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Hiranandani**

Vice Chairman,
M.D. & Global CEO.

**RenewSys
India Pvt. Ltd.**



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Satish Kazi

Chairman
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Switchgear
Manufacturers'
Association
(COSMA)



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Gopal Vutha

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Electrical Contractors' Association of Maharashtra



President

Umesh Rekhe - +91 9822288423

Hon. Gen. Secretary

Devang Thakur - +91 9422249672

Publications & Publicity Committee Chairman

Narendra Shindekar, Pune - 9823012424

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

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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

Design & DTP - **Yatin Pawshe**

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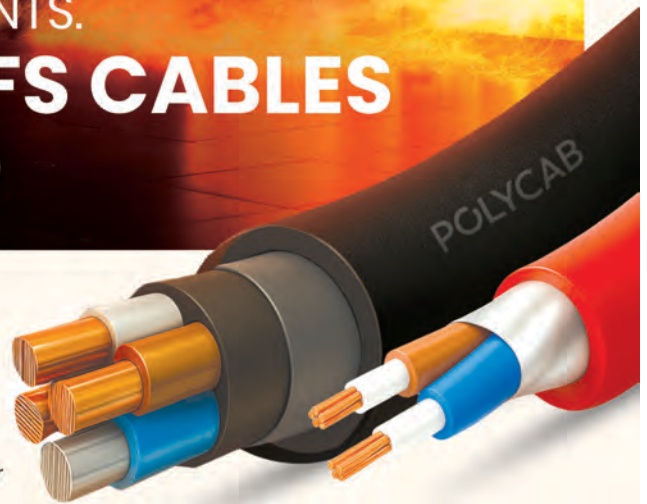
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सप्टेंबर महिन्यात विविध विभागांच्या वार्षिक सभा होत्या त्यामध्ये - १२ सप्टेंबर-अहिल्यानगर विभाग, १८ सप्टेंबर-पिंपरी चिंचवड विभाग, १९ सप्टेंबर-नाशिक विभाग, २० सप्टेंबर-धुळे नंदुरबार विभाग या ठिकाणच्या वार्षिक सभा अतिशय उत्साहात, भव्य दिव्य आणि खेळीमेळीच्या वातावरणात पार पडल्या. वार्षिक सभांच्या निमित्ताने त्या त्या विभागातील सभासदांचा स्नेह मेळावा भरतो. त्या निमित्ताने आपल्या इकॅम परिवाराचे स्नेह संमेलन भरीत असते, त्यामुळे सभासद बंधूंमध्ये एकता, बंधुतेचा संदेश पोहचविला जातो, ही एक प्रकारची पर्वणीच असते.

ज्या सभासदांना वैयक्तीक कारणांमुळे सहभाग नोंदविता आला नसेल त्यांनी पुढील वर्षीच्या अशा मेळ्यामध्ये अवश्य सहभाग नोंदवावा.

सर्व विभागांमध्ये २० ते २५ किंवा त्याही पेक्षा जास्त स्टॉलचे प्रदर्शन आयोजित केलेले होते. त्या निमित्ताने विविध कंपनीची नविन उत्पादने तसेच नविन तंत्रज्ञानाचे ज्ञान आपल्याला मिळते तसेच सदरहु कंपन्यांच्या प्रतिनिधींशी हितगुज साधायला संधी मिळते म्हणून आपल्या सर्व वार्षिक सभा तसेच वार्षिक सर्व साधारण सभेला आपली हजेरी लावणे आवश्यक आहे.

सर्वच विभागांमध्ये निवडणूक प्रक्रिया राबवली जात असते. बहुतेक विभागात आता नविन कार्यकारिणी अस्तित्वात येत असून त्या सर्वांना हार्दिक शुभेच्छा ! तसेच नविन कार्यकारिणीने मागील कार्यकारिणी कडून आपल्या संघटना वाढीसाठी प्रयत्न करणेसाठी त्यांचे मार्गदर्शन घेणे आवश्यक आहे. जुन्या व नविन कार्यकारिणीच्या एकत्रित प्रयत्नातूनच आपण आपल्या संघटनेला वेगळ्याच उंचीवर घेऊन जाण्यासाठी कटिबद्ध होऊयात.

सर्व वार्षिक सभांमध्ये सभासदांची उपस्थिती अतिशय चांगल्या प्रकारे होती ही गोष्ट खरोखर अभिमानास्पद असून त्याच बरोबर इतर विभागातील पदाधिकारी व सभासद यांचीही उपस्थिती उल्लेखनीय होती. यामुळे विविध विभागातील पदाधिकारी व सभासद यामध्ये परस्परां प्रती मित्रत्व, बंधुभाव व स्नेहभाव निर्माण होते व संघटने प्रति आदर निर्माण होतो.

विविध विभागांच्या वार्षिक सभा पुढील प्रमाणे - २६ सप्टेंबर - कोकण विभाग, ४ ऑक्टोबर - ठाणे विभाग, ८ ऑक्टोबर - पश्चिम महाराष्ट्र विभाग, ११ ऑक्टोबर - पुणे विभाग, ७ नोव्हेंबर - जळगाव विभाग संबंधित विभागातील सभासदांनी आपल्या विभागा बरोबरच इतर विभागाच्या वार्षिक सभांना मोठ्या संख्येने उपस्थित राहून संघटनेप्रति आपले प्रेम व्यक्त करावे, तसेच आपल्या व्यवसाय वृद्धिंगत करण्यादृष्टीने आपल्या तंत्रज्ञानात भर टाकावी. आपली वार्षिक सर्वसाधारण सभा ४ डिसेंबर रोजी मुंबईत होणार आहे.

आपल्या व्यवसायात विविध स्थित्यंतरे येत असून त्यासाठी आपण एकत्रितपणे लढल्यास त्यातून नक्कीच सुकर मार्ग निघेल अशी मला आशा वाटते.

सभासदांच्या विविध अडी-अडचणी, प्रश्नांबाबत विविध शासकीय कार्यालये, मंत्रालय तसेच प्रशासनाशी प्रत्यक्ष चर्चा करणे, निवेदने देणे या द्वारे आपण कायम प्रयत्नशील असतो परंतु काही अडचणी सोडविण्यासाठी सभासद स्वतः पुढे येणे गरजेचे आहे.

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नमस्कार मित्रांनो

इकॅम अहिल्यानगर विभागाची २७ वी वार्षिक सभा दिनांक १२ सप्टेंबर २०२५ रोजी हॉटेल संजोग नगरमनमाड रोड अहिल्यानगर येथे खेळीमेळीच्या वातावरणात संपन्न झाली. इकॅमतर्फे प्रभारी अध्यक्ष श्री. उमेश रेखे, महासचिव श्री. देवांग ठाकूर तसेच सर्व विभागीय चेअरमन आणि संचालक उपस्थित होते. इकॅम अहिल्यानगर विभागात झालेल्या निवडणुकीत श्री. अर्जुन ससे चेअरमनपदी श्री. श्रीकांत देवढे सचिवपदी तसेच श्री. महेश कुलकर्णी, श्री. सुबोध भोत, श्री. संदिप लोंढे, श्री. सागर तलवार हे कार्यकारी सदस्यपदी निवडून आले. त्याबद्दल त्यांचे हार्दिक अभिनंदन आणि त्यांच्या पुढील वाटचालीसाठी शुभेच्छा एक छोटेखानी प्रदर्शन आयोजित करण्यात आले होते. वार्षिक सभेनंतर सुग्रास भोजनाचा कार्यक्रम आयोजित करण्यात आला होता.

इकॅम पिंपरी चिंचवड विभागाची पहिली वार्षिक सभा दिनांक १८ सप्टेंबर २०२५ रोजी आरंभ बँकेट, हॉल, काळेवाडी बीआरटी रोड, काळेवाडी पिंपरी येथे खेळीमेळीच्या वातावरणात संपन्न झाली. इकॅमतर्फे प्रभारी अध्यक्ष श्री. उमेश रेखे, महासचिव श्री. देवांग ठाकूर तसेच सर्व विभागीय चेअरमन आणि संचालक उपस्थित होते. इकॅम पिंपरी चिंचवड विभागात झालेल्या निवडणुकीत श्री. सयाजी पाटील चेअरमनपदी, श्री. रमेश भालेराव सचिवपदी तसेच श्री. अरूण वाघमारे, श्री. मंगेश लोडाम, श्री. गजानन पेठसांगवे, श्री. बाबासाहेब जोंधळे, श्री. महेंद्र महाजन हे कार्यकारी सदस्यपदी निवडून आले. त्याबद्दल त्यांचे हार्दिक अभिनंदन आणि त्यांच्या पुढील वाटचालीसाठी शुभेच्छा एक छोटेखानी प्रदर्शन आयोजित करण्यात आले होते. वार्षिक सभेनंतर सुग्रास भोजनाचा कार्यक्रम आयोजित करण्यात आला होता.

इकॅम नाशिक विभागाची ३५ वी वार्षिक सभा दिनांक १९ सप्टेंबर २०२४ रोजी दी लिंगसी लॉन्स अँड बँकेटस, गंगापूर रोड हरी ओम ढाब्याच्या पुढे नाशिक येथे खेळीमेळीच्या वातावरणात

संपन्न झाली. इकॅमतर्फे प्रभारी अध्यक्ष श्री. उमेश रेखे, महासचिव श्री. देवांग ठाकूर, खजिनदार श्री. रावसाहेब रकिबे तसेच सर्व विभागीय चेअरमन आणि संचालक उपस्थित होते. इकॅम नाशिक विभागात झालेल्या निवडणुकीत श्री. समाधान पाटील चेअरमनपदी श्री. संदिप शिंदे सचिवपदी तसेच श्री. संजय नेरकर, श्री. समर्थ निकम, श्री. भरत देवरे, श्री. योगेश गायकवाड हे कार्यकारी सदस्यपदी बिनविरोध निवडून आले. त्याबद्दल त्यांचे हार्दिक अभिनंदन आणि त्यांच्या पुढील वाटचालीसाठी शुभेच्छा! एक छोटेखानी प्रदर्शन आयोजित करण्यात आले होते. वार्षिक सभेनंतर भोजनाचा कार्यक्रम आयोजित करण्यात आला होता.

इकॅम धुळे नंदुरबार विभागाची ११ वी वार्षिक सभा दिनांक २० सप्टेंबर २०२४ रोजी हॉटेल रेसिडेन्सी पार्क, मुंबई आग्रा हायवे धुळे येथे खेळीमेळीच्या वातावरणात संपन्न झाली. इकॅमतर्फे प्रभारी अध्यक्ष श्री. उमेश रेखे, महासचिव श्री. देवांग ठाकूर तसेच सर्व विभागीय चेअरमन आणि संचालक उपस्थित होते. इकॅम धुळे नंदुरबार विभागात झालेल्या निवडणुकीत श्री. किरण पेंढारकर चेअरमनपदी श्री. दिलीप चौधरी, सचिवपदी तसेच श्री. भरत पाटील, श्री. विजय माळी, श्री. मोहित वाघ, श्री. हेमंत सोनावणे हे कार्यकारी सदस्यपदी बिनविरोध निवडून आले. एक छोटेखानी प्रदर्शन आयोजित करण्यात आले होते. वार्षिक सभेनंतर भोजनाचा कार्यक्रम आयोजित करण्यात आला होता.

ज्या सभासदांना आपले लेख किंवा आपण केलेल्या उपक्रमांसंबंधी काही माहिती आपल्या आय.ई.सी.टी. मासिकामध्ये छापण्यास द्यायची असेल तर ती त्यांनी इकॅम कार्यालयाकडे पाठवावी.

आपल्याला आपला व्यवसाय करताना काही अडचणी येत असतील तर त्या अडचणी आपण इकॅम मुख्यालयाला लेखी स्वरूपात कळवाव्यात. इकॅमच्या सभासदांना येणाऱ्या अडचणींचे निराकरण करण्यासाठी आम्ही कसोशीने प्रयत्न करू.

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**Satish Sinnarkar****Editor, IECT**

People and Industry friendly GST simplification

GST has completed eight years. In the course of those eight years, there were several lessons learnt. Unfortunately, Covid came in between. So, lessons which could have been learnt within four to five years could not happen because of Covid. One or two years after that were taken to restore normalcy. Hence without the two to three years of Covid-affected period, India has revamped GST within five years of its introduction.

Although the finance minister is saying that the recent GST reforms are not due to the (US) tariff, but we can sense the timing and mood of the government and come to a logical conclusion. The minister is also claiming that it is in support of the proposal which is pro-people, pro-middle class, pro-MSME, pro-the large interest of the economy to grow faster. Can we believe this claim? It is highly debatable since the MSME section is undergoing many difficulties. Similar is the case of income tax. Open declarations by government do not match with quick actions. When they claim that the relevance and need is that the people should get a simplified rate of tax which is friendly. We hope that this will be properly implemented by the beaurocracy. Above all, the structure of income tax has to become absolutely simple to understand, compliance has also to become simple to understand.

As regards the input credit of GST, Government is taking a conscious call after talking with the stakeholders. There are some sectors who want it with

input credit. And there are others who don't want any of the input credit. Industry knows where it wants to position itself. So the government is giving them both the options. The end result should be that people get the benefit. Care has to be taken that the industry should not be totally disrupted.... decisions should be taken with their consent.

Regarding the GST reforms we can say that it's a very clear step forward when the government has cut the rate. And that is going to have an impact on literally every one, whether you buy a toothpaste, a safety pin, a car, shoes or medicines or you go to a diagnostic centre. With this rate rationalisation, everyone is going to have that relief. That itself will trigger consumption. Demand will increase. And if demand increases, what will the industry wait for? Once the investment comes, capacity will be built and jobs will be created. So this GST reform is a classic example of that virtuous cycle. It is being kicked in now.

The Central Board of Indirect Taxes and Customs chairman said in an interview to a leading financial daily that sin goods (demerit goods) would face an extra levy on top of the 40 per cent GST rate. If this is true, we have to watch in what manner can this levy come? We can not say anything at this moment but keeping a watch is a must.

Dear readers, please share your views on this crucial subject so that we can continue the discussion in the interest of our industry.



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“
I believe continued
regulatory support
and clear long-term
targets are vital to
make India the
world's solar leader”

Avinash Hiranandani

Vice Chairman, M.D. & Global CEO.
RenewSys India Pvt. Ltd.

RenewSys is the renewable energy arm of the ENPEE Group, which has a long history in manufacturing. RenewSys is India's first company to make solar PV modules and their parts, like encapsulants, backsheets, and solar cells, all in one place. Started in 2011 in Mumbai. Avinash Hiranandani is the Global CEO and Managing Director of RenewSys India Pvt. Ltd., playing a key role in its operations and growth. He has a significant amount of experience in leadership roles within the packaging, energy, and engineering industries. It was due to his connect with Mr Madan Dodeja of Vashi Integrated Solutions that IECT could get time for an interview. A few excerpts are published here for the benefit of our readers. - Satish Sinnarkar, editor, IECT

● Please share your vision for the future of renewable energy, with local and global overview and how RenewSys 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?

- RenewSys envisions a future where clean energy drives India's economic progress and sustainability through Make in India initiatives, evidenced by our Platinum Medal by EcoVadis, which is a globally recognized and trusted platform for assessing and rating business sustainability performance. We are committed to making India self-reliant in renewable energy by producing innovative, high-quality solar PV modules and key components entirely within the country. To achieve this, we continuously invest in integrated manufacturing, and advanced R&D, staying current with technological advancements; from AI-driven production to next-generation high-efficiency TOPCon solar cells; that directly benefit the Indian

market and help build resilient supply chains for sustainable growth. This positions RenewSys as a national leader in powering India's renewable energy transformation.

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

- Solar energy is fundamental to India's low-carbon transition by providing scalable, clean power to industries, homes, and rural areas, reducing fossil fuel dependence and emissions. RenewSys actively supports this national goal by developing and supplying advanced, high-efficiency solar PV modules and its key components that are made in India, meeting DCR requirements and enabling widespread adoption across utility, commercial, and residential sectors under the PM KUSUM for farmers and PM Surya Ghar Yojna for houses. With manufacturing capacities expanding; such as 2.5 GW for modules, 30 GW for Encapsulants, and 4 GW for Backsheets. RenewSys ensures reliable, high-

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performance products that drive sustainable growth and energy security across the country.

● **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?**

- Indian solar manufacturing is witnessing breakthroughs with the adoption of N-Type TOPCon, bifacial modules, and transparent backsheets—technologies pioneered and manufactured by RenewSys right here in India. Our R&D centers have launched several firsts for the nation, including flexible and high-output module series and our modules are the only ones to receive a 5 Star BEE rating. While hydrogen and bioenergy are promising, our core focus remains solar, where we evaluate complementary opportunities based on India's energy priorities.

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

- Sustainability is embedded across our operations, we minimize impact through energy-efficient production, recycling, water conservation, and responsible material selection. Our EcoVadis Platinum rating is proof of our commitment and transparent practices. We are also 100% EPR compliant. Climate change is an urgent challenge, and our strategy is to continually raise standards, innovate responsibly, and inspire Indian industry to act decisively for a cleaner tomorrow

● **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's renewable energy market is set to grow at a CAGR of 9% till 2047, with aggressive government support and increasing awareness driving solar adoption nationwide. Solar will also play a key role in the Hon'able Prime Ministers Viksit Bharat Vision by 2047 when India completes 100 years of independence. I expect continued decline in costs due to the latest GST implementations, faster rooftop deployment, and digitalization of grid integration. Innovation and R&D are critical for this progress. At RenewSys, we lead with new product launches and advanced reliability programs, setting standards that

will shape India's solar sector for years to come.

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

Policy frameworks such as the National Solar Mission, DCR, GST reforms and basic customs duty have fuelled domestic manufacturing and shaped the industry's trajectory. RenewSys works diligently to ensure compliance, offer policy feedback, and adapt rapidly to new requirements. I believe continued regulatory support and clear long-term targets are vital to make India the world's solar leader.

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

- RenewSys has set benchmarks in product reliability, with advanced automated lines, rigorous testing, and adherence to Indian and global certifications including BEE, PVEL, BIS, UL and IEC. Our modules and components are manufactured using in-house materials, ensuring traceability and top-tier quality for Indian climatic conditions. Continuous process optimization and customer-centric service further establish our reputation for excellence.

● **With 30 years of leadership experience, what advice would you give to aspiring professionals in the renewable energy industry?**

- Aspiring professionals should focus on technical expertise, sustainability leadership, and innovation. India's renewable energy journey is just beginning. I recommend young professionals to embrace cross-disciplinary learning, seek mentorship, and contribute to ethical, solution-driven progress. A commitment to quality, industry collaboration, and open-mindedness will help build a successful and impactful career in India's growing sector.

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

I enjoy spending quality time with my friends, whether traveling or simply meeting up, as their energy and companionship inspire and motivate me daily. My wife, as the president of Kshitij NGO, dedicates herself to supporting children with special needs, which is a cause close to our family's heart. On the CSR front, RenewSys actively contributes to impactful initiatives like Mission for Vision, CACR, Magic Bus, and Sarthak Seva Sangh, demonstrating our commitment to giving back to the community and driving positive social change.





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Satish Kazi : A Legendary Industry Leader and Philanthropist



It is our honor to introduce Mr. Satish ji Kazi saheb, a highly respected and accomplished industry leader, entrepreneur, and philanthropist. With a remarkable career spanning over six decades, Satish ji has left an indelible mark on the industry.

A gold medalist in education, he began his illustrious career at Larsen & Toubro, where he worked for several years, gaining invaluable experience and expertise. He later ventured into entrepreneurship, starting his own business, which he successfully managed for many years.

Satish ji has also been a strong advocate for industry interests, working with trade associations and even founding a new trade association to promote the growth and development of the sector. He was vice president of Ecam, now the 100 year old trade association known as Electrical Contractors' Association of Maharashtra. He is the founding president of Cosma, the well known Control Panel Manufacturers Association.

After closing his business at the age of 65, he redirected his energy towards social work, using his vast experience to make a positive impact on society.

Now, at the age of 86, Satish ji continues to inspire and guide industry professionals, leveraging his wealth of knowledge and expertise to mentor and advise.

We are delighted to present here a detailed video interview of dear Satish ji and share his insights and experiences with us, and we look forward to learning from his remarkable journey. Please scan the QR codes to watch and listen the four parts of the interview.

- Satish Sinnarkar, Editor, IECT



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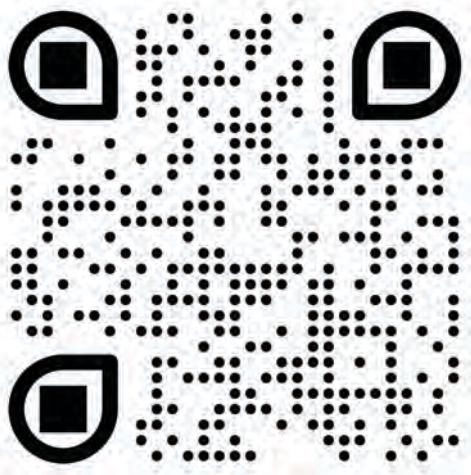
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Mr. Aditya Vutha

Mr. Gopal Vutha

Director

PROFAB ENGINEERS PL.

Mr. Aditya Vutha

Managing Director

PROFAB ENGINEERS PL.

Profab Engineers was started in year 1984 as a partnership between Shri Vutha Mohan C.A & Vutha Gopal, a mechanical engineer both with good working experience.

It was a time when organised cable management was unheard of in the field. Only a few projects like Tarapur atomic power had well designed trays (imported). Ladders would be fabricated at project site from commercial angles. Perforated trays used was of narrow widths used mostly in instrumentation.

Around 1986 Vizag steel being established with Russian technology was looking for a source to develop cable management products as per Russian specs. Profab delivered & then did not look back. Eight contractors including Siemens, L&T, Bhel and Philips among others bought cable management products from Profab.

Mr. Gopal Vutha is a respectable senior industry leader in CMS. IECT was fortunate enough to get an interview of Mr. Gopal. A few excerpts from his detailed interview are presented here. - Satish Sinnarkar.

● **Please tell us about your company & its history in Cable Management System**

By the 90s Profab was recognised as a company with innovative ideas having user friendly products. A period of steady growth followed and by 1998 Profab converted to a Pvt Ltd company.

In 2014 PUK GmbH, bought 51% equity in Profab. Day to day management remains with the Indian family.

In the last 20 years, Profab has been the preferred choice for most prestigious and challenging projects

executed by Electrical contractors and leading MEP Consultants. The gamut included most leading automobile plants, tyre plants, glass plants, paint plants, almost every International and domestic airport in India, all leading IT and IT related sector companies, financial sector cos, banks and financial institutions, Pharmaceutical and Chemical plants, Refineries, cement plants in India and abroad, sports stadiums in India and abroad, mining projects, food processing plants, and in recent times Data Centres all over the country, temples

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and institutions of learning, centres of dance and drama With a capacity of over 15000 tons pa spread over 4 plants, Profab is one of the leading cable Management systems supplier. Profab has the largest footprint in cable management in India .

● **What is your product portfolio & what types of cable management solutions do you offer?**

From start Profab benchmarked itself to compare with internationally used products & installation practices. Ladder cable trays of BOLTED RUNG CONSTRUCTION from profab were unique . Now, welded rung is very much part of range, so is perforated cable trays of all popular widths, thicknesses offered with all accessories used in the field.

Raceways, junction boxes, access boxes and all accessories are offered with features like tapping from sides, top of raceways or of boxes. Range of Point of location fittings offered by Profab remains unmatched

Wire mesh trays are made by modern process using wires of up to 6mm thick MS/SS Supports for all the above mentioned fabrications are available. Distinctive feature being supply is made in knocked down modular construction. Largest range from a single source .

During installation only the long member needs to be cut whereas the foundation items & tray supports are prefabricated standard ready to use.

How is your company apart from competitors :

Spending much time at installation sites Profab understood the pain points of installation teams and then designed fabrications to suit. Project needs. Customer loyalty has thus been EARNED .

Walking in step with customer Profab has time and again developed new Or altered existing standard product to suit customer needs. Typical being supports on inclined walls of trench.

Multiple locations of production with similar machinery setup makes possible early delivery of some items when immediately demanded.

Profab support with site visits is a regular practice .Comfort of installation team is important to Profab.

● **What innovative features or solutions have you introduced in your products recently**

Profab offers earth flat clamps that bolt onto trays or supports For widths of trays Or raceways up to 200 mm Profab has introduced a bottle shaped bracket that needs only one threaded rod instead of two When confronted with no welding to purlin situation at advanced stage,

Profab immediately responded with development of Purlin bracket which has now become an industry standard.

Ladder –Profab's bolted rung ladders that come with full range of accessories occupy in truck about 20 % of space taken by welded ladders .Saves huge on freight . Imitations have not delivered performance to same level

Perforated- Profab was first to adopt the longitudinal punch pattern when the std. in India was horizontal. Distortion in HDG process & finishing is minimum with this pattern .

Raceways – joggled sides that ensure covers of same dimensions as duct was first introduced by Profab.

Junction boxes – Profab construction has become the standard in industry & has been imitated extensively without the same results. Products are made using steel, Stainless steel, normal and marine grade aluminium, FRP.

● **What quality control measures do you have in place to ensure product reliability & safety**

Profab design of product considers importance of zinc drain upon dipping in hot zinc, it ensures better surface finish

Steel, Aluminum, Stainless steel & highest purity zinc for HDG are purchased directly from producers with test certificates. It ensures desired input quality. Huge stocks are maintained .

In process quality is ensured with DEDICATED not multi use tools as is largely followed in industry

Highest numbers of process machinery laid out in cluster pattern makes it possible maintain equipment at optimum levels

In process quality check is a normal practice. There is one dedicated person to check & coordinate in each finishing operation - hdg or powder coating location

● **Please share any success stories or case studies of how our products have benefited customers**

The biggest cable duct fabricated in India used in refineries & chemical plants used to be of welded construction .In 1994 Profab was first to convert it to bolted that made HDG easy .

Some elec. Contractors have grown taking us along while increasing their business many times –could be up to 5 times in 10 years. Understanding each other helps

Similarly some equipment manufacturers have used our standard products in export installations earning customer appreciation.

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Profab did may be 100 tons of special Russian designed supports for L&T at Vizag steel plant in 1988 & stayed on for years to handle their most challenging jobs, MIAL 1500 tons with many special items. Coastal road with trays & supports designed with participation of L&T.

Every private airport in India has Profab products exclusively or substantially. Some Others names are Chennai 2 phases ,Durgapur, Chandigarh ,Vizag , Kolkatta, Cochin , Kozikhode Trichy, Rajahmundry, Andaman islands ,Goa (Mopa),Raipur, Nagpur, Dehra Dun.

With prefabricated shed structures often welding to structure elements is not permitted. Profab has come up with alternative supports requiring no welding.

Profab has won management award of central MSME ministry & many specific to user companies.

Do you offer any eco friendly or sustainable cable management solutions

Useage of pregalvanised steel in itself an eco-friendly proposition. Profab complements that by joining without welding or with minimum most welding

Again, usage of light gauge sheet steels instead of hot rolled sections is an eco friendly measure ,that too by cold forming process to obtain maximum strength from the steel Currently new steels have been developed by principal producers that are an alloy of *iron – -zinc-aluminium –magnesium* .(BGL –JSW , POSMAC – POSCO ,MAGNELIS – AM&NS STEEL are trade names) These steels display better corrosion resistance than Hot dip galvanised steel & is being promoted actively by Profab . The same steel has proved itself in the solar power industry .

● What are your plans for expanding your product portfolio

India attracts project players from many parts of the world who are comfortable with their own type of products or standards. This is seen magnified in Data centres. Profab makes alteration to standard or develops altogether new products to deliver acceptable solutions.

Abuse in transport, handling , corrosion in India & installation of floor level products being high Profab is considering robust build with corrosion less steels to counter quality issues.

● **On entering new markets** : Profab has serviced many export jobs as associate of Indian EPC contractor. Now independent exports are being pursued .

● How do you see the cable management industry evolving in the next few years

Cable management industry has grown exponentially

in India, foreign players have come in & made deep impression but volume growth of each player has not been encouraging Number of players in each region is also multiplying. Enforcement of standards has been tardy. Many marginal players operate in the gaps between standards .

Volumes are growing rapidly so are also types and players. It may take another 5 years for the industry to consolidate & narrow the range of types employed to well managed levels .

● What will be your advice to electrical contractors & young generation (of contractors –I assume)

Adopt a partnership approach with CMS suppliers for long term mutual benefits. Plan purchases early to ensure timely execution .When constrained to purchase in last minute buy standard sizes & add tiny quantities of tray sizes to next higher width .Too many sizes delays manufacturing and execution

Avoid play/pause type of ordering to time site requirement. Share tentative delivery plan so that materials are covered in time & slots for delivery are booked.

Involve the CMS source also with consultant so that in some instances or locations better performing products & standard available alternatives are chosen.

At least 10 or 15 nationally engaged CMS companies have developed good products, expertise & services to lend excellent comprehensive support to contractors. Piece meal approach of contractors to CMS items may often result in higher costs & less efficient installation .

It is recommended that with consensus obtained between producers & consultants Indian National Standards with clear testing practices should be evolved, so that domestic players can an equal opportunity

● Please tell us about your hobbies, social work Or leisure plans.

Social work –

Profab has established libraries in rural schools –near Nashik tribal area Has funded check a dam & solar pumps construction to lift water to villages at altitude of 200 mtrs in Palghar Has planted thousands of trees in Palghar area Has distributed thousands of note books to students in Palghar Has supported some schools for upgrading infrastructure and E learning

Has supported charitable hospital facilities in Mumbai and Navi Mumbai areas.





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Release of Report: Solar PV Potential Assessment of India (Ground-Mounted)

India possesses one of the world's richest solar resources, with average irradiance ranging from 3.5 to 5.5 kWh/m²/day across much of the country. Recognizing this opportunity, National Institute of Solar Energy (NISE) (an autonomous institute of Ministry of New and Renewable Energy (MNRE)) has undertaken an updated, scientific, and spatially resolved assessment of India's ground-mounted solar PV potential.

The new report builds on the earlier 2014 estimate of **749 GWp** and incorporates cutting-edge methodologies, including high-resolution GIS, satellite-derived datasets, and refined land-use models.

Key methodological features:

- High-resolution geospatial analysis to identify feasible solar sites.
- Integration of infrastructure and technical design factors, such as inter-row spacing, shading, proximity to substations and road networks.

Major findings:

- Feasible ground-mounted solar potential: **~3,343 GWp**, using **approximately 6.69%** of the total identified feasible wasteland
- The report shows that apart from well-known desert regions in Rajasthan and Gujarat a large number of states have very high potential for ground mounted solar PV.
- The potential is very well spread all over the country. Apart from the well-known regions of Rajasthan, Maharashtra, and Gujarat due to availability of vast wastelands, and high irradiance, a large number of other states also show significant capacity owing to favorable solar geometry and land-use efficiency.

This assessment provides a policy-linked, investment-ready framework to guide project siting, infrastructure development, and private sector participation. The results are directly aligned with India's Panchamrit commitments announced at COP26 and support the nation's long-term goals of energy independence by 2047 and net-zero emissions by 2070.

Inauguration of Training Program on Solar Cell and

Module Manufacturing

The Hon'ble Minister also inaugurated the first Training Program on Solar Cell and Module Manufacturing at NISE. This initiative has been designed to build technical capacity and develop a skilled workforce in line with India's growing solar manufacturing sector, which has already achieved 100+ GW of installed module manufacturing capacity and 15 + GW of solar cell manufacturing capacity.

The course will provide hands-on training in advanced manufacturing processes, quality control protocols, and global best practices, thereby contributing to the creation of a self-reliant and globally competitive solar manufacturing ecosystem.

Women Empowerment and International Cooperation

The Minister interacted with 28 women trainees from 15 nations participating in the International Training Programme on Solar Energy Technologies and Applications for Women. He emphasised that India's clean energy transition is not only about technology, but also about people and empowerment.

Highlighting PM Modi's vision of Solar Didi, he said Nari Shakti is at the forefront of the renewable energy journey. He also noted the significance of launching the initiatives during Seva Parv and Navratri, reflecting the spirit of collective service and the strength of divine feminine energy in driving India's clean energy transition.

The Union Minister said that the dual initiatives of releasing the updated Solar PV Potential Assessment Report and launching the training programme on solar manufacturing mark a defining moment in India's renewable energy journey. He underlined that these steps will provide the scientific roadmap, skilled manpower, and manufacturing strength required to realise the vision of Viksit Bharat. With sustained efforts, partnerships with global and domestic stakeholders, and the active participation of citizens, India is poised to emerge as a global leader in the clean energy transition while ensuring energy security, economic growth, and environmental sustainability.



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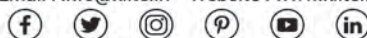
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Why manufacturing sector's energy bills are at 20-year low

High energy costs, long a drag on India's manufacturing competitiveness, are finally easing.

Power and fuel expenses accounted for 1.98 per cent of net sales in 2024–25, the lowest level in data compiled by the Centre for Monitoring Indian Economy (CMIE) over the past two decades.

The April-June 2025 quarter saw an even lower figure of 1.92 per cent. Advances in technology, conservation measures, and firms investing in their own power generation units are among the reasons for the decline.

“Solar and wind cost Rs 3–4 per unit,” said Mahesh Bendre, fund manager at LIC Mutual Fund, noting that many firms are shifting to cheaper renewable electricity, either through third-party purchases or captive plants.

Bendre added that the transition is still underway, with energy costs likely to fall further.

Companies are pairing renewable plants with battery energy storage systems to improve reliability.

Falling battery prices and declining renewable tariffs should help companies cut energy expenses, he said.

Several manufacturers, big and small, mentioned their cost-cutting efforts in annual reports.

Bharat Heavy Electricals, valued at over Rs 75,000 crore, reported adding a 5 megawatt peak (MWp) solar plant at Haridwar, expected to generate 9 million units annually, along with a 2 MWp facility in Hyderabad that will add 3.6 million units.

“Through systematic energy audits conducted across its units, various conservation projects have been implemented, resulting in tangible reductions in energy demand,” the company's annual report said.

Filatex India, a polyester filament yarn maker valued at under Rs 5,000 crore, said it has commissioned a 23 megawatt (Mw) hybrid wind-solar project that will meet most of its power needs.

“This shift is expected to reduce energy costs by Rs 18–20 crore annually. “We continue to operate our 30 Mw captive power plant for reliability,” the company said in its annual report. The trend extends beyond the manufacturing segment.

For 4,184 non-financial companies as a whole, power and fuel expenses are also at a two-decade low, standing at 1.66 per cent of net sales in the April-June quarter.

The push for nuclear energy could act as a tailwind for lower-cost, reliable industrial power generation, according to K Ramanathan, Distinguished Fellow at The Energy and Resources Institute.

Energy-intensive sectors such as steel and cement are exploring small modular reactors (SMRs) — compact nuclear power plants that promise low-cost, reliable supply.

Regulatory norms are being relaxed, and global thrust is building, with the US, China, and the UK pushing adoption.

“All the artificial intelligence and data centres coming up have huge concentrated demand,” Ramanathan said, adding that SMRs could see deployment in India within five years.



Fire & Safety audit of Ganesh Pandals



Happy to share that as one of the FSAI jury members of Safest Ganesh Pandals of Mumbai, had opportunity to conduct inspections and Fire and Life Safety Audits, including electrical, of the major Ganesh Pandals, like Girgaon Cha Maharaja, Mumbai cha raja, Ketwadi cha raja, Antop Hill cha raja, Sahyadri i.e. Chembur cha raja, Andheri cha raja, etc., alongwith the Mumbai CFO team members, Disaster Management executive team,

and FSAI members on 4th September 2025, between 0700 hrs and 2300 hrs, non stop.

Ganesh Mandal management teams are found to be very proactive as far as safety and security of millions of the devottes visiting Lord Ganesh, is concerned and complying with the safety rules and Regulations, including insuring the lives of the devotees, volunteers, and the Ganesh pandals also.

FSAI is conducting such inspections and Audits of these Ganesh Pandals for last 13 yrs. The Safest Ganesh Pandals are awarded while the teams are felicitated, which boost their enthusiasm to practice safety rigorously.





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Reliance to develop one of the world's largest solar projects, spanning 550,000 acres of land in Gujarat; 3X the size of Singapore.

At the company's annual general meeting, Reliance's Chairman informed the shareholders that this innovative solar project could fulfill nearly 10% of India's electricity needs within the next decade.

Leading Indian conglomerate Reliance is developing one of the world's largest single-site solar projects spanning 5,50,000 acres of land which is three times the size of Singapore, in Kutch, Gujarat, as declared by Chairman Mukesh Ambani.

At the company's annual general meeting, Ambani shared with the shareholders that the site could meet nearly 10% of India's electricity needs within the next decade.

"At peak, the project will deploy 55 MW of solar modules and 150 MWh of battery containers every day, making it among the fastest installations globally." Ambani mentioned in the meeting.

"The project will connect seamlessly with Reliance's marine and land infrastructure at Jamnagar and Kandla, enabling large-scale solar and hydrogen integration," Ambani further added.

The Vision of the Reliance Solar Project

Ambani further added that Reliance will produce and export green ammonia, green methanol, and sustainable aviation fuel, positioning India as a global hub for cost-competitive green hydrogen along with its derivatives.

While the initial focus will be on meeting Reliance's own captive demand, the company plans to scale up to 3MTPA (million tonnes per annum) of green hydrogen equivalent production capacity by 2032.

The Current Status of the Solar Project

Ambani has declared that the company's solar PV manufacturing platform has become operational, producing its first 200 MW of heterojunction technology (HJT) modules.

These deliver 10% higher energy yield, 20% better temperature performance, and 25% lower degradation.

The platform will expand to 10 GWp per year of integrated solar PV manufacturing capacity in the coming quarters and further to 20 GWp, making it the largest solar manufacturing facility and the most integrated single-site solar complex all across the globe.

The way ahead

Alongside this, Reliance is also establishing battery and electrolyser giga factories.

The battery giga factory will start operating in 2026 with 40 GWh annual capacity, expandable to 100 GWh, while the electrolyser giga factory will begin by the end of 2026, with a capacity of up to 3GW per year, enabling large-scale, cost-competitive green hydrogen production.

Ambani stated that bringing together solar, battery storage, and hydrogen into a single integrated ecosystem will yield advantages in scale, cost efficiency, and technology, while strengthening supply chain resilience simultaneously. This approach, he added, will generate long-term value as the global shift toward cleaner energy accelerates.



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‘विद्युत उपकरणांच्या उत्पादनांसाठी आवश्यक व्यवस्था राज्यातच तयार होईल’ - मुख्यमंत्री



“केंद्रीय ऊर्जा अनुसंधान प्रयोगशाळेच्या नाशिक येथील प्रादेशिक तपासणी प्रयोगशाळेमुळे विद्युत उपकरण उत्पादन करणाऱ्या उद्योगांना चाचणीसाठी हैदराबाद किंवा भोपाळला जावे लागणार नाही. तसेच, विद्युत उपकरणांच्या उत्पादनांसाठी आवश्यक व्यवस्था राज्यातच तयार होईल,” असा विश्वास मुख्यमंत्री देवेंद्र फडणवीस यांनी व्यक्त केला. त्याचबरोबर “सीपीआरआय”च्या नाशिक येथील प्रादेशिक तपासणी प्रयोगशाळेत विद्युत वाहन तपासणीची सुविधा झाल्यास ई-वाहन उद्योगाच्या विकासाला गती मिळेल,” असेही ते म्हणाले. शिलापूर येथील ‘सेंट्रल पॉवर रिसर्च इन्स्टिट्यूट’च्या प्रादेशिक तपासणी प्रयोगशाळेचे बुधवार, दि. १० सप्टेंबर रोजी मुख्यमंत्री देवेंद्र फडणवीस आणि केंद्रीय ऊर्जामंत्री मनोहरलाल खट्टर यांच्या हस्ते उद्घाटन करण्यात आले. यावेळी अन्न, नागरी पुरवठा व ग्राहक संरक्षणमंत्री छगन भुजबळ, जलसंपदामंत्री गिरीश महाजन, शालेय शिक्षणमंत्री दादा भुसे, ‘सीपीआरआय’चे महासंचालक आशिष सिंग, आ. देवयानी फरांदे, आ. राहुल आहिर, आ. राहुल ढिकले, आ. सरोज अहिरे, विभागीय आयुक्त डॉ. प्रवीण गेडाम, पोलीस आयुक्त संदीप कर्णिक, विशेष पोलीस महानिरीक्षक दत्तात्रय कराळे, जिल्हाधिकारी जलज शर्मा, मनपा आयुक्त मनीषा खत्री, जिल्हा परिषद मुख्य कार्यकारी अधिकारी ओमकार पवार, जिल्हा पोलीस अधीक्षक बाळासाहेब पाटील, ‘सीपीआरआय’चे सहसंचालक के. सूर्यनारायण आदि उपस्थित होते. झसीपीआरआयफ्त्री प्रादेशिक तपासणी प्रयोगशाळा महाराष्ट्रासाठी महत्त्वाची ठरेल, असे नमूद करत मुख्यमंत्री

फडणवीस म्हणाले की, “१२व्या वित्त आयोगात मान्यता मिळालेल्या या प्रयोगशाळेमुळे एक चांगली व्यवस्था तयार झाली आहे. यापूर्वी विद्युत उपकरण तपासणीवर खर्च अधिक होत असल्याने या क्षेत्रातील गुंतवणुकीला मर्यादा येत होत्या. आता आरटीएलमुळे ट्रान्सफॉर्मरपासून विद्युत उपकरणांपर्यंत विविध उत्पादनांसाठी आवश्यक व्यवस्था तयार होणार आहे,” असे त्यांनी सांगितले.

ऊर्जाक्षेत्रात २ लाख कोटींची गुंतवणूक

प्रधानमंत्री नरेंद्र मोदी यांच्या मार्गदर्शनाखाली ऊर्जाक्षेत्रात मोठे परिवर्तन झाले आहे. वीजवापराचा दर गेल्या २५ वर्षांच्या तुलनेत पुढील २५ वर्षांत चौपट राहणार आहे. त्यामुळे महाराष्ट्राचे गेल्या तीन वर्षांत ४५ हजार मेगावॉट क्षमता स्थापित करण्याचे प्रयत्न सुरू असून, राज्याला ऊर्जाक्षेत्रात स्वयंपूर्णतेकडे नेण्याचा प्रयत्न केला जात आहे. ‘विद्युतनिर्मिती’, ‘पारेषण’ आणि ‘वितरणा’च्या संदर्भातील २०३५ सालापर्यंतचे नियोजन करून, राज्यात दोन लाख कोटींची गुंतवणूक ऊर्जाक्षेत्रात करण्यात येत असून, त्यात केंद्र सरकारचे सहकार्य मिळत आहे. त्याद्वारे विद्युत वितरणाचे जाळेनिर्मिती, हरित ऊर्जानिर्मिती आणि विश्वासाई विद्युत वितरणावर भर देण्यात येत आहे. ऊर्जाक्षेत्रात केंद्र सरकारने सुरू केलेल्या मानांकन प्रक्रियेत महाराष्ट्र प्रथम क्रमांकावर असल्याचेही त्यांनी सांगितले.

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- प्रयोगशाळेमुळे केंद्राच्या आत्मनिर्भर दृष्टिकोनाला पाठिंबा
- जलद उत्पादन आणि बाजारपेठ प्रवेशाला प्रोत्साहन
- मुख्यमंत्री देवेंद्र फडणवीस विश्वासाहता व बेंचमार्क सुनिश्चित करणार

‘उद्योगाचे जंक्शन’ म्हणून नाशिकचा विकास

नाशिक जिल्हा गुंतवणुकीचे प्रमुख केंद्र होत असून, गेल्या सहा महिन्यांत सात मोठ्या उद्योगांनी गुंतवणूक केली आहे. समृद्धी महामार्गामुळे गुंतवणुकीचे प्रमुख केंद्र म्हणून नाशिकची ओळख प्रस्थापित होत आहे. नाशिकपासून जेएनपीटीपर्यंत उत्पादनाची वाहतूक सुलभ होणार आहे. वाढवण बंदराशीही नाशिक जोडले जाणार असल्याने ‘उद्योगाचे जंक्शन’ म्हणून नाशिकचा भविष्यात विकास होईल, असा विश्वास मुख्यमंत्र्यांनी व्यक्त केला.

पश्चिम भारतातील उद्योजकांसाठी**‘आरटीएल’ उपयुक्त : खड्डर**

गुणवत्ता तपासणीच्या आधारे ऊर्जाक्षेत्रातील प्रत्येक उपकरण तयार केले जाते. अशा तपासणीसाठी ‘आरटीएल’ महत्वाची असून, ती पश्चिम भारतातील उद्योगांच्या वाढत्या गरजा पूर्ण करण्यासाठी उपयुक्त ठरेल. महाराष्ट्रात प्री-पेड स्मार्ट मीटरचा उपयोग सुरू झाल्याबद्दल राज्य शासनाचे अभिनंदन करून ते म्हणाले, “स्मार्ट मीटरचा उपयोग करणाऱ्यांसाठी वीज देयकात दहा टक्के सूट देण्याचा राज्य शासनाचा निर्णय इतर राज्यांना मार्गदर्शक आहे. ट्रान्सफॉर्मर, एनर्जी मीटर, स्मार्ट मीटर, ट्रान्सफॉर्मर ऑईल आणि इतर वीज उपकरणांचे उत्पादक येथे देण्यात येणाऱ्या प्रगत चाचणी आणि प्रमाणन सेवांचा लाभ घेऊ शकतील. तसेच, भारत आणि दुर्बईमधील विद्युत वाहिन्या समुद्राखालून जात असल्याने त्यासाठीच्या वाहिन्यांचे परीक्षण आणि अणुऊर्जेसाठीच्या वाहिन्यांचे परीक्षण महत्वाचे आहे. उद्योग विश्वाला विश्वास वाटेल असे परीक्षण येथे होईल,”

असा विश्वास केंद्रीय ऊर्जामंत्री मनोहरलाल खड्डर यांनी व्यक्त केला.

प्रयोगशाळेमुळे मोठे उद्योग आकर्षित होतील

“प्रादेशिक तपासणी प्रयोगशाळा विद्युत सुरक्षा, संशोधन तसेच उद्योगाला चालना देणारे आंतरराष्ट्रीय केंद्र आहे. विद्युत क्षेत्रातील अनेक बहुराष्ट्रीय कंपन्या पश्चिम क्षेत्रात कार्यरत आहेत. त्यांच्यासाठी ही प्रयोगशाळा उपयुक्त ठरेल. नाशिकमध्ये कुशल मनुष्यबळ आणि दळणवळण सुविधा असल्याने विद्युत क्षेत्रातील मोठे उद्योग इथे आकर्षित होतील आणि नाशिकच्या विकासाला गती मिळेल,” असे प्रतिप्रादन अन्न, नागरी पुरवठा आणि ग्राहक संरक्षणमंत्री छगन भुजबळ यांनी केले.





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- **इन्स्टॉलेशन, मॅटेनन्स व रिपेअर अनुभव :-**
ट्रान्सफॉर्मरचे उत्पादन व वितरण जसे महत्वाचे आहे, तसेच त्याचे योग्य इन्स्टॉलेशन, वेळेवर मॅटेनन्स आणि दुरुस्ती करणे देखील अत्यंत महत्वाचे आहे. माझ्या अनुभवात, योग्य इन्स्टॉलेशन केल्यास ट्रान्सफॉर्मरचे आयुष्य वाढते व ब्रेकडाउन कमी होतात.
- **उत्पादक आणि वापरकर्त्यांसाठी सूचना :-**
उत्पादन करणाऱ्यांनी दर्जेदार कॉइलिंग, इन्सुलेशन व टेस्टिंग करणे अत्यावश्यक आहे.
वापरकर्त्यांनी नियमित लोड टेस्टिंग, तेलाची तपासणी व बिघाड आढळल्यास त्वरित दुरुस्ती करणे आवश्यक आहे.
ओव्हरलोडिंग टाळणे आणि अर्थिंग व्यवस्थित ठेवणे हा सुरक्षिततेचा महत्वाचा भाग आहे.
- **इन्स्टॉलेशन, मॅटेनन्स व रिपेअरमध्ये येणाऱ्या अडचणी :-**
साइटवर जागेचा अभाव
वेळेवर स्पेअर पार्ट्स मिळण्यात होणारा विलंब
खराब हवामानामुळे किंवा शटडाउन मिळण्यात उशीर
झाल्याने कामात अडथळे

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CPRI inaugurates advanced regional testing laboratory in Nashik

The Central Power Research Institute (CPRI), under the Ministry of Power, has inaugurated a regional testing laboratory in Nashik, Maharashtra. The lab is equipped to provide advanced testing services for a range of power and electrical equipment, including transformers, energy meters, smart meters, and transformer oil. The facility is expected to reduce turnaround times for testing and certification, enabling faster procurement and improved quality assurance across the power sector. The laboratory will serve industries in the western region and strengthen CPRI's role in supporting India's power sector growth and self-reliance. According to CPRI, the facility will also contribute to research and development in equipment testing and support rural development by enhancing the quality ecosystem for electrical infrastructure.



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महावितरणचे अध्यक्ष लोकेश चंद्र यांना 'एनर्जी लीडरशिप अवॉर्ड'

महावितरणचे अध्यक्ष तथा व्यवस्थापकीय संचालक मा. लोकेश चंद्र यांना इंग्लंडच्या 'वर्ल्ड रेकॉर्ड ऑफ एक्सलन्स' तर्फे ऊर्जा क्षेत्रातील भरीव कामगिरीबद्दल नुकताच 'एनर्जी लीडरशिप अवॉर्ड २०२५' प्रदान करण्यात आला.

महावितरणच्या कामगिरीत राज्याच्या ऊर्जा राज्यमंत्री मेघना साकोरे बोर्डीकर व अपर मुख्य सचिव (ऊर्जा) आभा शुक्ला यांचे मार्गदर्शन महत्वाचे ठरले.

वर्ल्ड रेकॉर्ड ऑफ एक्सलन्सचे प्रमुख पाब्लो स्टॅन्ले व अध्यक्ष हेन्री आर. यांच्या स्वाक्षरीने मा. लोकेश चंद्र यांना पुरस्कारस्वरूप प्रशस्तीपत्र प्रदान करण्यात आले. 'वर्ल्ड रेकॉर्ड ऑफ एक्सलन्स' ही इंग्लंडमधील जागतिक स्तरावर मान्यताप्राप्त संस्था आहे.

प्रशस्तीपत्रात म्हटले आहे की, ऊर्जा क्षेत्रातील असामान्य नेतृत्व, प्रशासनातील दूरदृष्टी आणि महाराष्ट्राच्या वीजवितरण क्षेत्रातील असामान्य योगदानाबद्दल मा. लोकेश चंद्र यांना एनर्जी लीडरशिप अवॉर्ड २०२५ प्रदान करण्यात येत आहे. कार्यक्षमता, कल्पकता आणि सेवेबद्दलच्या समर्पित वृत्तीमुळे मा. लोकेश चंद्र यांनी अक्षय्य ऊर्जेच्या वापराला चालना देण्यासोबतच लाखो नागरिकांना भरवाशाचा वीज पुरवठा करण्यात प्रमुख भूमिका बजावली आहे.



अक्षय्य ऊर्जेचा वापर करून वीजखरेदी खर्चात मोठी बचत करून वीजदरात कपात करण्याची ऐतिहासिक कामगिरी महावितरणने केली आहे. अशा प्रकारे वीजदरात कपात करणारी महावितरण ही देशातील पहिलीच सार्वजनिक वीज वितरण कंपनी आहे. पुढील पाच वर्षात वीज खरेदीमध्ये अक्षय्य ऊर्जेवर भर दिल्यामुळे महावितरणची सुमारे ६६ हजार कोटी रुपयांची बचत होणार असल्याने पाच वर्षे वीजदरात कपात शक्य झाली आहे.

मुख्यमंत्री सौर कृषी वाहिनी योजना २.० या शेतकऱ्यांना दिवसा वीज पुरवठा करण्यासाठीच्या जगातील सर्वात मोठ्या विकेंद्रित सौर ऊर्जा निर्मिती प्रकल्पाच्या अंमलबजावणीत मा. लोकेश चंद्र यांच्या नेतृत्वात महावितरणने महत्वाची कामगिरी बजावली आहे. राज्यात ठिकठिकाणी सौर ऊर्जा निर्मिती प्रकल्प उभारून त्यावर ४५ लाख कृषी पंप चालविण्याची ही १६,००० मेगावॉट क्षमतेची गेम चेंजर योजना आहे.

प्रधानमंत्री सूर्यघर मोफत वीज योजना या घरगुती ग्राहकांना मोफत वीज मिळवून देणाऱ्या छतावरील सौर ऊर्जा निर्मिती योजनेमध्ये राज्यातील ग्राहकांनी नुकताच एक हजार मेगावॉटचा टप्पा ओलांडला. महाराष्ट्रात या योजनेची अंमलबजावणी महावितरण करत आहे.



इलेक्ट्रिकल कॉन्ट्रॅक्टर्स असोसिएशन ऑफ महाराष्ट्र अहिल्यानगर विभागाच्या अध्यक्ष पदी श्री अर्जुन ससे यांची निवड तर सचिव पदी श्री आबा देवढे यांची निवड



शुक्रवार दि. १२ सप्टेंबर २०२५ रोजी इलेक्ट्रिकल कॉन्ट्रॅक्टर असोसिएशन ऑफ महाराष्ट्र अहिल्यानगर विभागाची २७ वी वार्षिक सभा हॉटेल संजोग येथे उत्साहात पार पडली.

सन २०२५ ते २०२८ सालासाठी झालेल्या निवडणुकीत श्री अर्जुन ससे यांची अध्यक्ष पदी, तर श्री श्रीकांत (आबा) देवढे यांची सचिव पदी व श्री महेश कुलकर्णी, श्री सुबोध भोत, श्री संदीप लोंढे, श्री सागर तलवार यांची संचालक पदी बहुमताने निवड झाली.



कार्यक्रमाची सुरुवात संध्याकाळी ४.३० वाजता झाली. कार्यक्रमाचे ठिकाणी इलेक्ट्रिकल उत्पादनांचे प्रदर्शन भरवण्यात आले होते. त्यावेळी प्रदर्शन स्टॉलचे उद्घाटन करण्यात आले. सदरहू प्रदर्शनास १८ विविध कंपन्यांनी त्यांच्या उत्पादनांचे स्टॉल लावले होते त्यात प्रामुख्याने, एपिकेस्ट पॉवर, श्री गणेश इंडस्ट्रीज, वोल्टेरा इंडस्ट्रीज प्रा. लि., डेल्टा कोअर वायर, त्रिमूर्ती अर्थिंग, प्रासुन मल्टिसर्विसेस, फेविगो इंडस्ट्रीज, एम एम पी इंडस्ट्रीज, प्रथमेश ट्रांसफार्मर, पॉवर इंडस्ट्रीज, युनिटेक एनर्जी सोलुशन्स प्रा. लि., रिन्यू ग्रीन पॉवर, नाशिक केबल, आयडियल इंजिनिअर, केंटर केबल, पॉवरटेक अर्थिंग, श्री इंजीनियरिंग, या कंपन्यांनी सहभाग नोंदविला होता.



वार्षिक सभेची सुरुवात मान्यवरांच्या हस्ते दीप प्रज्वलन करून झाली. सभासदांचे नातेवाईक व इतर दिवंगत व्यक्तींना श्रद्धांजली अर्पण करण्यात आली. सभेचे अध्यक्ष स्थान श्री दत्ता झिंजुर्डे यांनी भूषवले, सदर सभेसाठी महाराष्ट्र राज्य अध्यक्ष श्री उमेश रेखे, महाराष्ट्र राज्य महासचिव श्री देवांग ठाकूर, नाशिक विभागाचे अध्यक्ष श्री सचिन फडतरे, पश्चिम महाराष्ट्र विभागाचे अध्यक्ष श्री बाळासाहेब कदम, जळगाव विभागाचे अध्यक्ष श्री बाबू मेहंदी, पिंपरी चिंचवड विभागाचे अध्यक्ष श्री सयाजी पाटील, धुळे विभागाचे उपाध्यक्ष श्री नितीन अग्रवाल, नगर विभागाचे माजी अध्यक्ष श्री मनोहर शहाणे व नगर विभागाचे सचिव श्री अर्जुन ससे, खजिनदार श्री संदीप डोळस, इत्यादी मान्यवर प्रमुख पाहुणे म्हणून उपस्थित होते, तसेच सदर कार्यक्रमास संपूर्ण महाराष्ट्रातील विविध विभागातून सुमारे ५० पदाधिकारी व नगर विभागाचे सर्व संचालक व सुमारे दोनशे सभासद सभेला उपस्थित होते.

श्री दत्ता झिंजुर्डे यांनी अध्यक्षीय भाषण केले. वरील कार्यक्रमाचे सूत्रसंचालन श्री अमोल कोळपकर यांनी केले. कार्यक्रमाचे आभार प्रदर्शन श्री अभिजित कांडेकर यांनी केले. व स्नेहभोजनाने सभेची सांगता झाली.



ECAM धुळे नंदुरबार विभागाची ११ वी वार्षिक सभा

ECAM धुळे नंदुरबार विभागाची ११ वी वार्षिक सभा खूप खेळीमेळीच्या आणि आनंदाच्या वातावरणात पार पडली, सभेचे नियोजन इलेक्ट्रिकल साहित्याचे स्टॉलचे नियोजन व सुरुची जेवणाची व्यवस्था खूप छान व सुंदर होती जीवन रुचकर होते. नवनिर्वाचित अध्यक्ष श्री किरणजी पेंढारकर, नवनिर्वाचित सचिव श्री दिलीपजी चौधरी, नवनिर्वाचित संचालक श्री भरतजी पाटील, श्री विजयजी माळी, श्री मोहितजी वाघ, श्री. हेमंतजी सोनवणे.

सविस्तर वृत्त पुढील अंकात

India's solar industry, aiming to compete with China, finds strength as US tariffs hit home

Backed by policy support and rising domestic demand, India is rapidly scaling solar output, though reliance on Chinese raw materials and trade hurdles remain challenges.

On the edge of Jaipur, an Indian city known for its colorful bazaars and palaces, a bustling industrial complex is the epicenter of the country's push to compete with China in making components for solar technology.

India, the world's most populous nation, is jockeying for market share against the global leader in solar in part by selling to its own citizens, which helps the country with its other goal: meeting growing domestic demand for electricity.

In the government-subsidized zone that provides tax breaks, solar manufacturer ReNew's sprawling factory makes enough modules to produce 4 gigawatts of power each year - equivalent to the energy needed for approximately 2.5 million Indian homes. The 2-year-old facility that employs nearly 1,000 people serves as a symbol of the solar industry's momentum. India's capacity to build key solar components more than doubled in the fiscal year ending in March.

"When I got this opportunity, I was really happy that I was directly contributing to the clean energy transition," said Monisha, an engineer at ReNew who goes by one name. She said the work has helped her become independent and assist her family with their finances.

The country still faces a steep climb in its efforts to develop solar manufacturing that could one day rival China, which makes more than 80 per cent of all solar components in the world and supplies key materials to Indian manufacturers.

India's solar industry must also

contend with a tougher sell to its biggest foreign customer, the United States. President Donald Trump's tariffs of 50 per cent on Indian goods took effect last month, while Trump's administration and Republican lawmakers have taken other steps to hinder US adoption of solar and other clean energy.

Still, India's clean energy appetite is helping its solar manufacturers deal with the external pressures. Energy analysts said India's domestic demand for solar



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power will likely reduce disruption from tariffs imposed by the US, where about a third of the solar panels produced by India were sold in a recent fiscal year. Proceeds from selling in the lucrative US market have helped Indian solar manufacturers update their supply chains in recent years so they were less dependent on imported Chinese parts and materials.

While Indian solar manufacturers can sell at higher prices abroad, ambitious domestic clean energy targets and domestic demand will help them find buyers within India if sales in the US slow, analysts said.

"This is a huge industry that can absorb these modules and cells that are being produced. We are not necessarily as export dependent as other countries are," said Charith Konda, an energy analyst at the Institute for Energy Economics and Financial Analysis.

India's domestic solar market has already helped Hyderabad-based Vega Solar shift its customer base for off-grid solar modules for RVs, electric fences and other uses to customers in India in the years since the COVID-19 pandemic, said Vinay Keesara, a company director.

"Before the pandemic, 90 per cent of my business was exports and 10 per cent used to be domestic supply, now this has just flipped the other way around," he said.

Government policies, demand push solar industry's growth One of the most carbon-polluting countries, India is making huge efforts to harness the power of the sun and other clean energy sources. The cost of solar power - now half that of new coal-powered plants and India's many sunny days are reasons that experts said installed solar power increased 30 times in the last decade.

Before the US tariffs were announced, researchers with IEEFA and Gurugram, India-based JMK Research wrote that India's demand for solar modules during the next two years could exceed what its manufacturers are selling w. Decause so many are being exported. India has also been importing solar modules from China.

Konda said it was too early to determine how the US tariffs will affect Indian solar manufacturers, but that the impact won't be felt for at least another year because solar component orders are placed well in advance. And uncertainty remains over the fate of all of Trump's tariffs. Despite a US court ruling against Trump's tariffs, they remain in place until at least October while his administration files appeals.



India has nearly 170 gigawatts of renewable energy projects in the pipeline - most of which are solar - and are expected to be completed in the next few years. The country also has an ambitious clean energy target of 500 gigawatts by 2030.

Government policies restricting imports of solar components, incentives for solar manufacturers and mandates for solar power producers to purchase material from government-approved sources gave Indian companies the right signals to ramp up solar manufacturing, said Sanjay Verghese, ReNew's group president for solar manufacturing and solar projects.

"We are in a good phase right now," he said. "We are highly dependent on policy support, but we expect that momentum to be maintained."

Despite supply chain bottlenecks, Indian manufacturing will likely grow India still depends on imports of raw materials as well as finished solar components from China but is making progress on reducing its reliance. Government data showed India imported \$1.3 billion worth of solar cells and modules from China in the first quarter of the year, down by more than one-third from the same period a year earlier. Cells are individual units that convert sunlight into energy, while modules are made up of multiple cells.

Neshwin Rodrigues, an analyst at climate energy think tank Ember, predicted that by 2030, India might be in a position of needing to import only the raw material polysilicon while producing other solar panel ingredients in the country.

According to India's renewable energy ministry, the country's solar module manufacturing capacity more than doubled to 74 gigawatts over the fiscal year ending March 2025. Solar cell manufacturing tripled in the same period, from 9 gigawatts to 25 gigawatts.

India still needs Chinese raw materials because it lacks infrastructure to mine and process them, but government initiatives to produce critical minerals are slowly addressing the nubclom experts said.

Shubhang Parekh of the National Solar Energy Federation of India said the supply chains needed to process the raw materials are still a work in progress, but he's confident the challenges can be overcome.

"The next few years will be critical in determining how far we can go," Parekh said.



KVAh Billing in Maharashtra

KVAh Billing in Maharashtra

KVAh (Kilovolt-Ampere Hour) billing refers to a method of calculating electricity bills based on the total apparent energy (kVAh) consumed, rather than just the active energy (kWh) that performs useful work. This method accounts for both active and reactive energy, incentivizing consumers to improve their power factor to become more energy-efficient and reduce their overall electricity costs.

Understanding the components

- **Active Energy (kWh):** This is the energy used to perform actual work, such as running a motor or heating a device.
- **Reactive Energy (kVarh):** This energy supports the voltage in the

electrical system but does not perform any useful work.

- **Apparent Energy (kVAh):** This is the vector sum of active and reactive energy, representing the total power drawn from the electrical network.

Why KVAh billing is used

- **More Accurate Representation:** KVAh billing provides a more complete picture of total energy consumption, as it includes both active and reactive power, which together determine the load on the electrical system.
- **Promotes Energy Efficiency:** By measuring apparent energy (kVAh), consumers are encouraged to reduce their consumption of reactive power, which reduces the

burden on the electrical grid and lowers network losses.

- **Discourages Inefficiency:** Under the older kWh billing system, reactive power was often penalized or incentivized through a separate Power Factor (PF) mechanism. KVAh billing integrates this concept directly, making consumers responsible for the overall power drawn, not just the useful power.

How it works

- Your electricity bill is calculated based on your kVAh consumption, which includes both the kWh (active energy) and the kVarh (reactive energy) used.
- This encourages consumers to install capacitors or Automatic Power Factor Correction (APFC) panels to improve their power

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factor, thereby reducing their kVAh consumption and lowering their bills.

MSEDCL billing in kVAh is

a system where consumers are charged based on apparent energy (kVAh) and apparent power (kVA), and not just active energy (kWh), to encourage more efficient use of the power network by reducing reactive power consumption. While the standard billing method in India uses kWh, MSEDCL aims to implement kVAh billing, which incorporates both active and reactive energy components. This shift in billing is being phased in for specific categories of consumers, with MERC orders specifying its gradual implementation.

Understanding kVAh Billing

- **Active Power (kW):** The useful power that performs work, measured in kilowatt-hours (kWh).
- **Reactive Power (kVAh):** The power required by inductive loads (like motors) to create magnetic fields, but it does not perform useful work but occupies network capacity.
- **Apparent Power (kVA):** The vector sum of active and reactive power.
- **Apparent Energy (kVAh):** The product of apparent power and time, representing the total energy that flows through the network.

Why is MSEDCL moving to kVAh billing?

- **Efficiency:** KVAh billing encourages consumers to reduce the amount of reactive power they draw from the network.
- **Simplified Tariff:** It eliminates the need for separate incentives and penalties for power factor, as it's built into the kVAh charge.
- **Reduced Network Strain:** By promoting better power factor management, it improves the

overall capacity and efficiency of the electricity distribution system.

Implementation and Status MERC

- **Directives:** The Maharashtra Electricity Regulatory Commission (MERC) has directed the implementation of kVAh billing.
- **Gradual Rollout:** The implementation is being done in stages for different consumer categories.
- **Current Status:** As of early 2020, the plan was to implement kVAh billing for all High Tension (HT) consumers and Low Tension (LT) consumers with a load above 20 kW, according to a 2020 presentation.

What to do if you have questions

- **Customer Care:** For specific questions about your bill and the kVAh billing process, you can contact the MSEDCL customer care center at **1912** or **1800-233-3435**.

In Maharashtra, kVAh billing applies to all High Tension (HT) consumers and Low Tension (LT) non-residential consumers with a contract demand above 20 kW, following a MahaVitaran (MSEDCL) order. This billing method calculates energy charges based on apparent energy (kVAh), which includes both active (kWh) and reactive (kVAh) power, unlike the traditional kWh system. The goal is to improve power factor, reduce energy losses, and encourage energy efficiency by penalizing low power factors. Consumers can lower their bills by installing or improving Automatic Power Factor Correction (APFC) systems.

Who is affected?

HT consumers

- : Already on kVAh billing.

LT consumers

- **Non-Residential:** All LT consumers with a contract demand

over 20 kW.

- **Residential:** Remain on kWh billing, as kVAh billing is not applicable.

How kVAh Billing Works

- **Apparent Energy (kVAh):** This system measures the total "apparent" energy consumed, which is a combination of:
 - **Active Energy (kWh) :** Energy used to perform actual work (e.g., light, heat, motion).
 - **Reactive Energy (kVAh) :** Energy used to create and support electromagnetic fields in equipment like motors and ACs, but does not do useful work.
- **Power Factor :** The kVAh billing system penalizes a low power factor, which is the ratio of active power (kW) to apparent power (kVA). A low power factor means more wasted energy is being drawn from the grid.

Why the Change?

- **Improved Power Factor :** To incentivize consumers to maintain a high power factor near unity, thereby improving power quality.
- **Energy Efficiency :** To encourage more efficient use of electricity and reduce network losses by reducing the amount of reactive power drawn by consumers.
- **Reduced Grid Pollution:** To help check electrical grid pollution and harmonic generation.

How to Reduce Your Bill

- **Install or Maintain APFC Systems :** A well-functioning Automatic Power Factor Correction (APFC) system is crucial to maintain a high power factor and avoid penalties.
- **Monitor Consumption :** Track your power factor and energy consumption data to understand how to use electricity more efficiently.



FLIR Unveils C8 Next-Generation Compact Thermal Imaging Camera

Flir, a Teledyne Technologies company, has launched the C8 thermal imaging camera, a new device set to enhance compact thermal diagnostics with high-clarity, rapid results. Improvements to the new-generation C8 include enhanced image quality, higher accuracy, improved sensitivity, and the addition of advanced reporting templates within Flir Ignite Pro.

The Flir C8 is a rugged, easy-to-use form factor that puts powerful, high-resolution thermography into the hands of users, ensuring accurate, efficient, standardized inspections. In addition, technicians can integrate FLIR Ignite Pro cloud connectivity and newly devised advanced reporting templates that not only streamline workflows and save time but also support easy collaboration.

Get a Clear View

New capabilities for the Flir C8 include 320 x 240 thermal resolution and 35° horizontal field of view to increase the number of pixels on the target and enhance image clarity. In combination with Flir's patented MSX® detail enhancement technology, sharp thermal images become the norm, in turn supporting faster fault and anomaly detection for more accurate diagnostics.

Reporting for Duty

Offering an easy way to document and share findings with others, C8 users can cut their reporting time by 20-40% through integration with Flir Ignite Pro. This secure cloud storage and reporting software for professional thermographers means technicians can automatically upload inspection images to the cloud for processing and analysis.

Connected workflows through automatic cloud uploads and purpose-built report templates speed documentation and sharing while eliminating manual steps and any potential for data loss. Users can subsequently focus on problem solving rather than paperwork.

Compact and Rugged

A durable, easy-to-handle form factor meets industrial standards for drop (2 m, 6ft 7") and ingress protection (IP54), ensuring the C8 is ready for demanding operating environments. Applications include:

- Electrical and mechanical maintenance activities:
- Building diagnostics:
- Vehicle inspection:





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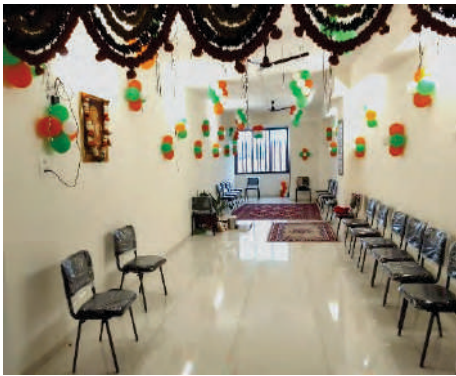
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पिंपरी चिंचवड विभागाची वार्षिक सभा



इकॅम पिंपरी चिंचवड विभागाची पहिली वार्षिक सभा उत्साहाने पार पडली सभेचे आयोजन उत्तम होते. स्नेहभोजन उत्तम. नवनिर्वाचित चेअरमन श्री सयाजी पाटील, सचिव श्री रमेश भालेराव आणि सर्व संचालक यांचे अभिनंदन व पुढील यशस्वी वाटचालीस खूप खूप शुभेच्छा!

नाशिक येथे इकॅमचे नवे कार्यालय



नाशिक रिजनच्या नूतन कार्यालयाच्या उद्घाटनाचा कार्यक्रम अत्यंत उत्साहात व थाटामाटात साजरा करण्यात आला. या कार्यक्रमास CE MSEDCL, SE MSEDCL, EE MSEDCL, EE PWD, EE Corporation, AEI, VgoM MHADA चे अध्यक्ष श्री. रंजन ठाकरे, श्री. सुधाकर बडगुजर, आपले अध्यक्ष श्री. उमेश रेखे, सचिव श्री. देवांग ठाकरे व इतर मान्यवर सदस्य उपस्थित होते. काही ज्येष्ठ सदस्यांनीही आपल्या शुभाशीर्वादाने कार्यक्रमाची शोभा वाढवली.

नाशिक विभागाची वार्षिक सभा

इकॅम नाशिक विभागाची ३५ वी वार्षिक सभा आनंदाने उत्साहाने आणि खिळीमिळीने पार पडली. सभेचे नियोजन प्रदर्शन मानसन्मान आणि स्नेहभोजन सर्व काही उत्तम व्यवस्था होती.

नवनिर्वाचित निवडून आलेले अध्यक्ष श्री. समाधान पाटील, सचिव श्री. संदीप शिंदे आणि सर्व संचालक यांचे हार्दिक अभिनंदन आणि पुढील वाटचालीस खूप खूप शुभेच्छा. संपूर्ण वृत्त आयईसिटीच्या पुढील अंकात.

इमारतींचे होणार 'इलेक्ट्रिक ऑडिट'

दहिसर पूर्वेकडील एस. व्ही. रोडवरील शांतीनगरमधील एका २३ मजली एसआरए इमारतीला रविवारी भीषण आग लागून दोन जणांचा मृत्यू झाला. ही आग शॉर्टसर्किटमुळे लागल्याचा अंदाज वर्तविण्यात आला आहे. मुंबईतील इमारतींना लागणारी आग आणि त्यामागील शॉर्टसर्किटचे कारण पाहता मुंबईतील इमारतींचे 'इलेक्ट्रिक ऑडिट' करण्याचा प्रस्ताव महापालिका तयार करत आहे. हा प्रस्ताव लवकरच राज्य सरकारकडे पाठवला जाणार आहे.

मुंबईत आग लागण्याची अनेक कारणे समोर येतात. सदोष वायरिंग, निष्काळजीने धूम्रपान करणे किंवा ते विझवताना पुरेशी काळजी न घेणे, सिलिंडर स्फोट, स्टोव्हचा भडका या बाबी आगी लागण्यासाठी कारणीभूत ठरतात. अनधिकृतपणे विद्युत पुरवठा घेणे आणि त्यामुळे वीजवापराचा भार येत असल्याचेही दिसून आले आहे.

अनेक ठिकाणी विद्युत वायरिंगचे जाळे मोठ्या प्रमाणात पसरलेलेही दिसते. त्याकडे संबंधित विभाग किंवा सोसायटी तसेच, झोपडपट्टीवासीही दुर्लक्ष करतात. आगीच्या घटनांमधील बहुतांश घटना या शॉर्टसर्किटमुळे घडत असल्याचे निदर्शनास आले आहे. या घटनांचे प्रमाण ६० टक्क्यांहून अधिक आहे. मुंबईतील इमारतींना लागणाऱ्या आगीच्या घटनांमध्ये हेच प्रमुख कारण ठरत आहे. त्यामुळे मुंबई महापालिका इलेक्ट्रिक ऑडिट करण्याचा प्रस्ताव तयार करत असल्याची माहिती महापालिका अतिरिक्त आयुक्त अमित सैनी यांनी दिली.

नियम कठोर होणार

अग्निशमन यंत्रणा कार्यरत नसल्याचे अग्निशमन दलाला निदर्शनास आल्यास १२० दिवसांत यंत्रणा कार्यरत करण्याचा नियम आहे. मात्र या नियमाकडे अनेक जण दुर्लक्ष करतात. त्यानंतरही पालन न केल्यास वीजपुरवठा खंडित करणे, पाणीकपात करण्याचा अग्निशमन दलाचा नियम आहे. हा नियमही कठोर केला जाणार आहे.

गेल्या वर्षी पाच हजार ३०१ आगीच्या दुर्घटना

मुंबईत गेल्या दोन वर्षांत आगीच्या घटनांमध्ये काही प्रमाणात वाढ झाली आहे. सन २०२३मध्ये आगीच्या पाच हजार ७४ दुर्घटना घडल्या होत्या. तर, सन २०२४ मध्ये पाच हजार ३०१ दुर्घटना घडल्या. यामध्ये बहुतांश घटना शॉर्टसर्किटमुळे घडल्याचे समोर आले आहे.

मुंबई महापालिका राज्य सरकारकडे प्रस्ताव सादर करणार वैशिष्ट्ये -

- इमारतींच्या विद्युत पुरवठ्याचे असणारे जाळे, वायरिंग कशा प्रकारे असावी, त्याची नियमित तपासणी कशी करावी, याचा ऑडिटमध्ये समावेश
- मुंबईतील नेमक्या कोणत्या इमारतींचे ऑडिट घ्यावे आणि टप्प्याटप्प्यांत कसे करावे, याचे नियोजन
- ऑडिट झाल्यास जुन्या वायरिंगचे जाळे बदलण्यासही मदत होईल आणि कोणताही धोका राहणार नाही



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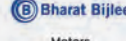
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