

# The Electric Merchants' Association

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## 86<sup>th</sup> ANNUAL GENERAL MEETING

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Thursday, 22<sup>nd</sup> June, 2023 | 4:30 pm

BCA Banquet Hall, 2<sup>nd</sup> Floor, Vinoo Mankad Road,  
Churchgate, Mumbai 400020.

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### NOTICE

Members of the Association are hereby informed that as per the requirement under the rule, 18 of the Rules & Regulations of the Association, the 86<sup>th</sup> Annual General Meeting (AGM) of the members of the Association for the year 2022-2023 will be held on Thursday, 22<sup>nd</sup> June, 2023 from 4:30 pm onwards at BCA Banquet Hall, Churchgate to transact the business as per the Agenda.

# The Electric Merchants' Association

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## 86<sup>th</sup> ANNUAL GENERAL MEETING

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### EVENT SCHEDULE

- 4:30 pm to 5:45 pm : Fellowship, Product Display by Precision and High Tea
- 5:45 pm to 7:00 pm : 86<sup>th</sup> Annual General Meeting
- 7:00 pm to 8:15 pm : Seminar on **Sudden Cardiac Arrest Resuscitation by Dr. Sumaiya Raghavan** of Revive Heart Foundation Heart (iCare)
- 8:15 pm to 8:30 pm : Outgoing President's Speech, Induction of 79<sup>th</sup> President
- 8:30 pm to 8:55 pm : Incoming President's Address
- 8:55 pm to 9:00 pm : Vote of thanks
- 9:00 pm onwards : Dinner
- 

### EVENT PARTNERS



Pipes & Fittings



# The Electric Merchants' Association



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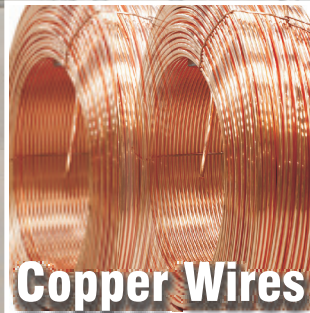
## EARTHING MATERIALS



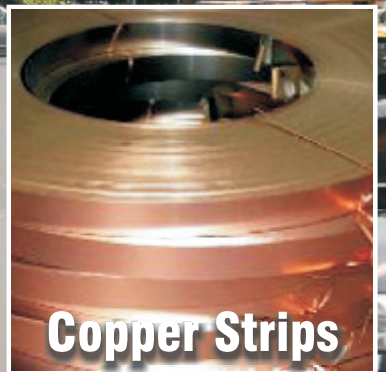
**Copper Plates**



**Copper Lighting Arrestors**



**Copper Wires**

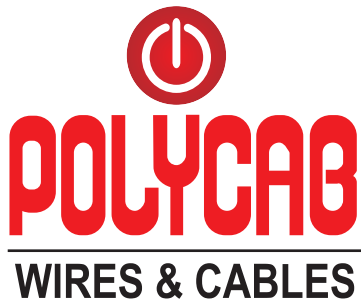


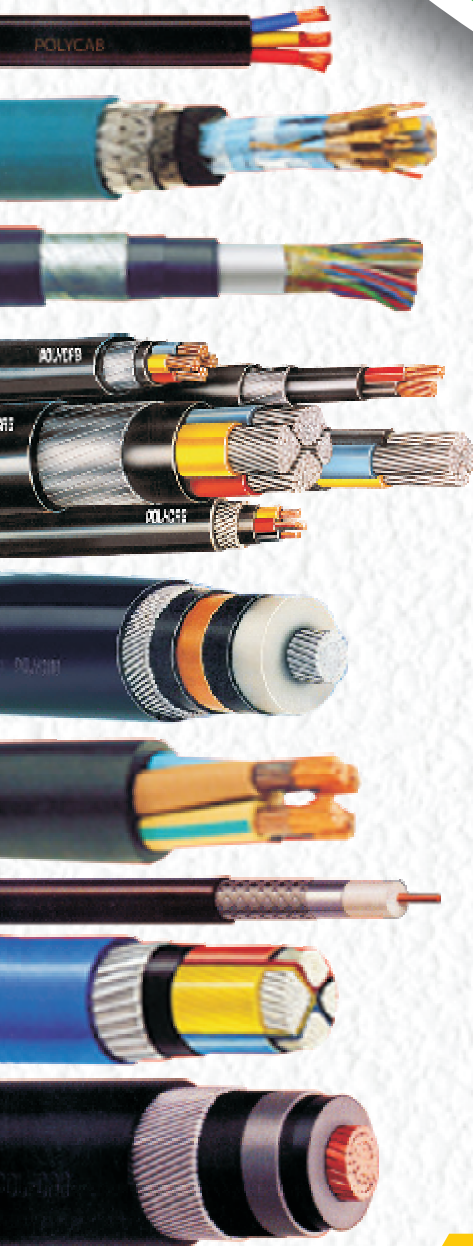
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# The Electric Merchants Association



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## AFFILIATION



**IMC**  
Chamber of Commerce and Industry



## BANK DETAILS

Bank Name : UNION BANK OF INDIA  
Branch : PRINCESS STREET  
A/C. No. : 319102010077272  
IFSC CODE : UBIN0531910

Bank Name : HDFC BANK  
Branch : CRAWFORD MARKET  
A/C. No. : 50200056831717  
IFSC CODE : HDFC0000143

## UPCOMING JOURNAL



## UPCOMING EVENTS

# 86<sup>th</sup> ANNUAL GENERAL MEETING

# MESSAGE

## FROM THE PRESIDENT



Dear Members,

This is the last volume of the Bi-Monthly Journal under my tenure as a President of EMA. I hope that you liked all the previous 5 journal under my tenure and will like this volume as well. It was a wonderful year with great activities and excitement. The journey was unforgettable and remarkable.

I dedicate the whole year to my hard working and dedicated team which had round the year supported me and has done remarkable jobs for the EMA members. Also like to thank my

sponsors without their support all the events would not have been possible.

The bi-monthly journal is basically themed on various aspect of our Electrical field and market. Our committee have focused on this aspect and made this journal by creating lots of interest and knowledge for their reader members of EMA. I on behalf of my journal committee thank all of you for supporting them and accepting the new format and directions made by them.

This journal is mainly focused on the Earthing materials. As we all know that earthing is very important part in the Electrical wiring and is a must for any electrical work to be completed. Avoiding Earthing gets us closer to the danger and that can be life or monetary. The committee with their sheer hard work and patience have created new life in our association and its working rather be it in website, publication, sports, family gatherings and messaging.

I know and also sure that the incoming president would continue and motivate the new and dynamic committee with same enthusiasm and responsibly. He will add more to this association and take it to the new high as never imagined.

I ONCE AGAIN THANK ALL THE MEMBERS OF THE ASSOCIATION, OUR PAST PRESIDENT, ADVISORS, MANAGING COMMITTEE AND LAST BUT NOT THE LEAST OUR STAFF MEMBERS FOR THEIR SUPPORT THROUGHOUT THE YEAR.

Thankyou.

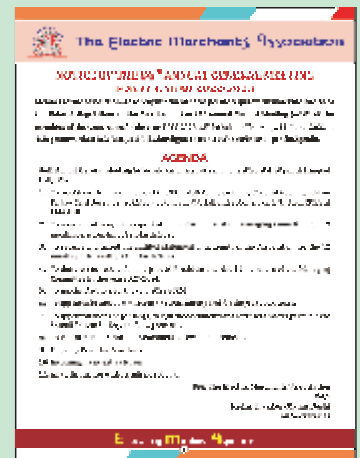
**NIRMOHI SHAH**

President 2022-23



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# Inside Highlights



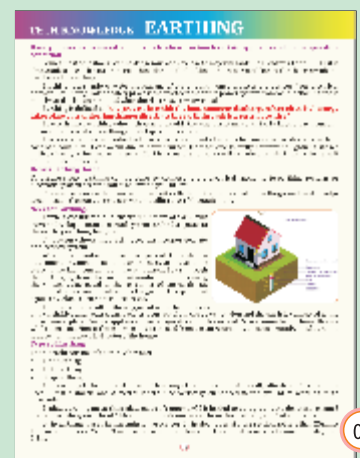
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# The Electric Merchants' Association

## NOTICE OF THE 86<sup>TH</sup> ANNUAL GENERAL MEETING FOR THE YEAR 2022-2023

Members of the Association are hereby informed that as per the requirement under the rule, 18 of the Rules & Regulations of the Association, the 86<sup>th</sup> Annual General Meeting (AGM) of the members of the Association for the year 2022-2023 will be held on Thursday, 22<sup>nd</sup> June, 2023 at 4:30 pm onwards at BCA Banquet Hall, Churchgate to transact the business as per the Agenda.

### AGENDA

86th Annual General Meeting to be held on Thursday, 22nd June 2023 at 4:30 pm at Banquet Hall, BCA.

1. To read & confirm the minutes of the 85th Half Yearly Ordinary General Meeting held on Friday, 23rd December 2022 at 4:00 pm at EMA Hall and SGM held on 27th April 2023 at EMA Hall.
2. To receive and adopt the report of the performance of the Managing Committee for 12 months period ending 31st March, 2023.
3. To receive and adopt the audited statement of accounts of the Association for the 12 months period ending 31st March, 2023
4. To declare the results for the post of President and the 12 members of the Managing Committee for the year 2023-2024.
5. To appoint Auditors for the year 2023-2024.
6. To appoint Election Commissioner / Scrutinizers panel for the year 2024-2025.
7. To appoint authorized person(s) to sign the documents and represent matter pertaining to Shreeji Bhuvan Society and New premises.
8. To inform members about development of new office premises.
9. Outgoing President's address.
10. Incoming President's address.
11. Any other matter with permission of Chair

For, The Electric Merchants' Association

Sd/-

Ketan Thakker/Manav Doshi

Hon Secretaries



## POLICY

We at EMA are committed to achieve satisfaction of our members by all such means as may be deemed necessary within legal framework and acceptable to all interested parties. We will try to achieve our objectives by adhering to applicable requirements and try to continually improve the effectiveness of the quality management systems

## VISION

- 1) To become a one stop solution for the members to resolve all their business related issues.
- 2) To be associated with other similar institution and other allied associations across the globe for the betterment of the members.

## SCOPE

Safeguarding interest of the Members, keeping them up to date with relevant information, providing a platform to the members for exchange of ideas, resolving trade disputes of the members providing them with legal administrative and technical support, engaging them in various recreational activities.

## ACHIEVEMENT

Provided a meeting place for conference, exhibition, demonstrations, lectures, seminars and other relevant functions for exchange of views of members and other interested parties.

## PURPOSE

To promote co-operation among persons, firms, companies connected with the electric trade and industry in India, whether as importers, exporters, wholesale or retail dealers, manufacturers, contractors, consultants or commission agents. With a view to their adopting a common policy and collectively taking such steps as may be considered

# EMA POLICY, VISION & OBJECTIVE

necessary or expedient to further and safeguard the interest of trade and industry.

To frame and from time to time update and try to enact rules and bye-laws for the benefit of and binding on the Association and/or its members and non-mebers dealing with the members to promote and safeguard the interest of the Association and its members.

To elevate standard of business moral and promote system of preferential treatment to the members of the Association.

Providing facilities and machinery for the settlement of disputeres by arbitration.

To take such steps which may be deemed necessary for promoting, supporting or opposing legislation or actions by the Government or any departments thereof or by any local body or bodies and in general to take the initiative to safeguard the interests of the Electrical Trade and Industry.

To Organise in a calendar year at least one :

- Excursion
- Factory Visit
- Social Family Gathering
- Sports Event
- Medical Seminars
- Medical Camp for Members and Staff.
- Technical Seminar
- Taxation Seminar

To acquire, verify and circulate relevant notifications issued by regulatory authorities among the members within two weeks of their receipt.

To educate general public including members by all suitable means on the advantages and the utilities of electricity, electrical appliances and articles used for domestic, commercial and industrial purpose twice a year.

Establishing, equipping and maintaining a library for the benefits of the members.

## PURPOSE

## OBJECTIVE



# The Electric Merchants' Association

Members are hereby requested to kindly attend the **86th Annual General Meeting** and also register themselves for a Seminar on Sudden Cardiac Arrest Resuscitation followed by Dinner.

Maximum 02 (Two) persons per 01 (One) Member Firm are entitled to attend, with a Refundable Deposit of Rs. 200/- (Rupees Two Hundred Only) per person.

## DETAILS OF THE PROGRAM:

**Date** : 22/06/2023  
**Day** : Thursday  
**Time** : 4:30 pm Onwards  
**Venue** : BCA Banquet Hall, 2nd Floor,  
 Vinoo Mankad Road, Churchgate, Mumbai - 400020

In association with :  **PRECISION**  
 Pipes & Fittings

**M/s. Precision Plastic Industries Pvt. Ltd.**

## PLEASE NOTE:

AGM is open for all the members of the Association. However, those members who wish to join for the seminar should kindly register themselves at EMA office and reserve their seats.

Registration for the Seminar with dinner pass will start from **Thursday, 15th June 2023** at EMA Office, between 01:00 pm to 04:00 pm and will be issued to 300 (Three Hundred approx.) members only on First Come First Serve basis.

Only Proprietor / Partner / Director / Authorised Nominee as per EMA record of the registered firm are allowed to participate in the AGM.

(Registration Charges (refundable) for Seminar to be paid in Cash Only.)



# 86th ANNUAL GENERAL MEETING

# REGISTRATION FORM

## REGISTRATION FOR SEMINAR & 86<sup>th</sup> AGM, THURSDAY, 22nd JUNE 2023

Name of the Company : \_\_\_\_\_

Name of the person(s) : 1 \_\_\_\_\_ Mobile : \_\_\_\_\_

2 \_\_\_\_\_ Mobile : \_\_\_\_\_

Food Preference : Person 1: **Jain** ☐ **Non-Jain** ☐ Person 2: **Jain** ☐ **Non-Jain** ☐

Refundable Entry Pass @ Rs. 200 x \_\_\_\_\_ Total Rs. : \_\_\_\_\_

Sd/-

**Mr. Ketan Thakkar / Mr. Manav Doshi**  
 (Hon. Secretaries)

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# Withdrawal

of Rupees 2000 note by RBI on the Economy & Different Sections

## Analysing effects of withdrawal

The RBI on Friday 19th May, 2023 decided to withdraw the ₹. 2000 note from circulation citing its clean note policy. RBI has asked banks to stop issuing these notes with immediate effect. The Apex bank has given four months till September 30, 2023 for the public to exchange or deposit ₹ 2,000 notes in their possession in the branches of Banks or with the designated RBI offices.

The withdrawal of ₹ 2,000 notes however was not unexpected as RBI had been bringing down the chunk of ₹ 2,000 notes over the year since the demonetization in 2016. These notes in any case would have gone out of circulation over the next few year, going by the trend in the previous year. This move therefore should not come as a surprise to anyone, it is opined.

### Comparing Demonetization in 2016 with the present move

There is a tendency to compare the present move with the 2016 Demonetization drive. However, according to observe, it is fundamentally wrong to compare the present move of withdrawal of ₹ 2,000 notes with the 2016 Demonetization exercise for the following reasons:

1. The issuance of a high denomination note of ₹ 2,000 was a necessity at the time of demonetization in 2016 because the withdrawal of currency had impacted 86 per cent of the total currency in circulation in the system. On the contrary, the withdrawal of ₹ 2,000 notes now reportedly has helped in pushing more currency into the system to support the economy.
2. The ₹ 2,000 note was encouraging hoarding of such high denomination notes by black marketeer as it was easy to store and exchange. In fact, these notes had soon started disappearing from the market & the banks were complaining about not getting enough ₹. 2,000 notes, as all banks had re-calibrated their ATMs to accommodate ₹2,000 notes.
3. The present move by the RBI of withdrawal of ₹ 2000 notes is different from demonetization, when ₹ 500 and ₹ 1,000 notes constituting around 86 per cent of the currency in circulation were declared invalid overnight by Prime Minister Narendra Modi.

Neither RBI or the government has declared ₹ 2,000 notes as invalid this time around. The RBI has clearly said that these will remain a legal tender, which means that these can be continued to be used in transactions.

4. Honest citizens with legitimate sources of ₹ 2000 notes need not panic accordingly. There is enough time and facilities offered by the RBI to deposit or exchange these notes in the branches of Banks or authorized RBI centres. There is time until September 30 for the public to do this. Customers during this period can exchange ₹ 2,000 notes worth ₹ 20,000 at a time from 23rd of May, 2023.
5. Unlike the ₹ 500 and ₹ 1,000 notes in circulation, the ₹ 2,000 notes constitute only a relatively smaller portion of the total currency in circulation at this point. In other words, common people logically will have only small quantities of these notes. The kind of panic that was visible during demonetization in 2016 is therefore unlikely this time.

According to RBI, the total value of ₹. 2000 notes in circulation has declined from ₹ 6.73 lakh crore at its peak on March 31, 2018 constituting 37.3 % of notes in circulation to ₹ 3.62 lakh crore constituting only 10.8 % of notes in circulation on March 31, 2023.

### Reasons advanced by RBI for Withdrawal of ₹. 2000 notes

1. When 2000-rupee notes were introduced in 2016 they were intended to replenish the Indian economy's currency in circulation quickly after demonetization.
2. The Central bank has frequently said that it wants to reduce high value notes in circulation and has stopped printing 2000-rupee notes over the past four year.
3. According to the RBI, this denomination is not commonly used for transactions.



# Withdrawal

of Rupees 2000 note by RBI on the Economy & Different Sections

Analysing effects of withdrawal

## Likely effect on economic growth

The value of ₹ 2000 notes in circulation at present is ₹ 3.62 lakh crore, about 10.8% of the currency in circulation. This withdrawal therefore is not likely to create any big disruption, as:

1. The notes of smaller denomination are available in sufficient quantity, and;
2. In the past 6-7 year, the scope of digital transactions and e-commerce has expanded significantly.

## Effect on Banks

The government's call to deposit or exchange the notes for smaller denominations by Sept. 30 is likely to lead to a rise in bank deposits. Additionally, since all the ₹. 2000 notes will come back in the banking system, this may see reduction in cash in circulation, which in turn may help improve liquidity in the banking system. Importantly, this comes at a time when deposit growth is lagging bank credit growth.

## Epilogue

The move by the RBI is not demonetization, but the aim seems to be ending the life of ₹. 2000 note until it goes completely out of the system. On the positive side, it is not likely to inflict any pain on the common citizens of the country as they have moved on using UPI through G-Pay and Paytm. They all are thus insulated from the move. Hoarder of cash seem to be the target of the government & the RBI, who possibly have been given the last chance to convert black into white.

## NO HANDCARTS DURING PEAK HOUR IN SOBO

*Mumbai: The Mumbai traffic police recently issued a notification banning the movements of handcarts as well as the loading/unloading of goods in south Mumbai from 8am to 11am and 4pm to 8pm to ease traffic congestion in the area.*

"The movement of handcarts and loading/unloading of goods on major roads is causing inconvenience to the public and causing traffic jams, especially during peak hour in south Mumbai. Therefore, to prevent obstruction, inconvenience to the public and to maintain smooth vehicular traffic movements, there shall be no plying of any type of handcarts, no loading/unloading of goods vehicles (excluding vehicles supplying essential services," states the notification which was issued

on May 8. Unhappy with this decision, local businesses and porter running handcarts in the area said their daily job will be hampered. Areas like Lohar Chawl, Abdul Rehman Street, Masjid Bunder and Mohammed Ali Road often have handcarts to load / unload goods.

Around 600 handcarts operate in this area, each working at least three rounds a day. CA Jigar Parikh on behalf of EMA had re-presented the issue before the constituent MLA and Present Vidhan Sabha Speaker Shri Rahul Narwekarji long with president CAIT Dilip Maheshwari and other industries association member.

## नवभारत

### विधानसभा अध्यक्ष नार्वेकर से मिला व्यापारियों का प्रतिनिधिमंडल हाथगाड़ी से माल ढुलाई पर लगी रोक हटाएं

■ कालबादेवी, नवभारत न्यूज नेटवर्क. व्यापारियों के प्रमुख संगठन कैट मुंबई का प्रतिनिधिमंडल विधानसभा अध्यक्ष राहुल नार्वेकर से मिलकर दक्षिण मुंबई में ट्रकों व हाथगाड़ी से माल ढुलाई पर लगे रोक को हटाने की मांग की है. कैट मुंबई अध्यक्ष दिलीप माहेश्वरी ने बताया कि मुंबई पुलिस यातायात विभाग ने दक्षिण मुंबई के व्यापारिक क्षेत्र में सुबह 8 से 11 व सायं को 4 से 8 बजे के बीच हाथगाड़ी से माल ढुलाई व ट्रकों के पार्किंग पर रोक लगा दी है. उन्होंने कहा कि दक्षिण मुंबई के व्यापारिक क्षेत्रों में होलसेल मार्केट ही सुबह 11 बजे शुरू होता



है. सायं 4 से 8 बजे के बीच सबसे अधिक माल की ढुलाई होती है. माहेश्वरी ने माल की ढुलाई पर लगे प्रतिबंध को तत्काल प्रभाव से हटाने की मांग की. प्रतिनिधिमंडल में शिव कनोडिया, शंकर भाई ठक्कर, योगेश गणात्रा, जिगर आदि शामिल थे.





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# *Fake* **GST DRIVE** **GST OFFICE** to visit **YOUR SHOP** Soon : **BE READY**

A Special **ALL-INDIA DRIVE** has been launched by all Central and State Tax administrations during the period 16th May 2023 to 15th July 2023 to detect suspicious/fake GSTINs.

## **FAKE GST REGISTRATION DRIVE:**

A Special All-India Drive has been launched by all Central and State Tax administrations during the period 16th May 2023 to 15th July 2023 to detect suspicious/fake GSTINs and to conduct requisite verification and further remedial action to weed out these fake biller from the GST eco-system and to safeguard Government revenue.

As part of this Drive, GST Officer may visit your business premises during this drive. Below are the 5 basic steps you need to take to ensure that no fine or penalty is levied on you during that drive.

## **SIGN BOARD WITH GST NUMBER:**

Every person registered in GST is required to display his GST number on the name board/ business sign board. This is a legal requirement and a general penalty of ₹. 50000 is applicable in case you do not comply with this requirement.

## **DISPLAY OF REGISTRATION CERTIFICATE:**

Similarly, Trader and businesses are required to display the GST registration certificate in their business premises. Non-compliance with this requirement can again invite the general penalty.



Similarly Also, composition scheme taxpayer will have to mention that they are availing the composite scheme and are not entitled to collect GST from people.

## **GST RETURNS:**

Please ensure that your GST Returns have been filed and that the due taxes have been timely paid.

## **SALE & PURCHASE REGISTER:**

The next thing is that your sale purchase register should be complete and should be maintained as per GST Law.

## **REGISTRATION OF ADDITIONAL PLACE OF BUSINESS:**

Many Taxpayer forget about the registration of additional Places of business. For example, if you are maintaining stock at a place different from your shop, you need to take separate registration of that.

These are the basic requirements the GST officer may look for during the visit that the taxpayer must need to take care off.





# EMA



# WELFARE

## The Electric Merchants Association

Organises

## FREE DISTRIBUTION OF NOTEBOOKS

in Association with



**NewTech**  
Power Industries Pvt Ltd

Dear Members, We are happy to announce you that this year also we have arranged free notebook distribution for the children of EMA members' staff, sponsored by **M/S NewTech Power Industries Private Limited**. This year the committee has decided to distribute ONE Dozen (01 Doz) notebook per staff of the member firm (Maximum 02 Staff) can collect the notebook by filling the form duly stamped and signed with req. Marksheet, also the sponsors' wishes to distribute 3 notebooks to EMA members against a written request duly stamped and signed.

- Please Note:**
1. **Distribution will be on first come first serve basis.**
  2. Copy of marksheet of the child from grade 1 to grade 10 only.
  3. Current Year (2023) marksheet will only be considered.

**Distribution starts :** 15th June 2023

**Collection from :** EMA Office, Shreeji Bhuvan, 2nd Floor.

**Timings :** 12.00 noon to 4:00 pm.

NOTEBOOK FOR STAFF

# GOOD LUCK STUDENTS & TEACHERS!

## HAVE A GREAT SCHOOL YEAR!

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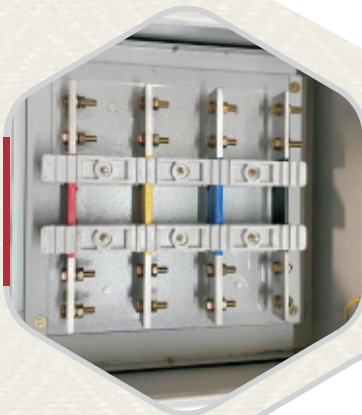
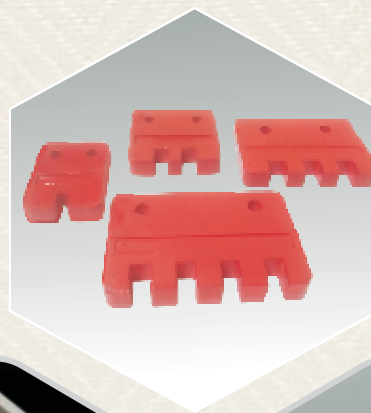


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# TECH KNOWLEDGE : EARTHING

**Have you ever experienced a mild shock when you touch certain appliances while in operating condition?**

Sometimes these shocks can be dangerous and can lead to major hazards. To avoid mis-happenings, it is always advisable to have a proper earthing done to the building. This process of sharing the charges with the earth is called earthing.

Earthing is a simple way for the leakage of current and hence protects the devices from electrical damage. Grounding is also a safety process that protects the entire power system from malfunctioning and is mainly used to balance the load when the electric system overloads.

Earthing is defined as **“the process in which the instantaneous discharge of the electrical energy takes place by transferring charges directly to the earth through low resistance wire.”**

Low resistance earthing wire is chosen to provide the least resistance path for leakage of fault current. Let us know more about earthing and its types in this article.

Electrical circuits are involved with an adequate amount of energy to cause electric shock hazards in case of a fault. A fault can occur due to power surges, leakages due to faulty equipment, lightning strikes hitting directly or indirectly and so on. So it is necessary to focus on the safety of all electrical systems be it domestic or commercial.

## How is Earthing Done?

To ensure safety, earthing can be done by connecting the electrical appliance to earthing systems or electrodes placed near the soil or below the ground level.

The electrode or earthing mat equipped with a flat iron riser is installed under the ground level. It helps to connect all the non-current-carrying metallic parts of the equipment.

## Need for Earthing:

Earth is considered as a charge sink therefore any fault current developed in an electrical system can be dissipated to the earth by earthing the system.

This picture shows the earthing system incorporated into an electrical system.

When the overload current is passed through the equipment or when the fault occurs in the system due to the current, the fault current from the equipment flows through the earthing system. The earth mat conductors aid in raising the voltage value equal to the resistance of the earth mat multiplied by a ground fault and helps guard the equipment against overload current or fault current.

In homes, there shall be three types of wires, live, neutral, and earth. Live and neutral carry electric current from the power station and the earth is connected to the buried metal plate. Electric appliances like refrigerators, iron boxes, and TV are connected to the earth wire while operating. Hence, these devices are protected from the surge or faulty electrical supply. Local earthing is done near the electrical meter of the house.

## Types of Earthing

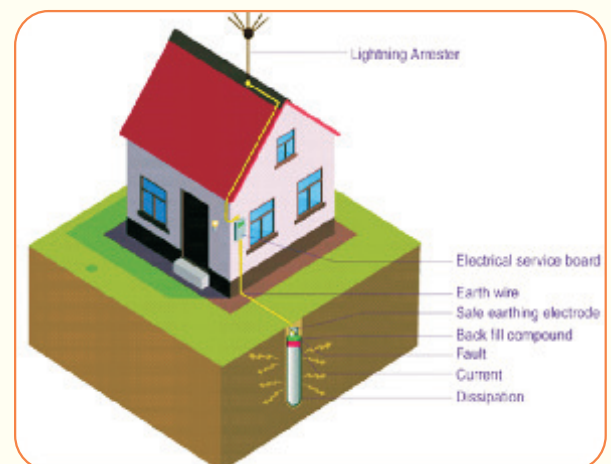
There are three types of earthing, they are:

- Pipe earthing
- Plate earthing
- Strip earthing

Pipe earthing is the best and most efficient way of earthing and is also easily affordable. Pipe earthing uses 38mm diameter and 2 metres length pipe vertically embedded in the ground to work as earth electrodes.

In plate earthing, an earthing plate made of copper or G.I. is buried into the ground at a depth more than 3 metres from the ground level. This earthing plate is embedded in an alternative layer of coke and salts.

Strip earthing is used in transmission processes. Strip electrodes of cross section not less than 25mm X 1.6mm of copper or 25 mm X 4mm of G.I. or steel are buried in horizontal trenches of a minimum depth of 0.5m.



# TECH KNOWLEDGE : EARTHING

## Advantages of Earthing

1. Earthing is the safe and the best method of offering safety. We know that the earth's potential is zero and is treated as Neutral. Since low equipment is connected to earth using low resistance wire, balancing is achieved.
2. Metal can be used in electrical installations without looking for its conductivity, proper earthing ensures that metal does not transfer current.
3. A sudden surge in voltage or overload does not harm the device and person if proper earthing measures are done.
4. It prevents the risk of fire hazards that could otherwise be caused by the current leakage.

*How we connect to the earth is an important question we now have.*

A highly resistive path can be a difficult one for the developed charges to flow, in a short period. Thus we make sure to provide a path with the lowest resistance so that maximum energy is trailed down in a short period, and this is called Earthing.

Based on the Earthing Electrodes we have different types of earthing:

- 1) Pipe Earthing
- 2) Plate Earthing
- 3) Strip or Wire Earthing
- 4) Rod Earthing
- 5) Coil Earthing
- 6) Chemical Earthing

Let us have a detailed study on Pipe Earthing and Chemical Earthing here and the significance of each.

## Pipe Earthing (IS:3043):

Pipe Earthing is one of the most common earthing techniques. The pipe earthing uses a galvanized iron (GI) pipe, and the dimension of the GI pipe used for a structure depend mainly on the magnitude of possible current and the soil type.

The dimension of the pipe is usually 40mm (1.5in) diameter and 2.5m (9ft) length for ordinary soil and greater for dry and rocky soil as the soil resistivity is higher in such cases.

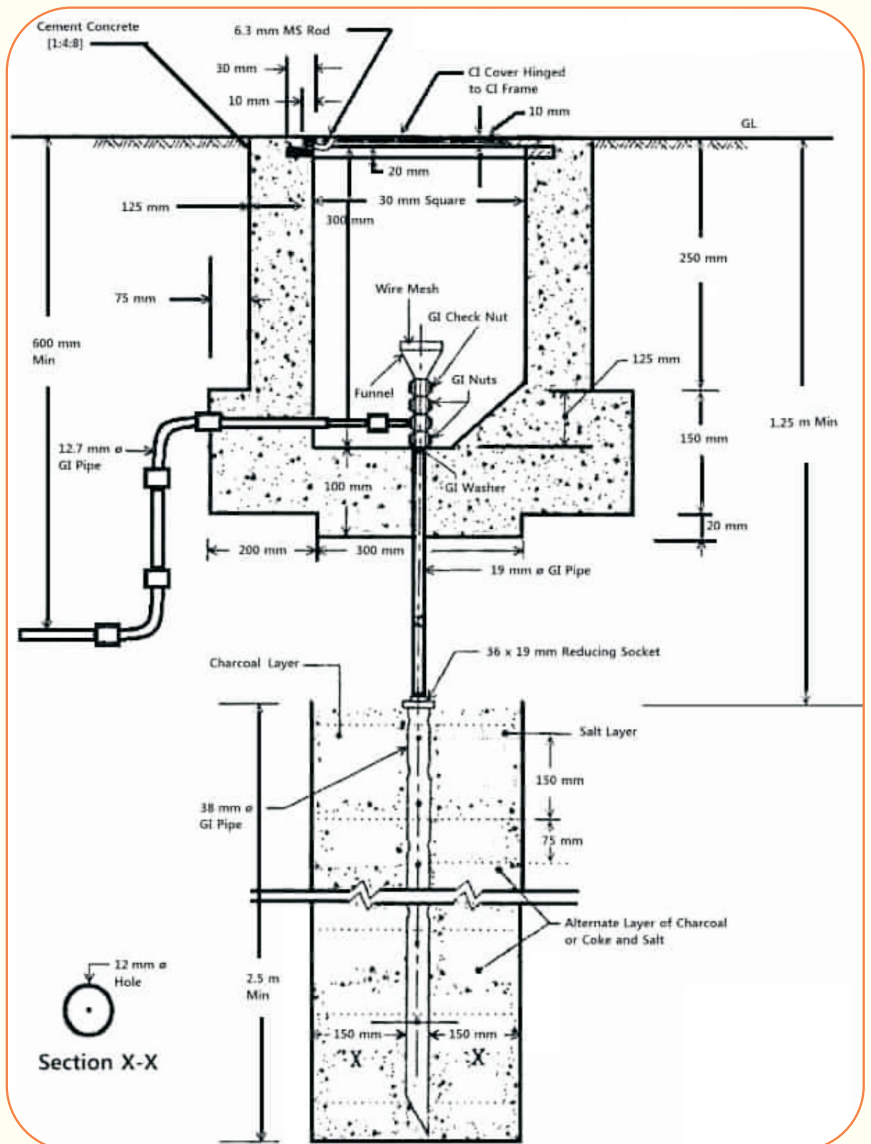
## GI Pipe Specifications:

The GI pipe is perforated along its length and has a tapering end. It has a terminal clamp on the top end from which the earth wire connections are made.

The GI pipe is placed vertically deep into the soil and requires regular watering to maintain the resistivity of the soil.

## Steps for Pipe Earthing

1. Identify the ideal location for earthing, an earth electrode should not be closer than 1.5 m from any building.
2. Excavate an earth pit with the required depth considering the soil type and resistivity.
3. The tapered end of the GI pipe should go vertically deep into the soil, not less than 3m.





# TECH KNOWLEDGE : EARTHING

4. The pit is to be filled with charcoal and salt alternatively to increase the moisture-holding capacity of the soil and thus maintain its conductivity.
5. The top end of the pipe should not be less than 20 cm below the ground level, and a chamber of size not less than 30 cm x 30 cm x 30 cm is built over it for maintenance.
6. A watering funnel with mesh is to be installed at the top opening end. This is for maintaining the moisture content by watering during summer or dry seasons.
7. Earthing wires are connected to the pipe at the terminal clamps available, using nuts-bolts and washers.
8. Usually, an 8SWG earth wiring is used for high tension connections and, a 10SWG wire is used for low tension connections.

## For safe earthing keep a note of the following aspects:

The location of the earth electrode shall be such that the soil remains moist throughout the year. Moisture increases conductivity and thus enables the quick flow of fault current to the earth.

If more than one electrode pipe is to be used, a separation of 2m should be maintained between two adjacent electrodes.

## Applications of Pipe Earthing

Pipe earthing is the most economical and efficient method, therefore is commonly used for domestic earthing and transmission tower earthing. In ordinary earthing, salt and coal are used alternatively to surround the electrode. Chemical earthing is in which we use highly conductive chemical compounds instead of salt and coal. The salt used in usual earthing methods can get dissolved in water and result in corrosion of the GI pipe over time, also they lose their conductivity over time. The chemical compounds used in chemical earthing avoid this and give longer life.

Also, the chemical compound reduces the resistivity of the soil considerably. In certain soil conditions, regular watering is necessary for soil resistivity maintainance (For Chemical earthing it is not required).

## Chemical Earthing Specifications

- Two types of powders that are used in chemical earthing are Bentonite Powder and Marconite Powder, which maintains the resistivity of the soil.
- Earthing with Bentonite Powder is used in a normal place while earthing with Marconite Powder is used in a dry place, when soil resistivity is very high.
- Marconite has far low resistance and is the best ground enhancement material compared to others.
- But due to its higher cost, its usage is limited when compared to Bentonite.

## Steps in Chemical Earthing

1. Excavate a pit of 500 x 500 x 200mm, and then make a hole at its centre with 100mm diameter and 3.5m depth.
2. The marconite powder usually comes in a package of 25 kilos and is mixed with water & then filled into it.
3. Fill the hole with the chemical compound, then fill it with water and wait for about 6-10 hours for the water to get absorbed.
4. Place the electrode in the hole in an upright position with the terminal end on top, and make sure it is ready for earth connections.
5. Now fill the hole with the compound and water, and wait until it sets.
6. The chemical compound forms a low resistance region around the earth electrode and provides a quick path for excess current.
7. Complete the earthing connections and also check the soil resistivity.

## Application of Chemical Earthing

Chemical earthing is for mountains and dry areas where the soil moisture is low naturally and needs to be maintained for safe earthing. As the chemical compound remains intact throughout all climates, it gives longer life to the earthing and thus reduces the frequent maintenance and watering of earth pits.

**Summary :** Chemical compounds used as a backfill in the earth pits helps reduce the soil resistivity considerably and for a longer time. They also reduce corrosion (caused by salt used in normal earthing). So chemical earthing is an enhanced earthing method.





## REPORT- LED EXPO - Bombay Exhibition Center, MUMBAI (11-13 May 2023)

We as Business owners always need to upgrade and learn about new products, technology and keep our knowledge updated, keeping this in mind EMA arranged the special VIP entry to one of the largest expo of LED and its allied products for our esteemed members on 11th May, 2023.

More than 35 members participated in visit to the expo. Due to special VIP entry all the members were requested to pre-register themselves through the link provided to them.

Members gathered around 10:30am at the gate of



Hall No. 1. It was a privilege that our President Mr. Nirmohi Shah was a part of the opening ceremony at the expo and to light the Diya along with various other dignitaries. Food coupons were provided on behalf of EMA to all the members present on the day 1 of the expo. The event also featured latest trends and future aspects of the Lighting industry. Over all it was a very well experience and provided valuable inputs for the attendees to network and gain insights about latest Led and automation technology.







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### EMA ANNUAL MEMBERSHIP RENEWAL 2022-2023

All Annual Members of The Electric Merchants' Association are being informed that with effect from 01<sup>st</sup> April 2023, Membership Subscription for the year from 01.04.2023 to 31.03.2024 is due for renewal.

Members are requested to make the payment of Rs. 2,950/- (Inclusive of GST @18%), by Cheque / NEFT immediately.

Payment should be favouring in the name **“The Electric Merchants' Association”**

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Any change in Member's company details, should be informed well in advance to the association in writing. The Association will print the changes / modifications provided in the forthcoming edition of the journal.

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