



#### **ABOUT US**

SG POWER is one of the major Manufacturer of the Earthing & Lightning Protection Equipments, HDPE and Other Electrical Products.

We are one of the Largest Manufacturer of Copper Bonded Rods and Capable of Manufacturing upto 6 m Long Ground Rods,

We Have huge array of sturdy and durable products comprises Plastic Pit Cover/ Chamber box with Lids, Multipurpose Trefoil Clamps, Water Meter Boxes, Compresion elbow for Municipal corporation, Battery Boxes for Solar, Enclosures for Opctical Fiber Cable, Valve Boxes in Irrigation, Customized Solution for Swachchh Bharat Abhiyan, We have employed a team of knowledgeable and skilled professionals who can understand customer specific requirements and able to develop/ provide customized solution accordingly.

SG Power has rich experience of Approx a decade in the business of manufacturing of HDPE/ FRP industrial products. Our state-of-the-art infrastructural base is well equipped with the advanced technology machines help in manufacturing finest quality products in bulk.

#### VISION & MISSION

With our customer centric approach, we believe in establishing ourselves as a customer-centric organization with a focused approach to deliver best quality products with cuttingedge solutions to meet and exceed the expectations of our customers. Our mission is tostrive relentlessly, to constantly improve ourselves, our teams, our services and products so as to become the best.

#### **OUR CERTIFICATIONS**

We are an ISO 9001:2015 certified organisation along with RoHS certifications. Also, we are registered with MSME & SSI which definitely enhances our incredibility and credentials and makes us more dependable for our customers.



Our products have been tested and approved by National & Inter National bodies likeCPRI, UL, RoHS etc. Owing to high quality of our finished products, we have also received the CE Certification.



















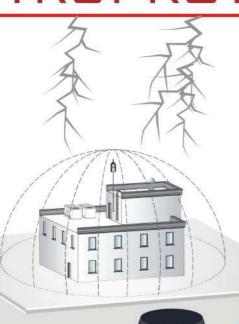






## COMPREHENSIVE PROTECTION FORMULA

## ENHANCED PROTECTION TRUPROTEKT™



EXTERNAL LIGHTENING PROTECTION
THUNDER GUARD™



TEP 3

TRANSIENT VOLTAGE SURGE PROTECTION
SURGE PROTEKT\*\*



STEP 2

SAFE GROUNDING SYSTEM TRUSAFETM









## LIGHTNING AND SURGE PROTECTION

SEFE GROUND

SEFE GROUND

FROM FRIVATE LIMITED

EVALUATION OF THE SHAPE OF THE SHAP



COMPLIANCE TO IEC 62305, BS EN 62305

#### **CONVENTIONAL LIGHTNING ARRESTER**

#### AIR TERMINAL

The Primary function of an air terminal is to capture the lightning strike to a preferred point, so as to ensure that the discharge current can be safely directed through the down conductor to the dedicated earthing.

#### **DOWN CONDUCTORS**

The purpose of a down conductor is to provide a lowest impedance path from the air terminal to the earthing so that the lightning current can be safely conducted to ground. Down conductor routes should be as direct as possible to earth, avoiding sharp bends or turns so as to minimize the risk of side flashing where impedance/inductance is increased under impulse conditions.



Each down conductor must have a separate earthing. It is recommanded that all individual lightning earths should be bonded together to minimize earth voltage in turn all lightning earths should be bonded to surrounding facility earths.

LENGTH (M)	DIA (MM)	MATERIAL
1	14	COPPER BONDED STEEL
1.2	14	COPPER BONDED STEEL
1	14	G.I.
1.2	14	G.I.

LENGTH (M)	DIA (MM)	MATERIAL
1	16	COPPER BONDED STEEL
1.2	16	COPPER BONDED STEEL
1	16	G.I.
1.2	16	G.I.



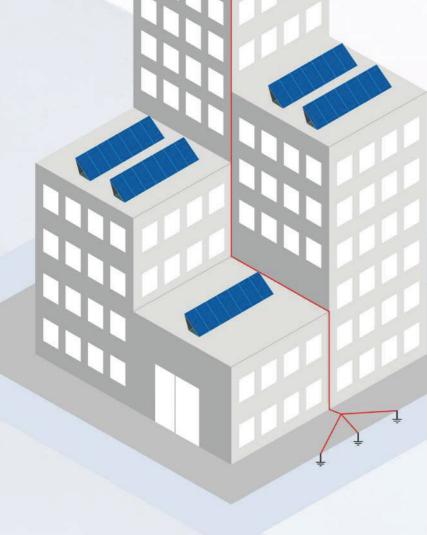
### **ESE LIGHTNING ARRESTER**

The Principle of Operation of an Thunder Guard terminal is to create an upward streamer earlier than conventional air terminals or other objects on the earth. Thunder Guard SGLPS does this by collecting and storing ground charge during the initial phase of a thunderstorm development and emits strong and consistent upwards streamers to intercept leaders.





1	PRODUCT NAME	ESE LIGHTNING ARRESTER
2	PRODUCT MODEL	SGLPS-60
3	WIDTH	123 мм
4	LENGTH	345 мм
5	WEIGHT	4 KG
6	HEAD NEEDLE	115 мм
7	CONNECTING NUT SIZE	M20
8	BASE MATERIAL	Ss304
9	LIGHTNING MAXIMUM	250KA
10	TRIGGERING TIME	60μs
11	CPRI TESTED	40KA IMPULSE
12	COVERAGE	60µS P. RADIUS 107м.





## ESE LIGHTNING ARRESTER

The Principle of Operation of an Thunder Shield terminal is to create an upward streamer earlier than conventional air terminals or other objects on the earth. Thunder Shield SGLPS does this by collecting and storing ground charge during the initial phase of a thunderstorm development and emits strong and consistent upwards streamers to intercept leaders.





## ESE LIGHTNING ARRESTER

The Principle of Operation of a Cosmos LPS Certified by NFC and CPRI. Is to create an upward streamer earlier than conventional air terminals or other objects on the earth. COSMOS G2 (CG 60)does this by collecting and storing ground charge during the initial phase of a thunderstorm development and emits strong and consistent upwards streamers to intercept leaders.





## LIGHTNING STRIKE COUNTER

Lightning Strike Counter detects the electrical energy that is derived to the ground through counter when a lightning impact occurs. The device registers each impact incrementing the counter in one unit each time. It must be installed in the down conductor that connects the lightning rod to the grounding system. It does not use any type of power supply because it uses the electric energy of the lightning (induced voltage at the moment of the discharge deviation to ground). The Lightning Strike Counter is a Device designed to detect lightning strikes.









**ANALOG COUNTER** 

**DIGITAL COUNTER** 

#### **TECHNICAL SPECIFICATIONS:**

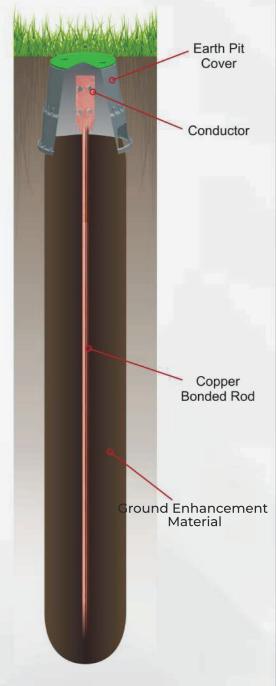
- Lightning Strike Counter
- Range of Intensity 1 kA (8/20ps) 100 kA (10/50ps)
- Range of register from 0 to 999999 impulses.
- Working temperature from-20°C to 65°C
- Protection degree IP 65



## COPPER BONDED GROUND RODS THEFT DETERRENT RODS

SGPL is a leading manufacturer of ground rods and offers a complete range of ground rods to accommodate various types of customer needs. SGPL copper-bonded ground rods are the highest quality ground rods available today. We use a unique manufacturing process, a continuous electro-plating process over the steel core that results in a permanent molecular bond that provides decades of reliable performance. Our state-of-the-art ISO registered manufacturing facility provides a consistent, high-quality finished products.

Copper Bonded ground Rods are highly desirable product known for its great performance. These low carbon, molecularly bonded mild steel rods are manufactured, comprising 99.99% pure electrolytic copper coating of upto 250 microns. Thus makes this a optimal combination of high tensile strength and remarkable conductivity of the entire system. Based on solid rod technology, copper bonded rods are electrically and mechanically robust solution complying national & international standards such as IS 3043, 62561-2,UL467 Copper bonded Ground rods are available from in various diameters and Length from 1 m. to 6 m.

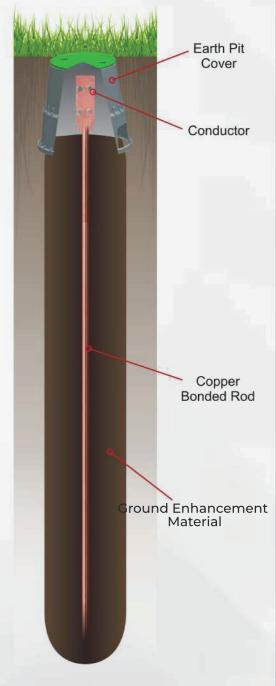




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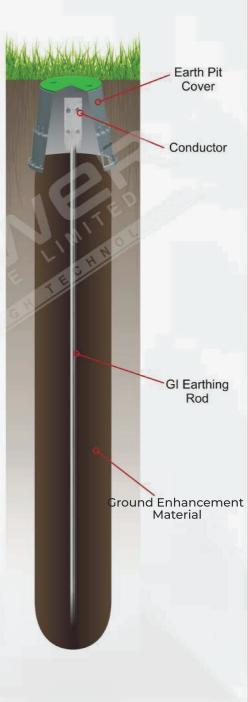
#### GI EARTHING RODS COMPLYING - IS 3043

The GI rods are highly appreciated and recognized worldwide due to its better working life. Based on solid rod technology, the G I Rods are electrically and mechanically robust solution complying national & international standards. We recommend using GI ground rods in most soil conditions, because the GI coating will not slip or tear when driven, nor will it crack if the rod is best, GI ground rods have a high tensile carbon steel core and they provide allow resistance path to ground.

Part Name	GI Earth Rods (NB-17mm)
Part No.	length (mm)
GIR17SG100	1000
GIR17SG200	2000
GIR17SG300	3000

Part Name	GI Earth Rods (NB- 20mm )
Part No.	length (mm)
GIR20SG100	1000
GIR20SG200	2000
GIR20SG300	3000

Part Name	GI Earth Rods (NB- 25mm )
Part No.	length (mm)
GIR25SG100	1000
GIR25SG200	2000
GIR25SG300	3000











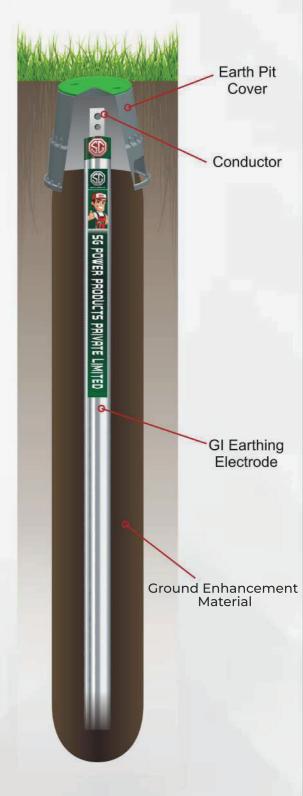
#### CHEMICAL EARTHING ELECTRODES

#### GI EARTHING ELECTRODE

COMPLYING - IS 3043

We are the one stop solution provider in manufacturing world class Chemical Earthing Electrode which offer superior quality grounding systems. The chemical earthing electrodes are designed on the principle of pipe-in-pipe and flat-in-pipe technology. Our maintenance free and safe earthing electrodes are available in a variety of designs and specifications to meet the requirement of the clients. We are offering wide range of earthing electrodes.

We are the prime manufactures of GI Electrodes as per IS 3043 with superior manufacturing quality. We offer wide range of chemical earthing electrodes in variety of dimensions with dia size upto 88 mm to langth upto 3 meters. A maintenance free earthing electrodes with good electrical conductivity suitable for every soil type.





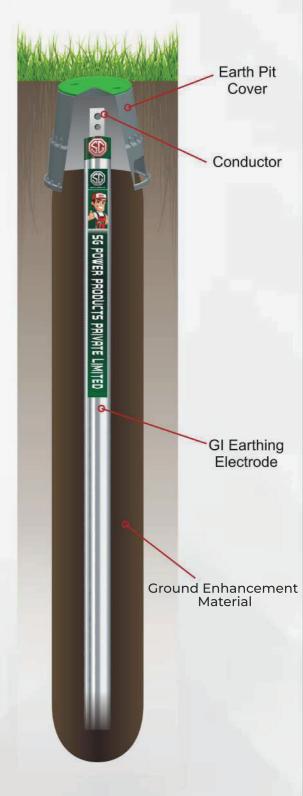
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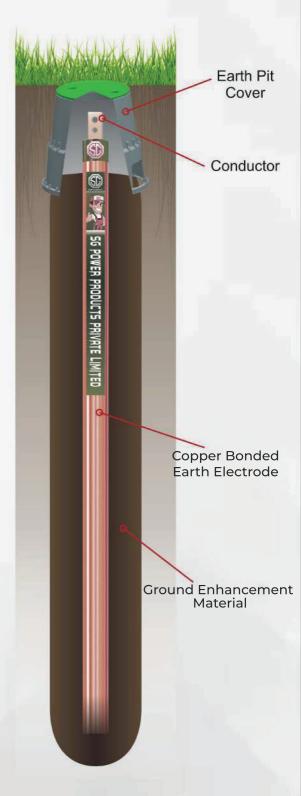
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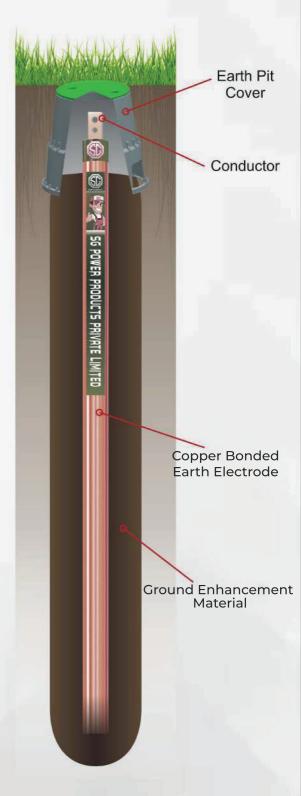


## COPPER BONDED ELECTRODE COMPLYING - IS 3043





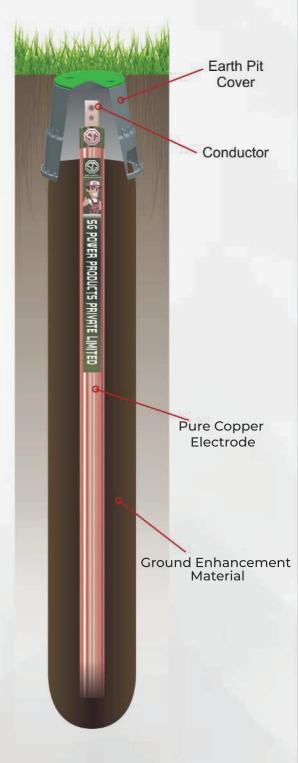
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CHEMICAL EARTHING ELECTRODES

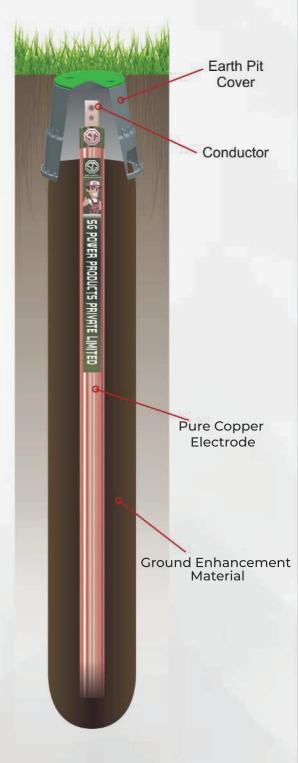
## PURE COPPER EARTHING ELECTRODE COMPLYING - IS 3043





CHEMICAL EARTHING ELECTRODES

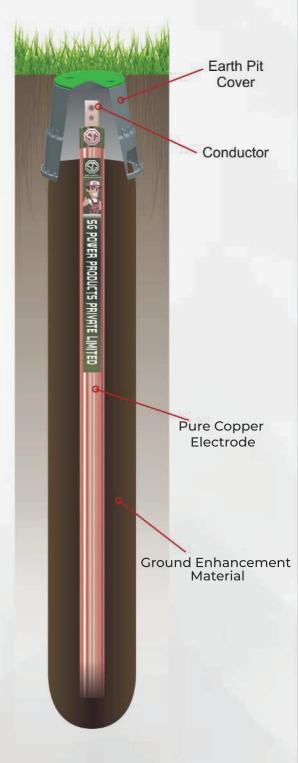
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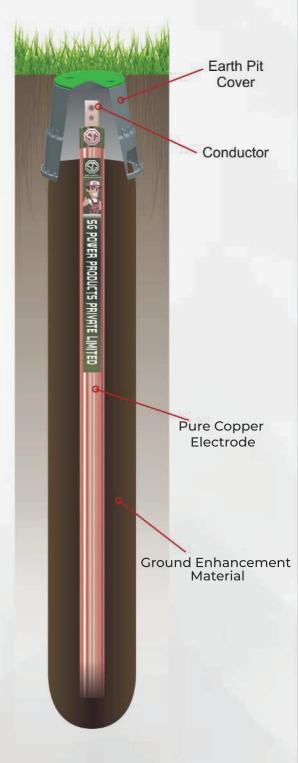
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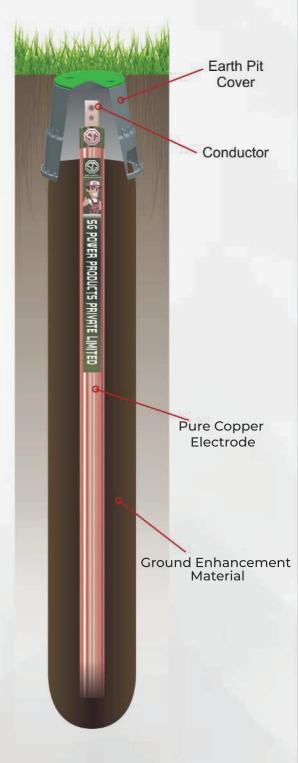
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CHEMICAL EARTHING ELECTRODES

## PURE COPPER EARTHING ELECTRODE COMPLYING - IS 3043





CHEMICAL EARTHING ELECTRODES

#### PURE COPPER EARTHING ELECTRODE COMPLYING - IS 3043

Part Name	Pure Copper Electrode (NB- 50mm )	
Type 1		
Part No.	length (mm)	Electrode shell
PCE50CG100	1000	Light duty
PCE50CG200	2000	Light duty
PCE50CG300	3000	Light duty

Part Name	Pure Copper Elect	rode (NB- 50mm )
Type 2	W) 50	
Part No.	length (mm)	Electrode shell
PCE50SG10	0 1000	Medium duty
PCE50SG20	2000	Medium duty
PCE50SG30	3000	Medium duty

Part Name	Pure Copper Electrode (NB- 50mm )	
Туре 3	Jal 22	
Part No.	length (mm)	Electrode shell
PCE50HG10	0 1000	Heavy duty
PCE50HG20	0 2000	Heavy duty
PCE50HG30	0 3000	Heavy duty

Part Name	Pure Copper Ele	ctrode (NB- 76mm
Type 1	242	
Part No.	length (mm)	Electrode shell
PCE76CG10	0 1000	Light duty
PCE76CG20	0 2000	Light duty
PCE76CG30	0 3000	Light duty

Part Name	Pure Copper Electrode (NB- 76mm)	
Type 2		
Part No.	length (mm)	Electrode shell
PCE76SG100	1000	Medium duty
PCE76SG200	2000	Medium duty
PCE76SG300	3000	Medium duty

Part Name	Pure Copper El	ectrode (NB- 76mm
Туре 3		Yall
Part No.	length (mm)	Electrode shell
PCE76HG10	0 1000	Heavy duty
PCE76HG20	0 2000	Heavy duty
PCE76HG30	0 3000	Heavy duty

Part Name	Pure Conner Fle	ctrode (NB- 88mm )
Type 1	T and dopper and	otrodo (no oomin
Part No.	length (mm)	Electrode shell
PCE88CG10	1000	Light duty
PCE88CG20	2000	Light duty
PCE88CG30	3000	Light duty

Part Name	Pure Copper Elec	ctrode (NB- 88mm )	
Type 2	pe 2		
Part No.	length (mm)	Electrode shell	
PCE88SG10	0 1000	Medium duty	
PCE88SG20	0 2000	Medium duty	
PCE88SG30	0 3000	Medium duty	

Part Name	Pure Copper Elec	ctrode (NB- 88mm	
Type 3			
Part No.	length (mm)	Electrode shell	
PCE88HG10	00 1000	Heavy duty	
PCE88HG20	00 2000	Heavy duty	
PCE88HG30	00 3000	Heavy duty	

1.









### PORTABLE MOBILE EARTHING SYSTEM



## PORTABLE MOBILE EARTHING ELECTRODE

LENGTH - 1.2 MTR. & DIA - 65 MM

Mobile Earthing Electrode is a convenient way for all mobile Electrical, Electronic & communication equipments for Earthing / Grounding, it is a need for mobile equipments used in the Defence, Space programs, Telecommunication and Construction sites. Mobile Earth provides efficient & fast method for Eathing / Grounding.

#### Installation procedure For vertical setting

- » Dig approx.. 100 mm dia hole 1.2 mtr deep
- » Place Mobile Electrode inside the hole so that the handle is above the ground
- » Fill the hole with loose earth slurry
- » At the end of operations, pull the mobile electrode out of the ground.
- » Clean it mildly & repack for further usage.

#### Installation procedure For Horizontal setting

- » Dig approx.. 300 mm wide & 600 mm deep 1500mm long trench
- » Place Mobile Electrode inside the hole so that the handle is above the ground
- » Fill the hole with loose earth slurry
- » At the end of operations, pull the mobile electrode out of the ground.
- » Clean it mildly & repack for further usage.

#### **Technical Parameters**

Vertical setting-Resistance 32 % of soil resistivity
Horizontal setting-Resistance 21 % of soil resistivity
Capability of unbalance current withstanding 6.5 A
Short term duty for 1 sec 600 A

#### Material

Outer body SS 304 L
Primary Electrode SS pipe/250 micron copper coated MS rod

#### Infill Compound

Presentation — Granular 0.2 mm to 2.5 mm

Colour / smell — Grey / Indorous

Ph value — 6.8 to 7.3 of 1000 gm/lit at 15 Degree C

Apprx. Number of operations — 50 Times or 2 Years whichever is earlier – After this the refilling of mobile electrode is required

In case the operational parameters are exceeding the limiting parameters of mobile electrode, multiple systemcan be connected in parallel in either horizontal or vertical setting.



## EXHOTHERMIC WELD SYSTEM



- « COMPLYING IEEE80, NBC 2016
- « MERITS OVER
  BOLTING / BRAZING / WELDING
- « CONNECTION DOES NOT LOOSE OVER A PERIOD OF TIME
- « HIGHER MECHANICAL STRENGTH OVER OTHER TYPE OF JOINTS
- « DOES NOT CORRODE, ORGANIZE WITH TIME. THIS OFFERS LONG LIFE.
- « TEMPERATURE BEARING CAPACITY IS COMPARATIVELY VERY HIGHLY MAX 1000°C





### HEAVY DUTY PLASTIC & HDPE PRODUCTS

Safe GROUND



EVOLUTION INROUGH IECHNOLOGY



## HEAVY DUTY ENCLOSURE



www.sgpower.co.in



## strenght and performance











#### **HEAVY DUTY ENCLOSURE**

## A fit for EVERY SITUATION



for easy removal of lid



#### **CORRUGATED SIDES**

for greater strength before and after knock-outs are removed.

PIPE HOLE KNOCK-OUTS

built into the sides.

#### **DIMENSIONS (mm)**

T	OP
LENGTH	440
WIDTH	310

BOTTOM		
LENGTH	520	
WIDTH	400	

HEIC	SHT
HEIGHT	310





Can be handled by 1 person







MORE COLOR OPTION



FITS ANY APPLICATION





- HIGH-STRENGTH
  - DURABLE
    - MODIFIABLE



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## HEAVY PERFORMANCE REINFORCED FOR LONG LASTING













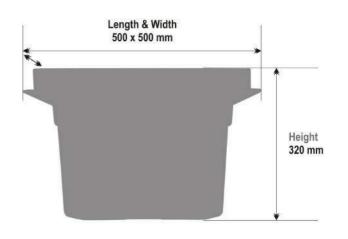
	-
Colour	BLACK
LOAD BEARING CAPACITY	Uрто 8 МТ
MATERIAL USED	HDPP
LID LOCK SYSTEM	YES (ALLEN BOLT)
UV RESISTENT	YES
ECO FRIENDLY	YES
TEMPERATURE	5 то 75°С
NO OF OPENINGS	2-4 OPENINGS FOR EARTHING STRIP

#### SQUARE SHAPE EARTH PIT CHAMBER

#### **DIMENSIONS (mm)**

TC	)P	HEIG	НТ
LENGTH	500	HEIGHT	320
WIDTH	500		











MORE COLOR OPTION



FITS ANY APPLICATION





## EAVY PERIORNANCE

REINFORCED FOR LONG LASTING











### **TRULAST**



#### PERFORMANCE AND

### **OUTSTANDING VALUE**

#### **DIMENSIONS (mm)**

	TOP DIA	BOTTOM DIA	HEIGHT	LENGTH	WIDTH
EPC-02	240	315	275	_	_
EPC-03	270	345	270	_	_
EPC-04	_	_	255	320	320









MADE IN INDIA MORE COLOR OPTION

FITS ANY APPLICATION

MORE SIZE OPTION





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## HEAVY PERFORMANCE REINFORCED FOR LONG LASTING









MADE IN INDIA

MORE COLOR OPTION

FITS ANY APPLICATION

MORE SIZE OPTION











### CAST IRON EARTH PIT COVER





- HIGH-STRENGTH
  - DURABLE

DIMENSIONS (mm) 300x300x25

www.sgpower.co.in

## HEAVY PERFORMANCE REINFORCED FOR LONG LASTING











MORE SIZE OPTION















## TREFOIL CLAMP

SGP Trefoil clamps are used for keeping three single core cables in trefoil arrangement which helps to maintain magnetic symmetry thereby to aboid current loss and the heating of electromagnetic.

SGP Trefoil clamps have been manufactured by molding process from Virgin Glass Filled Nylon materials. Glass filled nylon materials are used to increase the flexibility of the clamp & to avoid the breaking of clamps from the hook while the tightening procedure of the three single core cables



	CLAMPING	RANGE
SIZE	FROM - MIN.	UPTO - MAX.
OUR ITEM CODE NO.	EM CODE NO. CABLE O.D. IN MM CABLE O.D. I	
TCSG01	30.0	33.0
TCSG02	41.0	44.0
TCSG03	53.0	56.0
TCSG04	65.0	68.0



#### **OUR CLIENTS**











































































... Many More