



MANUFACTURER OF CHEMICAL EARTHING AND OTHERS TYPE OF ELECTRODES

YOUR ULTIMATE SOLUTION FOR EARTHING

OUR CUSTOMER



CHEMICAL EARTHING ELECTRODE
CERTIFIED AND TESTED BY:
ISO CERTIFIED 9001 : 2015 COMPANY

Approved by :



Authorised Distributor / Dealers Stamp & Telephone No :



Regd. Off : Behala, Kolkata, West Bengal
Website : www.sbeearthing.in
Email : info@sbeearthing.in



SBE
ISO
NATIONAL TEST HOUSE
GOVT. OF INDIA CERTIFIED

Dear Customer,
S B E proud to launch a unique & only solution in the EARTHING, with our product....

EARTHING SOLUTION MAINTENANCE FREE GEL EARTHING ELECTRODE (G.E.E)

To have a good earth resistance has always been a problem in soils of poor electrical conductivity. This grounding improvement product is designed to reduce the soil resistivity locally and therefore improve the resistance of the grounding system.

SBE “Earthing Electrode” is the only product in its segment

What is SBE “Earthing Electrode”?

Maintenance free SBE Earthing Electrode by utilizing metal alloys and natural chemical Gel compositions, the Gel Earthing Electrode is able to provide a multifaceted proactive earthing protection strategy. The Earthing Electrode is manufactured from custom-made G.I tubes to ensure maximum conductivity and prolonged service life. The Gel Earthing Electrode contains a conductor rich crystalline mixture that will protect the main earth electrode in the soil. This will ensure a highly conductive state for the fault current to pass on to earth.

Earthing is very important area of electrical engineering maintenance. Generally, people forget about earthing once it is installed, no one checks it unless and until something goes wrong and finds fault in earthing. In most cases, it fails due to corrosion of the pipe. Therefore Earthing Electrode can be used for effective earthing, which will ensure safety to human life, appliances, machines, equipments etc., Earthing is essential and it is mandatory by various electrical departments.

In the present day high-tech scenario, most of the machines are solid state controlled, relay logic system have change over to solid-state logic systems and microprocessor based control systems. A good and continuous effective earthing is of paramount importance. SBE Earthing Electrode is the most effective product for earthing.

When one considers the added benefits of greater personal and equipment safety, reliability, current load capacity discharge path for short circuits, fault current, stable earth values, low resistance Maintenance free SBE Earthing Electrode up to many years and is the most effective product for earthing.

Thus SBE Earthing Electrode is a totally maintenance free solution for many years and is suitable to any application requiring high performance earthing. We follow IS 3043 (1987): Code of practice for earthing |ETD 20:Electrical Installation!.

FEATURES :

1. Revolution in Earthing Technology for domestic, Industrial LT & HT Users.
2. Very simple, totally maintenance free i.e. Fit & Forget Installation.
3. Corrosion Proof, Weather Proof, Water resistance, Maintenance Free, Highly Durable, Life saving & Cost Effective Solution for the lifetime.
4. Proper earthing ensures longer life for all electrical & electronic equipments.
5. Fluctuation of OHMIC value is least (Within Safe Limits).

Comparison between the Traditional Method of Earthing and MAINTENANCE FREE Earthing Electrode

Sl.	Traditional Method of Earthing.	Maintenance Free SBE Earthing Electrode
1	One G.V.C.I Pipe of a particular diameter.	There are strip in pipe with Gel, one inside the other i.e.. GEL TYPE EARTHING.
2	The Earth Electrode is in direct contact with the soil.	The Maintenance Free Gel Earth Electrode is not in direct contact with the soil.
3	Liable to fast corrosion, subsequent decay of the earthing pipe / plate.	Absence of Corrosion.
4	Fluctuation of OHMIC value is more, resulting in frequent maintenance of gadgets / machines and may endanger human We too.	
5	Galvanization is not adequate.	
6	Charcoal & Salt will disappear after 1 or 2 raining season thus Earthing value will be increased every year, and value will become very high.	
7	Summer Season Damage of Epyption in the chances are more Due to increase tiie resistance value)	Back Fill Compound 25Kg. & 15Kg.



INSTALLATION

Installation method of S B E Earthing Electrode:

1. Augur/Drill / Bore a hole of 6-8 Inch in diameter at a place where earthing is to be done, to a suitable depth of 2-3 meters (Electrode Length)
2. Place the Earthing Electrode inside the pit.
3. Mix the back fill compound nicely with the soil, which has been dug out.
4. Re-fill the empty space around the Earthing Electrode with this compound mix soil.
5. While re-filling the space, pour adequate water in the PIT intermittently.
6. Pack the soil around the Electrode tightly and nicely.
7. Again, pour adequate water at least 3-4 feet around the Earthing Electrode.
8. Test the earth resistivity of the Electrode and if the result is satisfactory, then connect it with the equipments.
9. If the result is not satisfactory, then allow the Electrode some time (2/3 weeks) for setting of the soil and then check it & connect it.
10. If the soil is of high resistivity i.e. Semi rocky or rocky soil, use back - fill compound only for refilling the PIT.

BACK FILL COMPOUND:

It is a specially developed compound which is capable of absorbing and retaining the moisture for 20 times to its dry volume, it reduces the soil resistivity, to some extent it helps in faster dissipation of fault current, least fluctuation of ohmic value and it eliminates the use of salt, charcoal etc. around the earthing electrode. It is a combination of natural earth minerals & CCM (Crystalline Conductive Minerals) with graphite powder. Its having the natural properties to make a grip with any metal, when it comes with the contact of water. It is totally corrosion free eco-friendly earth enhancement compound.

Composition of BACK-FILL-COMPOUND:

S.NO.	Ingredients
1	Graphite Powder 90 ID
2	Bentonite
3	CCM
4	Carbon Ore
5	Ammonium Chloride
6	Black Soil (for rocky area)

CAUTION:

Do not drop the Earthing Electrode.
Do not subject it to any kind of driving force.
Do not hammer it while installing the Electrode.
Do not use it other than the purpose of Earthing.
Remove the thin plastic cover before installing the Electrode.
Always place the Electrode keeping the connecting terminal on top.
Apply petroleum jelly over the exposed part (Terminal) of the Electrodes to safe guard it against the corrosion.

PRODUCT CODE :

GI EARTHING ELECTRODE

Hot deep Galvanize : Strip in Pipe

1 SBE - 20 (Length - 3000 mm / 80 mm Dia

1 SBE - 30 (Length 2000 mm / 80 mm Dia

1 SBE - 40

1 SBE - 50

1 SBE - 60

1 SBE - 70



PRODUCT CODE :

COPPER TERMINAL EARTHING ELECTROD

Hot deep Galvanize : Strip in Pipe

1 SBE - 20 (Length - 3000 mm / 80 mm Dia

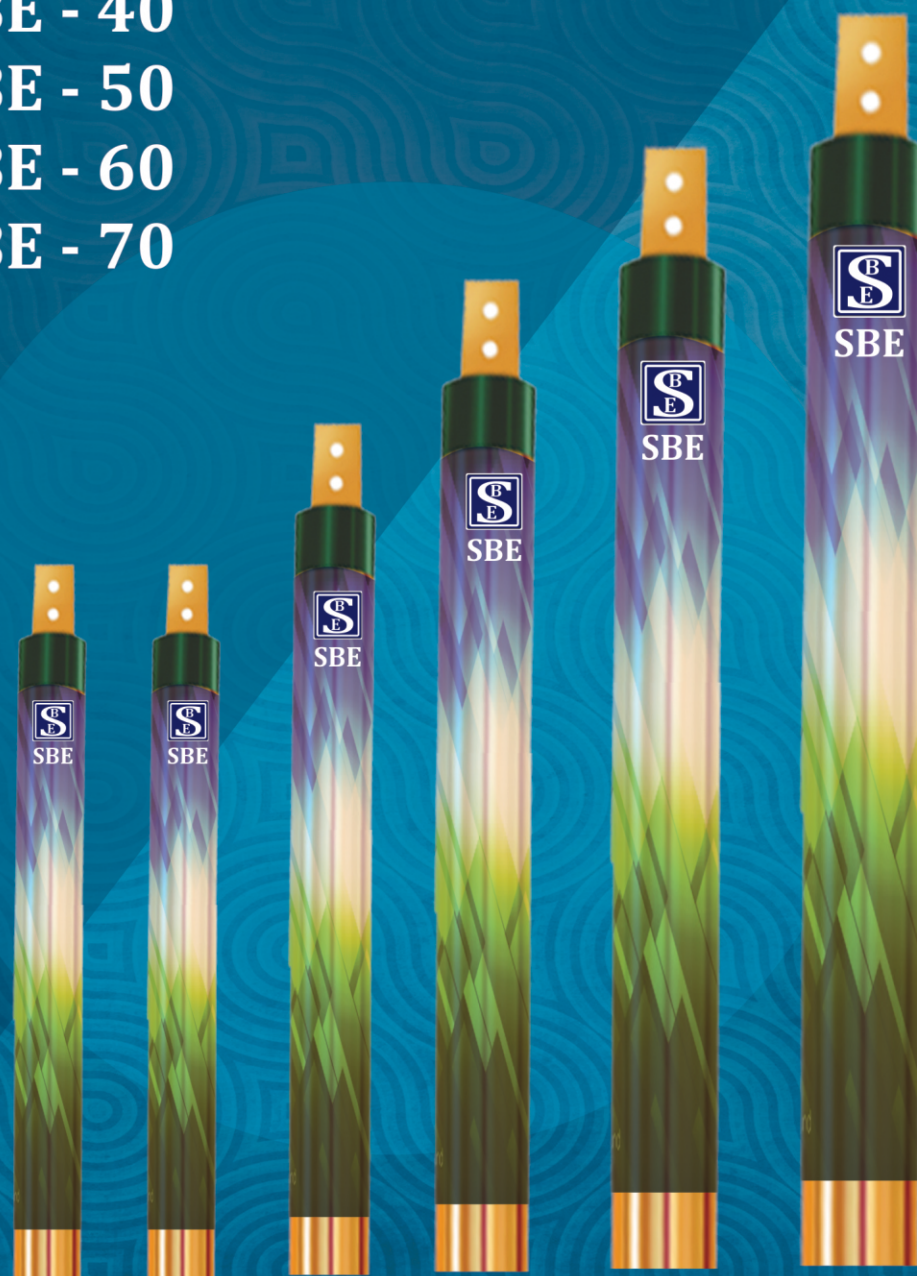
1 SBE - 30 (Length 2000 mm / 80 mm Dia

1 SBE - 40

1 SBE - 50

1 SBE - 60

1 SBE - 70



PRODUCT CODE :

1 SBE - 40

SBE COPPER BONDED ROD

- Copper Bonded Rod are available in 100 and 250 micron coating.
- UL Listed and Certified.

MODELS	Rod Diameter (mm)	Length (mm)	Copper Bonding
SBE 14.2/1 CBR	14.2	1000	250 MICRON
SBE 14.2/2 CBR	14.2	2000	250 MICRON
SBE 14.2/3 CBR	14.2	3000	250 MICRON
SBE 17.2/1 CBR	17.2	1000	250 MICRON
SBE 17.2/2 CBR	17.2	2000	250 MICRON
SBE 17.2/3 CBR	17.2	3000	250 MICRON
SBE 23.2/2 CBR	23.2	2000	250 MICRON
SBE 23.2/3 CBR	23.2	3000	250 MICRON
SBE 25/2 CBR	25	2000	250 MICRON
SBE 25/3 CBR	25	3000	250 MICRON



PRODUCT CODE :

1 SBE - 30

COPPER / SPIKE LIGHTNING ARRESTER

- Standard : IEC - 62305
- Material : Copper
- Technology : Conventional Type

DIAMETER	LENGTH
16mm (Solid Rod)	1 mtr
16mm (Solid Rod)	2 mtr
25mm (Hallow Pipe)	1 mtr
25mm (Hallow Pipe)	2 mtr

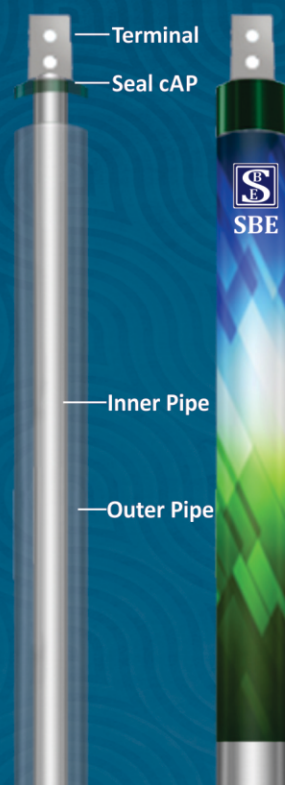


PRODUCT CODE :

1 SBE - 40

GI EARTHING ELECTRODE

Hot deep Galvanize : Strip in Pipe
(Length - 2000 mm / 80 mm Dia



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

- Used 100% copper for long life.
- 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 & 8.0.
- Moisture booster chemical bags provided for low earth resistance.

PRODUCT CODE :

1 SBE - 30

EARTHING PIT COVER (FRP & POLYPLASTIC)

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 tow sides.
- Made of heavy duty polyethylene for extra durability
- Resistant materials, assuring long life use-life.
- Green top cap matches the environment.



SHRI BAJRANG ENTERPRISE

A Company formed by a group of skilled and hard- working R & D Team Henceforth. We have Transitioned in to a leading manufacturer of Earthings over the last 12 years Probing future, we noticed that the so-called conventional earthing systems were abnormal behaviour - prone, inefficient, Unmanageable and prone to persistent problems (Every now and Then), Resulting in tragic & Sudden Human Loss (Even Fatality) as well as Equipment Malfunction, Fire Resolution, Unstable Voltage and Shocks / Short Circuits. Understanding Customer Necessities, We Accordingly strive to Attain Optimum Output, Hassle free our Clientele. A Big thank you to all our Existing Customers for a choosing **SHRI BAJRANG ENTERPRISE**

RADHIKA DEVI

Proprietress

SHRI BAJRANG ENTERPRISE

INTRODUCING OURSELVES

We SBE, A Group of the leading Organization in the field of earthing electrode SEB Earth Electrode and back fill compound material which is a superior product with reasonable price in the Indian Market. We proudly announce that our product is running sales factory in leading oil company (Bharat Petroleum, HPCL, Indian Oil, NRL & Jindal Sheet, We are also supplying our product to Indian Railway.

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