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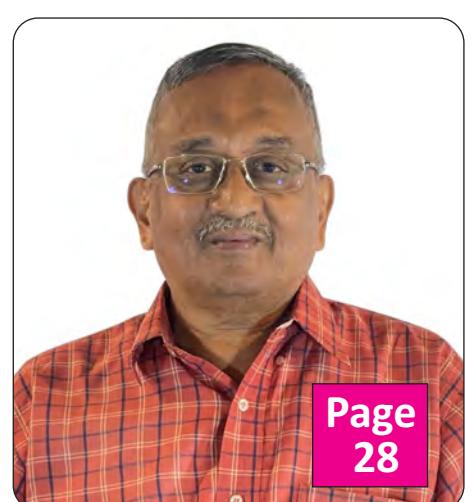


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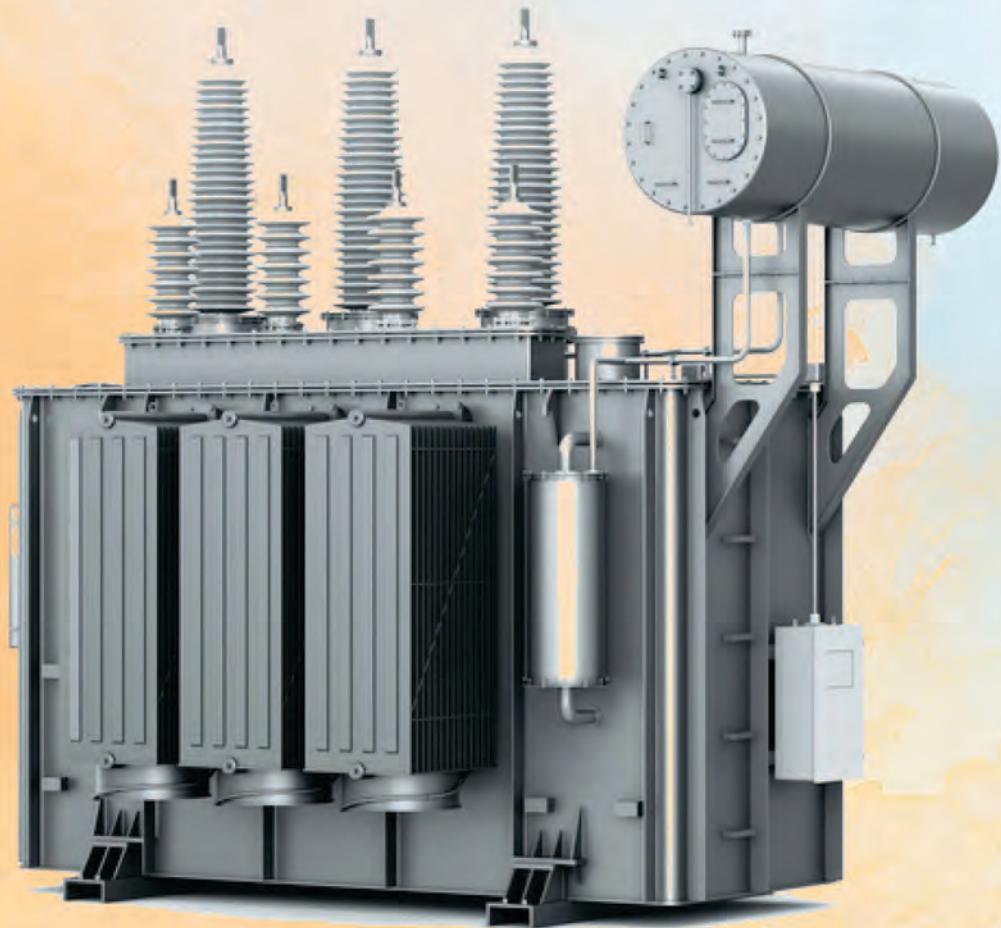
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**Electrical Contractors'
 Association of Maharashtra**


President

Devang Thakur - +91 9422249672

Hon. Gen. Secretary

Amarnath Patil - +91 9371002577

 Publications & Publicity Committee Chairman
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Vice Chairman

Arjun Sase, Ahmednagar - +91 9922664838

Electrical Contractors' Association of Maharashtra
Head Office : Stock Exchange Tower, 1st Basement,

Dalai Street, Fort, Mumbai 400 023

Tel.: 022 22723667, 022 22723668

 E-mail : ecamindia@gmail.com

 Website : www.ecam.org.in
**Editor, Printer
 &
 Published Office**

 311, 3rd Floor, Shree Krishna Commercial Centre,
 6, Udyog Nagar, S. V. Road, Goregaon (West),
 Mumbai - 400 062. Mobile : 9821039722 |
 Email : info.cmasters@gmail.com
**Indian Electrical
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 Editor - **Satish Sinnarkar** - 9821039722

 Asst. Editor - **Prasanna** - 8861357898

 Marketing Head - **Aashish Rejeshirke** - 9821375185

 Marketing Executive - **Kaushal Ball** - 9270663417

Subhash Jadhav - 9920523871

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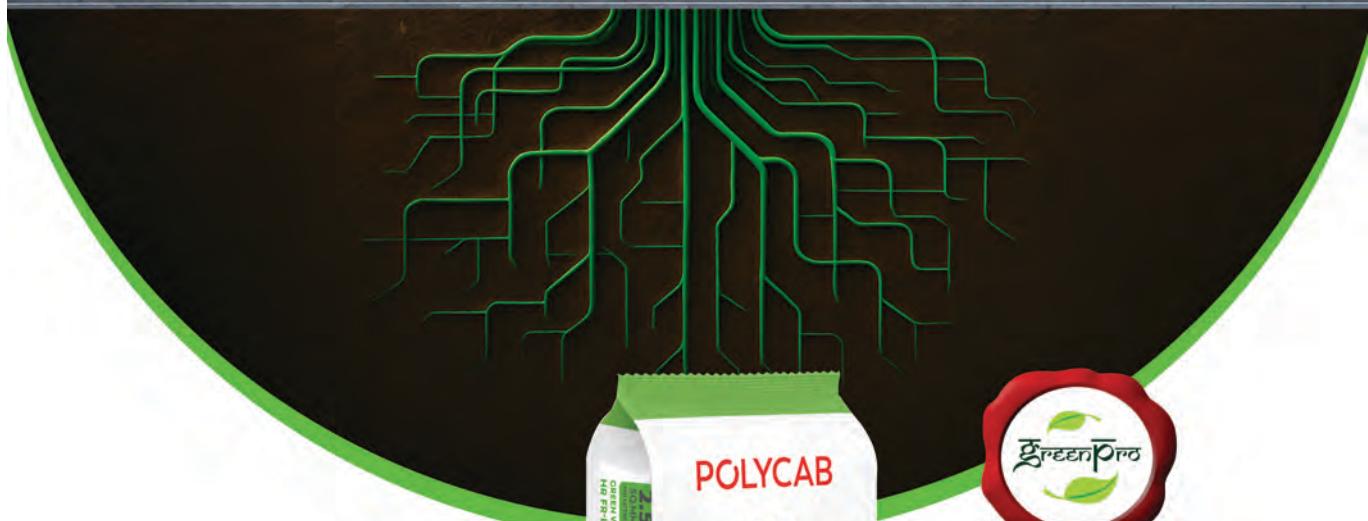
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Devang Thakur
President, ECAM

a hundred years. I extend my heartfelt gratitude to every member for your trust, support, and constant commitment to our industry.

As we step into the future, the electrical contracting sector is entering an era of unprecedented opportunity. Emerging technologies such as renewable energy systems, electric vehicles, smart grids, energy storage, and automation are transforming the way we design, build, and maintain electrical infrastructures.

Dear Members,

It is a great privilege and honour to serve you all as the President of ECAM — a proud association with a legacy spanning

For ECAM members, this is a time to innovate, upskill, and collaborate. Areas like solar installations, EV charging infrastructure, green buildings, and IoT-based smart electrical controls are rapidly creating new markets. Government initiatives toward sustainability and infrastructure development will further expand the scope for contractors who are ready to adapt.

Our goal as an association is to ensure every member is future-ready — through training, digital adoption, safety standards, and collaboration with technology partners. Together, we can continue to uphold ECAM's tradition of excellence while embracing the new possibilities that lie ahead.

Let us commit ourselves to shaping the next century of progress for ECAM and for our nation's electrical industry.





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२०२५

मध्ये निवड झाल्याचा क्षण माझ्यासाठी केवळ सन्मानाचा नाही, तर एक अतिशय भावनिक अनुभवही आहे. '१९२५ मध्ये जन्माला आलेल्या या संस्थेने आज शंभर वर्षांचा प्रवास पूर्ण केला आहे आणि त्या ताब्दीच्या उंबरठ्यावर मला मिळालेली ही जबाबदारी म्हणजे इतिहासात पाऊल टाकण्यासारखीच आहे.

ECAM हा फक्त एक संघटनात्मक ढाचा नाही. ती एक विचारधारा आहे. समर्पण, कौशल्य आणि जनसेवेची निखल भावना घेऊन काम करणाऱ्या ४५०० विद्युत कंत्राटदारांचा विशाल परिवार. मुंबईच्या मुख्यालयापासून ते नऊ प्रादेशिक विभागांपर्यंत या संस्थेची मुळे खोलवर पसरलेली आहेत.

मी पुणे विभागाचा चेअरमन म्हणून काम करत असताना ECAM चा आत्मा जबळून अनुभवता आला. जुन्या पिढ्यांच्या परिश्रमाने ही संस्था केवळ वाढली नाही, तर उभी राहिली, स्थिर झाली आणि अनेकांना दिशा दिली. माझ्या आधीच्या सर्व पदाधिकाऱ्यांनी घडवलेली परंपरा ही केवळ कार्याचा इतिहास नाही, ती मूळ्यांची नदी आहे. त्यांच्या योगदानाला मी मनःपूर्वक वंदन करतो. आणि त्या परंपरेचा ध्वज पुढे नेण्याचा माझा प्रयत्न असेल.

महासचिव म्हणून माझे कार्य म्हणजे संघटनेचे हृदय सतत चालू राहावे याची काळजी घेणे. दिवसेंदिवस वाढणाऱ्या कामकाजाचा प्रवाह नीटपणे वाहत राहावा, नियम-नियमावर्लांचे पालन व्हावे, निर्णयांची अंमलबजावणी व्हावी, बैठका, अजेंडे आणि नोंदी ही संघटनेची लय सांभाळणारी वाढे आहेत आणि ती सुरेल वाजली पाहिजेत. सदस्य, कार्यकारिणी आणि सर्व घटक यांच्यात संवाद हा बांधणारा धागा आहे; तो अधिक मजबूत करणे ही माझी जबाबदारी आहे.

आज जागतिक पातळीवर तंत्रज्ञानाचा गतीमान धावता प्रवास सुरु आहे. कृत्रिम बुद्धिमत्ता, ऑटोमेशन, डिजिटल युगातील नव्या पद्धती या जगाला नव्याने घडवत आहेत. विद्युत कंत्राटदार या बदलापासून दूर राहू शकत नाहीत. वाढती सुरक्षा मापदंड, कडक होत जाणारी नियमन व्यवस्था आणि ग्राहक केंद्रित धोरणे

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नियामक संस्थांशी संवाद वाढवणे, (For Example MERC), सार्वजनिक बांधकाम विभाग, महावितरण या सोबत राज्य व केंद्र सरकारच्या वीज मंत्रालय यांचे सोबत समन्वय साधून सभासदांच्या समस्या सोडवण्यासाठी प्रयत्न करणे. नवीन धोरणांना आकार देणे आणि ग्राहकहिताच्या बाबी बळकट करणे हे ECAM च्या पुढील टप्प्याचे दिशा-दर्शन असेल. ECAMEX 24 च्या यशस्वी प्रदर्शना नंतर पुढील वर्षी म्हणजे एप्रिल २०२६ महिन्यात आणण "ECAM EX26" हे विद्युत क्षेत्रातील विविध उत्पादने तयार करणाऱ्या कंपन्यांच्या वस्तूंचे भव्य प्रदर्शन आयोजित कीरीत आहेत. यासाठी आणण सर्वांनी एकत्र येऊन हा उपक्रम पैलतीरावर न्यायचा संकल्प करावा अशी विनंती करतो. यासोबतच सभासदांचे प्रश्न हा कळीचा मुद्दा सोडवण्यासाठी मी कटाक्षाने प्रयत्न करेन.

Licensing Board सदस्य म्हणून गेले ६ वर्षे मी संघटनेचा प्रतिनिधी या नात्याने सातत्याने कार्यरत आहे. सभासदांचे अनेक प्रश्न या काळात मी सोडवले आहेत. महावितरण कंपनीच्या "Deligation of Powers" हे सूत्र व त्याची अंमलबजावणी यासाठी मी स्वतः प्रयत्न केला होता व त्याला यश प्राप झाले होते. Diversity Factor चे सर्कुलर हा एक मोठा निर्णय इकॅम च्या माध्यमाने घेतला गेला व यात मला विशेष आनंद होता की याचा मी एक भाग होतो.

आपल्या सामूहिक प्रवासाला थोडे साहित्यिक पंख देण्यासाठी काही ओळी:

दीप जेव्हा एकटा जळतो, तेवढीच त्याची ज्योत लहान, दीपमाळ झाली की अंधारही मागे सरतो निर्धास्तपणाने. आपण सारे हातात हात घेऊन उभे राहिलो तर, प्रकाशाचा हा प्रवास शंभर पर्टींनी उजळून निघेल भविष्यातल्या क्षितिजावर.

शताब्दीच्या या नव्या पहाटे, मी तुमच्या सर्वांच्या विश्वासावर उभा आहे. तुमचे सहकार्य, तुमचा सन्मान, तुमचा सहभाग आणि तुमचा हात माझ्या हातात मिळाला तर आपली संस्था केवळ पुढेच जाणार नाही, तर महाराष्ट्रातील उद्योगविश्वात नवी भूमिका आणि नवे मानदंड निर्माण करेल. आपल्या अटळ पाठिंब्याबद्दल मनापासून धन्यवाद. पुढील वाटचालीत तुमचे मार्गदर्शन आणि सहकार्य यांचे स्वागतच आहे.





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The Future of Electrical Services

Satish Sinnarkar

Editor, IECT

The work profile of an ordinary electrical contractor has undergone significant changes in recent years, driven by rapid advancements in technology.

Firstly, there is an Increased Adoption of Digital Tools. Electrical contractors are now using digital tools and software to streamline their work, improve efficiency, and reduce costs. This includes tools like Building Information Modelling (BIM), computer-aided design (CAD) software, and project management platforms.

Secondly, electrical contractors are working with smart technologies like IoT devices, sensors, and automation systems to create more efficient and sustainable buildings. This includes smart lighting, heating, and cooling systems that can be controlled remotely.

Today there is a growing Demand for Renewable Energy. With the increasing focus on sustainability, electrical contractors are working on more renewable energy projects, such as solar and wind power installations.

Thirdly, the electrical contractors are adopting prefabrication and modular construction methods to reduce waste, improve quality, and increase efficiency. AI and data analytics are also being used to optimize electrical systems, predict maintenance needs, and improve overall efficiency.

It is obvious that the electrical Contractors have to

learn the new Technical Skills. They need to stay up-to-date with the latest technologies, including smart systems, IoT devices, and automation. Contractors need to be able to analyze data from electrical systems to optimize performance and predict maintenance needs.

They need to be able to manage projects efficiently, using digital tools and software to streamline workflows. Lastly, the contractors need to be knowledgeable about sustainable practices and renewable energy systems.

So what should be the Future Outlook? The electrical contracting industry is expected to continue evolving, with a growing focus on sustainability, digitalization, and technological innovation. Contractors who adapt to these changes and develop the necessary skills will be well-positioned for success.

Hence we suggest that every progressive minded electrical contractor should ask himself, What are some specific digital tools that electrical contractors can use to improve efficiency and productivity? How can electrical contractors stay up-to-date with the latest technologies and trends in the industry? What role artificial intelligence will play in the electrical contracting industry in the next few years?

This editorial is written in the sole interest of the members of Ecam. We suggest following websites for further information.

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“We are well positioned for the transition with its expanding solar, wind, hybrid and storage platforms”

Mr. Kaushik Sanyal

National head, Renewables &
Home Automation
Tata Power Renewable Energy Ltd (TPREL)

Tata Power Renewable Energy Limited, India's leading renewable energy company, brings scale and credibility to India's clean grid. Its utility portfolio totals 5.755 GW, with 5.755 GW already operational across solar (4.721 GW) and wind (1.034 GW). The rooftop program has crossed 1.5 lakh systems and about 3 GW across 700+ cities, widening access to green power. Solar EPC execution exceeds 7,400+ MWp, plus 3+ GW of rooftop and distributed ground-mounted systems. Reliability is strengthened by firm dispatchable renewable contracts for peak and round-the-clock supply.

Mr Kaushik Sanyal, based in Mumbai, is currently a Country Head at TATA Power. He brings experience from previous roles at Tata Steel and Exide Industries Limited. He holds a degree from the Indian Institute of Management, Ahmedabad.

*** Please share your vision for the future of renewable energy, with local and global overview and how your company is positioned to drive growth in this sector? How do you stay updated on the latest trends and technologies in renewable energy, and how do you see them impacting your business?**

India's renewable journey has gained unprecedented momentum and is central to our aim of becoming energy independent, as rightly observed in your questionnaire. The future of renewable energy is integrated, technology-led, and consumer-centric. Globally, we see strong movement towards storage, green hydrogen, and high-efficiency solar modules. Tata Power Renewable Energy Limited is well-positioned for

this transition with its expanding solar, wind, hybrid, and storage platforms, Enabling us to support India's fast-growing clean energy aspirations.

*** What role do you see solar energy playing in the transition to a low-carbon economy, and how you are contributing to this effort?**

Solar energy is the pivotal force behind decarbonization. Its modularity, scalability, and improving affordability make it the most democratic form of clean energy. Through rooftop projects, utility-scale parks, Battery Solutions and distributed generation models, we are driving adoption across households, industries, and commercial establishments.

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*** What are the latest advancements in PV module and cell technology, and how they are being adopted in the industry? How do you assess the potential of emerging renewable energy technologies, such as hydrogen fuel cells or advanced bioenergy?**

The industry is quickly moving towards TopCon, bifacial technology, and N-type wafers to enhance efficiency and performance. These advancements are helping India produce more power per square meter with greater resilience to temperature variations. Looking ahead, green hydrogen, solid-state batteries, Pump Storage and advanced bioenergy or nuclear energy will complement solar to create round-the-clock carbon-neutral energy systems.

*** What strategies you employ to minimize the environmental impact of its operations and products? What are your views as regards climate change and Sustainability?**

For me, sustainability is not a department—it is a mindset. We prioritize:

- Water-efficient cleaning systems
- Biodiversity-conscious solar park development
- Circular-economy practices across operations

Climate change demands action today, and our sector must lead the way in demonstrating both responsibility and innovation.

*** What are your thoughts on the current market trends in renewable energy, and how do you see them evolving in the next 5-10 years? Also give your views on innovation and R&D.**

India will witness exponential growth in:

- Behind-the-meter solar + storage solutions
- Hybrid solutions+ Battery +Pump Storage Solutions+ third party green power procurement
- Digital asset management using AI/IoT
- Modular off grid Nuclear energy
- Green energy procurement simplified (IREC, Carbon Credits, RPO obligations etc)

These trends will redefine how businesses and consumers experience power. Innovation—both technological and financial—will be the backbone of the coming decade.

*** Government policies and regulations play an important role. Please give your views.**

Policy has been the strongest catalyst for renewable adoption. Supportive initiatives like PLI schemes, Rooftop and Open Access schemes, BESS policy, PM-KUSUM, green hydrogen missions, and consistent regulatory clarity have strengthened investor confidence. Continued grid modernization and ease of approvals will further accelerate growth.

*** Please tell how you ensure quality and efficiency? and what standards do you adhere to?**

We adhere to the highest global benchmarks including IEC, BIS, MNRE guidelines, coupled with rigorous vendor assessments and on-ground engineering excellence. Real-time digital monitoring enables superior uptime and performance consistency across projects.

As we scale India's clean energy transformation, Tata Power Renewable Energy Limited remains committed to delivering reliable, sustainable, and future-ready solutions that empower customers, industries, and communities across the country.

*** With several years of leadership experience, what advice would you give to aspiring professionals in the renewable energy industry?**

Renewable energy is a sector where science, economics, and purpose meet. My advice:

- Stay curious and stay updated
- Develop strong field exposure
- Understand the financial side of energy
- Focus on problem-solving and long-term thinking

This industry rewards passion with impact—there is room for innovators, analysts, engineers, and dreamers alike.

These experiences shape my leadership style, helping me stay grounded, observant, and adaptable—qualities that are invaluable in a fast-evolving industry like ours.

Tell us about your hobbies, travelling, leisure time activities, social work, CSR, friends etc.

Outside work, I draw energy from my passions—, chess, driving long distances, travelling, and cooking.



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“By combining strong engineering, certified testing, and continuous improvement, we ensure the highest standards of quality and safety”

Mr. Sachin Patil, Director
Voltterra Industries Private Limited

Voltterra Industries, specialists in delivering high-quality earthing and lightning protection systems designed for long-lasting safety and performance. From GI and Copper Electrodes to ESE Arresters and accessories, their solutions meet IS/IEC standards and serve industries, homes and commercial spaces across India.

We had requested Mr Sachin Patil who is a dynamic leader of the company, to express his views on the various points related with the industry. We are sharing the same with our readers. -Satish Sinnarkar, editor

*** What inspired you to start this business and what's your vision for the company's future growth and development?**

My vision for the company's future growth is centred on innovation, customer satisfaction, and long-term sustainability. We aim to expand our product/service portfolio, strengthen our presence in new markets, and continually upgrade our processes with modern technology. At the same time, we are committed to building a strong team culture, enhancing operational efficiency, and maintaining high ethical and quality standards. Ultimately, we want the company to be recognised as a trusted, industry-leading brand that delivers value, reliability, and continuous improvement.

*** How do you see the demand for earthing and lightning protection devices evolving in the coming years, and how is your company positioned to capitalize on this trend?**

In the coming years, demand for earthing and lightning protection devices will continue to grow due to rapid infrastructure expansion, renewable energy projects, digitalisation, and stricter safety regulations. Our company is well-positioned to benefit from this trend with certified, high-quality products such as advanced earthing systems, copper-bonded rods, Pure Copper and lightning protection components. We have strengthened our manufacturing, quality testing, and product innovation to ensure long-lasting performance. Along with this, we provide complete solutions — from technical support and design to installation guidance

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and after-sales service — supported by a strong network of distributors and EPC partners. With our focus on quality, innovation, and customer satisfaction, we are fully prepared to lead future market growth.

*** Please walk us through your product design and testing process, and how you ensure that your products meet the highest standards of quality and safety?**

Our product design and testing process is built around high precision and strict quality control. We begin by analysing application requirements and engineering products using high-grade materials and advanced manufacturing techniques. Each design is validated through modelling, prototypes, and performance checks before production.

Every batch undergoes rigorous testing — including copper thickness measurement, tensile and conductivity tests, corrosion checks, and dimensional inspection — to ensure reliability and safety. We follow IS guidelines for earthing and standards and also conduct third-party inspections for added assurance.

By combining strong engineering, certified testing, and continuous improvement, we ensure our earthing and lightning protection products consistently meet the highest standards of quality and safety.

*** How do you ensure that your products are safe for use in various applications, and what safety certifications do you hold?**

We ensure the safety of our earthing and lightning protection products through a strict, multi-stage quality control and testing process. Every product is manufactured using certified raw materials and undergoes rigorous checks such as conductivity testing, copper thickness verification, tensile strength testing, and corrosion-resistance evaluation. We also perform batch-wise inspections and maintain full traceability from raw material to finished product. To guarantee suitability across various applications such as industrial, commercial, utility, and renewable energy projects we design all products in compliance with IS guidelines for earthing and lightning protection systems. Our in-house testing facilities, combined with periodic third-party inspections, ensure consistent adherence to these standards.

We hold key safety certifications such as material test certificates (MTC), and third-party lab approvals, which validate that our products meet the required mechanical, electrical, and safety benchmarks.

This combination of certified manufacturing practices, strict testing, and IS standards ensures that our products are safe, reliable, and ready for use in diverse field conditions.

*** Please tell us who are your primary customers, and what are their needs and expectations when it comes to earthing and lightning protection devices?**

Our primary customers include electrical contractors, EPC companies, industrial plants, commercial builders, solar developers, OEMs, utilities, and government projects. They depend on us for safe, durable, and standards-compliant earthing and lightning protection systems. Their main expectations are consistent quality, certified materials, strong electrical performance, corrosion resistance, and long service life. They also value timely delivery, technical support, and clear testing documentation. By focusing on high manufacturing standards, reliable testing, and customer-oriented service, we ensure our products provide long-term safety and dependable protection across all applications.

*** How do you manage your supply chain and sourcing of raw materials, and what steps do you take to ensure that your suppliers meet your quality and safety standards?**

We manage our supply chain through strict supplier selection, verified sourcing, and continuous quality monitoring. We work only with approved vendors who provide certified raw materials such as high-grade copper, steel, and electrolytic coatings. Each supplier undergoes regular audits, material inspections, and compliance checks to ensure they meet our quality and safety requirements. Every incoming batch is tested for purity, coating consistency, mechanical strength, and conductivity before entering production. By maintaining strong supplier relationships, transparent documentation, and rigorous verification processes, we ensure that all materials used in our earthing and lightning protection products meet the highest standards of performance and reliability.

*** How do you participate in industry associations and standards development organizations, and what role do you see your company playing in shaping industry standards and best practices?**

We participate in industry associations, technical forums, and standards committees to stay updated on regulations and share our practical experience. By contributing insights from manufacturing and field



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applications, we help refine testing methods, improve material specifications, and promote safer grounding practices. As the industry evolves, we aim to play a stronger role in shaping standards, supporting knowledge sharing, and driving continuous improvement in safety and performance.

*** What are your plans for expanding your product range or entering new markets, and how do you see your company evolving in the next 5-10 years? What are the emerging trends and technologies in the earthing and lightning protection industry?**

In the next 5–10 years, we plan to expand our product range, enter new domestic and international markets, and introduce advanced solutions such as intelligent earthing monitors, corrosion-resistant electrodes, modular lightning protection systems, and complete turnkey grounding packages. Our goal is to evolve from a manufacturer to a full-solution provider with strong engineering and technical capabilities. We see major growth opportunities in renewable energy, data centers, EV charging, railways, smart cities, and large industrial projects. To support this, we are investing in automation, R&D, and upgraded testing facilities. Overall, we aim to develop into a technology-driven, globally recognised brand offering next-generation earthing and lightning protection solutions for modern infrastructure.

*** What advice you would like to give to the young people entering this field??**

My advice to young people entering the earthing and lightning protection field is to focus on building strong technical knowledge and stay updated with evolving standards and technologies. This industry is growing rapidly, and there is great scope for innovation in materials, design, and safety systems. Be curious, hands-on, and open to continuous learning. Most importantly, value quality, safety, and ethical practices — these are the foundations of a successful and long-lasting career in this field.

*** Please tell us about your hobbies, leisure activities and social work?**

Outside of work, I enjoy reading, travelling, and staying active to keep myself refreshed. I'm also involved in community initiatives, especially promoting electrical safety awareness and supporting education and environmental activities

Voltterra Industries Private Limited

Office Shivpushp height shop no 1
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Central government introduces SHANTI Bill, 2025

The central government has introduced the Sustainable Harnessing and Advancement of Nuclear Energy for Transforming India (SHANTI) Bill, 2025, to overhaul the legal framework governing nuclear energy in India.

The bill aims to repeal the Atomic Energy Act, 1962 and the Civil Liability for Nuclear Damage Act, 2010, replacing them with a unified legislation aligned with India's present and future energy requirements. The SHANTI Bill lays out a roadmap to scale up nuclear capacity to 100 GW by 2047 and introduces a revised licensing and safety regime for nuclear operators, a new civil liability framework and institutional mechanisms such as the Nuclear Damage Claims Commission and an empowered Atomic Energy Regulatory Board. The Bill also streamlines regulations for peaceful uses of nuclear technology in healthcare, agriculture, industry, and research while encouraging greater private sector participation. The bill also defines licensing requirements and safety authorisation norms for entities engaged in nuclear energy production and application. It exempts research and development and innovation activities from licensing obligations.



PFCCCL incorporates SPV for Latur transmission project

PFC Consulting Limited (PFCCCL) has incorporated a special purpose vehicle (SPV) for the establishment of a Latur transmission project. The SPV will establish the 400/220/132 kV AIS project. Maharashtra State Electricity Transmission Company Limited has placed a letter of intent, appointing PFCCCL as the bid process coordinator for the selection of bidder as transmission service provider to establish the transmission system through tariff-based competitive bidding process.





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“We focus on using energy-efficient components, optimizing system design, and implementing smart control strategies”

Mr. Anand Jaywant

CEO, MIMIC (Stream Airetric Controls)

Secretary, Director, COSMA,
Control panel and Switchgear
manufacturers association

Established in the year 1982, “MIMIC(Steam Airetric Controls)”, are engaged in manufacturing, supplying and exporting a comprehensive array of Indicators, Sensors and Other lighting devices. In this range, they offer products such as Heater Coil Burnt Indicator, Flasher Type, Buzzer Cum Flasher Type, Relay Contact Type, Solid State Relay Lamp and Solid State Logic Lamp. Along with this, we have 'MIMIC' Mini Contactor, MIMIC' Semaphore LED Indicators 30.5 mm Cutout, Semaphore Indicators 42 mm Cutout, Semaphore 72 mm Cutout Indicators and Real Phase Indicator Version 2. The attributes that display the high standards of the offered products are reliable performance, precise design, vibration proof, longer service life and rugged construction. With an aim to ensure that the offered array has these features, they manufacture it by making use of high grade raw material and other components procured from eminent vendors of the industry. Moreover, they manufacture these products in-tune with globally laid quality norms.

Shri Anand Jaywant, partner and CEO of the company is also actively involved in the Control Panel and Switchgears Association (COSMA) as secretary. We had requested Mr Anand to express his views regarding the industry. We are happy to share his views. -Satish sinnarkar, editor.

How do you see the integration of IoT sensors and digital control systems changing the switchgear and control systems landscape?

The integration of IoT sensors and digital control systems is revolutionizing the switchgear and control systems landscape. It enables real-time monitoring, predictive maintenance, and enhanced control, leading to improved efficiency, reliability, and safety. This shift towards smart systems allows for proactive decision-

making, reduced downtime, and increased productivity.

Please explain the difference between circuit breakers and fuses, and when each would be used?

Circuit breakers and fuses are both protective devices, but they serve different purposes. Circuit breakers are reusable and can be reset, whereas fuses are single-use and need replacement. Circuit breakers are preferred for high-current applications and frequent switching, while fuses are used for low-voltage, high-

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current applications or as backup protection.

How do you design and implement control systems for industrial automation applications?

We design control systems with a focus on reliability, safety, and efficiency. This involves selecting the right components, configuring control logic, and testing the system thoroughly. We also ensure seamless integration with existing systems and provide training to operators.

Please describe a scenario where digital control systems would be more effective than traditional control systems?

Digital control systems excel in applications requiring complex control logic, remote monitoring, and data analysis. For instance, in a water treatment plant, digital systems can optimize treatment processes, monitor water quality, and predict maintenance needs, making them more effective than traditional systems.

What strategies do you employ to optimize energy efficiency in switchgear and control systems?

We focus on using energy-efficient components, optimizing system design, and implementing smart control strategies. This includes using variable speed drives, energy-efficient motors, and advanced control algorithms to minimize energy consumption.

Please explain the benefits and challenges of using hybrid switchgears in power distribution systems?

Hybrid switchgears combine the benefits of different technologies, offering improved reliability, efficiency, and compact design. However, they can be complex to design and maintain, requiring specialized expertise.

What are some potential applications of superconductors in the field of switchgear and control systems?

Superconductors can enable more efficient and compact switchgear designs, reducing energy losses and increasing power density. Potential applications include high-power transmission systems, fault current

limiters, and energy storage systems.

How do you ensure the cybersecurity of switchgear and control systems, particularly in industrial automation applications?

We implement robust cybersecurity measures, including network segmentation, encryption, and access controls. Regular updates, patches, and employee training are also crucial to prevent cyber threats.

What strategies do you employ to ensure the reliability and maintainability of switchgear and control systems?

We focus on designing for reliability, using high-quality components, and implementing predictive maintenance strategies. Regular testing, inspections, and training ensure that systems remain reliable and maintainable.

What is your advice to the young generation entering this industry?

Stay curious, keep learning, and be adaptable. The industry is evolving rapidly, and continuous learning is key to success. Focus on developing problem-solving skills, and don't be afraid to innovate and take calculated risks.

What are your hobbies, leisure activities, social work or keeping yourself updated?

In my free time, I enjoy reading about emerging technologies and industry trends. I'm also involved in social work, promoting STEM education and skill development. Staying updated with industry developments and networking with peers helps me stay inspired and informed.

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Mumbai, India — **APAR Industries Limited**, a global leader in cables, conductors and specialty oils, today announced the appointment of **Mr. Chandrashekhar Shrotri** as the new **Chief Executive Officer of its Cables Business**, effective **December 4th 2025**.

Mr. Shrotri joins APAR with **four decades of international experience** in the electrical and power sectors, spanning roles in **P&L leadership, manufacturing, R&D transformation, sales, product management, and multi-country business operations**.

Prior to joining APAR, he served as **Segment CEO – Region IAA (India, ASEAN & Africa)** at Siemens.

He has contributed to national industry bodies such as **IEEMA, BIS and CII**, and has been part of executive leadership programs at **IIM Bangalore, Harvard Business School, and Siemens Leadership Excellence (Germany & China)**.

Speaking on the appointment, **Kushal Desai, CMD, APAR Industries**:

“Mr. Shrotri's global experience, customer-centric mindset and deep operational expertise will play a pivotal role in shaping the next phase of growth for our Cable Solutions Business. His appointment reinforces APAR's commitment to strengthening our global footprint, driving product innovation, and creating value for customers worldwide.”

APAR Industries Announces Chandrashekhar Shrotri as New CEO – Cables Solutions, APAR Industries

Mr. Shrotri said:

“I am honoured to join APAR at a time when the company is poised for significant growth in both India and global markets. I look forward to working with the teams to enhance customer trust, accelerate digital and manufacturing transformation, and build on APAR's strong legacy.”

About APAR

APAR Industries is a global leader in conductors, specialty oils, cables and polymers, serving over 140 countries with world-class manufacturing and engineering capabilities.

For media enquiries:

Name: Shailja Chopra

GM - Marketing and Communications

Email - shailja.chopra@apar.com



Phone - 9820325745

Tata Power to finalise Rs 65 billion wafer-ingot manufacturing project

Reportedly, Tata Power is set to finalise its Rs 65 billion project of 10 GW wafer and ingot manufacturing project by January 2026. The proposed facility will mark a key step in the company's backward integration strategy, making it a fully integrated solar manufacturer from ingots and wafers to cells and modules. The company is currently evaluating site locations across Odisha, Tamil Nadu, and Andhra Pradesh, factoring in state-specific incentives and industrial policies.



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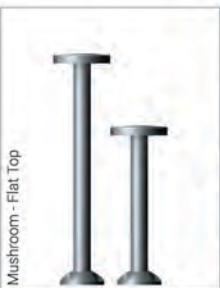


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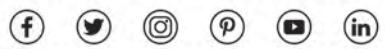
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Tata Institute's 50 kW Rooftop Solar System to Pay Itself Back in 6.5 Years The system is expected to yield savings of ₹ 12.6 million in 20 years

Using a 50 kW rooftop solar system, the Tata Institute of Fundamental Research (TIFR) in Colaba, Mumbai, is saving ₹852,852 (~\$9,548.45) annually on power costs. TIFR is a deemed university that awards master's and doctoral degrees. Taking the sustainable route and reducing electricity costs, TIFR decided to utilize the rooftop space at its campus to set a 50 KW rooftop solar system in August this year. The system was commissioned in September. The institute's decision to shift to solar also stems from the grid tariff reaching as high as ₹14 (~\$0.156)/kWh.

The rooftop system is a behind-the-meter project that powers all the buildings at TIFR. The excess energy is exported back to the grid, yielding savings on its electricity bills through net adjustments. The 50 KW rooftop system utilizes Rayzon Solar's 550 Wp mono PERC modules and two SolarEdge inverters of 27.6 kW each. The inverters are also installed with an optimizer, a small electronic device that can be installed under each panel to enable individual monitoring and output management. It can be helpful in cases of the solar system being affected by shading. The optimizer prevents a performance dip of the string of panels due

to shading and limits the impact to the shaded panel alone. The solar system is also integrated with a remote monitoring system that enables users to monitor its output and performance in real time. The rooftop system generates 250 units per day and an estimated 7,500 units per month. The system, designed for a 20-year project life, is expected to pay for itself within 6.5 years. It is expected to yield savings of ₹ 12.6 million (~\$141,068) over 20 years. VEMCO Solar said TIFR is constructing two more buildings and plans to install solar panels on their rooftops. It said that the rooftop system uses a ballast structure for the solar mounting system, which is usually used on flat roofs, and avoids drilling holes into the roofs. The rooftop system is anchored using ballast blocks. Such mounting structures are ideal for rooftops that are not structurally stable. The mounting structure is also hot-dip galvanized to ensure long-term durability and prevent corrosion. Commercial and industrial consumers can benefit from shifting to solar. Mercom India hosts a nine-city Clean Energy Meet to raise awareness of the benefits of adopting solar. The next event will be held in Nagpur on December 12.



Maharashtra signs Rs 80 billion MoU for 1,500 MW pumped hydro project

The Maharashtra government has signed a Rs 80 billion memorandum of understanding (MoU) with GSC PSP Maha Private Limited of Haryana for the development of the 1,500 MW Panchmauli-Devalipada pumped storage hydroelectric project in Dhule and Nandurbar districts.

The state will set up a fast-track clearance mechanism for pumped hydro projects, which are intended to stabilise the grid and reduce dependence on conventional power. With this, Maharashtra has signed MoUs for 51 pumped storage projects, expected to attract Rs 3.83 trillion in investments and deliver over 70 GW of capacity.

Atlanta Electricals secures Rs 1.16 billion transformer orders

Atlanta Electricals Limited has secured a transformer supply order worth Rs 1.16 billion, including its first major international contract.

The company received Rs 0.56 billion worth of orders for six 220/33–33 kV dual secondary transformers (160–192 MVA) for solar pooling substations in Bikaner and Bijapur, and an additional Rs 0.40 billion order for six 80 MVA 220/33 kV transformers for a project in Pugal, Bikaner. It also secured a Rs 0.20 billion international order for two 63 MVA 132/33 kV and two 30 MVA 33/11 kV transformers.

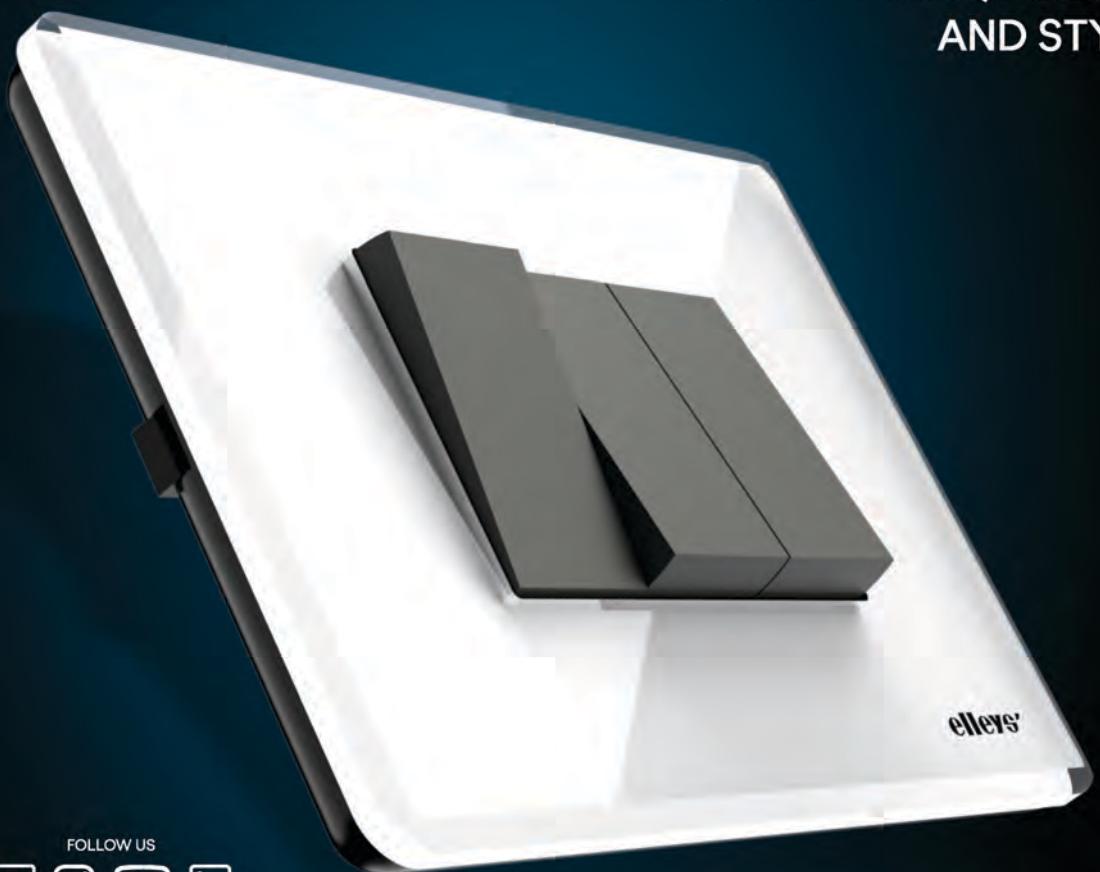


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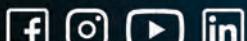


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“At Elektrolites, we proactively incorporate future trends to ensure that our products remain competitive and future-proof”

Anil Saboo

Chairman & MD- Elektrolites (Power) Pvt. Ltd.
National EC Member- CII, Delhi
Directory- IIT Jodhpur Techpark
Chairman - ELECRAMA 2020
President- IEEMA 2020-21
Founder Trustee – JAGRITI NGO, Jaipur



A leading manufacturer and innovator in the field of power transmission and distribution, Elektrolites (Power) Pvt Ltd, established in 1966, has played a significant role in the growth of the power sector in India over the last four decades. Fueled by continuous innovation, they are recognized as an in-house R&D center by The Department of Scientific and Industrial Research (DSIR). The products and services of Elektrolites range from 11kV to 420kV across T&D (Renewable, Industrial, Commercial, Utility) and Railways. The products are installed in substations as well as on the lines across medium and high voltage systems across renewable (hydro, wind, solar), industrial, commercial, and utilities. Also are installed in 25kV SSP, SP, substations, over-head lines, and underground locations across Indian railways, metros, freight corridors, semi high-speed rail, and high-speed rail networks.

Shri Anil Saboo, CMD of the company is a dynamic person having vast experience in the field. He is a well known personality in the power sector and has been President of IEEMA, Chairman of Elecrama 2020, Director of IIT, Jodhpur and the National executive committee member of CII, Delhi. IECt has a special relation with Mr Saboo and he has always supported the electrical contractors. We are happy to share the views of Mr Saboo on certain vital points regarding the industry. -Satish Sinnarkar, editor

- **Quality control measures for reliability and safety in Elektrolites.**

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● Handling customer complaints or product quality issues.

We treat customer feedback as an opportunity to strengthen our products and relationships 24X7. When a complaint is received, our team immediately acknowledges it and initiates a root-cause investigation. If required, engineers visit the site to understand the issue firsthand. After identifying the cause, we implement corrective and preventive actions to eliminate recurrence. This structured approach ensures transparency, timely resolution, and continuous improvement in product performance and most importantly customer satisfaction.

● New technologies or materials being explored.

Elektrolites is actively investing in advanced materials and technologies that enhance product durability, efficiency, and performance. We are working with high-strength corrosion-resistant metals, integrating composite insulators for lightweight and reliable switchgear, and developing improved contact materials with higher arc resistance. Our R&D team is also working and exploring more digital monitoring sensors that enable real-time condition analysis and predictive maintenance. These innovations reflect our commitment to offering future-ready solutions that meet the evolving demands of modern electrical networks globally.

● Opportunities from renewable energy, EVs, and other emerging technologies

The rise of renewable energy, electric vehicles, and new-age grid infrastructure presents major growth opportunities. These segments require robust isolation, switching, and protection equipment that can withstand dynamic load conditions and fluctuating power quality. I closely observed the industry's evolution during my tenure as Chairman in ELECRAMA 2020 and President of IEEMA. I believe these emerging technologies will shape

the next decade of power systems. Elektrolites is fully aligned with this shift and is developing solutions that support cleaner and more efficient energy ecosystems.

● Is future trends shaping the industry.

The electrical equipment industry is steadily moving toward sustainability, energy efficiency, and environmentally responsible manufacturing. Products of the future will be designed with eco-friendly materials, reduced losses, and recyclability in mind. Digital diagnostics and health monitoring will become essential to ensure reliability and reduce downtime. Climate-resilient designs will also be central as utilities increasingly face extreme weather events. At Elektrolites, we proactively incorporate future trends to ensure that our products remain competitive and future-proof, for example adopting solid state switchgears instead of SF6 based ones.

● Views on smart grids, smart cities, and emerging infrastructure.

Smart grids and smart cities represent the evolution of India's power infrastructure. These systems demand reliable switching, intelligent automation, and advanced protection technologies for providing 24x7 quality power availability. Elektrolites is already integrating digital features and IoT-enabled components into its product range (FPI, LBS, Auto-recloser) to support these emerging infrastructure projects and help utilities transition smoothly into the smart era for uninterrupted power supply.

● Approach to research & development and innovation.

Innovation at Elektrolites is not limited to a department—it is part of our culture. Our R&D team continuously works on improving product designs, exploring new materials, and developing smart-enabled features. We collaborate with institutions such as IIT Jodhpur Tech Park to accelerate research and create next-generation electrical solutions. We prioritize innovation that directly addresses customer needs and real-world field challenges. This approach ensures that our investments in R&D lead to tangible improvements in performance, reliability, and customer value.

● Advice for young entrepreneurs.

My advice to young entrepreneurs entering the electrical and electronics industry is to remain committed to quality, innovation, and integrity. This



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sector rewards patience and persistence. Instead of shortcuts, focus on building trust with customers, embracing new technologies early, and staying aligned with global trends. The industry has tremendous potential for those who are willing to invest time, learn continuously, and build solutions that contribute to national infrastructure and energy transformation.

● Hobbies, leisure activities, and social involvement.

Beyond my professional commitments, I enjoy engaging with young innovators, entrepreneurs, and industry professionals. I am passionate about contributing to social and educational initiatives, especially those aimed at skill development and

technology empowerment. My association with various industry bodies and academic institutions keeps me involved in mentoring, policy development, and ecosystem building. I strongly believe that leadership is not just about business growth but also about creating positive impact through knowledge sharing and community support. Apart from corporate lineage, Founder Trustee of Jagriti NGO at JAIPUR. This NGO serves society by transforming the lives of underprivileged children and connects them to the mainstream of society by providing quality education free of cost. Since its inception in 2010, (with the first school of 30 children) JAGRITI has adopted 18 Government schools till now and has more than 4500 children with the privilege of free education.



SECI announces auction results for 6.25 MW rooftop solar auction

The Solar Energy Corporation of India Limited (SECI) has announced the results of its 6.25 MW grid-connected rooftop solar projects under the renewable energy service company mode auction.

The solar projects will be set up across some government institutions of six Indian states. Enfros Solutions emerged as one of the winners of the auction. The government institutions where projects will be set up along with the capacities as follows: Central University of Punjab, Bathinda (1,000 kW), Sant Longowal Institute of Engineering and Technology, Longowal (960 kW), Indian Institute of Technology, Ropar (860 kW) and Indian Institute of Management, Amritsar (350 kW). The company secured these capacities at a tariff of Rs 3.34 per kWh each.

Furthermore, Sesola Power Projects will set up projects at the National Institute of Fashion Technology, RaeBareli (350 kW) and the Indian Institute of Information Technology, Surat (85 kW). The capacities were secured at a tariff of Rs 3.93 per kWh and Rs 4.65 per kWh, respectively. Additionally, Himalayan Solar will set up a 1,500 kW project at the National Institute of Technology, Kurukshetra. It secured the capacity at a tariff of Rs 3.69 per kWh. Moreover, Sesola Power Projects will set up a 300 kW project at the School of Planning and Architecture, Vijayawada, and Stockwell Solar Services will set up a 350 kW project at Dr. Hari Singh Gour Vishwavidyalaya, Sagar. The companies secured the projects at a tariff of Rs 3.85 per kWh and Rs 3.87 per kWh, respectively.



NIRL and PTC India form JV for green energy projects up to 2,000 MW

NLC India Renewables Limited (NIRL), a wholly owned subsidiary of NLC India Limited, has signed a joint venture agreement (JV) with PTC India Limited to establish a green energy joint venture company. The new joint venture company (JVC) will focus on the establishment, operation, and maintenance of renewable energy projects, including solar, wind, hydro, battery energy storage systems, green ammonia, and other emerging technologies. The planned green energy capacity is up to 2,000 MW, to be implemented in phases, with the first phase targeting 500 MW. The JVC will also undertake power sales through both competitive and regulated mechanisms under section 62 and section 63 of the Electricity Act catering to a mix of discoms, government entities, and commercial and industrial consumers.

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‘इकॅम’ची द्वेतिहासिक १००वी वार्षिक सभा

विद्युत क्षेत्रातील अनुज्ञासीधारक कंत्राटदारांसाठी कार्यरत असलेल्या इलेक्ट्रिकल कॉन्ट्रॉक्टर्स असोसिएशन ऑफ महाराष्ट्र (इकॅम) या प्रतिष्ठित संघटनेची शंभरावी वार्षिक सभा शुक्रवार ५ डिसेंबर रोजी मुंबई स्टॉक एक्सचेंज इमारतीच्या भव्य सभागृहात दिमाखात पार पडली. संस्थेच्या शतकपूर्तीनिमित्त हा सोहळा विशेष उत्साहात साजरा झाला. २०२५-२८ कालावधीसाठी अध्यक्ष, महासचिव आणि ११ संचालक पदांसाठी निवडणूक झाली. त्यात ‘इकॅम’च्या अध्यक्षपदी देवांग ठाकूर यांची निवड झाली. आणि पुणे विभागातून अमरनाथ पाटील यांची महासचिव पदावर निवड झाली. शिवाय ११ नवीन संचालकांची देखील बिनविरोध निवड झाली. सभेला महाराष्ट्रभरातून कंत्राटदार मोठ्या उत्साहाने उपस्थित होते. विशेष म्हणजे सर्व निवडणुका बिनविरोध झाल्या.



दरवर्षीच्या प्रथेप्रमाणे यावर्षी देखील उत्कृष्ट रिजन हा पुरस्कार ठाणे रिजनला देण्यात आला.

पश्चिम महाराष्ट्र विभागाने कार्यालयासाठी घेतलेल्या नवीन वास्तूसाठी मुख्य कार्यालयाकडून रुपये ११ लाख देण्यात आले.



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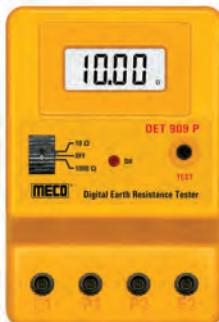
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‘मागेल त्याला सौर कृषिपंप’ योजनेत महाराष्ट्राने गाठला उच्चांक



ममागेल त्याला सौर कृषिपंप’ योजनेत महाराष्ट्राने विश्वविक्रम केला आहे. महावितरणने एकाच महिन्यात ४५,९९९ सौर कृषिपंप लावण्याचा जागतिक उच्चांक गाठला आहे. या विक्रमाची गिनिज बुकमध्ये यशस्वी नोंद झाली आहे. मुख्यमंत्री श्री.देवेंद्र फडणवीस यांच्या प्रमुख उपस्थितीत शुक्रवारी (५ डिसेंबर २०२५) सकाळी १० वाजता गिनीज बुकतर्फे विश्वविक्रम प्रमाणपत्र प्रदान सोहळा छत्रपती संभाजीनगरच्या शेंद्रा एमआयडीसीमध्ये ऑरिक सिटी मैदानावर होणार आहे.

कार्यक्रमास उपमुख्यमंत्री श्री.एकनाथ शिंदे, उपमुख्यमंत्री श्री.अजित पवार, अपारंपरिक ऊर्जामंत्री श्री.अतुल सावे, छत्रपती संभाजीनगरचे पालकमंत्री श्री.संजय शिरसाट, ऊर्जा राज्यमंत्री श्रीमती मेघना साकोरे-बोर्डीकर, अपर मुख्य सचिव ऊर्जा श्रीमती आभा शुक्ला, महावितरणचे अध्यक्ष व व्यवस्थापकीय संचालक श्री.लोकेश चंद्र यांची प्रमुख उपस्थिती राहणार आहे.

शेतकऱ्यांना केवळ दहा टक्के रक्कम भरून सौर पॅनल्स आणि कृषिपंप असा संपूर्ण संच देण्याच्या ‘मागेल त्याला सौर कृषिपंप’ या योजनेत महाराष्ट्राने आघाडी घेतली आहे. मुख्यमंत्री श्री.देवेंद्र फडणवीस यांनी ‘मागेल त्याला सौर कृषिपंप’ योजनेच्या अंमलबजावणीवर भर दिला आहे. संपूर्ण देशात महाराष्ट्राने सर्वाधिक सौर पंप बसविण्याचा उच्चांक गाठला आहे. ‘मागेल त्याला सौर कृषिपंप’ या योजनेत शेतकऱ्यांना प्रधानमंत्री कुसुम योजनेच्या अंतर्गत केंद्र सरकारकडून ३० टक्के तर राज्य सरकारकडून ६० टक्के अनुदान मिळते. त्यामुळे केवळ दहा टक्के रक्कम भरून सिंचनासाठी कृषिपंपासह संपूर्ण संच मिळतो. अनुसूचित जाती व अनुसूचित जमातीच्या शेतकऱ्यांना केवळ ५ टक्के लाभार्थी हिस्सा भरावा लागतो.

राज्यात साडेदहा लाख सौर कृषिपंप बसविण्याचे उद्दिष्ट ठेवले आहे. त्यामुळे कृषिपंपासाठी पैसे भरून वीज जोडणीची प्रतीक्षा करणाऱ्या

मुख्यमंत्री श्री.देवेंद्र फडणवीस यांच्या
उपस्थितीत शुक्रवारी गिनीज बुकतर्फे
विश्वविक्रम प्रमाणपत्र प्रदान सोहळा

सर्व शेतकऱ्यांचा ‘पेड पॅंडिंग’चा प्रश्न सुटणार आहे. ‘मागेल त्याला सौर कृषिपंप’ योजनेसाठी महावितरणने स्वतंत्र पोर्टलची निर्मिती केली आहे. शेतकऱ्यांनी पंपासाठी ऑनलाईन नोंदवणी केल्यानंतर महावितरणकडून अर्ज मंजूर केला जातो. त्यानंतर शेतकऱ्याने त्याचा हिस्सा भरायचा असतो. शेतकऱ्याकडून पंप बसविण्यासाठी एजन्सीची निवड केली जाते. पंप बसविण्याच्या ठिकाणाची महावितरण, एजन्सी व शेतकरी अशी तिघांकडून संयुक्त पाहणी केली जाते, त्यानंतर कायदिश दिला जातो आणि शेतात पंप बसविला जातो. पंप बसविण्याच्या एजन्सीवर पुढच्या काळात देखभाल दुरुस्तीचीही जबाबदारी आहे.

सौर पॅनल्समधून २५ वर्षे वीजनिर्मिती होत असल्याने तेवढा काळ शेतकऱ्यांना कृषिपंपाचे वीजबिल येत नाही. हे पंप पारंपरिक वीजपुरवठ्यावर अवलंबून नसल्याने शेतकऱ्यांना त्यांच्या मर्जीप्रामाणे दिवसा कधीही सिंचन करता येते. त्यामुळे दिवसा वीजपुरवठ्याची शेतकऱ्यांची मागणी पूर्ण होते.



Tata Power receives LoI from RECPDCL for the acquisition of Jejuri Hinjewadi Power Transmission

Tata Power has received a letter of intent (LoI) from REC Power Development and Consultancy Limited (RECPDCL), a wholly owned subsidiary of REC Limited, for the acquisition of Jejuri Hinjewadi Power Transmission Limited, a project special purpose vehicle (SPV).

The project SPV will be developed on a build-own-operate transfer basis to provide transmission services for 35 years from the scheduled commercial operation date, set 24 months after the SPV transfer. The project includes the construction of approximately 115 km of 400 kV double-circuit line between Jejuri and Hinjewadi and the extension of 400 kV GIS line bays at substations in both locations.



Rooftop solar consumers face uncertainty in Maharashtra

Abhijeet Gurjar

Maharashtra's solar energy plans are facing a policy clash. The central government's PM Surya Ghar Yojana aims to expand rooftop solar by offering households up to 300 units of free electricity each month, while the state government is considering a night-time tariff hike to manage its power distribution costs. Many consumers who turned to solar power to cut their electricity bills now worry that new rules will make clean energy less affordable.

"We currently only pay ₹130 a month, but we have no idea how much they may charge us in the near future," says Chandrakant Shelke, a 49-year-old farmer from Shelkewadi. "With new laws, who can predict how the government will tax us



and modify the tariff?"

Shelkewadi is a 100% solar-powered village in Maharashtra's Kolhapur district. It is a model village, self-sufficient in solar energy, progressive, and known for its clean energy status. However, the villagers are now worried with the Maharashtra State Electricity Board's (MSEB) proposed changes in time-of-day (ToD) tariffs. They worry that these charges could undo their years of efforts in clean energy.

This uncertainty is not just confined to one village. Across Maharashtra, many consumers with rooftop solar, small-scale resellers and commercial users are confused about the state government's shifting strategy and new charges. Industrial and commercial rooftop solar (RTS) consumers are struggling with no offset benefit, prolonged payback periods and heavy

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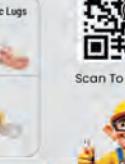
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- As the central government promises free solar power, Maharashtra's state-level tariff reforms leave consumers uncertain.
- Consumers fear that the state's proposed night tariff and frequent policy changes will make solar power unaffordable and unpredictable.
- With uncertainty in Maharashtra's rooftop solar sector, experts are calling for long-term, consistent policies and solutions like battery storage systems to protect consumers and rebuild confidence in clean energy investments.

upfront investment for renewable energy.

A building in Shelkewadi, Kohlapur district, Maharashtra, with rooftop solar. The 106 homes in the hamlet, panchayat office, school, water motor, and flour mill, have all been powered by rooftop solar. The people are now concerned that changing laws will impact their finances and hence their long-term efforts to move to clean energy. Image by Abhijeet Gurjar.

Regulations favour large-scale utilities, say entrepreneurs

The state electricity board and regulating commission in Maharashtra have proposed a new time-of-day structure in the electricity regulations. Under the proposal, electricity generated by rooftop and other solar would be priced at the lowest between 9 am to 5 pm. But the excess solar power generated, which the consumers would typically send to the grid expecting to use it at night-time, would now be available at a higher rate. In effect, solar consumers would face a night tariff hike.

Currently, any extra electricity generated by the individual consumers is sent to the state grid.



Consumers later draw power from the grid, and their exported daytime units are credited against what they use at night. With the new regulations, the way this extra solar energy is saved and used later, and the financial impacts on the consumers, could change.

According to rooftop solar entrepreneurs, these regulations are not consumer-friendly, and favour large-scale utilities and benefit discoms (distribution companies). Those who have installed solar, expecting net metering and other benefits, may find it unviable and it will lower the incentive for installing rooftop solar.

Rajendra Patil, a solar entrepreneur, said, "The Maharashtra government recently announced an additional incentive of up to 30% subsidy for rooftop solar consumers who are below the poverty line and are consuming less than 100 units per month. But MSEB has also proposed that solar-generated electricity offset only during off-peak hours, in daytime. Because of that, rooftop solar consumers cannot offset (balance out energy use) during evening peak hours, which are when most homes and commercial establishments use power." In effect, consumers cannot use solar power generated earlier in the day to balance out night time usage.

He added that rooftop and open access consumers are targeted by MSEB in such a way that they cannot get an offset, while the discoms continue earning revenue after installing solar rooftop. "Meanwhile, MSEB and the state government are favouring and promoting utility-scale solar plants that benefit discoms."

This ToD structure will effectively discourage rooftop adoption and lengthen the payback period in

Maharashtra.

Patil further argues that the regulations are changing swiftly, creating ambiguity and lack of trust in the state discom, as well as its amended norms and regulations. "The rooftop solar has already had an impact on MSEB's earnings," he says, "and that's why the discom is implementing new revenue-generating strategies by blocking rooftop consumers from receiving benefits."

Ambubai Shelke, 55, stands outside her house which has been installed with rooftop solar. Image by Abhijeet Gurjar.

Policy contradiction between state and Centre

The central government's rooftop solar policy and funding assistance under the rooftop solar scheme PM Surya Ghar Yojana were designed to scale up rooftop solar installations across India. However, state-level discoms incurred losses in revenue and started struggling. Over the past few years, they have introduced banking charges, peak hour variable rates, and exclusions for industrial and commercial

consumers.

"The discom is indirectly opposing rooftop solar by putting unfair laws to dissuade or restrict consumers, resulting in solar becoming uneconomical," Patil claims. "This is a breach of the original agreement between rooftop consumers and Maharashtra State Distribution Company Limited (MSDCL), which was to provide zero bills or only meter rentals. Now, consumers are being billed for peak-hour usage, except for residential consumers as of 2025."

A [petition](#) filed by Sudhir Budhay, a renewable energy consultant, and the National Solar Energy Federation of India, has challenged the grid support and banking charges, warning that this may cause up to 30% decline in new rooftop solar installations.

Rajendra Patil, a solar entrepreneur, said that a subsidy of up to 30% has been announced for rooftop solar consumers who are below the poverty line and are consuming less than 100 units per month. However, consumers cannot use solar power generated earlier in the day to balance out night time usage. Image by Abhijeet Gurjar.

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State's unstable policy on rooftop solar

From 2.82 GW in 2014 to 100 GW in 2025, India's solar power capacity has grown by 3,450 % in this time period. But this growth has come with a cost — state discoms' declining revenues. In response, many states, including Maharashtra, have started revising consumer tariffs to recover losses.

"The smart meter implementation policy encourages consumers to use solar energy during solar hours, while the discom buys power at higher rates during off-solar hours and forces users to pay bills for peak-hour usage," said Samir Gandhi, a solar energy advocate from Pune. "They are moving the goalposts, asking you to use solar, but then increasing tariffs for using grid power once the sun is down."

He added that commercial and industrial customers who invested in rooftop solar installations in 2022-2023 face the same one-sided agreement modification. "Consumers are afraid to trust the government, and it appears the government is modifying policies for political motives without including the consumer."

Ajay Jain, a financial expert from Indusbridge, expressed concerns, saying that investors look for long-term, stable policies to safeguard their investments. "The same mistrust is visible with smart meters, so the public is concerned about the government's intention to install it."

While the government plans to expand smart meter installations, citizens are opposed to it. The smart meter

policy encourages consumers to use solar energy during solar hours, while forcing users to pay bills for peak-hour (night-time) usage, explains Samir Gandhi, a solar energy advocate from Pune. Image by Abhijeet Gurjar.

Battery storage to combat tariffs

As energy pricing becomes more dynamic, Battery Energy Storage Systems (BESS) are emerging as a practical solution to rising tariffs.

Bhavani Singh Rathore, a renewable energy coach with expertise in BESS, said, "The pattern of solar and non-solar hours has changed; the ToD reform has a dual effect on rooftop solar systems. This creates an imbalance. Consumers can use this self-generated energy effectively. Whereas energy consumed after the sun goes down falls in high-tariff hours. Without storage, consumers are forced to buy expensive grid power."

He also spoke about a possible solution to compensate inflated energy bills. "By adding even a small BESS setup, consumers can store self-generated solar energy during the day (9 am–5 pm) and discharge it during expensive peak hours. "This lets them avoid high-cost electricity during peak hours and benefit from solar round-the-clock. Integrating lithium-ion BESS with a proper energy management system is key." Rathore added that Maharashtra has become India's testing ground for real-time energy intelligence, and those who adopt storage early will lead the transition toward net-zero energy lifestyles.

This story was produced with the support of Internews' Earth Journalism Network.

Banner image: Tejashri

Shelke, the sarpanch of Shelkewadi, stated that all of the homes in the 'Pink Village' are owned by women and symbolically painted pink. Shelkewadi is a 100% solar-powered village, but they are now worried with the Maharashtra State Electricity Board's proposed changes in energy tariff structure. Image by Abhijeet Gurjar.



**Rahul R. Kulkarni**

Managing Director
MARSZ Electricals Pvt. Ltd.

“We are focusing on Renewable Energy as a strategic segment for us wherein we have developed multiple product lines i.e.”

MARSZ Electricals Pvt. Ltd. is founded by a group of industry professionals with a vision to revolutionize the electricals market. MARSZ has rapidly emerged as a leading force in power conditioning solutions. With a strong emphasis on innovation and quality, they have expanded their reach to global markets, delivering reliable and efficient products to industries worldwide. IECT's representative had an opportunity to interact with Mr Rahul Kulkarni, managing director of the company. Mr Kulkarni has expressed his views on various current topics and we are happy to share the same for the readers of IECT. -Satish Sinnarkar, editor

What are the different types of transformers you manufacture and what are their applications?

We manufacture various types of Transformers & for various applications. They are:

1. Cast Resin & Dry Type Transformers

a. Distribution Transformer for Industries, IT Parks, Data Centers, Metros High Rise Buildings, Hotels, Hospitals, Malls, Multiplexes, Institutes, etc. up to 5 MVA 33 KV Class

b. Excitation Duty Transformer for Hydro Power Plant - up to 4 MVA 11 KV

c. Converter Duty Transformer for Industries - Up to 3 MVA 11 KV

d. Inverter Duty Solar Transformer for Renewable Solar Power Plant up to 5 MVA 33 KV Class

2. Oil Filled Distribution Transformer

a. Non-Sealed BIS Approved Distribution Transformers up to 2500 KVA 33 KV Class, as per IS 1180: Part 1: Amendment 4: Energy Level 1 & 2 and or IS 2026

b. Hermetically Sealed Corrugated Tank based Distribution Transformer up to 2500 KVA 33 KV Class, as per IS 1180: Part 1: Amendment 4: Energy Level 1 & 2 and or IS 2026

c. Non-Sealed Inverter Duty Solar Transformer for Renewable Solar Power Plant up to 13.2 MVA 33 KV Class

d. Non-Sealed WTG Transformers for Wind Power Plant up to 5.6 MVA 33 KV Class

3. Power Transformers

a. Up to 20 MVA 66 KV Class

4. Compact Substations

a. Up to 3 MVA 33 KV including Oil filled Hermetically Sealed Transformer & or Cast Resin Dry Type Transformer

How do you ensure quality control in transformer manufacturing? What are the safety protocols and regulations that you follow in Transformer manufacturing?

We ensure quality control in each stage of order

execution, right from incoming quality check of raw material as per our Incoming SOP, at our in-house incoming lab or at third part lab or at vendor's premises.

Additionally, SOPs are defined for every stage of manufacturing & product that has to clear performance criteria at every stage in order to obtain overall quality performance towards efficiency, consistency & reliability.

Please give information about your transformer manufactured for a specific application, such as power distribution or industrial use?

We are focusing on Renewable Energy as a strategic segment for us wherein we have developed multiple product lines i.e.

3.6 MVA 33/0.950 KV AL wound WTG Transformer & 5.5 MVA 33/1.14 KV AL Foil wound WTG transformer suitable for Envision Wind Turbine.

7.2 MVA 33/0.660*2 KV AL foil wound IDT Solar Transformer & 3.6 MVA 33/0.800 KV CU Wound IDT Solar Transformer

What are the key considerations when designing a transformer for high-voltage or high-current applications?

As per design fundamentals, high voltage needs respective insulation levels & clearances from PH-Ph and Ph to Ground, etc. whereas high current applications need current density suiting to application with proper heat dissipation factor, cooling calculations, etc to limit temp rise values within prescribed limit.

How do you troubleshoot common issues in transformer manufacturing, such as winding faults or insulation problems?

There are methods for every nature of problem & we go as per Why-why analysis, RCA, Fish Bone Analysis to reach root cause of problems & then design the b.

What are the common causes of transformer overheating, and how do you prevent it?

Transformer overheating happens mainly due to inadequate heat dissipation. Consideration of higher current density, impurities within conductors, weak insulation systems, are few commonly observed causes of Transformer overheating. Hence we proactively design the Transformers which will take care of these anticipated problems in Engineering stage & Incoming

Raw Material stage. If we design the product, ensure at par raw material, manufacturing in compliance of SOPs, rigorous QA checks at every stage, including Heat Run Test to verify temp rise limits, we ensure & prevent the overheating.

What are your strategies for managing stress and pressure in a demanding manufacturing environment?

We are aligned to Demanding market by means of adaptive steps in manufacturing capacity expansions. Recently we have done investment in Winding, Added Oven, oil filtration plants, People strength, have been supporting to cater demanding market dynamics.

How do you prioritize ongoing learning and professional development in your role as a transformer manufacturer? Can you give training to electrical contractors regarding your products?

Yes, we are open to provide Trainings to Electrical Contractors in our plant. ECAM can plan any suitable date within 2 weeks prior intimation to us, can visit our plant located in Mehsana, Gujarat, wherein we can offer inplant training about our various products & solutions. Additionally, we can also participate in your exhibitions & events to give Presentations.

What advice would you like to give to the young generation entering this field?

Our advice to Young generation is to Learn the Basics, clarify your concepts at a micro level, focused learning approach in manufacturing plants, installation sites, design centers for first 3 years of carrier, will definitely give long lasting work experience. Additionally, keep focus on AI based Technology to adapt for Electrical Industry by making Electricity SMART & SAFE. (ISO 9001:2015 Certified Company)

Rahul R. Kulkarni, Managing Director

Mobile: +91 9322133738

Mobile: +91 7021943790

Email: sales@marszelectricals.com

Web: www.marszelectricals.com

Add: Balaji Tower, C-607/30, Vashi,

Opp. Sanpada Station (W) Navi Mumbai 400705

Skype: kulkarni.rahal

GSTIN: 27AAPCM8700R1ZL



Architectural Lighting

K-LITE INDUSTRIES, an ISO-certified company and a leading manufacturer of indoor and outdoor luminaires, has launched a new series of LED Architectural Lighting. As trendsetters in outdoor lighting and inspired by the "Make in India" vision, K-LITE continues to redefine innovation through its latest product portfolio under the Architectural Lighting category.

The comprehensive range of applications includes

- Facade Lighting
- Pathway Lighting
- In-ground Luminaires
- Up-Down Lighting
- Billboard Lighting
- Vertical Light Bars
- Wall Washers
- Area Lighting Poles



and the highly popular Sleek Polar Lighting Solutions.

Each solution is backed by K-LITE's extensive understanding of urban illumination and expertise gained over three decades. The fixtures are designed to deliver *value-driven technology* ideally suited for Indian conditions. The LEDs used in these luminaires comply with LM-80 testing standards and are sourced from

internationally reputed brands such as Nichia and CREE. All luminaires are compliant with RoHS, LM-79, and CE certifications.

With a luminaire efficacy exceeding 100 lumens per watt, the products ensure superior performance and energy efficiency. A variety of optical distributions and Correlated Colour Temperature (CCT) options—Cool White, Neutral White, and Warm White—are available to meet specific lighting design requirements.

The standout feature of this series, the Sleek Polar Lighting Solution, showcases a contemporary design that is both timeless and distinctive. Compact in form, with no visible mounting elements, and offering optimized integration, the Polar Lighting seamlessly aligns with the geometric lines of the square column. These assemblies are ideal for enhancing the aesthetics of modern architectural environments.

For more details visit our website : www.klite.in

For all enquiries, Contact info@klite.in

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Parco Engineers: Revolutionizing Hot Dip Galvanized Earthing Systems with Innovation and Global Reach

The earthing equipment industry is essential for ensuring the safety and functionality of electrical infrastructure, with products like Hot Dip Galvanized Earthing Flats, Earthing Plates and Earthing Rods providing critical grounding to prevent electrical faults and hazards. As electrical systems become more complex and technology advances, the industry faces challenges in keeping up with innovations and regulatory changes, with future developments expected to focus on smart earthing systems with real-time monitoring. In this evolving landscape, Parco Engineers emerges as a leader, dedicated to making India corrosion-free through high-quality Hot Dip Galvanized steel. The firm's commitment to on-time delivery, exceptional after-sales service, and customer satisfaction underscores their vision and mission, solidifying their position at the forefront of the earthing equipment sector.

Exceeding Industry Standards

At Parco Engineers, the firm is committed to meeting and exceeding current industry standards for earthing materials, tailored to its clients' specific needs and expectations. The firm has implemented a rigorous quality control process that includes thorough material inspection, manufacturing checks, and final product testing to ensure its equipment adheres to industry standards. Parco works closely with clients to understand their site conditions, electrical system requirements, and safety protocols, enabling us to provide customized Hot Dip Galvanized Earthing solutions. Our product undergoes extensive testing and validation to confirm it meets industrial standards. Additionally, we value client feedback to gauge satisfaction and identify areas for improvement.

“Our Navi Mumbai Galvanizing Plant features a cutting-edge, fully automatic gas-fired high-velocity furnace from the UK, with a monthly output capacity of 2,500 metric tons. Our facility, approved by major consultants like NTPC, BHEL, NPCIL, and Power Grid, underscores our industry credibility. Our advanced R&D department, equipped with state-of-the-art infrastructure and staffed by experts in material science and electrical engineering, ensures we remain at the forefront of earthing materials. Collaborations with research institutions and universities keep us abreast of the latest standards and innovations.



Mr Prashant Parekh, Director
Parco Engineers (Mumbai) Private Limited

Leading with Expertise

The company stands out in the Hot Dip Galvanized Earthing equipment sector through its deep technical expertise and a team of experienced engineers and technicians with comprehensive knowledge of earthing systems. Parco Engineers's offer customized solutions tailored to meet specific client requirements and uphold a rigorous quality control process to ensure its products adhere to industry standards. The firm's commitment to innovation is evident in its substantial investment in R&D, which drives the development of new earthing models. The company's prioritize client satisfaction by providing personalized service and support throughout the project lifecycle. Since its inception, the firm has established a strong reputation in the industry, completing over 5,000 projects across various sectors.

“Since its inception, Parco Engineers has experienced significant growth, initially achieving a compound annual growth rate of 15 percent from 2000 to 2010. This accelerated to 25 percent CAGR between 2010 and 2020. Despite a recent stabilization phase with a 10 percent CAGR due to COVID-19, the company continues to grow steadily. Initially focused on the domestic market, Parco's products have expanded to neighboring South Asian countries and has since established a presence in the Middle East, Africa, and Southeast Asia. The firm's product portfolio has evolved from industrial earthing materials to include construction infrastructure solutions and renewable energy sectors. Achievements include ISO 9001 certification and strategic partnerships with key suppliers. Recent expansions in 2020 have enhanced manufacturing capacity to meet rising demand. This forward-thinking approach underscores Parco Engineers' commitment to shaping the future of the earthing equipment industry and maintaining its leadership position.

Quote: Parco Engineers excels in delivering innovative, customized Hot Dip Galvanized earthing solutions, driving growth through quality, innovation, and strategic global expansion.



Internal faults in substation transformers

These are issues that occur within the main tank or the associated components (like the tap changer). These faults are particularly dangerous because they can generate high-temperature arcs that decompose transformer oil into flammable gases, potentially leading to tank rupture or explosions.

Here is a breakdown of the primary internal faults, their causes, and how they are detected.

1. Winding Faults

Winding issues are the most common internal faults, often caused by mechanical stress or insulation aging.

Inter-turn Faults: Short circuits between individual turns of the same winding. These often start small but grow rapidly due to localized heating.

Phase-to-Phase Faults: Short circuits between different phase windings. This is rare inside the tank but catastrophic if it occurs.

Phase-to-Ground Faults : A breakdown of insulation between the winding and the earthed core or tank.

Causes: Lightning surges, moisture in oil, or mechanical "hoop stress" from external short circuits that deforms the coils.

2. Core Faults

The core is made of laminated steel sheets to minimize eddy currents. If the insulation between these laminations fails, large circulating currents occur.

Localized Overheating : Often caused by the failure of core bolt insulation or "bridging" of laminations by metallic particles.

Multiple Grounding : The core should only be grounded at one point. If a second ground occurs (due to sludge or debris), a loop is formed, leading to massive circulating currents and overheating.

3. On-Load Tap Changer (OLTC) Faults

The OLTC is the only moving part inside most power transformers, making it a frequent point of failure.

Mechanical Wear : Failure of the switching mechanism or springs.

Contact Carbonization : Arcing during tap changes can carbonize the oil, leading to high-resistance contacts and further overheating.

4. Insulation & Oil Degradation

While not a "fault" in the sense of a short circuit, the breakdown of the dielectric medium is the precursor to most internal failures.

Moisture Ingress: Water reduces the dielectric strength of the oil and paper insulation.

Sludging: Oxidation of the oil creates acidic sludge that coats the windings, preventing proper cooling.

Detection and Protection Methods

Because internal faults are hidden, substation engineers rely on specific sensors and relays to detect them:



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Principles of Insulation Testing: Ensuring Electrical Safety and Reliability

Insulation testing is a crucial aspect of electrical maintenance and diagnostics, playing a vital role in ensuring the safety and reliability of electrical systems. Insulation defects or deterioration can lead to electrical failures, accidents, and even catastrophic consequences. In this article, we will explore the principles of insulation testing, its importance, and the various methods used to evaluate insulation condition.

Why Insulation Testing is Important

Insulation is a critical component of electrical systems, providing a barrier between conductors and preventing electrical discharges or short circuits. Over time, insulation can deteriorate due to various factors such as:

- 1. Aging:** Insulation materials can degrade over time, losing their electrical properties.
- 2. Moisture:** Water or humidity can penetrate insulation, compromising its electrical properties.
- 3. Temperature:** High temperatures can accelerate insulation degradation.
- 4. Physical damage:** Mechanical stress or damage can compromise insulation integrity.

Insulation testing helps identify potential issues before they lead to electrical failures, ensuring the safety of people and equipment.

Principles of Insulation Testing

Insulation testing involves measuring the electrical properties of insulation to assess its condition. The primary principles of insulation testing include:

- 1. Insulation Resistance (IR):** Measuring the resistance of insulation to electrical current. A high IR value indicates good insulation condition.
- 2. Polarization Index (PI):** Measuring the ratio of insulation resistance at different time intervals. A PI value greater than 1 indicates healthy insulation.
- 3. Dielectric Absorption (DA):** Measuring the absorption of electrical energy by insulation. A



high DA value indicates good insulation condition.

Methods of Insulation Testing

Various methods are used to evaluate insulation condition, including:

1. Megohmmeter testing :

Measuring insulation resistance using a megohmmeter.

2. Insulation resistance testing:

Measuring insulation resistance using a variety of test voltages.

3. Polarization index testing:

Measuring the polarization index to assess insulation condition.

4. Dielectric absorption testing:

Measuring dielectric absorption to evaluate insulation condition.

Benefits of Insulation Testing

Regular insulation testing offers several benefits, including:

1. Improved safety:

Identifying potential insulation defects or deterioration helps prevent electrical accidents.

2. Reduced downtime:

Detecting insulation issues early minimizes downtime and reduces maintenance costs.

3. Extended equipment life :

Regular testing helps identify potential issues before they lead to equipment failure.

4. Cost savings:

Preventive maintenance through insulation testing reduces the need for costly repairs or replacements.

Conclusion

Insulation testing is a critical aspect of electrical maintenance and diagnostics, ensuring the safety and reliability of electrical systems. By understanding the principles of insulation testing and using various testing methods, electrical professionals can identify potential issues before they lead to electrical failures. Regular insulation testing helps prevent accidents, reduces downtime, and extends equipment life, ultimately saving costs and ensuring electrical safety.



Get Free Electricity for 25 Years: Install Solar Panels on Your Roof for Just ₹500



Get Free Electricity for 25 Years: In a major push toward clean and affordable energy, the Government of India has launched a rooftop solar initiative that allows homeowners to install solar panels for as little as ₹500. The program, introduced under the National Rooftop Solar Mission, aims to empower millions of households with free electricity for up to 25 years. This campaign, active nationwide in 2025, supports India's larger goal of achieving energy independence and reducing carbon emissions through renewable power.

Under this initiative, homeowners can install solar panels on their rooftops at a fraction of the usual cost, thanks to central and state subsidies. Once installed, these systems generate electricity directly from sunlight, drastically reducing household electricity bills. The scheme particularly benefits middle- and lower-income families, helping them save money while contributing to a sustainable future. With solar energy now more accessible than ever, India is witnessing a green revolution that promises cleaner air, lower expenses, and long-term environmental benefits for all.

Government's Vision Behind the ₹500 Solar Panel Program

The ₹500 rooftop solar program is part of India's broader vision to increase renewable energy capacity and reduce dependency on fossil fuels. By subsidizing installation costs, the government is ensuring that even

low-income families can participate in the clean

energy movement. This initiative also supports India's commitment to achieving 500 GW of renewable energy capacity by 2030, aligning with global climate goals.

The program is structured to make the transition to solar energy smooth and affordable. Both the central and state governments share the subsidy burden, effectively lowering upfront costs for consumers. This means that families can adopt solar technology without worrying about heavy financial investments. Over time, this not only benefits individuals but also strengthens India's energy infrastructure, reduces pollution, and creates new employment opportunities in the renewable energy sector.

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ECAM CONTRACTORS VISIT TO TATA POWER CO.



ECAM' Mumbai Contractors have visited on 18th Dec 25 ; to see & understand technical features of Submersible Substation installed by Tata Power Co Ltd at Parel Receiving Station Site .

It was attended by 10 LECs of Mumbai .

Shri Raj Sethia ; Smt Prajakta Wadke & Shri Yash Mane of Tata Power Co Ltd explained all the technical & other details to the visiting Team of ECAM .

Transformer : Submersible 400 KVA ; 22 kv / 433 volts Toshiba make .

Ring Main Unit & L.T. panels .

It gives supply to Lighting & other loads of Parel Receiving Station .

How Homeowners Can Apply for Rooftop Solar Installation

Applying for the ₹500 solar panel scheme is simple and transparent. Homeowners can visit the official National Portal for Rooftop Solar, choose their electricity distribution company (DISCOM), and register using their consumer number. Once the application is approved, an authorized vendor conducts the installation at the applicant's home.

Applicants need to provide documents such as an Aadhaar card, electricity bill, and bank account details for subsidy transfer. The process ensures accountability and prevents unauthorized vendors from misleading consumers. The government's partnership with certified installers guarantees safety, quality, and long-term efficiency of the solar systems. With a few clicks and minimal paperwork, anyone with adequate rooftop space can start producing their own clean energy and enjoy the benefits for decades.

Also visited newly installed GIS - Gas Insulated Switchgears & Bus Couplers of Toshiba make of 110 Kv for Ten Transformers of 75 MVA .

This was a very good effort of high tech learning .

From ECAM Shailesh Doctor ; Chandrakant Brid ; Anil Gachke ; Pradip Shah ;

Pankaj Dishi ; Rajendra Gole ; Raju Brahmabhatt & Amit Brid were present .



Expected Power Generation and Financial Benefits

A 3 kW solar panel system can typically produce around 12–15 units of electricity per day, significantly cutting down power expenses. Over a year, this amounts to over 4,000 units of free electricity, translating into annual savings of ₹30,000–₹35,000 for an average household. The exact savings depend on local electricity tariffs and consumption patterns.

These systems have a lifespan of around 25 years and require very little maintenance. Once installed, users can enjoy uninterrupted clean energy and even earn credits through net metering. This means that any surplus power generated can be exported back to the grid, offsetting future bills. With electricity prices rising every year, switching to solar offers long-term financial stability and complete energy independence.





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