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सुरक्षा का  
पक्का वादा



**TRUEPOWER<sup>®</sup>**  
EARTHINGS PVT LTD

An ISO 9001:2000 Certified Company



CCI Transformer Pvt. Ltd.



## TRUE POWER EARTHINGS PVT. LTD.

### WHAT IS EARTHING?

Earthing is the process of creating alternative path for the flow of fault/excessive current safety into the ground in the presence of minimal resistance or impedance.

**PURPOSE OF EARTHING:** 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 earthed system, such leaking/fault current are carried away harmlessly while tripping the fuses. Over the years billions of dollars" worth of property has been destroyed due to electrical failures, short circuit etc. due to improper grounding system.



True power a company owned by group of dedicated engineers and R&D team. we are leading manufacturer of chemical Earthings from last 10 years. We understand that the conventional system of Earthings was unreliable inefficient cumbersome and prone to problems which resulted in human loss equipment failiure, fire resolved as well as HIGH/LOW voltage and SHOCK/SHORT circuit e.t.c. We uderstand customer requirements according that we always trying to give best solutions to our customers. We thank you for choosing TRUE POWER EARTHINGS.



**HARI OM TIWARI**  
(DIRECTOR)

TRUE POWER EARTHINGS PVT.LTD.



PRODUCT CODE:  
GI-E-001

# 1-TP GI EARTHING ELECTRODE (PIPE IN STRIP)

MODEL	LENGTH, Mtr	TERMINAL SIZE	INNER STRIP	OUTER PIPE Diameter (min) mm
48 MTPG	1, 2&3	40x6	25x3	48
58 MTPG	1, 2&3	50x6	25x3	58
88 MTPG	1, 2&3	50x6	25x3	88

- Hot dip galvanized for corrosion protection
- Designed for fast fault current dissipation
- Low maintenance on site
- Easy & Fast installation on site.
- Most suitable for soil condition with pH value 5.0 to 8.0.
- Moisture booster chemical bags provided for low earth resistance

PRODUCT CODE:  
CT-E-005

# 2-TP COPPER TERMINAL EARTHING ELECTRODE

MODEL	LENGTH, Mtr	TERMINAL SIZE	INNER STRIP	OUTER PIPE Diameter (min) mm
48 MTPCT	1, 2&3	40x6	25x3	48
58 MTPCT	1, 2&3	50x6	25x3	58
88 MTPCT	1, 2&3	50x6	25x3	88

- Hot dip galvanized for corrosion protection
- Designed for fast fault current dissipation
- Low maintenances on site
- Easy & Fast installation on site.
- Most suitable for soil condition with pH value 5.0 & 8.0.
- Moisture booster chemical bags provided for low earth resistance

PRODUCT CODE:  
CE-E-003

## 3-TP PURE COPPER EARTHING ELECTRODE

MODEL	LENGTH, Mtr	TERMINAL SIZE	INNER STRIP	OUTER PIPE Diameter (min) mm
48 MTPPC	1, 2 & 3	40x6	25x3	48
58 MTPPC	1, 2 & 3	50x6	25x3	58
88 MTPPC	1, 2 & 3	50x6	25x3	88

- Used 99.9% pure copper for long life
- Designed for fast fault current dissipation
- Low maintenances on site
- Easy & Fast installation on site.
- Most suitable for soil condition with pH value 5.0 & 8.0.
- Moisture booster chemical bags provided for low earth resistance



PRODUCT CODE:  
CB-E-002

## 4-TP COPPER BONDED EARTHING ELECTRODE

MODEL	LENGTH, Mtr	TERMINAL SIZE	INNER STRIP	OUTER PIPE Diameter (min) mm
48 MTPCB	1, 2 & 3	40x6	25x3	48
58 MTPCB	1, 2 & 3	50x6	25x3	58
88 MTPCB	1, 2 & 3	50x6	25x3	88

- Long Life
- Enhance Conductivity
- Capacity of our earth soil electrode having pH value between 5.0 to 8.0
- Tested from NABL & CPRI lab.



PRODUCT CODE:  
GI-PIP-E-006

## 5-TP GI PIPE IN PIPE EARTHING ELECTRODE

MODEL	LENGTH, Mtr	TERMINAL SIZE	INNER STRIP	OUTER PIPE Diameter (min) mm
48 MTPPG	1, 2&3	40×6	20 mm	48
58 MTPPG	1, 2&3	50×6	32 mm	58
88 MTPPG	1, 2&3	50×6	48 mm	88

- Hot dip galvanized for corrosion protection
- Designed for fast fault current dissipation
- Low maintenances on site
- Easy & Fast installation on site.
- Most suitable for soil condition with pH value 5.0 to 8.0.
- Moisture booster chemical bags provided for low earth resistance



PRODUCT CODE:  
PC-008

## 6 EARTHING PIT COVER

### SPECIFICATION:

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

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

# 7-TP BACKFILL COMPOUND

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

- Non toxic content
- Resistivity less than 0.2 ohm-water
- Its maintain conductivity without continuous presence of Maintenance
- Tested from NABL accredited lab

PRODUCT CODE:  
BFC-007



PRODUCT CODE  
ESE-LA-009

# 8-ESE

LIGHTNING ARRESTER  
(MADE IN TURKEY) MAKE ATS

### Protection Radius

According to NF C 17 102:2011, the standard protection radius (R) of the ESE is linked to ΔT (below). The protection radius of an ESE is related to its height (h) relative to the surface to be protection.

Protection Level	Level I D=20			Level II D=45			Level III D=60		
	25	40	60	25	40	60	25	40	60
ΔT μs	25	40	60	25	40	60	25	40	60
Model	lon Streamer 1.0	lon Streamer 1.3	lon Streamer 1.5	lon Streamer 1.0	lon Streamer 1.3	lon Streamer 1.5	lon Streamer 1.0	lon Streamer 1.3	lon Streamer 1.5
h (m)									
2	17	23	32	23	30	40	26	34	44
3	25	35	48	34	45	59	39	50	65
4	34	46	64	46	60	78	52	67	87
5	42	58	79	57	75	97	65	83	107
6	43	59	79	58	76	97	66	84	107
7	44	59	79	59	76	98	67	87	108
10	45	60	80	60	77	99	68	88	109

r (m) 20m for protection level I  
30m for protection level II  
45m for protection level III  
60m for protection level IV

Δ (m) Δ=ΔT X 10<sup>6</sup>  
Field experience has proved that is equal to the efficiency obtained during the ESE Air Terminal evaluation tests.



PRODUCTS

Where h>5m, then R, can be calculated from

$$R, (h) = \sqrt{2rh-h^2+\Delta(2r+\Delta)}$$

Where 2m < h < 5m, then R, can be calculated from

$$R, = hxR,(5)/5$$

R, (h) (m) is the protection radius at a given height h

h (m) is the height of the ESE air terminal tip over the horizontal plane through the furthest point of the object to be protected

CHEMICAL EARTHING ELECTRODE  
CERTIFIED AND TESTED BY:  
ISO CERTIFIED 9001:2008 COMPANY



NABL  
ISO / IEC 17025  
Accredited

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