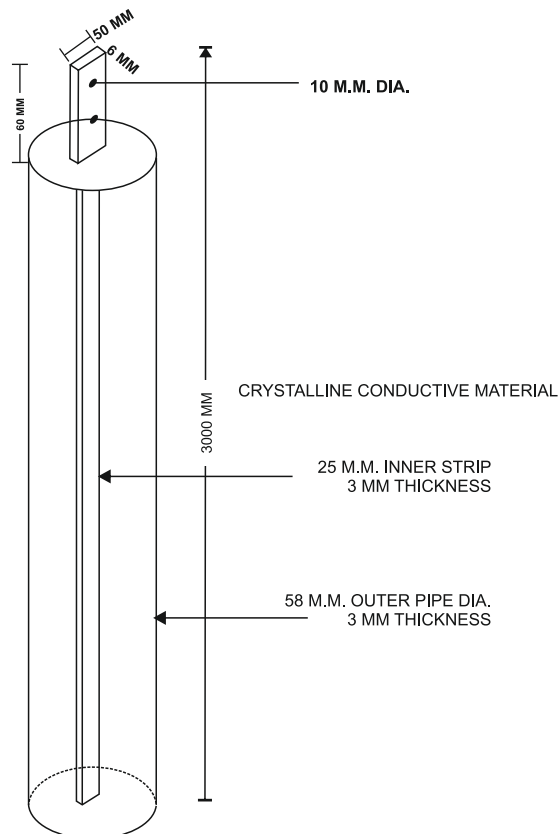
⚡ BENEFITS

- ⚡ Earth Enhancement Material Tested From NABL Accredited Lab.
- ⚡ Due to conductive material improve the soil resistivity.
- ⚡ Its also increase the conductivity of Earth Electrode.
- ⚡ No maintenance.
- ⚡ Long Life.
- ⚡ Automatically rechargeable.
- ⚡ No Need to pouring water time to time.

MODEL NO.	ELECTRODE LENGHT in mm	ELECTRODE LENGHT OUTER DIAMETER	TERMINAL SIZE (LXW) IN MM	CONDUCTIVE MINERALS FILLED
ZM 258253 CBE	2000	58	25x03	15 KVA - 81 A
ZM 358244 CBE	3000	58	25x04	30 KVA - 163 A
ZM 288254 CBE	2000	88	25x04	55 KVA - 298 A
ZM 388304 CBE	3000	88	30x04	70 KVA - 380 A

⚡ SPECIFICATION

- ⚡ High conductivity ,improves earth absorbing power and humidity retention capability.
- ⚡ Inner space is filled with highly conductive corrosion resistant crystalline.
- ⚡ Suitable for installation in dry form or in a slurry form.
- ⚡ Its provides low earth resistance during all seasons.
- ⚡ Its permanent & maintenance free and in it set form maintains constant earth resistance with time.
- ⚡ Shall be thermally stable between -100C to +600C ambient temperatures.
- ⚡ Shall not require periodic charging treatment nor replacement and maintenance.
- ⚡ Its suitable for any kind of electrode and all kind of soil of different resistivity.
- ⚡ Shall not cause burns, irritation to eye ,skin etc.

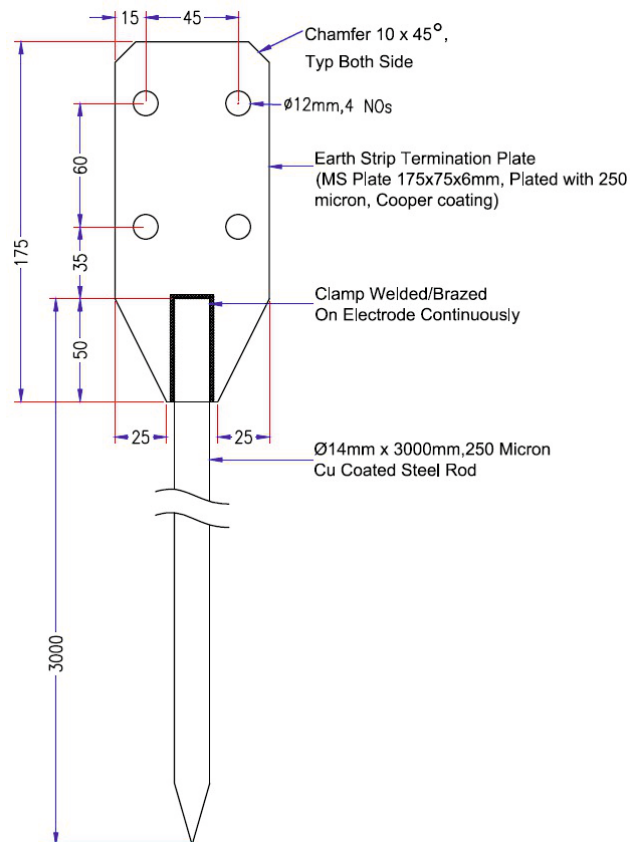


ZM-PURE COPPER EARTHING ELECTRODE

⚡ BENEFITS

- ⚡ Earth Enhancement Material Tested From NABL Accredited Lab.
- ⚡ Due to conductive material improve the soil resistivity.
- ⚡ Its also increase the conductivity of Earth Electrode.
- ⚡ No maintenance.
- ⚡ Long Life.
- ⚡ Automatically rechargeable.
- ⚡ No Need to pouring water time to time.

PRODUCT CODE	Electrode length in mm	Electrode Diameter In Mm (outer Pipe)	CONDUCTIVE (LXW) IN MM	TERMINAL SIZE MINERALS FILLED
ZM 250325 PCE	2000	50	32X5	15 KVA - 81 A
ZM 350325 PCE	3000	50	32X5	30 KVA - 163 A
ZM 280506 PCE	2000	80	50X6	55 KVA - 298 A
ZM 380506 PCE	3000	80	50X6	70 KVA - 380 A



ZM-COPPER BONDED ROD

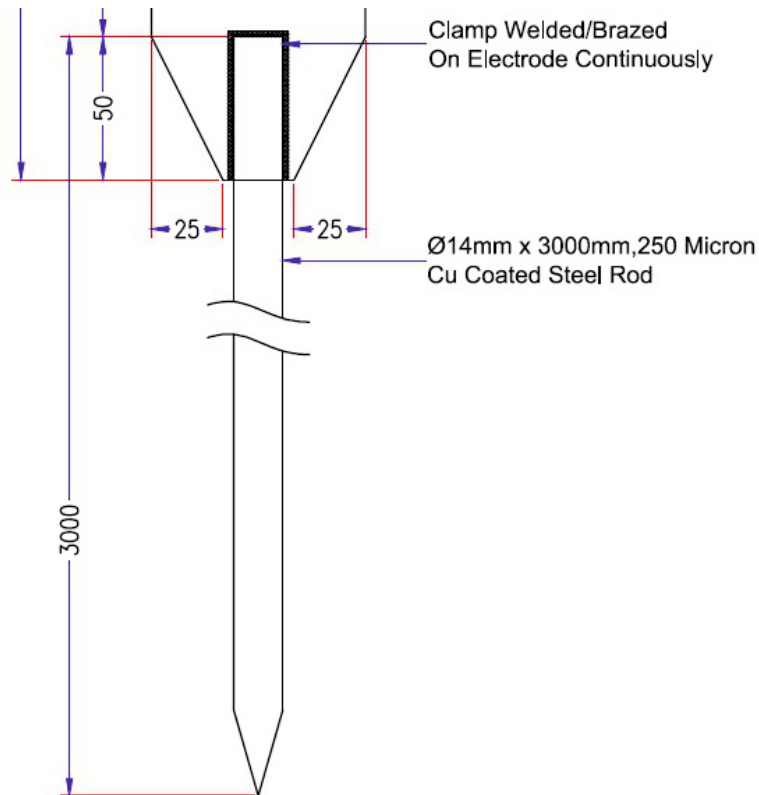
MODEL NO	ELECTRODE LENGTH MM	ELECTRODE DIA MM
ZM 214 CBR	2000	14
ZM 314 CBR	3000	14
ZM 117 CBR	1000	17
ZM 217 CBR	2000	17
ZM 317 CBR	3000	17
ZM 120 CBR	1000	20
ZM 220 CBR	2000	20
ZM 320 CBR	3000	20
ZM 125 CBR	1000	25
ZM 225 CBR	2000	25
ZM 325 CBR	3000	25

⚡ BENEFITS

- ⚡ Earth Enhancement Material Tested From NABL Accredited Lab.
- ⚡ Due to conductive material improve the soil resistivity.
- ⚡ Its also increase the conductivity of Earth Electrode.
- ⚡ No maintenance.
- ⚡ Long Life.
- ⚡ Non Toxic contents.

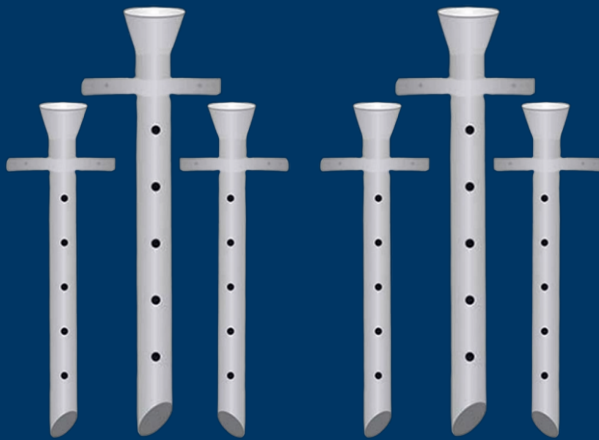
⚡ SPECIFICATION

- ⚡ Artificial treatment compound.
- ⚡ no expansion factor.
- ⚡ Environmentally friendly.
- ⚡ Saves your electrical equipments form ground faults.
- ⚡ High corrasion resistance enhance the life of earth electrode.



GI EARTH ROD

<u>Product Model</u>	<u>Dia of Rod</u>	<u>Length of Electrode (in Meter)</u>	<u>Connection Terminal Size (mm)</u>	<u>Hot Dip Galvanized (Micron)</u>
ZM-14/HDPE	14 mm	1, 2 & 3	32x6x150	80-100 μ
ZM-17/HDPE	17 mm	1, 2 & 3	32x6x150	80-100 μ
ZM-19/HDPE	19 mm	1, 2 & 3	40x6x150	80-100 μ
ZM-23/HDPE	23 mm	1, 2 & 3	40x6x150	80-100 μ
ZM-25/HDPE	25 mm	1, 2 & 3	50x6x150	80-100 μ



GI PERFORATED PIPE EARTHING

<u>Product Model</u>	<u>Dia of Electrode</u>	<u>Length of Electrode (in Meter)</u>	<u>Connection Terminal Size (mm)</u>	<u>Funnel Size</u>
ZM-25/GIPPE	25 mm	1, 2 & 3	32x6x150	As per Standard
ZM-48/GIPPE	48 mm	1, 2 & 3	32x6x150	
ZM-58/GIPPE	58 mm	1, 2 & 3	40x6x150	
ZM-76/GIPPE	76 mm	1, 2 & 3	40x6x150	

GI PLATE EARTHING

<u>Product Model</u>	<u>Watering GI Pipe Dia</u>	<u>Watering GI Pipe Length</u>	<u>Connection Terminal Size (mm)</u>	<u>Strip Size (Plate to Connection Clamp)</u>
ZM-25/GIPE	25 mm	3 meter	32x6x200	25x3 (dual strip)
ZM-48/GIPE	48 mm	3 meter	32x6x200	25x6 (dual strip)
ZM-58/GIPE	58 mm	3 meter	40x6x200	25x6 (dual strip)
ZM-76/GIPE	76 mm	3 meter	50x6x200	50x6 (dual strip)

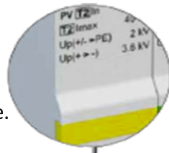
Required Salt (30kg) & Charcoal (70kg) would be 100kg for each electrode



SURGE PROTECTION DEVICE

Pluggable Module

Disconnection for simplified maintenance. Standardized marking



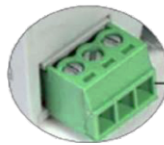
Status Signaling

In case of safety disconnection, the indicator switches to red: Module to replace



Remote Signaling

Option to remotely monitor the status of the surge protector. Simplified cabling thanks to a single terminal for monitoring all poles.



Connectors

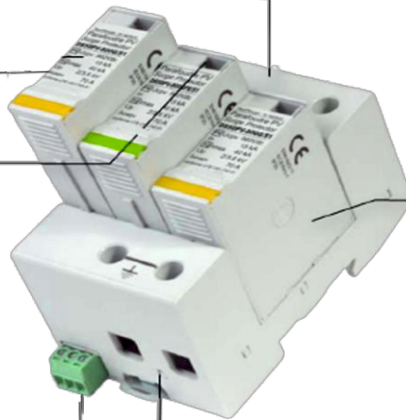
Significant physical separation screw terminal blocks: ensuring insulation between polarities even for high DC voltages



Quality Material

Earth

Double connector for optimized connection ground network.



DS60VGPV/51 SERIES

Connectors

Significant physical separation screw terminal blocks: guarantee insulation between polarities even for high DC voltages



Remote Signaling

Standard feature to remotely monitor the status of the surge protector. Simplified cabling thanks to a single terminal for monitoring all poles.



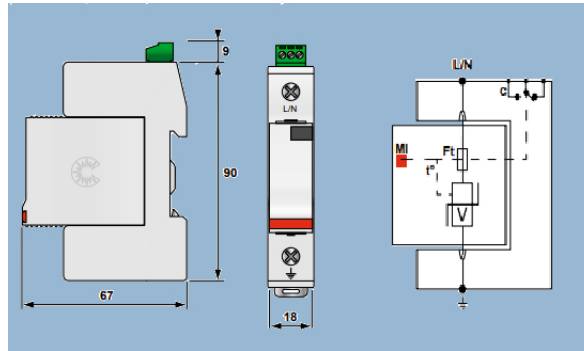
Efficiency and reliability maximum

Status Signaling

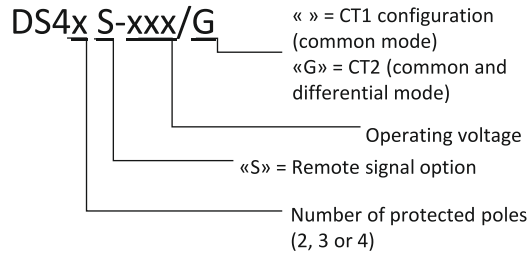
In case of safety disconnection, the indicator switches to red: SPD to replace



TYPE 2 AC SURGE PROTECTOR



- Type 2 AC Surge Protector
- In : 20 kA
- Imax : 40 kA
- Pluggable module for each phase
- Remote signaling option
- IEC 61643-11 and EN 61643-11 compliance
- UL1449 ed.4



Model	DS41-690	DS41-600	DS41-480	DS41-400	DS41-385	DS41-320	DS41-280	DS41-230	DS41-120	
Description	Type 2 AC surge protector - one-phase - pluggable									
Max. AC operating voltage	Uc	760 Vac	660 Vac	530 Vac	440 Vac	385 Vac	320 Vac	280 Vac	255 Vac	150 Vac
Temporary Over Voltage (TOV) Characteristics - 5 sec	UT	1000 Vac	870 Vac	700 Vac	580 Vac	335 Vac	335 Vac	335 Vac	335 Vac	180 Vac
Temporary Over Voltage (TOV) Characteristics -120 mn	UT	1325 Vac	1150 Vac	920 Vac	770 Vac	440 Vac	440 Vac	440 Vac	440 Vac	230 Vac
Residual current - Leakage current at Uc	Ipe	< 1 mA	< 1 mA	< 1 mA	< 1 mA	< 1 mA	< 1 mA	< 1 mA	< 1 mA	< 1 mA
Follow current	If	None	None	None	None	None	None	None	None	None
Nominal discharge current - 15 x 8/20 μs impulses	In	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA
Max. discharge current -max. withstand @ 8/20 μs by pole	Imax	40 kA	40 kA	40 kA	40 kA	40 kA	40 kA	40 kA	40 kA	40 kA
Protection level	Up	3.5 kV	3.2 kV	2.5 kV	1.8kV	1.8kV	1.5 kV	1.3 kV	1.25 kV	0.9 kV
Admissible short-circuit current	Iscrr	25000 A	25000 A	25000 A	25000 A	25000 A	25000 A	25000 A	25000 A	25000 A
Associated disconnectors										
Thermal disconnector	Internal									
Fuses	Fuses Type gG - 50 A*									
Installation ground fault breaker	Type "S" or delayed									
Mechanical characteristics										
Dimensions	see diagram									
Connection to Network	By screw terminals: 2.5-25 mm ² / by bus									
Disconnection indicator	1 mechanical indicator									
Remote signaling of disconnection	option	option	option	option	option	option	option	option	option	option
	DS41S-690 :	DS41S-600 :	DS41S-480 :	DS41S-400 :	DS41S-385 :	DS41S-320 :	DS41S-280 :	DS41S-230 :	DS41S-120 :	
	output on	output on	output on	output on	output on	output on	output on	output on	output on	output on
	changeover	changeover	changeover	changeover	changeover	changeover	changeover	changeover	changeover	changeover
	contact	contact	contact	contact	contact	contact	contact	contact	contact	contact
Spare unit	DSM40-690	DSM40-600	DSM40-480	DSM40-400	DSM40-385	DSM40-320	DSM40-280	DSM40-230	DSM40-120	
Mounting	Symmetrical rail 35 mm (EN60715)									
Operating temperature	-40/+85°C									
Protection rating	IP20									
Housing material	Thermoplastic UL94-V0									
Standards compliance	IEC 61643-11 / EN 61643-11 / UL1449 ed.4									
Certification	UL / CSA /EAC /TUV	UL / CSA /EAC	UL / CSA /EAC	UL / CSA /EAC /TUV	EAC	UL/CSA/EAC	UL/CSA/EAC	UL / CSA /EAC /TUV	UL / CSA /EAC	UL / CSA /EAC
Part number	331801	331501	331001	3314011	331201	331901	3311011	3317011	3316011	

ZM-BFC BLACKFILL COMPOUND

⚡ BENEFITS

- ⚡ Earth Enhancement Material Tested From NABL Accredited Lab.
- ⚡ Due to conductive material improve the soil resistivity.
- ⚡ Its also increase the conductivity of Earth Electrode.
- ⚡ No maintenance.
- ⚡ Long Life.
- ⚡ Non Toxic contents.

⚡ SPECIFICATION

- ⚡ Artificial treatment compound.
- ⚡ no expansion factor.
- ⚡ Environmentally friendly.
- ⚡ Saves your electrical equipments form ground faults.
- ⚡ High corrasion resistance enhance the life of earth electrode.

⚡ PACKING SIZE

- ⚡ Its comes in 25kg , 15kg and 5kg Bags are available.

Product Code - ZM 1 BFC

QUANTITY	NO.OF BAGS
25kg.	1
15kg.	1
5kg.	1



ZM-PIT COVER

- Factory built holes for accessing strips/wires easily at two sides.
- Made of heavy duty polyethylene for extra durability
- Resistant materials, assuring long life use-life
- Green top cap matches the environment

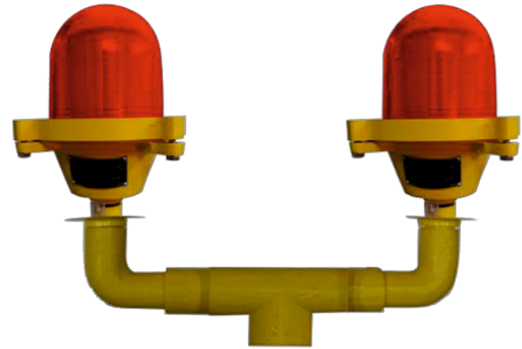
SPECIFICATION:

At Top	:	10 inches (254mm)
At Bottom	:	13 inches (330mm)
Height	:	10.25 inches (260mm)

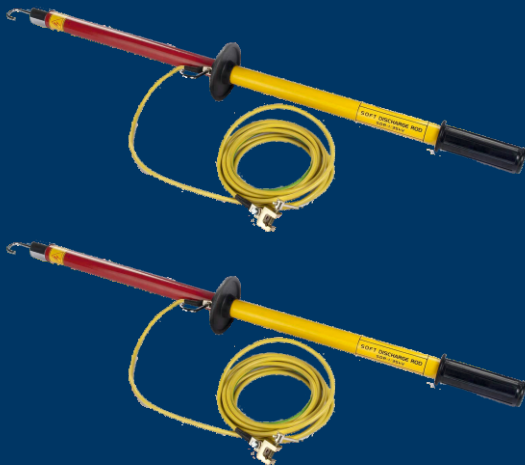


AVIATION LIGHT

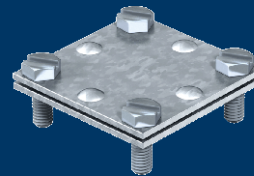
Zeme India Earthing Pvt. Ltd is a leading manufacturer of single LED Aviation Light. Aviation Lights are high intensity lights which are used to indicate the height of the building or tower to avoid aircraft collisions during night time. It is used on high-rise buildings, towers, cranes, chimneys, wind mills, mountains for signal warning of aircraft and helicopters or any flying thing. We have ready stock for Aviation Lights and these lights are available in red, white, yellow and blue colors.



EARTH DISCHARGE ROD



GI PLATE



GI WIRE



COPPER CLAMP



PROJECTS COMPLETED

Bharat Sanchar Nigam Ltd.

Hydrabad
Project Cost - Rs. 23.0 Lakh
Tenur 3 Months

Airport Authority of India (AAI)

Pan India
Project Cost - Rs. 48.0 Lakh
Tenur 4 Months



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LEGACY, TRUST & EXCELLENCE**

Longer Life | More Reliable | Easy to Install | Space Saving
Low Maintenance | Single Point Solution



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Lucknow, Uttar Pradesh - 226012

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