

**ECAM**

A MAGAZINE DEVOTED TO  
PROFESSIONAL DEVELOPMENT &  
TECHNOLOGY UPGRADEATION



Total No. of Pages: **56**

# Indian Electrical

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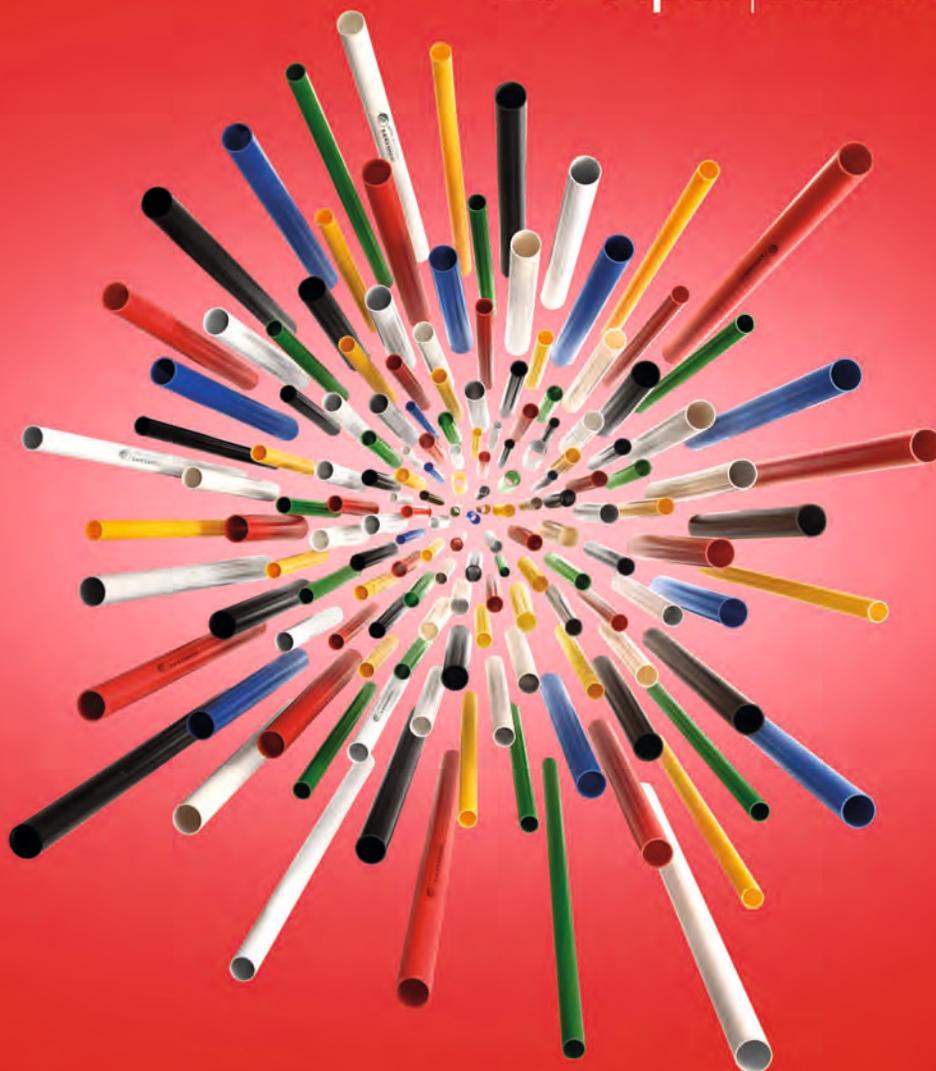
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मित्रांनो नमस्कार,

IECT च्या माध्यमातून आपल्याशी संपर्क साधताना निश्चितच आनंद होत असतो. ECAM च्या दृष्टीने आपणा सर्वांशी संपर्क माध्यम म्हणून IECT आपली जबाबदारी पार पाडत असते. या महिन्यात संघटनेचे सभासद या विषयावर आपल्याशी हितगुज करावेसे वाटले आहे.

एकाच विचाराने प्रेरित होऊन एकाच उद्देशासाठी लढणारे लोक एकत्र येऊन जो गट तयार होतो ती संघटना, प्रतिकूल दिवसात साथ देणारे सहकारी म्हणजे संघटना. तर वादळातही ठामपणे पाय रोवून आपल्या ध्येयाशी इमान राखणारे शिलेदार म्हणजे संघटना.

व्यावसायिक, सामाजिक क्षेत्रात आपण वावरताना मानापमान, आरोप, प्रत्यारोप, वैचारिक मतभेद हे होत राहणारच, परंतु अनेक अडचणींना तोंड देऊन जे काही टिकून राहते ते म्हणजे संघटना. त्यामुळे संघटित राहणे ही काळाची गरज आहे.

राष्ट्रसंत तुकडोजी महाराजांनी ग्रामगीता या ग्रंथात संघटनेचे महत्त्व



## केल्याने होत आहे.....

व्यापकतेने विषद केले आहे. ते म्हणतात....

“हत्तीस आवरी गवती दोर ।

मुंग्याही सर्पास करती जर्जर ।

रानकुत्रे संघटोनी हुशार ।

व्याघ्रसिंहासी फाडती ॥

म्हणून आपल्या जीवनात संघटनेचे महत्त्व किती मोठे आहे हे आपण समजू शकतो.

आपण संघटनेसोबत जोडलेलो असतो म्हणून लोक आपल्याला आपुलकीने ओळखतात, मानसन्मान मिळतो. म्हणून संघटनेचा सभासद असणे आवश्यक वाटते. काही दिवसापूर्वी एक इलेक्ट्रॉनिक मीडियावर एक क्लिप पाहायला मिळाली. एक मोठी माशी छोट्या माशीला भक्ष्य बनविते. काही क्षणात लहान माशीचा समूह त्या मोठ्या माशीवर हल्ला करतो. थोड्या वेळात ती माशी मृतावस्थेत दिसते. एकीचे, संघटनेचे बळ समजण्यासाठी एवढे पुरेसे आहे.

जानेवारी 1925 साली स्थापन झालेली संघटना पुढील वर्षी शतकी महोत्सव साजरा करते आहे. अश्या जुन्या संघटनेचे सभासद असणे आपणा सर्वांच्यासाठी निश्चितच एक अभिमानाची आणि कौतुकास्पद बाब आहे..

सर्व सभासद बंधू भगिनींना मी नम्रपणे आवाहन करतो की, या येणाऱ्या वर्षात आपली सदस्य संख्या ही आपण दुपटीने वाढविण्यासाठी प्रयत्न करूया. प्रत्येक सभासदाने एक नवीन सभासद Ecam कुटुंबात समाविष्ट केल्यास आपण हे उद्दिष्ट सहजपणे साध्य करू शकतो. नवीन सभासद फॉर्म आपल्या [www.ecam.org](http://www.ecam.org) या वेबसाईट वर उपलब्ध आहे. याचा उपयोग निश्चितपणे सभासद संख्या वाढविण्यासाठी होणार आहे.

संघटनेचे सभासदत्व हे खालील प्रमाणे

१) साधारण सभासद (General Member),

२) आजीवन सभासद (Life Member ),

या दोन्हीही प्रकारात विद्युत ठेकेदार परवाना (Electrical Contractor Licence) असणे आवश्यक आहे.

३) सहयोगी सभासद (Associate Member).

विद्युत ठेकेदार परवाना (Electrical Contractor Licence) असणे आवश्यक नाही. कोणत्याही उत्पादक कंपनी, सल्लागार असे कोणीही या प्रकारची सदस्यता घेऊ शकतो.

चला तर मग, एक नवीन सदस्य Ecam परिवारात सामील करूयात. मला खात्री आहे आपण सर्वजण हे उद्दिष्ट पूर्ण करणारच.

आपला,

**वामनराव भगवान भुरे**

अध्यक्ष, इलेक्ट्रिकल कॉन्ट्रॅक्टर्स असोसिएशन ऑफ महाराष्ट्र



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I am happy to inform you that a grand launching of Centenary Logo and information brochure was done on Tuesday, 25th April in St Regis hotel in Mumbai. Ecam is very thankful to the CMD of RR Global Shri Shreegopal Kabra Sir for taking full initiative in organising a get together of industry leaders and expressing best wishes for the centenary of ecam. Ecam is also thankful to Shri Inderji Jaisinghani, Chairman of Polycab wires for attending the event. He also gave his blessings to ecam for entering into 100th year. The third vip present in the get together was none other than the President of Ieema, Shri Rohit

## Launching of Ecam centenary



Pathak. He also gave his best wishes to ecam.

Friends, we are talking of the centenary of ecam since last couple of months. As you all know, ecam will enter the 100th year on 11th January 2024. We have decided to have a great inauguration function in Mumbai. I request everyone to attend the same. Details will be shared shortly.

Another important event will be Ecamex exhibition in February 2024 in the Bombay exhibition centre of Goregoan in Mumbai. It is our joint responsibility to make it a success. The theme of the exhibition will be Electrical Safety. We as electrical contractors are doing all the electrical installations and take utmost care of safety. In spite of this, we see several electrical accidents taking place. This is a great issue before our Nation. We will make every effort to educate our contractor brothers, suppliers and general public in this respect.

There will be number of programs and events like seminars, conferences etc during this centenary year. I am sure every member will take lead and put his effort to make the centenary year, a grand success.

I am giving my best wishes to all of you for the Maharashtra Day and Workers' Day coming on 1st May. I am happy to inform you that like last year, Mumbai members will celebrate Maharashtra Day as a get together of members and enjoy the entertainment program.

Thanks and regards

**Devang Thakur**  
Gen. Secretary, IECT



# ECAMEX 2024

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## The Editor's Desk



## Electrical safety

This is a very sensitive subject not only for associations like Ecam and Ieema, but for NGOs, Government and general public. The statistics of electrical fatality is alarming. About 400 people are electrocuted at home each year, resulting in about 200 deaths. And these accidents are caused by large appliances. This issue of

electrical safety is covered in this issue of IECT.

We must regularly do the electrical safety analysis. The intent is to perform a risk management, which includes a review of the electrical hazards, the associated foreseeable tasks and the protective measures that are required in order to maintain a tolerable level of risk.

The hazards are several, to name a few, electric shock and burns from contact with live parts, injury from exposure to arcing, fire from faulty electrical equipment or installations. Normally, electrical accidents are caused by contact with water, faulty wiring, attempting to fix electrical devices yourself or naked cords and damaged plugs.

Every organisation must have an electrical safety program. It will minimise potential hazards by specifying proper use and design characteristics of electrical devices, equipment and systems. In addition, an electrical safety audit should be conducted on regular basis. It will ensure identification of hazards, areas of risk, non compliance with legislation etc.

Certain precautions can be taken by employers like, workers must be provided with tools and safety devices to protect him against mechanical or electrical injury.

Electricity is a boon for mankind. But it becomes a curse if not handled properly. It is a safe energy if products are installed, maintained and handled properly.

Friends, we as members of Ecam have a great responsibility in avoiding electrical accidents. Hence the theme of our exhibition in the centenary year is going to be electrical safety! Let's do our duty and safeguard the Nation.



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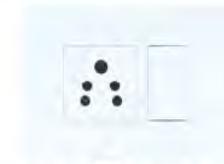
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**INDIAN ELECTRICAL CONTRACTOR & TRADER**  
is edited, printed and published by  
**Mr. Satish P. Sinnarkar** on behalf of the  
**Electrical Contractors' Association of Maharashtra** at  
Stock Exchange Tower - 1st Basement, Dalai Street,  
Fort, Mumbai 400 023, on or about 28th of every  
month and printed at **Shrirang Printers Pvt. Ltd.**  
302, Wadala Udyog Bhavan, Wadala, Mumbai 400 031.

All information contained and views expressed in  
the articles published in IECT are solely those of  
the authors, and may vary with time. **ECAM** and  
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Design & DTP - **Yatin Pawshe**

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# PROJECT SAFETY PRACTICES

**Bakul Sankdecha (Associate Director) & Ashfaque Malik (Key Accounts Manager)**

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*"A bad system will defeat a good person every time." Professor W. Edwards Deming*

In the following article, general practices about project construction safety is covered. Any installation should be safe and there should not be accidents at site. This calls for safety as of prime importance. Under-mentioned are few elementary safety protocols & procedures that can be adopted at a work site with few pictorial assists for ease of the reader.

## Safety Induction Procedure



Document Verification for workmen - All important documents such as Aadhar Card, PAN card, Address proof, educational proof, trade certificates, contact details, vaccination etc. to be check thoroughly and verified.

Records of the same to be kept so that information can be retrieved in-case of workmen identity is needed.



Medical screening by qualified health professionals.

Good practice is to have medical check-ups of workmen done by qualified doctor at-least on a monthly basis. Isolation rooms / Recovery rooms to be made available on work site for workmen needing immediate care and rest.



PPE's Issuance to inducted worker- Trade specific set of PPE's to be given to worker and to the same needs to be recorded.



Project specific & Trade Specific photo ID cards to be issued to inducted workmen only.

Necessary information like Blood Group / allergies etc. to be mentioned.



Safety Induction Training- This very important and should be done once in a month for all workmen along with starting of project.

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## EHS Good Practices 01

### Material Entries & Road Safety

Statistics have shown that there have been a number of incidents at the time of material loading / unloading at a workplace. Below steps will help to minimize the few starter steps of such incidents.



Driving license, MSDS, material inward document checking of the vehicles which are coming in and going out with materials.



Front & back indicator checking from safety point of view.



Tyre condition checking from safety point of view.



Reverse horn checking from safety point of view.

## EHS Good Practices 02

### Awareness & Appreciations

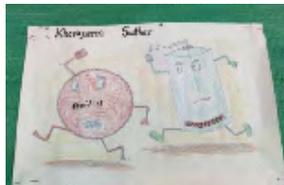
*Enforcement without encouragement has no real outcome*



Safety poster Competition- with this there will be encouragement, teamwork, competitiveness among workmen



Good example of current trends e.g. Drawing of CORONA virus



Encouraging safe working on height



Encouraging safety round the clock

## EHS Good Practices 03

### Awards & Recognitions

*Enforcement without encouragement has no real outcome*



Welcome ceremony for encouraging workmen to continue with safety practices.



Motivation drive to workmen e.g. Prize distribution ceremonies



Motivation drive to workmen e.g. Sweet distribution



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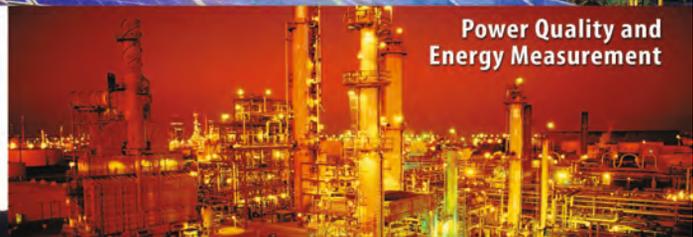
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## EHS Good Practices 04 Height Works

*Enforcement without encouragement is of no real outcome*



Awareness about scaffolding usage. Learning is always part of project so explanation with a proper demo is

always important.



Awareness about scaffolding- show with practical.



Scaffolding erection to be done by competent person only.



After erection, same needs to be cross-checked by supervisor and EHS marshal at the site.

## Good Practices Mock Fire Drills

*Enforcement without encouragement is of no real outcome*



Awareness about mock fire drill to be explained to all.



How to do Fire control to be shown.



Classes of Fire extinguisher & fire triangle to be explained to all and operation to be shown.



Same as above to explain Classes of Fire extinguisher & fire triangle

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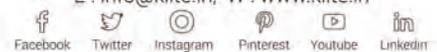


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## Awareness Posters

### *A picture speaks more than a Thousand Words*

Hence it is encouraged to put posters at many places as possible. It is also advised to have posters printed in local languages for workmen to understand the message easily.



Above are few basic guidelines as to how safety can be initiated at any site.

The same needs to be improvised as per site conditions and type and quantum of project.

Site safety is paramount important and safety process is required to be adopted thoroughly as per rules and regulations. Site Safety should be our goal and zero accident should be target.



## AVAADA ENERGY WINS 560 MW (DC) SOLAR PROJECT

Avaada has won the 560 MW (DC) for supplying solar power to Maharashtra State Electricity Distribution Co. Ltd (MSEDCL) - for the offered tariff of Rs. 2.88 (~\$0.035) per kWh ~

**Mumbai, April 6, 2023:** Avaada Energy, an arm of Avaada Group – India's leading integrated energy enterprise with business interests across the energy transition value chain, has won the 560 MW (DC) Solar Project bid in e-Reverse auction conducted by MSEDCL under Green Shoe option.

The project was awarded through competitive bidding, followed by an e-Reverse auction in which Avaada emerged as the winner with a quoted tariff of Rs. 2.88 / kWh (~\$0.035). As per bid terms, PPA will be signed between two entities for 25 years, and the project will be commissioned within 18 months. The auction has a green shoe option which will allow Avaada Energy to build an additional capacity of 560 MW (DC). The plant is expected to generate about 951 million units annually which will help reduce 8,85,563 tons of CO2 equivalent emissions annually. The solar project can potentially power ~7 lakh households with green energy.

**Speaking on this development, Vineet Mittal, Chairman of Avaada Group, said "Maharashtra is Avaada's Karmabhumi and we have a long association with the state. The state has always been at forefront of Avaada's journey in the power sector. Undoubtedly,**

*it is growing abreast in the green energy sector, and I am certain that its ambitious targets and commitments to a green future will unlock massive opportunities for industry leaders. We view this as a significant achievement in our drive to transform the world that is eco-friendly and sustainable."*

### About Avaada

Avaada Energy is the flagship company of the Avaada Group and is one of India's fastest-growing renewable energy companies. Avaada Group is India's integrated energy enterprise with business interests ranging from manufacturing solar modules and electrolyzers to renewable power generation, green hydrogen, and green ammonia production. The renewable energy arm has consistently been a top performer in the Indian RE space and has commissioned some of India's largest renewable energy projects.

In 2021, GPSC, a subsidiary of PTT Group, a leading Thailand-based conglomerate, invested in Avaada Energy and is a strategic investor.

### For Further Information:

Website: [www.avaada.com](http://www.avaada.com) Twitter: @avaadagroup  
Facebook: @AvaadaGroup LinkedIn: @AvaadaGroup

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## SAFETY GUIDELINES FOR DG SET INSTALLATION

### Mr. Sridhara Bantwal

AVP in Powerica Ltd.,

20 years of experience in DG Set Projects

DG set installation is very critical and many safety precautions are required to be taken. There could be many hazards which are required to be addressed from safety point of view. In this article general hazards, electrical hazards, explosive hazards are identified. And safety precautions to be taken with respect to specified hazards are given in brief. These can be considered as guidelines and will change as per site, equipment conditions. It is advised to contact OEMs or DG suppliers further for specific installation. Separate safety guidelines are also given while installation of DG Set. DG Set will run safely when proper routine maintenance will be also done. Hence regular maintenance schedule is also covered in brief.

### General Hazards - Safety Precautions

1. Installation, repair and maintenance should always be in accordance with the manufacturer's instructions and recommendations.
2. Exhaust fumes emitted by generator sets contain poisonous gases like carbon monoxide that can be life threatening and result in death. Exhaust systems must be properly installed, adequate ventilation must be provided to ensure unobstructed flow of cooling and ventilating air, and emissions must be directed away from inhabited zones.
3. The area around the generator must be clean and free of clutter and any combustible material that can be hazardous.
4. The equipment must be regularly inspected and defective or damaged parts must be replaced in a timely manner.
5. It is essential that the operating personnel remains alert at all times while working with the generator.
6. The unit should not be opened or dismantled while it is functioning. Moving or hot parts should not be tampered with. Battery cables should be disconnected before proceeding to work on the generator to eliminate any possibility of an accidental start-up.



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### Electrical Hazards

1. All power voltage supplies should be turned off at the source while installing or servicing the generator.
2. All electrical connections, such as wires, cables and terminals must be properly insulated and covered, and should not be touched with bare hands or while in contact with water. This is essential to prevent the occurrence of an electric shock.
3. The frame of the generator and any external conducting parts should have proper grounding / earthing wiring. This should never be disconnected.
4. Wiring, cable and cord sets must be of the recommended capacity.

### Fire and Explosion Hazards

1. Smoking in the vicinity of the equipment can be fatal.
2. Fuel or oil spills around the generator, leakages from the unit's fuel system and fuel supply lines, and presence of combustible materials around the generator will pose a risk of an explosion.
3. A fire extinguisher should be readily available. Use of extinguishers that operate on carbon tetra-chloride is strictly prohibited since the fumes are toxic and can deteriorate the insulation on the wiring of generators.

### Safety guidelines for dg set installation

1. Necessary hazard identification and risk assessment (HIRA) documentation to be worked out as per site specific activities and method statement documentation need to be prepared for all critical activities in line with site customer expectations as per manufacturer guideline
2. Personnel engaged in the DG Set Installation, commissioning, operation, and maintenance must be competent and experienced in these fields. They must also be conversant

with all relevant, current statutory requirements and local regulations. Before installing the DG Set, read this manual carefully to get familiar with the equipment and its operation. (Including all systems and controls, manually operated valves and shut down devices). Correct DG Set installation, operation and maintenance is essential for safe and efficient operation. Many accidents result from a failure to observe fundamental safety rules and precautions.

3. There are many potential hazards that can occur during operation of DG Set which cannot always be anticipated. JSA to be done before start of any Service / repair event.
4. While unloading, shifting of DG Set please ensure care is taken Put adequate control so that no damage to men and material is done. Please use proper unloading equipment's, tools and tackles with correct capacity for Loading and unloading.
5. DG room should have emergency exit routs which will take employee to safe assembly points. An escape emergency exit routs map may be displayed in the DG room which should be clearly visible to all would be helpful during any accident or fire.
6. Please provide (Suitable) "Fire Extinguishers" in DG Set room area.
7. Please put Hazard Signs for Electricals Panels, Fuel and Lubricants, Chemicals etc.
8. As per activity & Hazards required Personal Protection gadgets like -Safety hand gloves, goggles and ear plug for protection of all operators, engineers and staff would make them safe, while working in DG Set room.
9. Ensure proper safety guards / protections for all moving parts.
10. Use of standard tools and tackles is recommended in the DG Set Room.
11. Electrical cables are fire Hazards during short circuits / failures - Please take proper care while routing of cables particularly power cables Through Cable tray Carrier with a cable tray cover.

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12. DG Set exhaust gas temperature will be about 450 Deg. centigrade and exhaust pipes need proper cladding and insulation.
13. Ensure there is no fuel and lubricating oil leakages in the DG set room, as they are fire Hazards & ensure availability of Spill Kit.
14. Diesel Fuel handling need proper care, No storage of Combustible material with 10 feet distance of DG set. as they are also fire hazards.
15. Please ensure proper care is taken while lifting Heavy parts of the DG Set. The capacity of the lifting cranes should be suitable.
16. Earthing of the DG Set is recommended and please refer to the specific recommendations.
17. Keep tools & other metallic objects away from uncovered batteries. Use standard tools (Electrical insulated tools) to avoid possibility of shorting battery connections while working near batteries.
18. In case of bulk diesel storage and liquid gas storage, proper signage like “NO SMOKING” Boards should be prominently displayed and Ensure availability of Firefighting equipment.
19. Engine lubricating oil, engine coolant and grease are to be disposed at site as per site regulation requirement & respective SPCB regulations and considering MSDS (Material Safety Data Sheet).
20. Engine consumables replaced during maintenance like filters, are to be disposed at site as per site regulation requirement & (respective SPCB regulations)
21. Perform LOTO (Isolation from all energy sources) before working on the DG Set.
22. Please ensure following points on receipt of DG set at site and starting installation work,
23. Disconnect all wiring harness connections to the DG control panel & ECMs, to avoid failure of Electronic Control cards & ECMs due to welding currents.
24. DG Set starting batteries to be disconnected & Perform LOTO (isolation from all the sources) before any welding work or maintenance.
25. Exhaust bend after turbocharger opening to be closed with GI sheet to avoid rainwater entry and welding spatters to engine. Please ensure to remove this GI sheet on completion of the installation work before starting the DG set. Use of PPE for Hot work as like welding screen, leather hand gloves, A surface leather apron, safety helmet, leather leg guards.
26. During transportation of X Series engine mounted DG sets, kindly remove shipping brackets (solid restraints) before starting the DG Set.
27. Safety lockout and tag out process to be followed during maintenance.
28. Ensure availability of access equipment to Work at Height:
  - A) Access to DG set:**
    - Provision of a ladder / staircase to have a 3 point contact any time while going up or down the ladder / staircase.
    - The Ladder / staircase to be of good mechanical Construction.
  - B) Barricading:**
    - DG Set installed at a height (4 feet's) and above ground floor to have a safe barricading of minimum 1.2 m height from the standing platform. The barricading to be at least 1 m from the DG set canopy.
    - The walking platform to be safe for engineers to walk.

#### Regular Maintenance Schedules

Annual, semi-annual or quarterly maintenance schedules ought to be strictly followed to increase the reliability of the equipment. When the unit is inspected and exercised regularly, it continues to deliver consistent output as per expectations. Proactive maintenance also helps in detecting damages and defects at an early

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stage allowing preventive measures to be taken in a timely fashion. Given below is a short list of parts and components that need to be inspected and updated or changed regularly.

1. Cooling system for radiator air restriction, hoses, connections, fluid concentration, belts and louver operation
2. Air intake system for leakages and loose connections
3. Air cleaner, turbocharger, muffler, traps
4. Fuel system for fuel levels, sediments, and proper functioning of the pump
5. Exhaust system for leaks, chokes and flush condensation cap
6. Electrical system to review meters and batteries to be recharged, if required
7. Change oil and filters annually.
8. Diodes, end bearing, brushes and folder, A.C. wiring, exciter stator, over-speed switch and breakers
9. Controls like voltage regulator, wiring, relays, monitors and bulbs
10. Transfer switch for time delays and exerciser clocks to be adjusted or reset
11. Performance parameters such as A.C. output and frequency

While the above are only generic guidelines to be followed for a safe and effective use of the equipment, it is very essential for the user to strictly abide by all the guidelines and instructions detailed in the manual. A few, simple precautions can go a long way in ensuring a safe and optimum use of the product.





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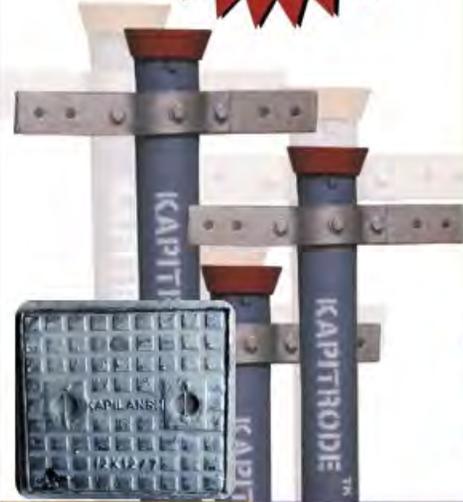
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# ELECTRICAL CONTRACTOR & ELECTRICAL SAFETY



Electrical safety is prime important and should not be taken casually and can culminate in accidents. Therefore, safety should be taken seriously and should be implemented while working. As an electrical contractor, it is important to maintain safety while working on projects. Given below are some electrical safety precautions to be considered always-

**Ajit N. Kulkarni**  
Managing Director of  
M/s Ajit Kulkarni Consultants Pvt. Ltd.,

- 1) Each organization should prepare safety code and same to be informed to all workers.
  - 2) Depute licensed supervisor to supervise the work.
  - 3) Depute qualified safety officer to follow safety at site.
  - 4) Ask workers, supervisors to wear personal protective equipment such as gloves, safety glasses, and helmet while on work.
  - 5) Ensure that all electrical equipment and tools are properly grounded and in good working condition. Hence before work starts same to be checked.
  - 6) Use lockout/tagout procedures to isolate electrical energy sources before performing maintenance or repairs.
  - 7) Follow proper ladder safety procedures when working at heights. Use sturdy aluminium ladders and not wooden one. When a person is working then another person should hold the ladder. In case of working height is more than scaffolding with platform and wheels to be used.
  - 8) Keep electrical cables and wires away from water and heat sources to avoid damage and fire hazards. Protect loose cables, wires from mechanical damage.
  - 9) Check circuits and equipment before working on them to ensure that they are de-energized and not charged.
  - 10) Use plug tops for all tools and never insert loose wires in socket.
  - 11) Use construction board with industrial sockets, MCB and residual current circuit breaker mounted in panel duly wired and fixed on pedestal.
  - 12) Always use ISI mark equipments.
  - 13) Never apply joints in the wires.
  - 14) Never work alone on electrical equipment or circuits.
  - 15) Mark all live electrical panels, circuits, and equipment with appropriate warning signs.
  - 16) Ensure that all electrical installations are up to code and comply with local regulations.
  - 17) Keep electrical panels and access areas clear of debris and other obstructions.
  - 18) Always use insulated tools when working on live electrical equipment or circuits.
  - 19) Use residual circuit breakers and power outlets in wet or damp areas to protect against electric shock.
  - 20) Avoid working in damp or wet conditions. Use appropriate electrical equipment for the appropriate environment.
  - 21) Maintain a safe distance from overhead power lines and always assume that they are live.
  - 22) Follow proper handling and disposal procedures for hazardous materials such as batteries and fluorescent bulbs.
  - 23) Perform regular maintenance and inspections on electrical equipment and systems to ensure that they are in good working condition.
  - 24) Use caution when working with high-voltage equipment and always wear appropriate PPE.
  - 25) Always have a first-aid kit and fire extinguisher on hand in case of emergencies.
  - 26) Provide appropriate training to all workers and ensure that they understand the importance of electrical safety.
- By implementing aforesaid electrical safety precautions, electrical contractors can help ensure that their projects are completed safely and efficiently.

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**Mr. Nitin Aher** (Director)  
Rulka Electricals Pvt. Ltd.

# Electrical Safety is of Paramount Importance.

**Introduction:** In modern industrial environments, electrical safety is of paramount importance. Electrical systems and equipment are essential for the operation of various industrial processes, but they also pose inherent risks, such as the potential for **electrical accidents** and damage caused by lightning strikes. This is where earthing and lightning arrestors play a crucial role in ensuring the safety and reliability of industrial operations.

## What is Earthing?

Earthing, also known as grounding, is the process of establishing a direct electrical connection between an electrical system or equipment and the earth. It involves connecting the conductive parts of the electrical system or equipment to the earth using conductive materials such as copper rods or plates buried in the ground. Earthing provides a low-resistance path for the flow of electrical energy to the ground, which helps in preventing electrical hazards, such as electric shocks and fires, by dissipating excess electrical energy.

### Necessity of Earthing in Industry:

Earthing is an essential safety measure in industrial settings for several reasons:

1. **Protection against electric shocks:** Industrial equipment and machinery are often powered by high voltage electrical systems, which can pose a serious risk of electric shocks to personnel working on or around them. Earthing provides a direct path for the discharge of fault currents to the earth, preventing the buildup of dangerous voltages and minimizing the risk of electric shocks.
2. **Protection of equipment and systems:** Industrial processes often involve the use of sensitive electronic equipment, control systems, and other electrical components that are susceptible to damage from electrical surges and transient voltages. Earthing helps in dissipating such surges and transient voltages, protecting the equipment and systems from

damage and ensuring their reliable operation.

3. **Protection against lightning strikes:** Lightning strikes are a common occurrence in many industrial environments, and they can cause extensive damage to electrical systems and equipment. Earthing provides a path of least resistance for lightning currents to flow into the ground, protecting the electrical systems and equipment from the damaging effects of lightning strikes.
4. **Compliance with safety regulations:** Many industrial safety regulations and standards, such as the Occupational Safety and Health Administration (OSHA) regulations in the United States, require proper earthing of electrical systems and equipment to ensure the safety of workers and the public. Compliance with these regulations is essential for avoiding penalties and legal liabilities.

**What are Lightning Arrestors?** Lightning arrestors, also known as surge protectors or lightning protection systems, are devices designed to protect electrical systems and equipment from damage caused by lightning strikes. They are typically installed at various points in the electrical distribution system, including at the main electrical panel, substations, and individual equipment or systems.

### Necessity of Lightning Arrestors in Industry:

Lightning arrestors are crucial in industrial settings for the following reasons:

1. **Protection against lightning strikes:** Lightning

strikes can cause catastrophic damage to electrical systems and equipment in industrial settings, resulting in production downtime, costly repairs, and potential safety hazards. Lightning arrestors provide a path of least resistance for lightning currents to flow into the ground, protecting the electrical systems and equipment from the damaging effects of lightning strikes.

2. **Prevention of electrical surges:** Lightning strikes can also induce electrical surges in electrical systems and equipment, which can cause damage to sensitive electronic components and disrupt normal operations. Lightning arrestors help in suppressing these electrical surges,

preventing damage to the electrical systems and equipment and ensuring their reliable operation.

3. **Compliance with safety regulations:** Many industrial safety regulations and standards require the installation of lightning arrestors as part of the overall electrical safety measures. Compliance with these regulations is essential for ensuring the safety of workers, protecting assets, and avoiding penalties and legal liabilities.

**Conclusion:** In conclusion, earthing and lightning arrestors are essential safety measures in modern industrial.



## Smart City Pole

The concept of smart cities came into being as a consequential development to internet of things (IoT), digital connectivity, global warming and the compelling necessities for energy saving. More than 50 % of the world's population lives in cities, A city environment, with a closely knit street light network became a natural choice for a smart city concept, hosting sensor networks and wireless communications for traffic control, smart parking, noise and air quality monitoring, incident detection, and more. Smart city lights are not stand alone system. They have to be integrated with other systems under what is known as Internet of Things (IoT). Hence the chosen smart city light poles should be able to accommodate a full range of lighting controls compatible to remote control and integral with suitable sensors for the respective application.

In fact, the smart city pole is going to be a service platform for various services for Network redundancy, application areas such as mobile connectivity (WLAN), traffic control, security camera (CCTV), information transfer, public announcement with loud speakers, smart parking, environmental monitoring and even the electric charger for electric cars etc.,

K-Lite proudly announces the introduction of smart city poles ( Intelligent poles) with its modular solution, to cater to the above needs in the upcoming smart cities with the salient features as below :

Salient Feature of Smart City Pole

One main pole with one to five modules, Smart

column is a multitude of combinations. With flexible modules, the smart column is very handy and flexible for add-on. Choose your combination, add the module, connect them together and the smart column is ready to meet your requirement.



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### SCOPE

<ul style="list-style-type: none"> <li>◆ Risk Analysis</li> <li>◆ Consulting</li> <li>◆ Design</li> <li>◆ BOM</li> <li>◆ Audit</li> <li>◆ Recommendations</li> </ul>	<ul style="list-style-type: none"> <li>◆ Supply</li> <li>◆ Installation</li> <li>◆ Commissioning</li> <li>◆ Testing</li> <li>◆ Training</li> <li>◆ Maintenance</li> </ul>
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WE PROTECT THE ELECTRICAL WORLD

# ELECTRICAL SAFETY IN PANELS

## Introduction:

India is entered in Amrutkal now. Due to soaring capacity of manufacturing and services energy requirement has increased. Facilities are now consuming more power compared to earlier due to multiple reasons. At the same time in few cases required standard process and safety are ignored. This leads to customer complain about the downtime, failure and accidents. Electricity is a critical component of modern life, powering homes, businesses, and industries. However, electrical power can also pose a significant hazard if not handled properly. One of the most important areas of electrical safety concerns electrical panels, which are the hubs of electrical systems. IEC 61439 is an international standard that lays out the requirements for electrical power switchgear and control gear assemblies. This paper will discuss the importance of electrical safety related to electrical panels and the significance of IEC 61439.

## Electrical Safety Related to Electrical Panels:

Electrical panels are cabinets that house electrical components and are the primary distribution point for electrical power in a building or facility. They contain circuit breakers, fuses, switches, and other devices that control and distribute electrical power. Electrical panels must be designed, installed, and maintained according to strict safety standards to ensure the safety of people and property.

Electrical panels can pose significant electrical hazards, including electrocution, burns, and fires, if not handled correctly. Hazards can arise from electrical shock, arc flash, and arc blast. Shock occurs when an electrical current pass through the body, while arc flash is a sudden release of energy that can occur when an electrical fault occurs. An arc blast is a high-pressure wave that can occur when an arc flash happens. These hazards can result in serious injury or death.

### To prevent these hazards,

Electrical Panel must be designed with right sizing protection of circuit breaker rating and use at right protection setting for all required protection. Electrical panels must be installed and maintained according to strict safety standards. Standards include requirements for clearances, wiring, grounding, and protective devices. Panels must also be designed to withstand the effects of electrical faults, Internal Arc Tested and minimize the risk of arc flash and blast.

Panels must be kept clean and free of debris and be accessible for maintenance and inspection. Regular inspections and testing are essential to ensure that panels are functioning correctly and identifying potential hazards particular to Aluminium busbar termination. While doing inspection, it need to ensure that panel has been designed as per breaker manual busbar size recommendation or as per Type tested design to ensure loading capacity as per required mentioned in design stage.

## IEC 61439:

IEC 61439 is an international standard that outlines the requirements for low-voltage switchgear and control gear assemblies. The standard covers all aspects of electrical power switchgear and control gear assemblies, including their design, construction, testing, and performance.

IEC 61439 is significant because it provides a unified set of requirements for electrical power switchgear and control gear assemblies. The standard ensures that products meet minimum safety requirements, are of a consistent quality and are suitable for their intended use. The standard covers everything from the design of individual components to the installation and operation of entire assemblies.

The standard assures end user that they can check for all above 630A breaker Type test report reference on each rating which is missing in earlier standards. By asking for the compliance of this standard user can actually check all relevant Type test report where he can check withdrawable or Fixed breaker is tested, which model and which breaker frame Size used, busbar size, breaker rating and loaded capacity, mechanical Impact to name few critical component to select.

IEC 61439 also provides guidance on the selection, installation, and maintenance of electrical power switchgear and control gear assemblies. The standard emphasizes the importance of proper installation and maintenance and provides guidelines for testing and inspection. This ensures that products remain safe and functional throughout their lifecycle.

## Conclusion:

While ensuring design guidelines, local standards from prominent bodies such as CEA Electrical Safety rules 2021, education on importance of right product and solution is required. Electrical safety related to electrical panels is a critical concern in modern society. Electrical panels must be designed, installed, and maintained according to strict safety standards to prevent electrical hazards. Adherence to IEC 61439 is essential to ensure electrical safety and prevent hazards associated with electrical panels.





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## Teledyne FLIR Unveils Si124-LD Plus Acoustic

Imaging Camera for Compressed Air Leak Detection with Improved Sensitivity, Auto Filtering, and Auto Distancing

This advanced acoustic camera for industrial uses improves performance, efficiency, and ease of use with one-hand operation to pinpoint issues at a safe distance

GOLETA, Calif., April 6, 2023— Teledyne FLIR, part of Teledyne Technologies Incorporated, today announced the Si124-LD Plus, a new addition to its line of Si124 acoustic imaging cameras. This new model provides professional inspectors with an enhanced user interface and software features that improve the ability to pinpoint smaller air compressor leaks more quickly and accurately than ever before to make industrial environments safer and more productive.

The Si124-LD Plus maintains its ergonomic one-hand operational design while offering a number of enhancements to improve its utility and efficiency, including:

- **AutoFilter:** automatically determines the best filter to use for revealing small leaks that might otherwise remain undetected, all the while speeding up inspections by eliminating unrelated background noise.
- **AutoDistance:** automatically measures the distance to the leak for real-time, reliable, leak-rate estimates up to five meters (16 feet) away from the source.
- **Continuous Auto-Correct:** improves leak detection performance to find even smaller air leaks from 0.016 l/min to 0.004 l/min (0.016 l/min = 0.00057 cfm, 0.004 l/min = 0.00014 cfm).

“The Si124-LD Plus acoustic imaging camera represents a step change for industrial compressed air leak inspection,” said Rob Milner, Director, Global Business Development, Teledyne FLIR. “The Si124 line of acoustic imaging devices has already proved to decrease inspection time 10-fold, and now with additional software features such as AutoDistance and AutoFilter with the 'plus' version, industrial inspectors will enjoy even greater efficiency and the ability to detect even smaller leaks than what was once possible. These leaks, if not detected and remedied, can create not only dangerous conditions for buildings and industrial sites but can lead to

costly repairs and unnecessary increases in energy costs.”

The acoustic imaging camera also features an upgraded user interface (UI) and full integration with the powerful FLIR Thermal Studio software for post-inspection analysis and reporting. Importantly, the Si124-LD Plus provides leak quantification both on camera and in software, allowing inspectors to better prioritize repairs and justify expenditures.

FLIR Thermal Studio Integration  
FLIR Thermal Studio empowers operators to import acoustic images from the camera to the desktop software suite to easily edit and analyze acoustic imagery alongside multispectral imagery capture from other Teledyne FLIR inspection tools. This enables inspectors to create advanced reports as part of a comprehensive predictive maintenance or condition monitoring program across the visible, thermal, and acoustic spectrums. The software gives users the ability to create reports through pre-built or fully customizable templates, including multispectral image analysis in the same report or even the same page via drag-and-drop report creation functionality.

The Si124-LD Plus includes two rechargeable batteries with a battery recharger, a neck strap, and a USB memory stick included within a hard case for safe, easy transportation to and from the job site.

Visit [www.flir.in/Si124-LD-Plus](http://www.flir.in/Si124-LD-Plus) for more information and to book your demo, please write to us at [flirindia@flir.com.hk](mailto:flirindia@flir.com.hk) or call us at 91-11-4560 3555.



### About Teledyne FLIR

Teledyne FLIR, a Teledyne Technologies company, is a world leader in intelligent sensing solutions for defense and industrial applications with approximately 4,000 employees worldwide. Founded in 1978, the company creates advanced technologies to help professionals make better, faster decisions that save lives and livelihoods. For more information, please visit [www.teledyneflir.in](http://www.teledyneflir.in) or follow @flir.



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## विद्युत निरीक्षक, पुणे यांच्या कार्यालयाचे नविन जागेत स्थलांतर.



अमर पाटील यांनी केला. तर श्री. नितीन सूर्यवंशी (विद्युत निरीक्षक, पुणे) यांचा सन्मान इकॅम पुणे विभागाचे सचिव श्री. अनिल महाजन यांनी केला.

श्री. वामन भुरे आणि श्री. अमर पाटील यांनी, श्री. संदीप पाटील यांना विद्युत कंत्राटदारांना काम करताना येणाऱ्या अडचणीबाबत माहिती दिली. त्या सोडविण्यासाठी योग्य ती कार्यवाही करण्याची विनंती केली.

या कार्यक्रमासाठी इकॅम महासमितीचे अध्यक्ष श्री. वामन भुरे, इकॅम पुणे विभागाचे अध्यक्ष श्री. अमर पाटील, इकॅम पुणे विभागाचे

दि. ६ एप्रिल २०२३ रोजी, 'विद्युत निरीक्षक, पुणे' यांच्या कार्यालयाचे स्थलांतर, येरवडा येथून नव्या पेठेतील शास्त्री रस्ता येथे झाले.

या नूतन कार्यालयाचे उद्घाटन, श्री. संदीप पाटील (मुख्य विद्युत निरीक्षक), उद्योग, ऊर्जा व कामगार विभाग, महाराष्ट्र शासन. यांच्या हस्ते करण्यात आले. इकॅमच्या वतीने श्री. संदीप पाटील यांचा सन्मान, इकॅम महासमितीचे अध्यक्ष श्री. वामन भुरे यांनी केला. या प्रसंगी श्री. हेमंत गांगुर्डे (अधिक्षक अभियंता, पुणे प्रादेशिक विद्युत मंडळ) यांचा सन्मान, इकॅम पुणे विभागाचे अध्यक्ष श्री.



सचिव श्री. अनिल महाजन, इकॅम महासमितीचे सहसचिव श्री. योगेश पवार, महासमितीचे संचालक सर्वश्री राजेंद्र सिन्नरकर, नरेंद्र शिंदेकर, रविंद्र शिवरेकर, अजय सातपुते, विनोद कोठावडे, इकॅम पुणे विभागाचे सहसचिव श्री. संजय कान्हेकर, इकॅम पुणे विभागाचे खजिनदार श्री. प्रकाश जाधव, इकॅम महासमितीचे माजी महासचिव श्री. मिलिंद नाईक आणि इकॅम पुणे विभागाचे माजी अध्यक्ष श्री. सुनील गायकवाड यांच्यासह इकॅमचे सभासदही मोठ्या संख्येने उपस्थित होते.



# Luker Size Zero BLDC fans

Luker Size Zero BLDC fans are the perfect combination of style, performance, and efficiency. These fans come in a wide range of designs that cater to the varying needs of customers. With high speed and boost mode remote enabled operation, these fans ensure optimum air flow at all times. They consume a mere 28W of power, making them an energy-efficient option for homes and offices.

Luker Size Zero BLDC fans come in a variety of designs, from classic to contemporary, to suit the aesthetics of different spaces. These fans are available in different colours, sizes, and styles to cater to the preferences of customers. The fans are designed to fit in seamlessly with any interior decor, making them a perfect addition to any room. The performance of Luker Size Zero BLDC fans is unmatched and delivers maximum air flow, ensuring that the room is cool and comfortable at all times. The fans also have a boost mode, which increases the speed of the fan to provide instant relief during hot summer days. This feature can be easily accessed through the remote control, making it convenient for users to operate the fan.

Luker Size Zero BLDC fans consume only 28W of power, making them highly energy-efficient. This means that they consume less power compared to

traditional fans, resulting in lower electricity bills. The fans are designed to operate at maximum efficiency, with minimal power consumption. This makes them an eco-friendly option, helping to reduce the carbon footprint. Size Zero BLDC fans come with a remote control that allows users to operate the fan from a distance. This feature is especially useful in large rooms where the fan may be installed at a considerable height. The remote control enables users to adjust the fan speed, turn on/off the boost mode, and set a timer. This makes it convenient for users to operate the fan from the comfort of their couch or bed.

Luker Size Zero BLDC fans are easy to install. And require low maintenance, making them an ideal option for busy households and offices. The fans are designed to be durable and long-lasting, with minimal wear and tear. The blades are made of high-quality materials that are easy to clean and maintain. The fan motor is also designed to be long-lasting, ensuring that the fan performs optimally for years to come. These fans come with a 3-year warranty, providing customers with peace of mind. This ensures that customers can enjoy the benefits of the fan without worrying about any unexpected repair costs.





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## महाराष्ट्र शासन व प्रयास संस्था सहकार्य करार



नारायण कऱ्हाड, आभा शुक्ला सेक्रेटरी एनर्जी, डेप्यु.चिफ् मिनिस्टर फडणवीस, शंतनु दीक्षित प्रयास, श्वेता कुलकर्णी प्रयास

शेतीचा वीजपुरवठा गेली अनेक वर्षे एका दुष्टचक्रात अडकून पडला आहे. वीज पुरवठा अंदाजाने मोजला जातो, वीज पुरवठ्याचा दर्जा खालावलेला आहे, वीज भरणा वेळेत होत नाही व थकबाकी भरमसाठ वाढली आहे. परिणामी ना शेती वीज ग्राहक समाधानी आहे, ना वीज मंडळाची आर्थिक परिस्थिती सुधारत आहे, ना इतर वीज ग्राहकांना चांगल्या दर्जाची व रास्त किमतीत वीज उपलब्ध होत आहे. असे असूनही शेतीच्या वीज पुरवठ्यासाठी राज्य सरकारलाही वाढता आर्थिक भार सोसावा लागत आहे व त्याचा परिणाम इतर सामाजिक क्षेत्रांच्या आर्थिक तरतुदीवरही होत आहे. या दुष्टचक्रातून बाहेर पडायचे असेल तर सर्वच संबंधित घटकांना परस्परांवरील विश्वास वाढवण्याच्या दृष्टीने उपाय योजना आखाव्या लागतील. त्यासाठीच्या निर्णय

प्रक्रिया देखील संपूर्ण पारदर्शक व विविध घटकांना जबाबदार आणि उत्तरदायी करणाऱ्या असाव्या लागतील. यादृष्टीने राज्यात सध्या राबविण्यात येणाऱ्या दोन योजना महत्त्वाच्या ठरतात. पहिली योजना म्हणजे सौर कृषी वाहिनी योजना. या योजनेअंतर्गत शेतीला वीज पुरवठा करणाऱ्या वीज वाहिन्यांच्या सब स्टेशनच्या जवळ छोटे (म्हणजे १ ते १० मेगावॉट क्षमतेचे) सौर प्रकल्प उभारले जातात व ते वीज कंपनीच्या जाळ्याशी संलग्न असतात. हे प्रकल्प कार्यान्वित झाल्यानंतर त्या कृषी वाहिनीवरील शेतकऱ्यांना कायमस्वरूपी दिवसा ८ ते १० तास वीजपुरवठा करण्यात येतो. सौर ऊर्जेच्या निर्मितीचा काळ दिवसाचा असल्यामुळे असा दिवसा वीज पुरवठा करणे वीज कंपनीला शक्य होते. सब स्टेशनजवळ वीज निर्मिती होत असल्यामुळे वाहिनीवरील विजेचा दर्जा देखील सुधारतो, व्होल्टेज योग्य मर्यादित राहण्यास मदत होते. अशा सौर प्रकल्पातून मिळणाऱ्या विजेची किंमत सुमारे ३ रुपये प्रति युनिट असते व हा दर पुढील २५ वर्षे स्थिर राहतो, म्हणजेच महागाई मुक्त असतो. ही योजना वीज मंडळ व राज्य सरकारला कोणतेही अनुदान न देता वा भांडवली गुंतवणूक न करता राबवता येते. त्यामुळे सर्वांगीण विचार करता एका बाजूला वीज कंपनी साठी ही योजना आर्थिकदृष्ट्या किफायतशीर आहे, त्याच बरोबर शेतकऱ्यांनाही दिवसा, खात्रीचा, योग्य दर्जाचा वीज पुरवठा या योजनेद्वारे करता येतो. या योजनेला नियामक आयोगानेही मान्यता व प्रोत्साहन दिले आहे. आज मीतीला राज्यामध्ये सुमारे ३००० मेगा वॉट पेक्षा जास्त क्षमतेचे असे प्रकल्प अंमलबजावणीच्या विविध टप्प्यावर आहेत. ही योजना अधिक प्रभावीपणे राबवण्यासाठी राज्य सरकारने मिशन २०२५ राबवण्याचं निर्णय घेतला आहे याद्वारे मुख्यमंत्री सौर कृषी वाहिनी योजना राज्यभर मोठ्या प्रमाणात राबवण्यात येईल त्याद्वारे शेतकऱ्यांना दिवसा वीजपुरवठा केला जाईल.



- नरेंद्र शिंदेकर, संचालक  
Ecam, महाराष्ट्र राज्य समिती



दि. १८/४/२३ रोजी विद्युत निरीक्षक धुळे यांची विभागाचे संचालक मंडळाने भेट घेतली. सोलर उभारणीचे काम हे विद्युत ठेकेदारानेच केले पाहिजे अशी मागणी केली व ईतर अनेक विषयावर चर्चा केली.

# इकॅम धुळे नंदुरबार विभागातर्फे वितरण कंपनीस निवेदन

उपरोक्त विषयास अनुसरून आम्ही आपणास निवेदन करतो की, आपल्या मंडळ कार्यालया मधील विविध विभागीय व उपविभागीय कार्यालय मध्ये आमचे विविध ठेकेदार वेगवेगळी कामे ही वर्क ऑर्डर प्रमाणे व मंजूर अंदाज पत्रका प्रमाणे कामे पूर्ण करित आहेत. तसेच काम करत असतांना आमच्या सर्व ठेकेदार बांधवांवर खालील अडीअडचणी येत आहेत. तरी महोदयांनी यात लक्ष घालून त्या सोडवाव्यात व आम्हास उचित न्याय द्यावा ही विनंती.

१) गेल्या तीन वर्षांपासून कोरोना काळात आपल्या विभागात कोणतीही नवीन निविदा निघाल्या नाहीत. तसेच नियमा प्रमाणे दरवर्षी Panel Empanelment मध्ये एकही नवीन ठेकेदार सामावून घेतला जात नाही. तसेच गेल्या चार वर्षात म्हणजे सन 2019-2020-2021-2022 या वर्षात Empanelment ठेकेदार यांना सोडून इतर सर्व ठेकेदार यांना महावितरणची वर्क ऑर्डर नसल्याने महावितरणच्या कामाचा अनुभव अनिवार्य करू नये व ती अट नवीन Tender काढतांना शिथिल करण्यात यावी. त्याच्या मागील वर्षाचे Work Order ग्राह्य धरण्यात यावीत. व सुशिक्षित बेरोजगार अभियंता यांना जसे विना अनुभव कामे दिली जातात तसेच जे ठेकेदारांनी महावितरण मध्ये काम केलेले नाही परंतु त्यांच्या कडे विद्युत परवाना आहे अशा जुन्या व नवीन ठेकेदारांना Empanelment मध्ये समाविष्ट करण्यात यावे.

२) तसेच विविध ठिकाणी तांत्रिक अंदाजपत्रक मंजूर न करता कामे ही अनाधिकृत व्यक्ति कडून अनाधिकृत पध्दतीने केली जातात. ती पध्दत बंद करण्यात यावी. म्हणजेच काम हे अधिकृत ठेकेदार यांचे कडून करून घ्यावीत जेणे करून काही अनुचित घटना घडणार नाही.

महावितरणच्या धुळे मंडळ कार्यालया मध्ये Preventive and Breakdown Maintenance Empanelment मध्ये बजेट देतांना तिन्ही विभागाला म्हणजे धुळे ग्रामीण, धुळे शहर व दोंडाईचा समान वाटप करण्यात यावे व कुठलाही भेदभाव न करता देण्यात यावा. परंतु आजच्या परिस्थितीत असे निदर्शनास येत नाही. महावितरणच्या धुळे येथील

कार्यालयात बजेट वितरीत करतांना समान पध्दतीने बजेट देण्यात येत नाही या बाबत बरेच ठेकेदार आमच्याकडे तक्रार करित आहेत. तसेच आपणास मागील एक वर्षात आलेला बजेट व वितरीत करण्यात आलेल्या बजेटची माहिती उपलब्ध करून देण्यात यावी म्हणजे सदर बाब आपल्या निदर्शनास येईल. तसेच त्या बाबतीत आम्ही आमच्या राज्य स्तरीय बैठकीत सदरचा विषय मांडून सदरचा विषय महावितरणच्या वरीष्ठ कार्यालयात या बाबत कार्यवाही करण्यास्तव पाठविण्यात येईल व तशी विनंती आमच्या संघटनेच्या वरीष्ठ स्तराच्या बैठकीत करून कार्यवाही करण्याबाबत विनंती करण्यात येईल. सदर माहिती देत असतांना बजेट कोणत्या तारखेला प्राप्त झाले? कोणत्या तारखेला वितरीत करण्यात आले? कोणाला किती वितरीत केले? वितरण करतांना कोणत्या निकषाचे वापर करण्यात आले? कोणत्या

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विभागाची किती बजेटची मागणी होती? सदर मागणी कोणत्या तारखेची होती? या सर्व बाबींचा देखिल खुलासा करावा.

मागील वर्षी धुळे UCR Division व धुळे ग्रामीण डिव्हिजन या दोन्ही विभागा मध्ये Maintenance Empanelment चे टेंडर काढण्यात आले होते. त्यापैकी धुळे ग्रामीण डिव्हिजनचे सदर टेंडर उघडण्यात आले व नवीन ठेकेदारांचे Maintenance Empanelment करण्यात आले. परंतु धुळे UCR Division ने त्यावर काही एक कार्यवाही केलेली नाही व आमच्या ठेकेदारांना त्या बाबत कळविलेले नाही. तरी आपणास विनंती की, सदर UCR Division चे टेंडर नंबर EE/UCR/T/ 21-22/02 ते 06 चे संदर्भात पुढे काय प्रक्रिया करण्यात आली? त्याचा खुलासा करण्यात यावा.

ठेकेदार बांधवांची बीले ही लवकर ऑडीट होत नाहीत व काही न काही कारणास्तव बीलाची मागणी मंडळ कार्यालयाकडून अडविण्यात येते. व बिलांची मागणी ही महिन्यातून दोन वेळा मंडळ कार्यालयाकडून व विभागीय कार्यालयाकडून मुख्य कार्यालयात पाठविणे बाबत सूचना आहे. तरी आपल्या मंडळ कार्यालयात सदरची बीले मुख्य कार्यालयात न पाठविता बरेच दिवस पडून असतात. आपण यात जातीने लक्ष घालून योग्य ती कार्यवाही करावी.

1.3 % DDF ची अंदाजपत्रक ही ठेकेदारांचे विद्युत परवाना प्रत पाहूनच त्याची मंजूरी देण्यात यावी व काम करणारा जर ठेकेदार बदलला तर पूर्वीचे ठेकेदार याचे ना हरकत पत्रा शिवाय पुढील कामासाठी सक्षम अधिकारी यांनी संमती देवू नये. किंवा ते अंदाजपत्रक रद्द करून नवीन काम करणाऱ्या ठेकेदारा मार्फत नवीन अंदाज पत्रक मंजूर करून घ्यावे. तसेच प्रत्येक मंजूर अंदाजपत्रकात काम करणारे ठेकेदाराचे नाव समाविष्ट करावे. जेणे करून उर्जा व कामगार विभागाचे लक्ष राहिल व तशी मंजूरीचे रेकॉर्ड तयार होईल.

- ७) विविध प्रकारच्या महावितरणच्या नवीन योजना येत असतात. आलेल्या नवीन योजनांचे मार्गदर्शन व चर्चासत्र सर्व ठेकेदारांना बोलवून करण्यात यावे. नवीन उपाय योजनेची अंमलबजावणी करण्यात यावी.
- ८) सर्व नवीन विद्युत पुरवठा करतांना ठेकेदारचा टेस्ट रिपोर्ट हा नमुना डी प्रमाणे प्रमाणित असेल तरच स्वीकारावा तसेच विविध प्रत्येक विद्युत पुरवठा देतांना ठेकेदार टेस्ट रिपोर्ट पत्रा शिवाय नवीन पुरवठ्याची प्रक्रिया पूर्ण करू नये.

तसेच नवीन लाईन उभारणीचे काम करत असतांना ठेकेदारची माणसे कामावर असतात. त्यांना वेळेवर विद्युत लाईन बंद करून देत नाहीत. जेणे करून त्या दिवसाचे रोजंदारीची रक्कम ही ठेकेदारास अदा करावी लागते. त्यामुळे ठेकेदाराचे आर्थिक नुकसान होते. तरी सदर काम करित असतांना ठेकेदारास आर्थिक भूरदंड सहन करावा लागतो. त्यासाठी आपण आपल्या स्तरा वरून परिपत्रका व्दारे किंवा पत्रा व्दारे आपल्या कनिष्ठ कार्यालयांना सूचना देण्यात याव्यात. व त्याची अंमलबजावणी देखिल करण्याबाबत निर्देशित करण्यात यावे.

- १०) नवीन अंदाजपत्रके मंजूर करण्यासाठी व वरीष्ठ कार्यालयाच्या निर्देशा प्रमाणे विविध योजनांचे अंतर्गत अर्ज केलेल्या ग्राहकास जर वेळेत अंदाज पत्रक मंजूर करणे, इ. बाबींसाठी वीज नियामक आयोगाच्या सप्लाय कोड नुसार तसेच आपल्या वरीष्ठ कार्यालयांच्या परिपत्रकामध्ये निर्धारित केलेल्या वेळेत काम होत नसतील तर त्यासाठी विलंब करणारे जबाबदार अधिकारी यांचे वर SOP ची कार्यवाही व मार्गदर्शक तत्वाची अंमलबजावणी करण्यात यावी.

तरी आदरणीय महोदयांनी आमचा सकारात्मक विचार करून योग्य तो न्याय द्यावा. ही नम्र विनंती.

प्रविण बडगुजर, अनिल पवार, सचिव



## नगर विभागातर्फे शिवजयंती साजरी झाली

सालाबाद प्रमाणे शनिवार दिनांक १९/०२/२०२३ रोजी सर्कल ऑफिस अहमदनगर येथे श्री छत्रपती शिवाजी महाराज जयंती मोठ्या उत्साहात साजरी करण्यात आली. त्या प्रसंगी नगर विभागातील ईकॅम्पचे पदाधिकारी व सभासद बहुसंख्येने उपस्थित होते. सकाळी १०.०० वाजता श्री छत्रपती शिवाजी महाराज यांच्या प्रतिमेस पुष्पहार अर्पण करून आरती करण्यात आली. तसेच महापुरुषांच्या प्रतिमेस पुष्पहार अर्पण करून कार्यक्रमास सुरुवात झाली. सकाळी ११.०० वाजता शिव व्याख्यते श्री राहुल मारुती नलवडे. (रायबा) पुणे यांचे शिवचरित्र पर व्याख्यान झाले. दुपारी १२.३० वाजता स्नेहभोजना नंतर



कार्यक्रमाची सांगता झाली. सदर कार्यक्रमास महावितरण कार्यालयाचे अधिकारी व कर्मचारी आवर्जून उपस्थित रहावे होते.

पॉलीकॅब कंपनीचे मालक श्री इंदरसेठ जयसिंगानी यांच्या वाढदिवसाच्या  
निमित्त रक्तदान शिबिराचे आयोजन



बुधवार दिनांक 29.03.2023 रोजी पॉलीकॅब कंपनीचे श्री इंदरसेठ यांच्या वाढदिवसाच्या निमित्ताने व अहमदनगर विभागाचे 25 वे राज्याचे शतक मोहत्सवी वर्षाचे अवचीत्य साधून समाजिक भावनेतून अहमदनगर येथे रक्तदान शिबिराचे आयोजन केले होते. पॉलीकॅब, इकॅम व डिलर असोसिएशन याच्या संयुक्त सहकार्याने शिबिराचे आयोजन करण्यात आले

होते. खूप चांगला प्रतिसाद मिळाला. आणि त्याप्रसंगी इकॅमचे राज्याचे उपाध्यक्ष श्री उमेश रेखे, सोशल वेलफेअर समितीचे अरमन श्री मनोहर शहाणे, डीलर असोसिएशनचे श्री वसंतसेठ शहा उपस्थित होते. असेच समाजाभिमुख कार्यक्रम आयोजित करण्यात यावेत त्यासाठी आमचे नेहमीच सहकार्य राहिल. अशी आम्ही पॉलीकॅब कंपनीच्या प्रतिनिधींना ग्वाही दिली.

नगर विभागाच्या नवीन जागेवर बोअरवेलची व्यवस्था



चेअरमन श्री मनोहर शहाणे राज्य संचालक राज्य पावर सप्लाय कमिटीचे अरमन श्री. अमित गरूड संचालक, श्री. संदीप डोळस, श्री. राम गुंड, श्री. योगेश उघडे, श्री. अभिजीत कांडेकर इत्यादी मान्यवर उपस्थित होते.

दिनांक 16/03/2023 शुभ दिनी आपल्या नवीन जागेवर बोअरवेल घेण्यात आला. याप्रसंगी संघटनेचे महाराष्ट्र राज्याच्या उपाध्यक्ष श्री उमेश रेखे अहमदनगर विभागाचे तरुण तडफदार अध्यक्ष श्री. दत्ता झिंजुडे सचिव श्री. अर्जून ससे सहसचिव श्री श्रीकांत (आबा) देवढे राज्य संचालक सभासद वृद्धि समितीचे अरमन - श्री अमोल कोळपकर राज्य संचालक सोशल वेलफेअर समिती

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शाहू नगर, जळगाव - ४२५००१, मो. नं. - ९८२२६३८२०२

Complex, Shahu Nagar, Jalgaon. Mob. 9822638202

ई-मेल:- ecamjalgaon@gmail.com

E-mail : ecamjalgaon@gmail.com

Ref : इकॅम/२३-२४/०२

दि : ११.०४.२०२३

प्रति,

मा. चिफ इंजीनियर डिस्ट्रीब्युशन,  
महावितरण, हेडऑफिस,  
मुंबई.

**विषय :-** महावितरण कंपनीतील सब-स्टेशन मेन्टनसचेच्या निविदेतील अट शिथिल करणेबाबत.

**संदर्भ :-** महावितरण जळगाव निविदा क्रमांक SE/JLG/T-19/2022-23.

मा. महोदय,

वरील विषयास अनुसरून आपणास कळविण्यात येते की, सम्पूर्ण महाराष्ट्रात महावितरण मंडळ कार्यालयमार्फत त्यांच्या अधीनस्त 33/11 के.वी. सब-स्टेशन मेन्टनसच्या कामाकारिता निविदा काढण्यात आलेल्या आहेत. त्या निविदेत ज्या कंत्राटदाराला नवीन सबस्टेशन उभारणीच्या कामाचा अनुभव असेल अश्याच कंत्राटदारांना सब स्टेशन मेन्टनेसचे काम देण्यात येईल अशी अट टाकण्यात आलेली आहे. असे कंत्राटदार राज्यात मोजकेच असून ते सब स्टेशन मेन्टनसची लहान मोठी कामे वेळेवर पूर्ण करतील का या बाबत शंका आहे. या पूर्वी देखील सन 2020 मध्ये 33/11के.व्ही. सब स्टेशन मेन्टनसच्या कामाकरीता निविदा काढण्यात आलेल्या होत्या, परंतु त्यावेळी कोणत्याही मोठ्या कंत्राटदाराने त्यास प्रतिसाद दिला नाही. तेव्हा अश्या बिकट परिस्थितीत स्थानीक कंत्राटदारांना ही अट शिथिल करून कंत्राट देण्यात आले होते. अश्या वेळी स्थानीय लहान कंत्राटदारांनी कंपनीला साथ देवून मागील 3 वर्षांपासून आपली जबाबदारी यशस्वीपणे पार पाडत आहे. अश्या लहान स्थानीय कंत्राटदारांना या निविदेत डावलण्याची शक्यता आहे.

तरी आपणांस नम्र विनंती करण्यात येते की, आमच्या मागणीचा सहानुभूतिपूर्वक विचार करण्यात यावा व सब स्टेशन मेन्टनेसचेच्या निविदेतील अट शिथिल करून लहान कंत्राटदारांना न्याय देण्यात यावा.

धन्यवाद,

आपला विश्वासु



अध्यक्ष

इकॅम जळगाव विभाग

प्रत माहितीस्तव :-

१. मा.व्यवस्थापकीय चेयरमन आणि संचालक.
२. मा. ऊर्जामंत्री, महाराष्ट्र राज्य.

# Bentec India Limited

# BENLO

A Product of **BENTEC** INDIA LTD

**Bentec India Limited is established in year 1984 and situated in one of the industrial areas in Kolkata. The company is located approximately 16Km from Howrah station, 12Km from Sealdah station, 40Km from Kolkata Airport and 8Km from Khidirpur Dock. Mr. Om Prakash Agarwal, Mr. Raj Kapoor Bhartia, Mr. Anup Bhartia and Mr. Kailash Chand Agarwal joined in the Board of Directors. The company started manufacturing KWH energy Meters of different ratings i.e. 5-20 Amp., 5-30 Amp ,10-60 Amps ,20- 100Amps etc and supplied to valued customers like CESC Ltd., West Bengal State Electricity Distribution Company limited (WBSEDCL), Assam State Electricity Board (A.S.E.B.), Tamil Nadu State Electricity Board (T.N.S.E.B.), Maharashtra state Electricity Board (M.S.E.B.) and many others power utilities in India.**

## Your Safety Our Priority

- We an environment friendly company and care for a better and safer World. We seek to minimize the environmental impact of our technologies and products, passing on this expertise to customers and suppliers, at the same time as trying to ensure that our business is environmentally friendly and energy-efficient.
- Fire Prevention at Workplaces and install fire extinguisher near the kitchen/ working areas and have it checked periodically.
- Teach all workers safety rules for matches, fires, electrical outlets, electrical cords, stoves, and chemicals.
- Instruct and buy flame-retardant fabric for workers. Install ESD resistant mats in every working area.
- Practice Fire Drills every month and ensure each worker understand its importance Know the emergency number for your fire department; 100 is in place in most communities, but not all. Remember to get out first if there is a fire, then call for help once safely outside.
- Teach people enough to understand to stop, drop, and roll if their clothing catches on fire so they can help put out the flames and avoid serious burns.
- Help plan a fire escape route. Choose a meeting place outside the building where everyone will

gather and be sure they know never to go back inside a burning building.

- Live up to a Better and Safer World.



Mobile : 92726 37523

*Sanjay Krishna Patil*

# Jivdani

## Electrical Co.

All kinds of Pole & Line Installation Work

Govt. Licence Electric Contractor

67, Patankar Park, Station Road, Nallasopara (W), Taluka - Vasai, Palghar-401 203.

## Why does Prolite participate in exhibitions, seminars and conferences regularly?

**P**rolite is in the business of saving lives, lives that are at perpetual risk due to the negligence and ignorance of people who are legally and morally supposed to know.

As our promoters or distributors, you already know that enclosed spaces must have emergency lights and signs and that too, of certain specifications as mandated by NBC. And you also know that most people, other than developers, builders and architects are not aware of the rules and the fine print. This is what encourages the building, construction related fraternity to save a few bucks by not providing for even minimum adequate exigency tools which they are **LEGALLY OBLIGED TO DO**, right at the time the first brick is laid for any construction.

This sounds stupid, but it is an unfortunate fact that a handful are saving, and even making, big money on the ignorance of their own clientele by putting their lives at risk in the bargain. Therefore, it is important and wise for those who want to increase sales of safety products to make the general public aware of this and how they need to insist on having full safety guarantee before they purchase, rent or occupy any form of enclosed premises.

Running small awareness workshops for your district, mohalla or community, aligning with fire safety programs and drills and encouraging common people to attend, putting up posters about this subject, will automatically boost sales and the people you educate will become your sales force. Prolite does this regularly for common people, as well as for professionals, corporates and anyone willing to listen. If you take that extra step, you will not only make better sales but also do the people and the country a whole lot of good.

One of the greatest B2B and even B2C platforms for sales promotion and marketing is undoubtedly an exhibition. This is a platform where people do not come to visit a particular kiosk or buy a particular product. The reason invariably is to browse and gain knowledge and collect information about that particular range of products and/or services on display before taking an informed decision.

Prolite is in a rare breed of manufacturers and service providers that deal not so much in

products, but on informing and educating people from all classes and levels of society on how each one of them need to install emergency lights and suitable ranges of signages to be safe and secure in their surroundings-whatever be their class, type or nature.

It is a quirky truth that except for people related to the safety industry, even highly educated and wise people cannot understand or comprehend phrases like safe exigency, golden moments and first response so what can be said of the lesser classes. Yet, each of these terms **DIRECTLY** relate to the office staffers, or restaurant waiters or housewives or even peons who in most cases may be in the immediate, direct line of fire in a blackout, fire accident or similar circumstances.

When a casual browser visits Prolite's stall and out of sheer curiosity, walks in and **ASKS**, what he or she learns may probably form the foundation of a greater and better safety environment in the future. The visitors learn about products that are absolutely essential for installation in enclosed spaces and how to use them in the golden moments when a little hesitation can cause loss of life itself. They learn that it is not only essential to install these paraphernalia but mandatory as per NBC. They learn that if the architects and builders/developers have neglected to do so in the premises where they dwell or even visit, they have every right to take them to task for putting their lives and belongings at risk. They come out much wiser. So, if a CEO or MD or corporate head decides to visit an exhibition related directly or even indirectly, to safety and security they would be well advised to not just take their family along but also the cook, the sweeper, the gardener and the work maid or anyone else who wants to tag along.





## इकॅम पुणे विभागाच्या कार्यालयाचे नूतनीकरण

के के मार्केट येथील इकॅम पुणे कार्यालयास दहा वर्षे पूर्ण झाली. या निमित्ताने काही डागडुजी आणि नूतनीकरण करावी, अशी कल्पना अध्यक्ष श्री. अमर पाटील आणि सचिव श्री. अनिल महाजन यांनी मांडली. यानुसार सर्वानुमते हे काम करावयाचे ठरले. हे काम करवून घेण्याची जबाबदारी सहसचिव श्री. संजय कान्हेकर यांनी घेतली, आणि ती समर्थपणे पार पाडली. त्यांच्या देखरेखीखाली सदर काम अतिशय उत्कृष्टपणे झाले आहे.

यासाठी कार्यालयीन सहकारी श्री. ऋषीकेश चौधरी, खजिनदार श्री. प्रकाश जाधव आणि महासमितीचे संचालक श्री. राजेंद्र सिन्नरकर यांचे मोलाचे सहकार्य लाभले.





### sunil electric company

AUTHORISED CHANNEL PARTNERS

<div style="text-align: center; font-weight: bold; color: green;">Schneider Electric</div> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p style="font-size: small;">Neobreak &amp; ACTI 9</p>  <p style="font-size: x-small;">MCB's, D.B.'s RCCB's &amp; Plug Sockets</p> </div> <div style="text-align: center;"> <p style="font-size: small;">MCCB's</p>  <p style="font-size: x-small;">Easypact CVS &amp; NSX16A to 1250A</p> </div> </div> <div style="display: flex; justify-content: space-around; font-size: x-small;"> <div style="text-align: center;"> <p>ACB</p>  <p>Masterpact MVS ACB 800A to 3200A</p> </div> <div style="text-align: center;"> <p>ATS</p>  <p>Auto Source Change over 100A to 630A</p> </div> <div style="text-align: center;"> <p>Capacitors</p>  <p>Meher Capacitors Dry Type MPP type &amp; Gas filled</p> </div> </div> <div style="text-align: center; font-size: x-small;"> <p>Contactors &amp; Relays</p>  <p>TESYS E &amp; D Model</p> </div>	<div style="text-align: center; font-weight: bold; color: blue;">CLIPSAL</div> <div style="text-align: center; font-size: x-small;"> <p>opale</p> <p>Switches with Satin Finish</p>  </div> <div style="text-align: center; font-size: x-small;"> <p>ZENcelo be in-Standing</p>  </div> <div style="text-align: center; font-size: x-small;"> <p>neo</p> <p>CONCRETO</p>  </div> <div style="text-align: center; font-size: x-small;"> <p>LIVIA</p> <p>Life. Style.</p>  </div> <div style="text-align: center; font-size: x-small;"> <p>ULTI</p> <p>Home Automation</p>  </div>
<div style="text-align: center; font-weight: bold; color: blue;">Neptune- Bals</div> <p style="font-size: x-small; text-align: center;">Neptune Bals (Made in Germany) CE marked PVC Industrial plugs, sockets &amp; Interlocks</p> <div style="display: flex; justify-content: space-around;">  </div>	<div style="text-align: center; font-weight: bold; color: blue; font-size: 2em;">KEI</div> <p style="text-align: center; font-weight: bold; color: blue;">Wires and Cables</p> <p style="text-align: center; color: blue;">The power behind the power</p> <div style="text-align: center;">  </div>

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**Mr Sujay Tambaku** - Director  
Q Sine Energy Solution LLP.

## The goal is to produce power in a sustainable way which does not deplete natural resources.

**Q. Conservation of energy is very important in present times. Kindly give your views in this regard. Also please explain what Q Sine is doing to resolve the issue of power saving.**

Conservation of energy refers to use energy resources in responsible and sustainable manner, to reduce waste and minimise the environmental impact. As the demand of energy continues to rise due to population growth, urbanisation and industrialization, conservation of energy becomes crucial for all of us. It has significant impact on environment, it also brings the economic benefits and it is our social responsibility to contribute for conserving energy to ensure a sustainable future for ourselves and future generations.

After 3 decades of experience in the power electronics field, we formed **Q Sine** with a mission to contribute to the noble cause of conserving energy. Our goal is to help industries optimise their electricity bills by conducting a thorough study of their utility power network and providing efficient reactive energy solutions, as well as effective management of power quality issues such as harmonics. We use the latest state-of-the-art product solutions that are used globally to ensure we remain up-to-date with the latest developments in the field. By partnering with **Q Sine**, companies can reduce their environmental impact, save money and contribute to the sustainable development of society.

**Q. What is the concept of a clean power solution? How do you educate your customers in this respect?**

A clean power solution refers to use of renewable energy sources, such as Solar, Wind and hydroelectric power to generate electricity in a way that minimizes or eliminates harmful environmental impacts. The goal is to produce power in a sustainable way which does not deplete natural resources.

To educate our customers on the concept of clean energy solution, we mainly work in 3 verticals –

- A. Reactive Energy Management
- B. Design and Supply of Solar PV plant
- C. Design and Supply of Battery Energy Storage System (BESS)

We focus on the following areas to educate our customers:

- **Environmental benefits:** We explain how renewable energy sources can reduce carbon emissions and other harmful pollutants, leading to a cleaner environment.
- **Cost Savings:** We demonstrate how investing in renewable energy can lead to long term savings for business against expensive traditional power sources.
- **Technology options:** We provide information on the various technologies available for clean power solutions including Solar PV panels, BESS and explain pro and cons.
- **Reduction in Energy consumption:** By reducing our energy consumption, we can lower our carbon footprint, reduce our reliance on fossil fuels and save money on utility bills.

Overall, our approach is to provide clear and concise information to our customers about the benefits and options available for clean power solutions to help them to take right decision.

**Q. You must be doing research for the same. Please give details of your R&D activities.**

Every customer site represents a unique learning experience for us, as power quality issues can vary across different segments that we work with. Our continuous research and development (R&D) process allows us to learn from each customer site we undertake, in order to provide effective solutions and continuously improve our offerings for future projects.

**Q. What are your plans of expansion for the next three years? Any new product?**

We have established close partnerships with the steel, cement, forging and manufacturing industries where the potential savings and return of investment

(ROI) of our solutions is particularly attractive to customers. Our Goal is to expand our reach within these industries and cover a wide range of sub-segments over the next 2 years, as we work towards achieving our target revenue of 25 Crore by 2025.

**Q. IECT represents electrical contractors. What can be done to improve the interaction with the contracting fraternity?**

I am not familiar with the current structure, but it may be worthwhile to start by correcting the data about contractors based on their areas of expertise, revenue, and other relevant factors. We could then arrange monthly or quarterly meetings to share the latest updates and industry insights through information lectures given by experienced professionals working in this field. This would provide valuable information to the contractors that can directly help them in their business operations. We can do the third party survey to know the requirements of contractors and provide a useful platform like website with technical data required and upgrade periodically with their feedback.

We can start the awards (Best contractor of the year) in various categories by IECT.

**Q. What advice would you like to give to the young business men?**

As a young business person, it's important to

always prioritize excellent customer service and focus on delivering high-quality products or services that meet or exceed customer expectations. Rather than just selling products, try to provide solutions that can address the specific needs and challenges of your customers. By doing so, you can build stronger relationships with your customers and establish a reputation as a trusted and reliable provider. Remember, customer satisfaction is key to the long-term success of any business, so always put the needs of your customers first. Off course, Detailed business plan, developing committed team, embracing new technology and financial knowledge is equally important.

One major thing is not to get discouraged by failures or setbacks. Instead, use them as opportunities to learn, grow, and improve.

**Q. Please share your hobbies, travelling, art, culture, social work etc**

Traveling to new places and learning about diverse cultures is something I'm passionate about. When I have free time, I turn to literature for comfort and inspiration, whether it's a timeless novel or a memoir that stimulates my thoughts. Through reading, I can expand my outlook and gain fresh insights, which enriches my life in many ways.







# Automatic Electric Ltd.

---

- Mining Transformer
- Lighting Transformer
- Loading Transformer

- Furnace Transformer
- Motor starting
- Auto Transformer

- Rectifier Transformer
- Ultra Isolation
- Transformer

---

**Type of Transformer**

- Single Phase
- Three Phase
- Three Phase to single Phase
- Three Phase to Two Phase (Scott)

**Type of Transformer**

- Double wound Transformer
- Auto wound Transformer

**Type of cooling**

- Natural Air cooled
- Natural Oil cooled

---

**Salient features**

- Ranging form 12V to 660V at 50 Hz / 60 Hz
- Capacity 0.5 to 800 KVA
- Taps can be provided with OFF load Tap changer or using links.

- Conforms to IS2026,11171
- Class of insulation class B/F/H
- Efficiency better than 96%
- Regulation better than 5%

---

**Vibhav C. Shukla** (Manager - Projects & Marketing)  
Mobile : +91 93200 93044 / 96196 29844 / E-mail : vs@aelindia.com/vibhaw.ael@gmail.com

Rectifier House, 570 Naigaum Cross Road Wadala, Mumbai - 400 031 Website: www.aelindia.com

## At Lafit Lighting Solutions

**A**s a leading provider of lighting solutions for the architectural and commercial sectors, Lafit Lighting Solutions LLP is committed to delivering high-quality products and services that prioritize safety, sustainability, and customer satisfaction.

At Lafit Lighting Solutions, we recognize that electrical safety is a critical concern for our customers. Electrical accidents can cause severe injuries, property damage, and even loss of life. That's why we place a strong emphasis on ensuring that our products meet the highest safety standards, including compliance with all relevant regulations and certifications. Our team of experts works tirelessly to develop cutting-edge lighting solutions that not only provide exceptional performance but also ensure the safety of our customers and their facilities.

One of the ways we ensure electrical safety is by incorporating advanced technologies into our products. We work closely with our suppliers to ensure that our products are manufactured using high-quality materials and components that meet the highest safety standards.

In addition to prioritizing electrical safety, we are

also committed to sustainability. We recognize that the lighting industry has a significant impact on the environment, and we strive to minimize our environmental footprint through the use of sustainable materials, energy-efficient technologies, and responsible manufacturing practices.

Our commitment to sustainability is reflected in every aspect of our business, from our design and development processes to our manufacturing and supply chain management. We believe that sustainability and innovation go hand in hand with electrical safety. By developing and implementing sustainable lighting solutions, we not only reduce our environmental impact but also promote the safety of our products and services.

At Lafit Lighting Solutions, we understand that each customer's needs are unique, and we work closely with our clients to develop customized lighting solutions that meet their specific requirements. Our team of experts has extensive experience in the lighting industry, and we leverage our expertise to provide our customers with exceptional service and support. We are dedicated to delivering high-quality products and services that exceed our customers' expectations while also ensuring their safety and the safety of their facilities.



## MECO PHASE SEQUENCE INDICATOR

**MECO Phase Sequence Indicator (PSI 2016)** is used to determine the Phase Sequence R, Y & B of 3 Phase Voltages. It is important that Phase Sequence is known properly prior to energizing electrical motors and other equipment, as incorrect connection could cause damage to the equipment.

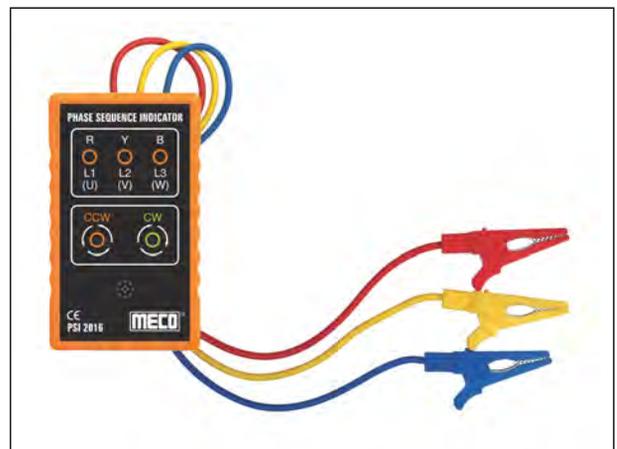
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- 3 Phase Sequence Indication via LED & Buzzer
- Reverse Phase Indication via LED & Buzzer
- Open Phase Indication via LED & Buzzer
- No Battery Required
- Rugged & Handy
- Easy & Safe to Use
- Colored Test Probes with Heavy Duty

Insulated Crocodile Clips for R, Y, B Phase

Connections

- Phase Presence Indication from as low as 60V AC (PH-N)



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Email: [sales@mecoinst.com](mailto:sales@mecoinst.com)



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**Q Sine Energy Solution LLP.**

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[www.qsine.co.in](http://www.qsine.co.in)

# अणुऊर्जा युगाचा शेवट ?

- जितेंद्र अष्टेकर



जर्मनीने अखेरचे तीन अणुऊर्जा निर्मिती प्रकल्पही जर्मनीने बंद केल्याने, तो आता अणुऊर्जामुक्त देश बनला आहे.

दुसऱ्या महायुद्धात अमेरिकेने जपानवर टाकलेल्या अणुबॉम्बच्या भीषण परिणामानंतर, अणुप्रकल्पांबाबत जगभरात नकारात्मक सूर आहे. त्यातच २०११ मधील भूकंपात जपानमध्येच फुकुशिमा येथील अणुप्रकल्पात घडलेल्या दुर्घटनेनंतर, अणुऊर्जा प्रकल्पांच्या विरोधातील चळवळींना बळ मिळाले. तेव्हाच्या जर्मनीच्या चान्सलर अँजेला मर्केल यांनी सर्व अणुऊर्जा प्रकल्प बंद करण्याची घोषणा केली होती.

जगभरातील प्रगत देश पारंपरिक ऊर्जास्रोतांच्या पलीकडे जाऊन हरित शाश्वत ऊर्जेच्या अपारंपरिक स्रोतांवर भर देत आहेत. सन १९९७ मध्ये जर्मनीच्या गरजेपैकी ३० टक्के ऊर्जा अणुप्रकल्पांतून पूर्ण होत होती. बदलत्या स्थितीत हे अवलंबित्व कमी करण्यात आले. या काळात जर्मनीने औष्णिक प्रकल्पांमधील निर्मिती वाढविली आहे. सन २०३० पर्यंत ८० टक्के वीजनिर्मिती अपारंपरिक स्रोतांद्वारे होईल, अशी हमी जर्मनीने दिली आहे.

औष्णिक ऊर्जेप्रमाणे अणुऊर्जा प्रकल्पांतून घातक मिथेन किंवा कार्बन डायऑक्साइडसारखे वायू सोडले जात नसल्याने, ही वीजनिर्मिती पर्यावरण पूरक आहे. एकाच प्रकल्पातून मोठ्या प्रमाणात वीजनिर्मिती होत असल्याने, उत्पादन खर्च कमी होतो. उत्पादन वर्षानुवर्षे स्थिर राहत असल्याने, या स्रोताची विश्वासाहता अधिक आहे.

तरी वापरलेले गरम पाणी नदी किंवा समुद्रात सोडण्यात

येत असल्याने, सागरी जीवसृष्टीसाठी ते धोकादायक मानले जाते. त्यासह अणुऊर्जा प्रकल्पातील कचरा अतिधोकादायक मानला जातो. त्यातून होणारा किरणोत्सर्ग आरोग्य आणि पर्यावरणासाठी अतिविघातक मानला जातो. या प्रकल्पांमध्ये अपघात झाल्यास त्याचे परिणाम अनेक पिढ्यांना भोगावे लागतात. त्याबरोबरच नैसर्गिक आपत्ती किंवा दहशतवादासारख्या प्रयत्नांसाठी हे प्रकल्प 'सॉफ्ट टारगेट' ठरू शकतात; त्यामुळे त्यांच्या सुरक्षिततेसाठी मोठी काळजी घ्यावी लागते.

## ■ भारतातील स्थिती काय ?

सन २०१३-१४ मध्ये देशात वार्षिक अणुऊर्जा निर्मिती ३, ५३३.३ कोटी युनिट होती. सन २०२१-२२ मध्ये त्यात ४,७११ कोटी युनिट, म्हणजे ३० ते ४० टक्के वाढ झाली. पूर्वी देशात २२ अणुभट्ट्या होत्या. सन २०१७ मध्ये सरकारने सात हजार मेगावॉट क्षमतेच्या ११ स्वदेशी उच्च दाबाच्या हेवी वॉटर या प्रकल्पांमधून घातक वायू बाहेर पडत नसले, अणुभट्ट्यांना एकाच वेळी मान्यता दिली आहे. मात्र, देशातील एकूण वीजनिर्मितीपैकी अणुऊर्जेचा वाटा नगण्य म्हणजे केवळ दोन ते तीन टक्के आहे. पर्यावरणविषयक आंतरराष्ट्रीय करारांच्या दबावामुळे औष्णिक वीजनिर्मिती कमी करण्याचे उद्दिष्ट देशाने ठेवले आहे. जलविद्युत निर्मितीवरही मर्यादा आहेत. अन्य सौरऊर्जा, पवनऊर्जा यांच्या निर्मितीत वाढीचे प्रयत्न सुरू असले, तरी ते दीर्घ पल्ल्याचे आहेत. म्हणूनच, देशाला ऊर्जेबाबत स्वयंपूर्ण होण्यासाठी अणुऊर्जा निर्मितीला पर्याय नाही; त्यामुळेच जर्मनीने अणुऊर्जामुक्तीचे ध्येय गाठले असले, तरी भारताला ते सध्या तरी परवडणारे नाही.

- दै. महाराष्ट्र टाइम्स मधून साभार



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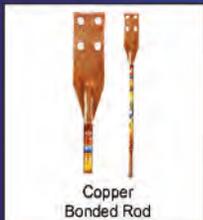
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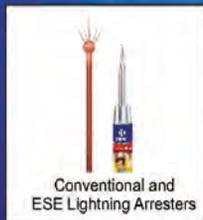
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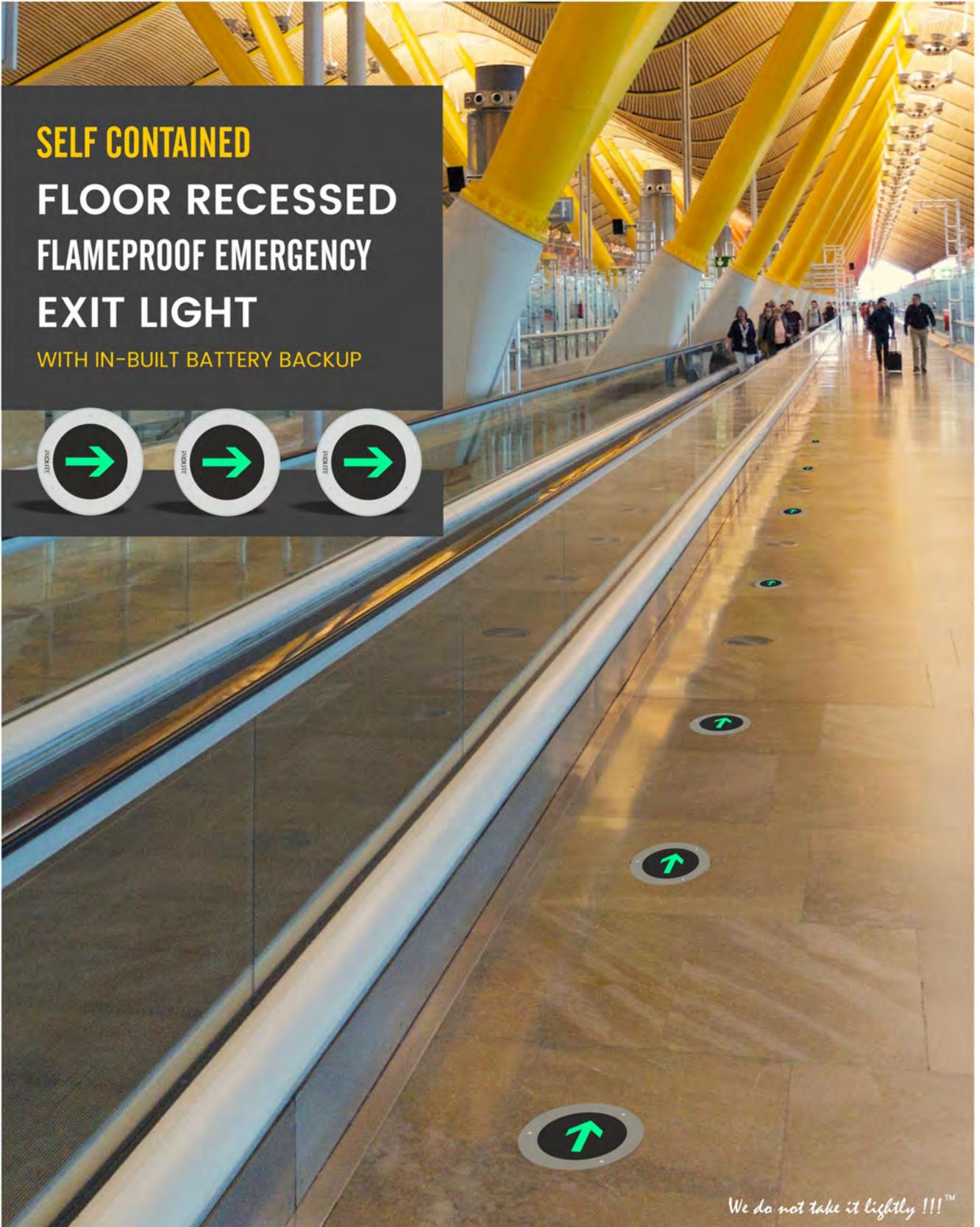


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