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आता वेध कौटुंबिक सहलीचे

नमस्कार

२०२३ या आर्थिक वर्षास निरोप देत असताना २०२४ या वर्षाचे स्वागत आणि आपणा सर्वांना या आर्थिक वर्षाच्या खूप खूप शुभेच्छा. येणाऱ्या वर्षात आपल्याला व्यवसायात उत्तुंग यश प्राप्त व्हावे ही सदिच्छा!

मित्रांनो आपण शताब्दी वर्ष साजरे करीत असताना आपला दुसरा कार्यक्रम म्हणजे ECAMEX 24 हे भव्य दिव्य प्रदर्शन उत्तम यश देऊन गेले. ही बाब आपल्यासाठी अत्यंत आनंदाची, गौरवाची, अभिमानाची आहे. संघटनेच्या इतिहासात सुवर्ण अक्षराने लिहिला जाईल असा हा गौरवपूर्ण आणि अत्यंत यशस्वीपणे साजरे करण्यात आपण यशस्वी झालो आहोत. यामध्ये सर्वात मुख्य घटक म्हणजे यामध्ये सहभागी झालेला आपला प्रत्येक स्टॉल धारक यांनी व्यक्त केलेले आनंद आणि समाधान हे आपल्या दृष्टीने अत्यंत समाधानकारक बाब आहे. ही आपल्या यशाची पावती आहे. अनेक स्टॉल धारकांनी आपण हा

उपक्रम सतत राबवावा, आम्ही आपल्या बरोबर असणार आहोत. या सर्वांच्या आग्रहास्तव आणि सर्वांची साथ यामुळे ECAMEX २६, ८, ९, १०, ११ जानेवारी २०२६ असे चार दिवसाचे भव्य प्रदर्शन जाहीर करू शकलो.

आपण जाहीर केलेला शताब्दी वर्षातील तिसरा महत्वाचा कार्यक्रम सभासदांच्या कुटुंबियांच्यासाठी आपण कौटुंबिक सहल आयोजित करण्याचा मानस आहे. लवकरच त्याबद्दल सर्व सभासद बंधू भगिनींशी संघटनेच्या विभागीय तसेच मुख्य कार्यालयातून संपर्क साधण्यात येईल.

मित्रांनो, गेल्या महिन्यात आपण महावितरणकडून निघालेल्या विविध निविदा आणि त्याला असणाऱ्या जाचक अटी व शर्ती या बाबत लढा दिला, काही जाचक अटी आणि शर्ती शिथिल किंवा त्यामध्ये बदल करून घेण्यासाठी यशस्वी झालो आहोत. हे आपले संघटनात्मक बळ त्याठिकाणी दिसून आले. शासकीय पातळीवर तसेच सभासदांना येणाऱ्या वेगवेगळ्या अडचणी सोडविणे यासाठीही सतत आपण प्रयत्नशील राहत असतो.

शताब्दी वर्षाच्या निमित्त आपण विद्युत बचत आणि सुरक्षा याचा समावेश पाठपुस्तकात करण्यासाठी आग्रही आहोत. यासाठी आपण प्रयत्न करण्यास सुरुवात केली आहे. आपले देशाचे पंतप्रधान, शिक्षण मंत्री, केंद्रीय ऊर्जामंत्री, राज्याचे मुख्यमंत्री, शिक्षण मंत्री, ऊर्जा मंत्री यांना आपली निवेदने सादर केलेली आहेत. तसेच त्याची एक कॉपी आपण आपल्या ECAMEX 24 या प्रदर्शनासाठी आलेले प्रमुख पाहुणे मंत्रिमहोदय श्री. कपिल मोरेश्वर पाटील साहेब यांनाही देण्यात आली आहे. या आपल्या प्रयत्नामुळे आपण निश्चित पणे विद्युत अपघात मुक्त भारत घडविण्यासाठी हातभार लावणार आहे. आपल्या सर्वांच्या सहकार्याने आपण हे शक्य करू याबाबत तिळमात्र शंका वाटत नाही.

पुनःच आपणां सर्वांना २०२४ या आर्थिक वर्षाच्या मनभरून शुभेच्छा व्यक्त करतो. आपला यावर्षीचा व्यवसाय दुगुणा व्हावा ही ईश्वर चरणी प्रार्थना.....!

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इलेक्ट्रिकल कॉन्ट्रॅक्टर्स असोसिएशन ऑफ महाराष्ट्र (इकॅम) च्या विद्यमाने ECAMEX 24 या भव्य प्रदर्शनाचे उद्घाटन केंद्रीय राज्यमंत्री, पंचायतराज, भारत सरकार, श्री कपिल मोरेश्वर पाटील यांच्या शुभहस्ते दिनांक २७ फेब्रुवारी २०२४ रोजी बॉम्बे एक्झीबिशन सेंटर NESCO, गोरगाव, मुंबई येथे संपन्न झाले. सदर प्रदर्शन हे विनामूल्य खुले करण्यात आले होते. उद्घाटनप्रसंगी व्यासपीठावर मा. ना. कपिल पाटील, मा. खासदार श्री गोपाल शेट्टी, मे. आर आर केबलचे श्री राजेश काबरा, मे पॉलिक्वॅ इंडिया लि. चे सीईओ श्री. भूषण सहानी, मे ग्रेट व्हाईट ग्लोबल प्रा. लि. चे जनरल मॅनेजर श्री मिलिंद धोंडगे यांच्यासह इकॅम महासमितीचे अध्यक्ष श्री वामन भुरे, महासचिव श्री देवांग ठाकूर, उपाध्यक्ष श्री. उमेश रेखे, खजिनदार श्री. रावसाहेब रकिबे आणि ECAMEX 24 चे चेअरमन श्री मारुती माळी उपस्थित होते. या प्रसंगी इकॅम प्रकाशित आय ई. सी. टी. मासिक तसेच आर्टिफिशियल इंटेलिजन्स इलेक्ट्रिसिटी या पुस्तकाचे अनावरण मान्यवरांनी केले. या प्रसंगी केंद्रीय

राज्यमंत्री श्री कपिल पाटील, खासदार श्री. गोपालजी शेट्टी तसेच इतर मान्यवरांनी आपल्या शुभेच्छा ECAMEX 24 या प्रदर्शनास दिल्या, तसेच आपले मनोगत व्यक्त केले. आणि इकॅमच्या पुढील होणाऱ्या कार्यक्रमांस यशस्वी करण्यासाठी सहकार्य करण्याचे आश्वासन दिले. या प्रसंगी ECAMEX 24 हे प्रदर्शन यशस्वी करण्यासाठी ज्यांनी अथक प्रयत्न केले ते ECAMEX 24 चे चेअरमन श्री मारुती माळी तसेच सहचेअरमन श्री अमेय काण्णव व श्री अमोल कोळपकर यांचा सन्मान करण्यात आला. या कार्यक्रमाचे आभारप्रदर्शन महासचिव श्री. देवांग ठाकूर यांनी केले. या तीन दिवसात वेगवेगळ्या विषयांवर सेमिनार घेण्यात आले. आईसीटीचे संपादक श्री. सतीश सिन्नरकर हे या सेमिनार योजनेचे अध्यक्ष होते. त्यांनी संबंधित तज्ज्ञ लोकांना आमंत्रित करून पाच सेमिनार व दोन चर्चासत्रे यशस्वीपणे सादर केली. या सेमिनारला लोकांची उपस्थिती चांगली होती. तीन दिवसीय प्रदर्शनात संपूर्ण महाराष्ट्रातून आलेल्या ६७०० व्यक्तींनी या प्रदर्शनास भेट दिली. यामध्ये ठेकेदार, विद्यार्थी तसेच विद्युत क्षेत्रातील नामवंत व्यक्तींचा समावेश होता.

विद्युत क्षेत्रातील विविध विभागातील सुमारे १२० स्टॉल्सचा अंतर्भाव असणारे हे प्रदर्शन अतिशय भव्य होते. प्रदर्शनातील सर्व प्रदर्शकांना स्मृतीचिन्ह, इकॅमची दैनंदिनी, शताब्दी महोत्सव स्मरणिका आणि प्रदर्शनाची निर्देशिका देऊन त्यांचे प्रदर्शनात सहभागी झाल्याबद्दल आभार मानण्यात आले. प्रदर्शनाचा समारोप समारंभ इकॅमचे अध्यक्ष श्री. वामन भुरे यांच्या हस्ते झाला. सदर कार्यक्रम यशस्वी करण्यासाठी झटणाऱ्या सर्व विभागीय चेअरमन तसेच सन्माननीय संचालकांचे अध्यक्षीय वतीने आभार मानण्यात आले. समारोपाचा कार्यक्रम दिमाखात साजरा केला गेला. २०२६ साली असेच प्रदर्शन करण्यात येईल असे सूतोवाच करण्यात आले. सदर कार्यक्रम यशस्वीपणे पार पाडण्यास ज्या व्यक्तींनी सहकार्य केले व सदर कार्यक्रमास ज्या ज्या सभासदांनी उत्स्फूर्तपणे उपस्थिती दर्शवली व सदर भव्य दिव्य सोहळा पार पाडण्यास हातभार लावला, त्यांचे मनापासून आभार.

आपण शताब्दी महोत्सवात वर्षभर विविध विभागांमध्ये कार्यक्रमांचे नियोजन करणार आहोत. त्यात विविध सेमिनार, कारखान्यांना भेटी तसेच कौटुंबिक कार्यक्रमांचे आयोजन करण्याचा मानस आहे. आपण आपला सक्रीय सहभाग त्यात द्यावा व सदर कार्यक्रम पूर्णत्वास नेण्यासाठी हातभार लावावा, असे आवाहन मी करीत आहे.

सर्वांना होळी पौर्णिमेच्या हार्दिक शुभेच्छा !



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Please keep IECT in your media plan. Should you require any additional information or assistance, please feel free to reach out to us.

Once again, thank you for taking the time to visit our stall. We look forward to the possibility of collaborating with you in the future.

Kindly go through the detailed report of Ecamex in this issue.

Satish Sinnarkar

Editor, IECT

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INDIAN ELECTRICAL CONTRACTOR & TRADER



President

Waman Bhure - +91 9822654276

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

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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ECAMEX24 FOR ELECTRICAL SAFETY

Venue: Bombay Exhibition Centre, Goregaon

Introduction: A special event called ECAMEX24 FOR ELECTRICAL SAFETY was held as a part of the 100th-anniversary celebrations of the Electrical Contractors Association of Maharashtra (ECAM). The event, which was held at the esteemed Bombay Exhibition Centre in Goregaon, was designed to draw attention to how important electrical safety is in the contemporary world.

Opening Ceremony: Chief Guests : State Minister for Panchayat Raj, Govt of India, Shri Kapil Patil, Member of Parliament Shri Gopal Shetty (Sansad Ratna), MLA Aashif Shaik.



The inaugural ceremony, graced by Mr. Kapil Patil, at the main gate of the hall, started the proceedings and set the tone of importance and urgency towards electrical safety, began with tremendous enthusiasm at 11:30am. Distinguished guests present during the opening ceremony included Mr Rajesh Kabra of R R Global, Mr Bhushan Sawhney of Polycab India and Mr Milind Ghondge of Great White Global, all the three companies being the main sponsors for Ecamax. Shri Waman Bhure, President, Ecam, Shri Devang Thakur, GS, Ecam and other office bearers of Ecamax.

A speech given by Mr. Kapil Patil, chief guest.

In the realm of exhibitions, it's typically companies that come together to showcase their products. However, this event stands out as it was made possible by the concerted efforts of the contractors' association. It's no small feat to bring various companies under one roof, and for that, I am truly grateful. The anxiety that companies

may have felt about their products and sales was alleviated by the presence of the contractor association. Their introduction of a product designed to prevent fires in households proved to be both innovative and promising. It's a testament to the association's century-long commitment to serving the people, and I am honoured to be a part of this event. Few associations can boast a century of existence, let alone one as strong and dedicated as Ecamax. The fact that we continue to serve the people with unwavering dedication speaks volumes about our resolve. I take immense pride in having been associated with this noble endeavour in the past, and I am overwhelmed by the opportunity to contribute once again. With the support of esteemed companies like RR Kabel, Polycab India and Great White, any challenges we may face are easily surmountable. This collaboration serves as a shining example of collective strength and unity.

It's imperative that we raise awareness about the importance of using electrical products safely, especially in residential settings. I commend the efforts of Ecamax in promoting this awareness through associations like ours. Additionally, the provision of solar energy products in



villages like Palli in J&K and Vaape is a commendable initiative. It underscores the importance of embracing renewable energy sources for a sustainable future.

In conclusion, I urge everyone to prioritize safety and awareness regarding electrical products. Let us continue to work together towards a brighter, safer future for all. Thank you.

A speech given by Shri Gopal Shetty, Guest of Honour,

Ladies and gentlemen, reflecting back to 2014, when approximately 18,500 villages across our nation were still grappling with the darkness of being without electricity, we acknowledge the transformative journey we've undertaken since then. It's indeed a moment to express





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gratitude towards our esteemed Prime Minister of India, Shri Narendra Modi Ji whose guidance and support have propelled us forward. Today, we stand in surplus. It's a feat we scarcely imagined achieving. As we continue on this trajectory, the integration of AI technologies promises to accelerate

our progress even further. The prospect of providing electricity at more affordable rates and with greater efficiency is within our grasp. This ongoing process is a testament to the collaborative efforts of all involved, and we extend our heartfelt thanks to every individual and entity contributing to this cause. "विद्युतशक्ती सिवाय कोणी जगूच शकत नाही". The significance of electricity in our lives cannot be overstated. It's a fundamental pillar of modern society, driving progress and enabling countless opportunities. Waman Ji's advocacy for including a dedicated chapter on electricity in school textbooks is



commendable, as it underscores the importance of fostering awareness and understanding among future generations. Recently parliament has passed a resolution that Bhagwad Geeta will be taught in all schools as per my suggestion and continued efforts. Furthermore, I am deeply grateful to all who have supported and guided me along this journey. In line with our national ethos, I echo the sentiment that the



singing of the national anthem should be a unifying ritual for all citizens of India. It serves as a reminder of our shared identity and aspirations. Our Prime Minister's vision of financial stability for our nation underscores the critical role electricity plays in our economy. As we strive towards this goal, it's imperative that we collaborate and



support each other's growth. It's essential to acknowledge and address the challenges faced by contractors and traders in this sector, ensuring a conducive environment for their success. Equally important is the promotion of safety awareness. Educating individuals on fire and electrical safety measures is paramount to prevent accidents and ensure the well-being of our communities.

In conclusion, let us embrace the momentum of progress and unity. Together, let us illuminate every corner of our nation, empowering lives and fulfilling dreams. Thank you.

Program Highlights: Introduction and Greetings:

Following the opening ceremony, there was an introductory session where the guests were introduced and greetings were exchanged.

Felicitations: A segment dedicated to felicitating individuals who have made

significant contributions to the field of electrical safety. Following the ceremony, Waman Bhure, the President of ECAM, made the statement, "LIFE IS MORE PRECIOUS." The emphasis ought to be on including a chapter on electrical safety and how to handle those situations in school textbooks.



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- Internal Arc up to IEC 60848: 65 kA / 100 kA
- Range of Design: 2B / 3B / 4B
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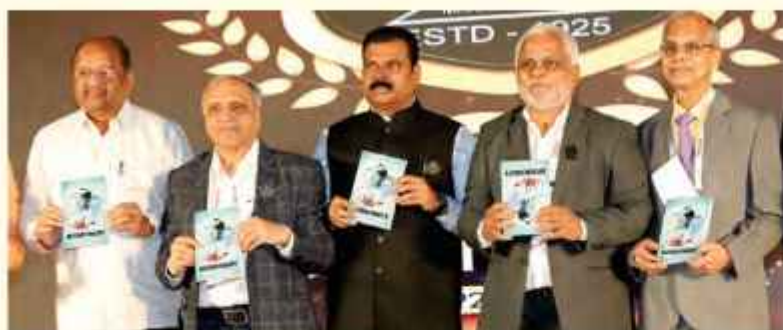
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ECAMEX24 FOR ELECTRICAL SAFETY

Book Launch: The unveiling of the book titled "AI @Electricity" authored by Ajit Kulkarni. The book was published by Shri Satish Sinnarkar on behalf of ECAM.



Later an interview was conducted regarding Ajit Kulkarni's book, AI@ELECTRICITY. Journalist Chirag Khadka asked how an AI-enabled smart street light would operate in India, and the response was that it is feasible, though the process will undoubtedly be expensive. The street light will also feature a camera, an SOS button, a wireless charging port, Wi-Fi, a touch panel, and a host of other features.

A special issue of Indian electrical contractor &



Trader magazine (IECT) of ECAM was launched. The launch of the Indian Electrical Contractor & Trader magazine by ECAM heralds a new era in the electrical industry. IECT is being edited and published by Shri Satish Sinnarkar since last 25 years. With insightful articles, industry trends, and expert analysis, it serves as a valuable resource for professionals in the electrical contracting and trading sectors. This magazine aims to foster knowledge exchange, promote innovation, and facilitate networking among stakeholders. ECAM's dedication to excellence ensures that this publication will become an

indispensable tool for staying abreast of developments in India's vibrant electrical landscape. "ECAM's Indian Electrical Contractor & Trader magazine has been a cornerstone of the industry for 75 years, offering invaluable insights and updates. Originating in 1957, it embarked on a journey to become a cornerstone of the electrical industry. Since its inaugural the magazine has been a trusted source of insights, innovations, and updates for professionals in the electrical contracting, trading, manufacturing sector in India.

Shri Waman Bhure, president of Ecam, appealed the guests to co operate in the future progress of Ecam. He thanked the guests on behalf of Ecam and all the stall holders of Ecamex. The representatives of the main sponsors were felicitated by the Ecam directors.

After the conclusion of the inaugural ceremony, the guests visited the stalls and expressed their happiness.

The energetic commencement of the event on the second day, focusing on the pivotal topic of solar provision and its associated benefits.

The launch of the exhibitor's directory book added an air of anticipation, with esteemed members of ECAM such as Shri Waman Bhure, Shri Devang Thakur, Maruti Mali, Umesh Rekhe, Raaosaheb Rakibe, Amey Kannav, Amol Kholpakar, and Satish Sinnarkar gracing the occasion. Additionally, students from IIT College of Lower Parel were also invited.

The directory was prepared by Campaign Masters, giving all the information of every stall holder of Ecamex. It was given to every stall holder and was also kept for sale on the counter.





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Highlights : Safety Pavillion of ECAMEX24

Shri Satish Sinnarkar, Chairman, Safety Pavillion, had organised seven events, including five seminars and two panel discussions. The time table of all the three days was displayed in the exhibition hall. Every event was attended by ecam members, visitors and stall holders. Every event started with a presentation by the sponsors.

First day seminar session was hosted by Anil Mahajan, Chairman, Pune region, Ecam.

PRESENTATION BY RR KABEL LTD: RR Kabel is known for its commitment to quality and innovation, offering products that adhere to international standards and incorporate the latest technological advancements. The company has a strong focus on research and development to continuously improve its product offerings and stay ahead in the competitive market. With a widespread distribution network and a strong presence both in domestic and international markets, RR Kabel has established itself as a trusted brand among consumers and businesses alike. The company's dedication to customer satisfaction, along with its emphasis on quality, reliability, and sustainability, has contributed to its success and growth over the years.



SEMINAR 1: Role of Wires and Cables in Safety:



Focusing on the crucial role of wires and cables in ensuring electrical safety By Mr Naitik Punamiya.

He delved into various aspects, highlighting best practices and technological advancements in this domain, he discussed the difference between good and poor wires, as well as how to recognize them. Expensive wires are beneficial because if the fire breaks, there will be only 25% smoke, however with defective wires, the smoke would climb to 75%, which is not good since we may not be able

to see what is occurring due to the smoke. In addition to discussing wire quality, the seminar also emphasized the importance of proper installation techniques and regular maintenance schedules to mitigate safety risks. Mr Naitik underscored the significance of using certified and compliant wires and cables to prevent electrical hazards such as short circuits, fires, and electric shocks. He elaborated on the role of insulation materials in enhancing wire durability and reducing the likelihood of insulation breakdowns. Furthermore, the seminar addressed emerging challenges such as counterfeit products and the need for stringent regulatory frameworks to uphold safety standards in the electrical industry.

Overall, the seminar served as a comprehensive platform for industry stakeholders to collaborate, share insights, and reinforce their commitment to prioritizing safety in electrical installations.



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Seminar 2 : PRESENTATION BY POLYCAB INDIA:

A presentation by Polycab India, conducted by Mr. Jatin Panchal and Ms. Minal Khandalkar. The session offered insights into innovative solutions and products offered by Polycab India to enhance electrical safety standards. Polycab Company informed us about their company and the branches they had established in many cities. It was an introductory session about their firm, and they also advised us to come to their booth and see a visual presentation. During the presentation, Mr. Jatin Panchal and Ms. Minal Khandalkar elaborated on Polycab India's commitment to technological advancement and product excellence. They showcased a range of cutting-edge solutions designed to address various electrical infrastructure challenges, emphasizing the importance of reliability and durability in electrical components. Additionally, they highlighted Polycab's extensive network of branches across multiple cities, showcasing the company's commitment to accessibility and customer support. The session provided attendees with valuable insights into Polycab's corporate ethos, product portfolio, and vision for the future of electrical safety. Attendees were encouraged to visit Polycab's booth for a firsthand experience of their innovative offerings and to engage further with their representatives. Overall, the presentation served as an informative introduction to Polycab India's role as a leader in the electrical industry, setting the stage for fruitful interactions and collaborations.



SEMINAR 2: Safety Precautions in Metro, Airports and Heavy Industries:



Seminar 2 of the day focused on safety precautions specific to metro, airports and heavy industries. The seminar was done by MR CHITTARANJAN TRIPATHY (MEP expert). He shared his experiences and best practices, emphasizing the critical need for robust safety protocols in such environments. He taught us about safety considerations on the airports, metro and heavy industry sites. The seminar delved into the intricate safety measures required to navigate the unique challenges posed by metro, airports and heavy industries. He elucidated the importance of rigorous safety training programs tailored to the specific hazards inherent in these environments, including high-volume pedestrian traffic, heavy machinery operations, and hazardous materials handling. Attendees gained insights into the implementation of comprehensive safety protocols, covering areas such as emergency response procedures, hazard identification, personal protective equipment usage, and adherence to regulatory standards. Case studies and real-life examples were shared to illustrate the practical application of safety measures in mitigating risks and ensuring the well-being of personnel and infrastructure. Moreover, the seminar fostered a collaborative atmosphere, enabling participants to exchange ideas, learn from each other's experiences, and collectively strive towards achieving the highest standards of safety excellence in metro airports and heavy industries.

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Sponsor Presentation By L & T SUFIN :

Mr Madhusudan Pawar, serving as the conductor of the presentation, navigated attendees through the intricate landscape of supply chain dynamics and strategies for expansion beyond local territories. He shed light on the Sufin Stance, intertwining supply chain management with financial prudence. Notably, the presentation by L&T SUFIN App, spearheaded by Madhusundan Pawar, introduced innovative concepts like "Buy Now, Pay Later," offering attendees new avenues for business transactions. Mr Devarshi Desai and Ashish brought a fresh perspective to the discussions. Akshay Jain, representing L&T Sufin, contributed his insights to the seminar, enriching the discussion with his industry expertise.



Day 2 : SEMINAR 1 Solar Provision and Benefits



Further enlightening the audience, Mr Gaurav Wani delved into the realm of solar provisions, sharing insights from his company ventures. He provided detailed information on solar off-grid and on-grid systems, elucidating their benefits and practical applications. Sachin Fartade, the Chairman of ECAM (Nashik), added depth to the seminar by providing comprehensive introductions of all the esteemed speaker, fostering a sense of camaraderie and collaboration among attendees.

The seminar served as a melting pot of ideas and expertise, with Mr Gaurav Wani contributing valuable insights into the evolving landscape of renewable energy and supply chain management. Attendees left the session enriched with knowledge and armed with innovative strategies to navigate the challenges and seize the opportunities in the dynamic industries discussed. As the first event of the day, Seminar 1 set a robust foundation for the subsequent sessions, igniting enthusiasm and anticipation for the day's proceedings.

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Day 2 : Seminar 2 : SPONSOR PRESENTATION by EFFCIENERGI

By Mr. Rajen Mehta, the MD of SEQCR, a product of Effcienergi.

Through an engaging PowerPoint presentation, Mr. Mehta elaborated on the theme of making electrical audits profitable, offering valuable insights and strategies to optimize auditing processes. Attendees were encouraged to



visit Stall C5 for further inquiries and discussions with the SEQCR team.

A significant addition to the discussion was the introduction of the new National Core Standard regulations, providing attendees with up-to-date information on regulatory frameworks shaping the electrical industry landscape.

Day 2 SEMINAR 2 : New Additions in NEC Standard

The Seminar commenced with the enthusiastic presence of college students from IIT Lower Parel, adding a vibrant energy to the session—the session's keynote Speaker Mr. Gopa Kumar captivated the audience with his expertise on the topic of earthing. He delved into the intricacies of earth conductors and highlighted the critical importance of proper earthing practices in preventing electrical fires and ensuring safety.

Also, from the National Safety Council Dr Lalit Gabhane, director general was present.

Following the presentations, an interactive question-and-answer round provided attendees with the opportunity to engage directly with the speaker, fostering a dynamic exchange of ideas and experiences. The session concluded on a positive note, leaving attendees with newfound knowledge and actionable strategies to enhance their approach to electrical audits and safety practices.

Overall, Seminar 2 proved to be an enlightening and enriching experience for participants, offering valuable perspectives on profitability in electrical audits, regulatory compliance, and the importance of effective earthing practices. The engagement of college students from IIT Lower Parel, along with the expertise shared by industry leaders like Mr. Rajen Mehta and Gopa Kumar ji, contributed to a comprehensive exploration of key topics shaping the future of the electrical industry.



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Day 2 : Seminar 3 : SPONSOR PRESENTATION by GREAT WHITE GLOBAL

Mr Girish Pillay of Great White Global Co. initiated their presentation with a comprehensive PowerPoint demonstration of their app. The presentation highlighted the app's features, emphasizing its role in fire prevention and safety management in high-rise buildings. They showcased the user interface, integrated functionality with existing fire safety



systems, and illustrated real-life scenarios to demonstrate its effectiveness. The presentation aimed to educate the audience on the app's benefits for building owners, occupants, and emergency responders, providing technical specifications and instructions for utilization. The session concluded with a Q&A session to address inquiries regarding the app's capabilities and implementation.

DAY 2 : FIRST PANEL DISCUSSION : FIRE PREVENTION IN HIGH-RISE BUILDINGS

The focal point of the panel discussion was the crucial topic of fire prevention in high-rise buildings.

Mr Chidambar Joshi, secretary, CEEAMA, served as the moderator, guiding the discussion, while a distinguished panel of experts brought their expertise to the forefront. The esteemed panelists included Deputy Chief Fire Officer DR Ghosh, Electrical Consultant Mr Ulhas Vajre, Electrical Contractor Mr Kamlesh Shah, Electrical Inspector Mr Hemant Sali, and Electrical Manufacturer Mr Debajyoti Mukherjee. The session began with a felicitation ceremony, acknowledging the contributions of these industry experts. An introductory session provided attendees with insights into the backgrounds and areas of expertise of each guest. Attendees seized this chance to seek clarification, share insights, and exchange perspectives, fostering a dynamic and interactive atmosphere. The session not only enhanced participants' understanding of the subject matter but also facilitated knowledge sharing and collaboration among industry peers.





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Q & A Session :

1. Where do you think Indian fire safety stands concerning international countries? - Dr Ghosh

2. Does the fire department have the power to inspect any installation without giving notice? - Dr Ghosh

3. What is a Chartered Electrical Safety Engineer? - Shri Ulhas Vajre

4. How many safety personnel are there in your organization? - Shri Kamlesh Shah

5. How much do you think NEC 2023 has been understood and followed at the site? - Shri Kamlesh Shah

6. Lighting protection from the sky is a big challenge with the IS 62305. How do you handle this in high-rise buildings?

7. What are the new responsibilities imposed on stakeholders by recent changes in laws related to electricity? - Mr Hemant Sali

8. How do you ensure that your



should improve in procurement philosophy? - Shri Debjyoti Mukherjee

The discussion then delved into strategies and best practices for preventing fires in high-rise buildings, drawing on the diverse perspectives of the panelists. Topics such as fire safety regulations, electrical

products are safe to use in building projects? - Shri Debjyoti Mukherjee

9. Can you give examples of R&D conducted on your product and improvised based on site feedback? - Shri Debjyoti Mukherjee

10. There are many instances of fire survival cables being ordered at the spur of the moment, and there are delivery challenges. What, according to you,

system design considerations, emergency response protocols, and the role of technology in fire prevention were explored in depth. A question-and-answer session allowed attendees to engage directly with the panelists, seeking clarification and further insights.

Conclusion: ECAMEX24 FOR ELECTRICAL SAFETY provided a comprehensive platform for industry professionals to exchange knowledge, insights, and experiences related to electrical safety. The event highlighted the ongoing efforts and innovations aimed at enhancing safety standards in the electrical contracting industry. The organizers extended their gratitude to all participants, sponsors, and attendees for their valuable contributions towards making ECAMEX24 a resounding success in promoting electrical safety awareness.



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Day 3 Seminar 1 : Sponsor Presentation By TATA POWER LTD ON SOLAR ENERGY

Engaging presentation by Gaurav Soni from Tata Power Marketing, shedding light on the Tata Solar Roof Power initiative. Harshid from the sales team further elucidated the advantages and practical applications of solar energy and rooftop solar systems. Tata Power's introduction of the Solar Champion program aimed at empowering contractors in the renewable energy sector garnered significant interest from attendees, including students from Vivekananda Polytechnic who showed enthusiasm for sustainable energy solutions. The presence of participants from Nashik added to



the seminar's regional significance, underlining the broad appeal of the topics discussed.

Day 3 : SEMINAR 1 : AI@Electricity



attendees, highlighting the event's emphasis on innovation and future-forward thinking.

ECAM President Shri Waman Bhure's motivational speech addressing the students, resonated deeply, inspiring them to pursue entrepreneurship and create meaningful impact through their endeavors.

A touching moment then occurred when a student from Vivekananda Polytechnic presented Ajit Kulkarni with a sketch, symbolizing appreciation for his contributions. This gesture of gratitude exemplified the spirit of camaraderie and mutual respect fostered within the seminar. The subsequent honour with a bouquet underscored the warmth and appreciation shared among participants.



Mr Ajit Kulkarni captivated the audience with his presentation on "AI@Electricity," delving into the fascinating convergence of artificial intelligence and electricity. His insights into the transformative potential of this merger sparked thoughtful discussions among

The seminar reached its conclusion with Jitendra Kumar Rathoure's (Expert in energy conservation and management) insightful discussion on electric safety and the imperative of cultivating a safety-conscious culture. Rathoure's emphasis on proactive measures to prevent electric accidents left a lasting impression on the audience, reinforcing the importance of vigilance and responsibility in electrical practices. His closing quote, "Your life doesn't get better by chance, it gets better by change," served as a poignant reminder of the power of adaptability and continuous improvement.



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Day 3 : PANEL DISCUSSION: SAFE INSTALLATION IN INDUSTRIES

The focus shifted seamlessly to the critical topic of safe installation practices within industrial settings, setting the stage for an enlightening panel discussion moderated by Mr. Shashi Amin, CEO of Apar Industries. Panelists, Transformer manufacturer Mr. Santosh Vishwakarma, Switchgear manufacturer Mr. Shriram Joshi, Cable and wire manufacturer Mr. Girish Pillay, Electrical contractor Mr. Sameer Deodhar and Electrical consultant Mr. Ajit Kulkarni comprising industry experts well-versed in electrical systems and safety protocols, embarked on a deep dive into the nuances of transformer usage within electronic circuits. A key takeaway from the discussion was the advocacy for the adoption of C2 wire over C5 wire, aligning with government recommendations aimed at bolstering safety standards in industrial installations. This recommendation underscored the panel's commitment to prioritizing the well-being of workers and the integrity of electrical systems.

The panel discussion was followed by a robust question-and-answer session, providing attendees with a valuable opportunity to directly engage with the panelists and delve deeper into the intricacies of safe installation practices. Attendees seized this chance to seek clarification, share insights, and exchange perspectives, fostering a dynamic and interactive atmosphere. The session not only enhanced participants' understanding of the subject matter but also facilitated knowledge sharing and collaboration among industry peers.





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Q & A Session:

How do you define the quality of a transformer? :-

Santosh Vishwakarma

What are the factors for deciding panel sizing?

Shriram Joshi

What is the manufacturing range of cables in HV, LV, and EHV :- Girish Pillay

How do you start designing electrical systems for industrial projects what factors are mainly considered at the initial stages? :- Ajit Kulkarni

How do you ensure the proper ventilation system of the panel? :- Shriram Joshi

Which type or class of wire and minimum size do you recommend to the end users or contractors for wiring? your take on using class 2 or class 5 wires. please explain the difference between class 2 or class 5 conductors in wires :- Girish Pillay

How do you decide the Coordination between HV and LV protections? There is confusion between with earthed and without earthed HV cables. can you elaborate on which is to be used in the HV distribution system?:- Ajit Kulkarni

Whether heat run test is essential for assessing for assessing the rating of the transformer ?:- Santosh Vishwakarma

What should be the major focus of the electrical contractor towards the erection and commissioning of the



electrical Installation:- Sameer deodar

What can be the maximum warranty period that can be accepted in the Transformer and what is your Take on quality:- Santosh Vishwakarma

As the seminar drew to a close, a vote of thanks was extended to all participants for their invaluable contributions to ECAMEX24. The closing ceremony served as a moment of reflection and celebration, acknowledging the success of the event and expressing gratitude to the organizers, speakers, panelists, and attendees for their collective efforts in making the conference a resounding success. It reinforced the importance of collaboration, continuous learning, and shared commitment to advancing safety and excellence within the electrical industry.

Mr Satish Sinnarkar, the chairman and organiser of all the seminars and the panel discussions expressed his happiness for the grand success and thanked all the faculties, attendees, students and the directors of Ecam.

- Report by Chirag Khadka



Dewon Electric corporate office at Mumbai

Dewon Electric is an emerging name in the switchgear industry. Their product range includes MCB, RCCB, Distribution Board, MCB changeover switch and Modular switch. With the plant based out of Greater Noida, Dewon Electric has presence in more than 11 states of India with almost 20 sales person. They provide 2 years warranty on RCCB and 10 years warranty on all other products. This speaks volumes of their quality. With both the promoters having past experience in switchgear industry, the company is poised for exponential growth.

Dewon Electric has started its corporate office in Mumbai. This is part of their business expansion strategy in Maharashtra, Gujarat and Karnataka. The Mumbai office will also have a huge stocking point to enable faster delivery of goods.

Mr. Vinay Rao, Executive Director of Dewon Electric stated that "Mumbai is the commercial capital of India and one of the most prestigious market for switchgear. We are overwhelmed with the response received here and this encouraged us to have our full fledged corporate office at Mumbai. We already have 8 distributors here and our intent is to reach out to our prospective



customers and make our goods available at shortest possible lead time. We are sure that our corporate office in Mumbai along with the stocking point will facilitate excellence in customer service and will enable multifold business growth.

The customer response and the opportunities created are surely going to tempt us to have a manufacturing unit in and around Mumbai soon. We look forward to sharing some good news in the near future."

Thanks,
Vinay



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या भव्य प्रदर्शनाचे उद्घाटन मा. कपिल पाटील यांच्या शुभहस्ते संपन्न



इलेक्ट्रिकल कॉन्ट्रॅक्टर्स असोसिएशन ऑफ महाराष्ट्र (इकॅम) आयोजित विद्युत सुरक्षा इकॅमक्स २४ या भव्य प्रदर्शनाचे उद्घाटन केंद्रीय (राज्यमंत्री पंचायतराज भारत सरकार) माननीय श्री कपिल मोरेश्वर पाटील यांच्या शुभहस्ते आज बाँम्बे एक्जीबिशन सेंटर गोरगाव मुंबई येथे संपन्न झाले.

दि २७, २८ आणि २९ फेब्रुवारी रोजी सकाळी दहा ते संध्याकाळी सहा वाजेपर्यंत हे प्रदर्शन सर्वांसाठी विनामूल्य खुले आहे.

उद्घाटन प्रसंगी व्यासपीठावर मा ना श्री. कपिल पाटील, मा. खासदार श्री. गोपाल शेट्टी, आर. आर. केबलचे श्री. राजेश काबरा, पॉलीकॅबचे सीईओ श्री. भूषण सहानी, ग्रेट व्हाईट कंपनीचे जनरल मॅनेजर श्री. मिलिंद धोंगडे यांच्यासह इकॅम महा समितीचे अध्यक्ष श्री. वामन भुरे, उपाध्यक्ष श्री. उमेश रेखे, महासमितीचे सचिव श्री. देवांग ठाकूर, खजिनदार श्री. रावसाहेब रक्बे, इकॅमेक्स २४चे अध्यक्ष श्री. मारुती माळी हे उपस्थित होते. या प्रसंगी इकॅम प्रकाशित व श्री अजित कुलकर्णी लिखित आर्टिफिशियल इंटेलिजन्स इलेक्ट्रिसिटी



या पुस्तकाचे आणि श्री सतीश सिन्नरकर संपादक असलेल्या आय. ई. सी. टी या मासिकाच्या विशेषांकाचे प्रकाशन मान्यवरांनी केले. महासमितीचे अध्यक्ष श्री. वामन भुरे यांनी आपल्या मनोगतात सांगितले की, आमची इकॅम ही संस्था शतक महोत्सवी वर्ष साजरे करत आहे विविध माध्यमातून सभासदांसाठी अनेक कामे करत आहे. त्याबरोबरच सामाजिक बांधिलकीच्या भावनेने सामान्य



जनता, वीज ग्राहक यांच्या प्रबोधनासाठी वारंवार विविध उपक्रम राबवले जातात. खेडोपाडी जाऊन सामान्य जनता व शेतकरी यांचे साठी वीज सुरक्षा याबाबत संघटनेच्या माध्यमातून प्रबोधन करत आहे. अभियांत्रिकीच्या विद्यार्थ्यांनी विद्युत ठेकेदारी व्यवसायात यावे यासाठी इकॅमचे माध्यमातून प्रशिक्षण दिले जाते. वीज बचत

आणि वीज सुरक्षा या विषयाचा शालेय अभ्यासक्रमात समावेश करण्यासाठी आमची संस्था प्रयत्नशील आहे. विद्युत कायदानुसार परवानाधारक विद्युत ठेकेदारांनीच काम करावे यासाठी पाठपुरावा करित आहे अल्प ज्ञान असलेल्या अनधिकृत ठेकेदारांनी कामे केल्यास विद्युत अपघात होण्याचा धोका वाढतो.

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याप्रसंगी मा. श्री गोपाल शेटी म्हणाले की, मी प्रथमता इकॅमला मनापासून शुभेच्छा देतो शंभर वर्षांपूर्वी ज्यांनी इकॅमची स्थापन केली त्यांच्या स्मृतीस विनम्र अभिवादन करतो. माननीय पंतप्रधान श्री नरेंद्र मोदी यांच्या संकल्पनेनुसार संपूर्ण भारत देश प्रकाशमान करायचा आहे आज बहुतांशी भागात वीज पुरवठा होत आहे येणाऱ्या काळात नवनवीन संसाधनांमार्फत वीज उत्पादन वाढवून सर्वत्र स्वस्त दरात व दर्जेदार वीज उपलब्ध करून देण्याचा प्रयत्न करत आहे यासाठी मा. नरेंद्र मोदीं आग्रही आहेत.

शालेय अभ्यासक्रमात वीज बचत व वीज सुरक्षा या विषयाचा समावेश करण्यासाठी शासन दरबारी पाठपुरावा करू अशी हमी दिली. भारताला आर्थिक दृष्ट्या मजबूत करण्यासाठी औद्योगिक क्षेत्राचा जसा मोठा वाटा आहे तसाच विद्युत क्षेत्राचा मोठा वाटा आहे. यामध्ये इकॅमचे कार्य फार मोलाचे आहे.

मा. श्री कपिल पाटील म्हणाले की, सुरक्षा संकल्पनेवर आधारित या प्रदर्शनाचे आयोजन केल्याबद्दल इकॅमचे कौतुक केले. गेल्या ९९ वर्षात इकॅम सभासदांची एकी टिकली संघटना वाढली हे विशेष, कोणत्याही संघटनेत निस्पृह कार्यकर्ते असल्याशिवाय हे शक्य नाही जगाच्या पाठीवर अशा मोजक्या संघटना असतील त्यामध्ये ही इकॅम आहे.

भविष्यात माननीय पंतप्रधान नरेंद्रजी मोदी यांच्या संकल्पनेनुसार सोलार रिन्यूएबल एनर्जीचा वापर मोठ्या प्रमाणावर होणार आहे यातून कार्बन उत्सर्जनाचे प्रमाणही कमी होणार आहे



आतापर्यंत देशात एक कोटी घरांना सौरऊर्जेचे मार्फत वीज पुरवठा केला जात आहे. यासाठी केंद्र शासनाने ७२ हजार कोटी रुपयांची तरतूद केली आहे. भिवंडी मतदारसंघात काही आदिवासी गावे पूर्णतः सौर उर्जेवर वीज पुरवठा केला जाणार आहे. मी इकॅमला सर्वतोपरी मदत करण्यास कायम तयार आहे तसेच सदैव इकॅमचे पाठीशी राहील.

इकॅमेक्स २४ या भव्य प्रदर्शन आयोजित करण्यासाठी ज्यांनी परिश्रम घेतले त्यासाठी प्रातिनिधिक स्वरूपात श्री. मारुती माळी, श्री. अमेय कानव, श्री. अमोल कोळपकर यांचा सन्मान केला.

कार्यक्रमाचे आभार प्रदर्शन महासचिव श्री. देवांग ठाकूर यांनी केले तर सूत्रसंचलन स्वाती पेंडसे यांनी केले.

वृत्त संकलन - नरेंद्र शिंदेकर

संचालक व प्रसिद्ध प्रमुख - इकॅमेक्स



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Gensol Engineering Welcomes New CEO to Drive Solar EPC Expansion in the Middle East

Gensol Engineering Limited, a prominent name in the solar energy sector, focusing on engineering, procurement, and construction (EPC) services and electric mobility, has announced the appointment of Mr. Kapil K Nirmal as the new CEO of its Middle East Solar EPC business. With an extensive 18-year background in business development and project implementation across major organizations in the Middle East, including Emirates Electrical Engineering LLC and Al Rostamani Group, Mr. Nirmal is set to lead Gensol's expansion in the region. He brings a wealth of experience, having been instrumental in the development and engineering of over 5 GW of Solar PV projects worldwide.

Gensol's venture into the Middle East follows its successful track record in India, where it has executed over 600 MW of solar projects, including rooftop, ground-mounted, and floating solar installations. The company's early achievements in the UAE underscore its strong potential for growth in the Middle East. Mr. Nirmal's appointment is expected to further drive Gensol's strategic expansion and solidify its presence in the solar PV sector in the region.

Anmol Singh Jaggi, Managing Director of Gensol, expressed enthusiasm about the company's growth trajectory, highlighting the trust and initial successes in the UAE as foundations for future expansion. Mr. Nirmal, celebrating his new role, emphasized his commitment to advancing clean energy solutions and contributing to Gensol's vision of creating sustainable energy footprints in the Middle East. A University of Cambridge and IIM Calcutta alumnus, Mr. Nirmal has also specialized in Business and Climate Change and holds a certification as an Emerging Sustainable Technology Expert from The European Energy Center.



Adani eyes 45 GW renewable energy capacity by 2030

Billionaire Gautam Adani's group is building the world's largest renewable energy park in Gujarat, as it eyes a massive 45 GW capacity to generate electricity largely from solar energy.

Speaking at the opening of 'Energy Revolution: The Adani Green Energy Gallery' at the Science Museum in London, Gautam Adani said his group's renewable energy arm, Adani Green Energy, is leading an energy transition that honours the commitment of taking care of the planet not just for this generation and the next but also for generations to come.

"As the world's leading solar power developer and India's largest renewable energy company, we are taking very big steps," he said.

"In Khavda, which is in the state of Gujarat, we are building the world's largest renewable energy park.

"It will have a generation capacity of 30 GW of energy - and it is incredibly big. Its area of 538 square kilometers is more than five times bigger than Paris."

This is part of the aim to reach 45 GW of renewable energy by 2030, said Adani, the chairman of the apples-to-airport conglomerate.

"This will be like providing clean energy to almost every house in England," he said.

It currently has an operating renewable portfolio of over 9.5 GW and locked-in projects of up to 21.8 Gigawatt (GW).

The Gallery explores how the world can generate and use energy more sustainably to urgently decarbonise and to limit dangerous climate change.

"Through striking displays of contemporary and historic objects from the UK and abroad, interactive digital exhibits, and specially commissioned models, the gallery shows how the past, present and future are shaped by human imagination and innovation and explores how we all have a role to play in deciding our energy future," a company statement said.

The Gallery, which is open to the public for free, examines this century's defining challenge through the lens of imagination across three sections.

In Future Planet, visitors can explore how scientists use complex computer-based models to understand our planet, and what these tell us about the range of climate futures that might lie ahead.

In Future Energy, technologies and the people behind them that are reimagining how energy is supplied and used are highlighted alongside historic artefacts which provide a longer view of the transition away from fossil fuels.

Adani said museums are very important because they teach and inspire.

STALLS @ ECAMEX24



STALLS @ ECAMEX 24

contd. page 19



Power minister finalises funding mechanism for battery energy storage system projects

The minister said when we have extra solar energy during the day and extra wind energy during the evening, the energy would go waste in the absence of adequate storage system.

Union Power and New & Renewable Energy Minister R K Singh has finalised the mechanism for deployment of funds for various projects to develop battery energy storage systems in the country. Battery energy storage systems (BESS) will ensure round-the-clock supply of renewable energy.

The minister chaired a meeting on February 22 to finalise the structure for operationalising the scheme of viability gap funding for the development of BESS with a capacity of 4,000 megawatt-hours (MWh), an official statement said on Sunday. Officials from the power ministry and those from Central Electricity Authority, Solar Energy Corporation of India, Grid India, and NTPC Vidyut Vyapar Nigam Ltd. (NVVN) were present in the meeting.

Officials from the power ministry and those from Central Electricity Authority, Solar Energy Corporation of India, Grid India, and NTPC Vidyut Vyapar Nigam Ltd. (NVVN) were present in the meeting. Addressing the officials, Singh said that the government will encourage setting up of BESS capacity through a viability gap funding scheme to meet the fast-growing needs of power demand as well as energy transition. The minister said when we have extra solar energy during the day and extra wind energy during the evening, the energy would go waste in the absence of adequate storage system. It was discussed that the BESS should be able to deliver electricity during the period of peak demand while at the same time stabilizing the grid, the statement said. Besides, the ministry also

discussed various sites in states rich in renewable energy as potential locations for setting up storage systems in order to get maximum benefit.





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<div style="text-align: center; margin-bottom: 10px;">  </div> <p style="text-align: center; font-size: small;">Neptune-Bals (Made in Germany) CE marked PVC industrial plugs, sockets & interlocks</p> <div style="text-align: center;">  </div>	<div style="text-align: center; margin-bottom: 10px;">  </div> <p style="text-align: center; font-weight: bold;">Wires and Cables</p> <p style="text-align: center; font-weight: bold;">The power behind the power</p> <div style="text-align: center;">  </div>

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समृद्धी महामार्गावर दोनशे मेगावॉट क्षमतेचा सौरप्रकल्प

समृद्धी
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६२५ किमीचा मार्ग
सुरू झाला आहे.
हा पूर्णपणे
'ग्रीनफिल्ड'
म्हणजेच नव्याने
बांधण्यात आलेला
मार्ग असल्याने
एमएसआरडीसी
कडे मार्गालगत
मुबलक मोकळी



जागा उपलब्ध आहे. त्या जागेचा सौरऊर्जेसाठी सदुपयोग करण्याच्यादृष्टीने महामंडळाने गेल्यावर्षीच वाशिम व बुलढाणा जिल्ह्यात आंतर-बदल असलेल्या ठिकाणी अनुक्रमे ५ व ४ मेगावॉट सौरऊर्जा प्रकल्प उभे करण्याची निविदा काढली होती. या दोन्ही निविदांद्वारे कंत्राटदार नियुक्ती आता अंतिम टप्प्यात आहे. त्यावेळी हे दोन्ही प्रकल्प प्रायोगिक स्वरूपाचे होते. मात्र असेच प्रकल्प संपूर्ण 'समृद्धी'भर उभे करण्यासंबंधीचा विशेष डीपीआर तयार करण्यात आला होता. त्याच डीपीआरचा पुनर्विलोकन आढावा घेण्यासाठी आता निविदा काढण्यात आली आहे.

या निविदेद्वारे नियुक्त होणाऱ्या कंत्राटदाराला या सौरऊर्जा प्रकल्पांबाबत विविध प्रकारची कामे करायची आहेत. आधीच्या डीपीआरचा अभ्यास करून दोन आठवड्यात त्यासंबंधीचा पुनर्विलोकन अहवाल सादर करणे तसेच संपूर्ण महामार्गालगत जवळपास २०० मेगावॉट सौर ऊर्जा निर्मिती प्रकल्प उभा

करण्याबाबतचा अहवाल महामंडळाने मंजूर केल्यानंतर, सहा आठवड्यांत नव्या डीपीआरचा मसुदा तयार करायचा आहे. हा मसुदा मंजूर झाल्यानंतर पुढील दोन आठवड्यांत अंतिम डीपीआर तयार करायचा आहे. त्याशिवाय आगामी काळात उभ्या होणाऱ्या सौरऊर्जा प्रकल्पांद्वारे नेमके किती कार्बन उत्सर्जन कमी होईल, याचा अभ्यास अहवाल तयार करून या प्रकल्पांच्या उभारणीसाठीची निविदा तयार करणे व सध्याच्या ९ मेगावॉटसह आगामी अशा सर्व प्रकल्पांसाठी 'प्रकल्प व्यवस्थापन सल्लागार' म्हणून सेवा देण्याचे काम कंत्राटदाराला करायचे आहे. १० एप्रिलपर्यंत ही निविदा भरता येणार आहे. दरम्यान, महामार्गालगत सौरऊर्जा प्रकल्प विकसित करण्यासाठी 'महासमृद्धी नूतनीय ऊर्जा लिमिटेड' (आरईआयएल) या विशेष कंपनीची स्थापनाही करण्यात आली आहे.



नूतनीय उर्जेचे लक्ष्य गोठण्याचे आव्हान

राज्य सरकारच्या महानिर्मिती या वीजनिर्मिती करणाऱ्या कंपनीला महाराष्ट्र वीज नियामक आयोगाने किमान २५ टक्के नूतनीय उर्जेचे लक्ष्य दिले आहे. कंपनीच्या स्थापित क्षमतेचा विचार केल्यास नूतनीय ऊर्जा निर्मिती २२ टक्के आहे. मात्र त्यामध्ये सौर उर्जेचा वाटा फक्त दोन टक्के असल्याची स्थिती आहे. या पार्श्वभूमीवर कंपनीने अलीकडेच नूतनीय ऊर्जा उत्पादकांशी केली.

महानिर्मिती कंपनीची स्थापित ऊर्जा क्षमता १३ हजार १५२ मेगावॉट आहे. मात्र त्यामध्ये ९५४० मेगावॉट ऊर्जा ही औष्णिकच आहे. तर २९३९ मेगावॉट या ही नूतनीय (जलविद्युत, पवन, सौर आदी) क्षेत्रातील आहे. त्यापैकी ना २५८० मेगावॉट ऊर्जा जलविद्युतची चर्चा असून सौरक्षेत्राचा वाटा फक्त ३५९ हे मेगावॉटचाच आहे. याच पार्श्वभूमीवर महानिर्मितीचे अध्यक्ष व व्यवस्थापकीय संचालक पी. अनबलन यांनी सौर ऊर्जा उत्पादकांशी चर्चा केली.

महानिर्मिती कंपनी येत्या काळात ८ हजार मेगावॉट वीज ही नूतनीय स्रोतांमधून उभी करणार असल्याची माहिती या चर्चेदरम्यान उत्पादकांना देण्यात आली. त्यामध्ये ७ मेगावॉट ते ३०० मेगावॉट स्थापित क्षमतेच्या प्रकल्पांचा समावेश असेल.

प्रामुख्याने मुख्यमंत्री सौर कृषी वाहिनी योजनेत १०७१, एकत्रित खरेदी १९५६, एनटीपीसी ग्रीन एनर्जी लिमिटेडसह संयुक्त कंपनी स्थापन करून २५००, एसजेव्हीएनसह संयुक्त कंपनीद्वारे उदंचन जल विद्युत प्रकल्पाद्वारे ५ हजार, सौर प्रकल्प, तरंगता सौर प्रकल्प, राहुरी कृषी विद्यापीठासह १०० व महाऊर्जा समवेत १३५ मेगावॉट क्षमतेच्या सौर व पवन ऊर्जा प्रकल्पांचा समावेश असेल. त्यामुळे विकासाकामी निविदा अटी- शर्तीबाबत भूमिका मांडणे अपेक्षित आहे. महानिर्मिती नूतनीय ऊर्जा स्रोतांकडे वळणार आहे. त्यामुळे या क्षेत्रातील उत्पादकांसाठी ही एक मोठी संधी आहे, असे अनबलन म्हणाले.



Waaree Energies to supply 280 MW solar modules to Mahindra Susten in clean energy push

New Delhi: Waaree Energies Limited, India's premier solar PV module manufacturer, announced a significant partnership with Mahindra Susten, a leading renewable independent power producer (IPP), to supply 280 MW of solar modules. This collaboration underscores India's accelerating shift towards clean energy solutions. Under the agreement, Waaree will provide Mahindra Susten with its AHNAY Series, Bi-55 545Wp modules, recognized for their bifacial ETEnergyWorld Updated On Feb 27, 2024 at 04:12 PM IST Read by: 699 Industry Professionals Read by 699 Industry Professionals Glass-to-Glass design and a 30-year output performance warranty. The delivery of these modules is slated for the third quarter of Fiscal 2025, marking a pivotal step in both companies' commitment to bolstering India's renewable energy infrastructure.

Waaree Energies, with the largest installed capacity of 12 GW as of June 30, 2023, as reported by CRISIL, has been chosen for this project due to its proven ability to meet delivery timelines and supply quality products. The company's manufacturing prowess and its modules' enhanced efficiency and durability were key factors in securing the deal over competitors.

Mahindra Susten, part of the Mahindra Group and established in 2010, has been at the forefront of India's renewable energy sector. The company has developed over 1.5 GWp of renewable assets as an IPP and executed over 4.2 GWp of renewable projects as an EPC in India and internationally. Currently, it is developing over 1.4 GWp of projects as an IPP.



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घराच्या छतावर सोलर सिस्टिम बसवून वीजनिर्मिती



वाढत्या वीज बिलाची समस्या आणि विजेची टंचाई या पार्श्वभूमीवर सौर ऊर्जा वापराला प्रोत्साहन मिळण्याच्या दृष्टिकोनातून सरकारकडून विविध प्रकारचे प्रयत्न करण्यात येत आहेत. केंद्र सरकार किंवा राज्य सरकारच्या माध्यमातून अनेक योजना राबविण्यात येत असून यातून सोलर सिस्टिम बसवण्यासाठी अनुदान देखील देण्यात येत आहे.

अशा प्रकारच्या सोलर सिस्टिम तुम्ही घराच्या छतावर बसवून सौर ऊर्जेच्या माध्यमातून वीज निर्मिती करू शकतात व तुमची घरातील विजेची गरज भागवू शकता व एवढेच नाही तर तयार झालेली अतिरिक्त वीज विक्री करून तुम्ही पैसा देखील मिळवू शकतात.

जर आपण सोलर सिस्टिमचा विचार केला तर बाजारामध्ये अनेक ब्रँड आज उपलब्ध आहेत व प्रत्येक कंपन्यांच्या सोलर सिस्टिमचे वैशिष्ट्य आणि किमती देखील वेगवेगळ्या आहेत. याचा अनुषंगाने आपण या लेखांमध्ये वारी एनर्जी लिमिटेड या कंपनीच्या सोलर सिस्टिमबद्दल संपूर्ण माहिती घेणार आहोत.

सोलर उपकरणे निर्माण करणाऱ्या अनेक ब्रँड आज बाजारामध्ये उपलब्ध आहेत व यामध्ये वारी एनर्जीस लिमिटेड हा एक प्रसिद्ध ब्रँड असून भारतातील सोलर उपकरणे तयार करणारे अनेक जुन्या कंपन्यांमधील ही एक कंपनी आहे.

या कंपनीचे सोलर उपकरणे एक विश्वासनीय असे मानले जातात व एवढेच नाही तर सोलर उपकरण निर्मिती क्षेत्रांमध्ये ही कंपनी वेगाने प्रगती करत आहे. या कंपनीचे सोलर उपकरणे दुसऱ्या देशांमध्ये देखील निर्यात केले जातात. या कंपनीच्या 3Kw सोलर सिस्टिम बद्दल महत्वाची माहिती आपण बघणार आहोत.

जर तुमचे घर किंवा व्यवसायाच्या ठिकाणी प्रत्येक दिवसाला १५ युनिट पर्यंत विजेची गरज असेल तर तुम्ही 3Kw सोलर सिस्टिम इनस्टॉल करू शकता. तीन किलो वॉट सोलर सिस्टिमच्या

माध्यमातून तुम्ही प्रत्येक दिवसाला सौर ऊर्जेच्या माध्यमातून १५ युनिट विज मिळवू शकतात.

सोलर सिस्टिम मध्ये तुम्ही वारी कंपनीच्या माध्यमातून निर्माण करण्यात आलेल्या पॉली क्रिस्टलाईन सोलर पॅनल जर वापरले तर तीन किलोवॉट पर्यंत क्षमता असलेले सोलर इन्वर्टर वापरणे गरजेचे असते. त्यासोबतच पावर बॅकअपसाठी सोलर बॅटरीची आवश्यकता देखील तुम्हाला भासते.

वारी कंपनीच्या माध्यमातून तयार करण्यात आलेल्या पॉली क्रिस्टलाईन सोलर पॅनलचा वापर करून चांगल्या पद्धतीची सोलर सिस्टिम इनस्टॉल करू शकतात. पॉली क्रिस्टलाईन सोलर पॅनलची किंमत इतर सोलर पॅनलच्या तुलनेमध्ये कमी असते.

वारी कंपनीच्या माध्यमातून तयार करण्यात आलेल्या तीन किलो वॉट क्षमतेच्या सोलर पॅनल ची किंमत ९५ हजार रुपये पर्यंत आहे. यामध्ये तुम्हाला ३३५ वॉटचे नऊ सोलर पॅनल इनस्टॉल करता येऊ शकतात व यावर तुम्हाला २५ वर्षांची वॉरंटी कंपनीच्या माध्यमातून दिली जाते. या सोलर सिस्टिम मध्ये तुम्हाला डीसीचे रूपांतर एसीमध्ये करण्यासाठी सोलर इन्वर्टर देखील लागते.

कोणत्याही सोलर सिस्टिममध्ये जास्त क्षमतेच्या सोलर इन्वर्टरचा वापर केला जातो. कारण जर भविष्यामध्ये सोलर सिस्टिम वाढवली तर याचा फायदा होतो.

तीन किलोवॉट क्षमतेच्या सोलर सिस्टिम वापरण्याकरता लागणाऱ्या Waaree MPPT 3.5KVA solar PCU ची किंमत अंदाजे ४१ हजार ९५० रुपये आहे. आधुनिक तंत्रज्ञान असलेले सोलर इन्वर्टर असून यावर तुम्हाला दोन वर्षांची वॉरंटी मिळते.

वारी सोलर बॅटरीची किंमत किती असते?

ऑफग्रीड सोलर सिस्टिममध्ये बॅटरीचा वापर केला जातो. पावर बॅकअपच्या आवश्यकतेनुसार सोलर बॅटरीचा वापर हा सोलर सिस्टिममध्ये केला जातो. जर आपण वारी कंपनीच्या सोलर बॅटरीची किंमत पाहिली तर ती:

१- वारी कंपनीच्या 200 Ah सोलर ट्यूबलर बॅटरीची किंमत १६५०० आहे.

२- वारी कंपनीच्या 40 Ah सोलर ट्यूबलर बॅटरी ची किंमत ११९०० आहे.



BIS adopts Wi-SUN Alliance specification as national standard for India's smart metering ..

Wi-SUN Alliance in a media statement noted that the FAN specification is used to support the specification and rollout of large-scale outdoor networks, including smart metering 2 Min Read projects, smart grids, street lighting, and other Internet of Things (IoT) applications.

NEW DELHI: The Bureau of Indian Standards (BIS) has adopted the Wi-SUN Alliance FAN (Field Area Networks) specification as the national standard for India's smart meter radio frequency (RF) communication networks. "This recognition is also a huge growth opportunity for member companies based in India including Cisco, Renesas, Silicon Labs, Texas Instruments, Exegin, and CyanConnote, as well as those looking to expand into the Indian market," said Phil Beecher, President and CEO of Wi-SUN Alliance. Wi-SUN Alliance in a media statement noted that the FAN specification is used to support the specification and rollout of large-scale outdoor networks, including smart metering projects, smart grids, street lighting, and other Internet of Things (IoT) applications.

Citing India's efforts to achieve energy independence, the Wi-SUN Alliance said the country is heavily focusing on renewables with Advt successive budgets allocating resources for the same.

It cited India's 2024-25 vote-on-account budget, in which the Centre has allocated \$9 billion towards providing 300 units of free electricity to 10 million households every month through rooftop solarisation. The government also allocated \$1.9 billion towards the development of 100 smart cities in the country. "Such ambitious undertakings require India's Public Sector Undertakings and associated stakeholders to adopt smart grids, smart meters and more importantly, solutions that are interoperable to ensure their success," the Wi-SUN Alliance said.

As per the statement, Wi-SUN's wireless mesh technology is currently supporting the Smart City Living Lab project in Hyderabad, a EVENT 5G | 6G Congress 2024 Thu, 14 Mar 2024 ITC Maurya,.... Thu, 14 Mar 2024 Register Now partnership between the International Institute of Information Technology (IIIT-H), the government of Telangana, and the Ministry of Electronics and Information Technology India (MeitY). Wi-SUN Alliance said it is already running the Wi-SUN FAN PHY certification program for the Indian frequency band (865-868MHz), and several member companies have already certified their products. WiSUN Alliance is also working on starting the certification program for Wi-SUN FAN specification shortly and currently, it is in the precertification stage





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Solar EPC

Solar Energy is the radiation from the sun capable of producing heat, causing chemical reactions, or generating electricity. Solar Energy offers a multitude of benefits; firstly, it is a clean and renewable energy source that produces no harmful emissions and reduces our reliance on fossil fuels. Secondly, solar energy encourages technological innovation and can lower electricity bills for homeowners and business owners. Solar energy plays a pivotal role in promoting a cleaner and more sustainable future. The amount of sunlight that strikes the earth's surface in an hour and a half is enough to handle the entire world's energy consumption for a full year.

Solar power is the conversion of sunlight into electricity. Solar Technologies convert sunlight into electrical energy (electricity) either through photovoltaic panels or through mirrors that concentrate solar radiation. This energy can be used to generate electricity or be stored in batteries or thermal storage. **Solar panel** is a type of solar technology that converts sunlight into electricity using photovoltaic (PV) cells which are made of materials that generate electrons when exposed to light. The electrons flow through a circuit and produce direct current electricity, which can be used to power devices. Solar panels are low maintenance and have a long lifespan, making them a cost-effective energy solution.

What is a Solar EPC?

Solar EPC (Engineering, Procurement, and Construction) is a comprehensive approach to the implementation of solar energy projects for residential or industries. It involves the design, engineering, procurement of materials, construction, and commissioning of solar power systems. **Solar EPC companies** manage the entire project lifecycle, ensuring efficient and effective deployment of solar panels, inverters, mounting structures, and associated components. They handle permits, site assessment, project planning, equipment sourcing, installation, testing, and handover of a fully functional solar power plant. EPC plays a crucial role in delivering reliable and sustainable solar solutions, overseeing the integration of renewable energy into the electrical grid.

Kinds of Solar EPC

i) Land-Based Solar EPC

Land-based Solar EPC refers to planning, designing, procuring materials, constructing, and commissioning solar power plants on land. This process is commonly used to develop utility-scale solar projects, commercial solar installations, and large solar farms.

ii) Floating Solar EPC

Floating Solar EPC refers to planning, designing, procuring materials, constructing, and commissioning floating solar power projects. These projects involve the installation of solar panels on water bodies like lakes, reservoirs, ponds, etc.

iii) Rooftop Solar EPC

Rooftop Solar EPC also refers to the process of planning, designing, procuring materials, constructing, and commissioning rooftop solar power projects. Rooftop EPC involves the installation of solar panels on the roofs of residential, commercial, industrial, and institutional buildings.

Top Solar EPC Companies of India

There are multiple Solar EPC companies operating in India.

What is a Solar EPC Contractor?

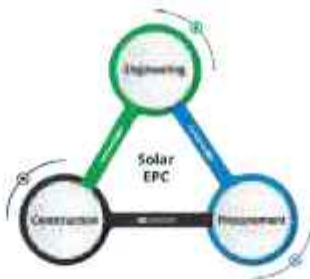
A Solar Engineering, Procurement, and Construction (EPC) Contractor is a company that provides end-to-end services that include planning, and designing your solar system, equipment procurement, project management, solar panel installation, and reliable support if maintenance or warranty claims are required.

The services provided by a Solar EPC Contractor

- 1) Perform a site survey to check the viability of a solar system.
- 2) Determine solar power generation capacity and equipment selection.
- 3) Design and install the solar system.
- 4) Set up net metering when viable.
- 5) Facilitate solar financing – including tax incentives and rebates.
- 6) Maintain production of the **solar system** through equipment monitoring and maintenance.

Conclusion

In conclusion, solar energy is a robust and sustainable source of renewable energy that offers numerous environmental and economic benefits. It plays a pivotal role in reducing our reliance on fossil fuels and combating climate change. Solar technologies, such as



३०० यूनिट मुक्त बिजली पाने के लिए घर की छत पर लगाए सोलर पैनल

सरकार से मिलेगी ७० प्रतिशत सब्सिडी, जानिए कैसे करना होगा आवेदन

— ब्यूरो चीफ फहीम सिद्दीकी

बाराबंकी। प्रधानमंत्री की महत्वाकांक्षी योजना 'प्रधानमंत्री सूर्य घर मुफ्त बिजली योजना' के तहत देश भर के करीब एक करोड़ घरों में सोलर पैनल लगाने का कार्य किया जाना है। १३ फरवरी को प्रधानमंत्री नरेंद्र मोदी के द्वारा पीएम सूर्य घर योजना को लांच किया गया था। ७५ हजार करोड़ की इस योजना में भारत के करीब एक करोड़ घरों को ३०० यूनिट तक मुफ्त बिजली देने के लिए घरों की छत पर सोलर पैनल लगाने का काम किया जाना है। कॉमन सर्विस सेंटर के माध्यम से पीएम सूर्य घर योजना के सर्वे का कार्य प्रारंभ हो चुका है।

योजना का लाभ जरूरतमंदों तक पहुंच सके इसके लिए भारत सरकार के नवीन एवं नवीकरण ऊर्जा मंत्रालय द्वारा कॉमन सर्विस सेंटर के माध्यम से सर्वे का कार्य कराया जा रहा है। इस सर्वे में जो भी लोग अपने घरों में सौर ऊर्जा का प्लॉट लगाना चाहते हैं उनकी जानकारी ली जा रही है। सीएससी के जिला प्रबंधक रवि वर्मा ने बताया कि जनपद बाराबंकी के लगभग

२०० से अधिक केंद्र संचालकों के द्वारा सर्वे कार्य शुरू कर दिया गया है। यदि आप भी योजना का लाभ लेना चाहते हैं तो आज ही अपने नजदीकी सीएससी सेंटर से संपर्क कर अपना सर्वे फॉर्म भरवा लें।

रवि वर्मा ने बताया कि जिनके घर में बिजली का कनेक्शन है और घर पक्का है। वह सभी उपभोक्ता सर्वे करवा कर योजना का लाभ ले सकते हैं। सर्वे के लिए किसी को कोई पैसा नहीं देना है। सिर्फ ६ माह तक पुराना बिजली का बिल और छत का फोटो देना आवश्यक है। उन्होंने बताया कि योजना के तहत ४० प्रतिशत सब्सिडी केंद्र सरकार तथा ३० प्रतिशत सब्सिडी राज्य सरकार द्वारा दी जा रही है। उदाहरण के तौर पर एक किलोवाट के प्लॉट की अनुमानित कीमत ६५ हजार रुपये है। जिसमें ३० हजार रुपये की सब्सिडी केंद्र व १५ हजार की सब्सिडी राज्य सरकार प्रदान करेगी। लाभार्थी को केवल २० हजार रुपये का भुगतान करना होगा।



photovoltaic panels and concentrated solar power systems, efficiently harness the sunlight to generate electricity. These technologies are not only environmentally friendly but also cost-effective, with low maintenance requirements and long lifespans.

Engineering, Procurement, and Construction (EPC) solar EPC companies play a crucial role in bringing solar projects to life. They offer end-to-end services, from initial consultations to system design, equipment procurement, installation, and ongoing maintenance. Solar EPC companies ensure that solar power generating systems are properly designed and installed, and to make sure it generates power efficiently and longevity.

Choosing the right solar EPC contractor is essential for the successful implementation of solar projects, whether they are

land-based, floating, or rooftops. It's important to consider factors such as project scope, location, and budget when selecting an EPC contractor. Overall, the expertise of EPC contractors are vital component in the global shift toward a cleaner and more sustainable energy future, reducing carbon emissions and promoting a greener planet.



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मुंबईत इलेक्ट्रिकल प्रदर्शन आजपासून

मुंबई, २४. २४ : इलेक्ट्रिकल क्षेत्रातील जागतिक प्रदर्शन आजपासून (इकॅम) हे प्रदर्शन महाराष्ट्रातील विविध वर्तमानपत्रांनी घेतलेली दखल

‘इकॅम’ संघटनेचे आजपासून प्रदर्शन

पुणे : शाळा वीर साजो करणार्या इलेक्ट्रिकल कॉन्ट्रॅक्टर्स असोसिएशन ऑफ महाराष्ट्र (इकॅम) या संघटनेच्या तृतीये संग्रहालयापासून (२५ फेब्रुवारी) ‘इकॅम २४’ हे तीन दिवसीय प्रदर्शन मुंबईतील नेस्को गॅलरीवरील सभागृह दोनमध्ये भरविण्यात आले आहे. सरकारी परवानाधारक विद्युत ठेकेदार आणि ग्राममुखाने वीज ग्राहक यांच्या समस्या सोडविणे, ग्राहकांमध्ये विद्युत सुरक्षा विषयक जागृती करणे अशी कामे संघटनेमार्फत केली जातील.

इलेक्ट्रिकल कॉन्ट्रॅक्टर्स असो.चे मुंबईत प्रदर्शन

लोकसत्ता मुंबई : इलेक्ट्रिकल कॉन्ट्रॅक्टर्स असोसिएशन ऑफ महाराष्ट्र (इकॅम) हे प्रदर्शन मुंबईतील नेस्को गॅलरीवरील सभागृह दोनमध्ये भरविण्यात आले आहे. सरकारी परवानाधारक विद्युत ठेकेदार आणि ग्राममुखाने वीज ग्राहक यांच्या समस्या सोडविणे, ग्राहकांमध्ये विद्युत सुरक्षा विषयक जागृती करणे अशी कामे संघटनेमार्फत केली जातील.

नवभारत

विद्युत सुरक्षा के लिए जन जागरूकता

बॉम्बे एक्झिबिशन सेंटरमध्ये ‘इकॅम २४’ प्रदर्शनाचे उद्घाटन



मुंबई चौकर

विद्युत सुरक्षा विषयक जनजागृतीसाठी प्रदर्शन

NEWS HUB

For awareness about electrical safety "Ecomex - 2024"

Grand Exhibition from 27th to 29th February, 2024. At Bombay Exhibition Centre, Goregaon, Mumbai

‘इकॅम २४ - २०२४’

विद्युत सुरक्षा विषयक जनजागृतीसाठी इकॅम २४ - २०२४

नवशक्ति

विद्युत सुरक्षा विषयक जनजागृतीसाठी इकॅम २४ - २०२४

नवा मराठा

‘इलेक्ट्रिकल कॉन्ट्रॅक्टर्स असो.चे २५ फेब्रुवारीपासून मुंबई येथे ‘इकॅम २४’ विद्युत सुरक्षा साहित्याचे प्रदर्शन

आपलं महानगर

विद्युत सुरक्षा विषयक जनजागृतीसाठी प्रदर्शन

शिवनेर

विद्युत सुरक्षा विषयक जनजागृतीसाठी ‘इकॅम २४’

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यावल समाचार

इकेंगचे शताब्दी वर्षात पदार्पण

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विद्युत सुरक्षा विषयक जनजागृतीसाठी' इकडे दि. २४ ते २९ फेब्रुवारी, २०२४ दरम्यान

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साठी "इकमेक्स - 2024"

केंद्रीय मंत्री कपिल पाटील यांच्या हस्ते **इकोमेक्स २४** या विद्यात सरभा प्रदर्शनाचे उद्घाटन

एक सप्ताह के दौरान १०० प्रतिशत की बढ़ोतरी पायी। इससे स्पष्ट है कि भारत में अर्थव्यवस्था में सुधार हो रहा है।

एन.डी.ए. के अध्यक्ष एन.टी. रामराव (दोसरे से बाएँ) और अन्य नेताओं के साथ एक कार्यक्रम में।

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- THE CITIZEN TIMES

Awareness about electrical safety "Ecamex - 2024"



The children have been made aware of the importance of electrical safety and the potential dangers of using electrical appliances incorrectly. They have also learned about the correct use of electrical equipment and the importance of following safety rules.

The event was a great success and the children enjoyed learning about electrical safety. The organizers hope that the children will continue to be safe when using electrical appliances at home and at school.

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The image displays a collage of newspaper clippings from the Hindi newspaper 'Duniya'. At the top, a large, bold headline is visible. Below this, there are several smaller articles, each with its own headline and sub-headline. Some articles are accompanied by small photographs. The text is dense and typical of a newsprint layout.

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भुरका प्रदर्शनाचे उद्घाटन

Newsband

राजसं

for electrical safety awareness to 29th February by ECAM

कोई इन्टर प्रेसटिगु
हुकूमत १४

The Executive Director, American Chamber of Commerce in India (ACCII), is a published representative of the Indian economy. He is also a member of the Indian Council of Economic Affairs (ICEA) and the National Council of Economic Advisors (NCEA). He is also a member of the Indian Council of Economic Affairs (ICEA) and the National Council of Economic Advisors (NCEA). He is also a member of the Indian Council of Economic Affairs (ICEA) and the National Council of Economic Advisors (NCEA).

वृत्त मित्र

भा के प्रति जागरूकता

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राष्ट्र
साठी जनजागृती

MODEL – KM-HVW-289

'KUSAM-MECO' has introduced a new wrist Type High Voltage Alarm Detector. Model KM-HVW-289 having a wide sensing range from 1kV-220 kV AC. This detector provides a safe, practical & convenient new type high voltage alarm device for close-electric operator. During live electric working, the safe distance between operator & live body should not be closer than the requirement of relevant working regulations.



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For More Details Contact :

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Email : sales@kusam-meco.co.in ; Website : www.kusamelectrical.com



PROLITE- BECAUSE BUYING GENUINE CERTIFIED PRODUCTS IS ONLY HALF WORK DONE

"Well begun is half done", is a popular saying. A solid start paves the way to victory, but victory is still not achieved until you cross the finish line. When you purchase Prolite products to secure your premises against mishaps like sudden power outages, fire emergencies or the like, you have only begun well well but the job is still not done.

Prolite Autoglo Ltd. is not just a manufacturer of world class emergency lights and signages but also an institution committed to educate and inform common people about how to keep premises safe 24x7 by optimum use of safe exigency products. The nature of the premises, the surroundings, and the use of the premises in question all need to be taken into account before installing Prolite emergency lights and signs. Prolite's team of experts study all these factors and coupled with the guidelines of the NBC tell you where to install what product and what nature of product is best suited for installation.

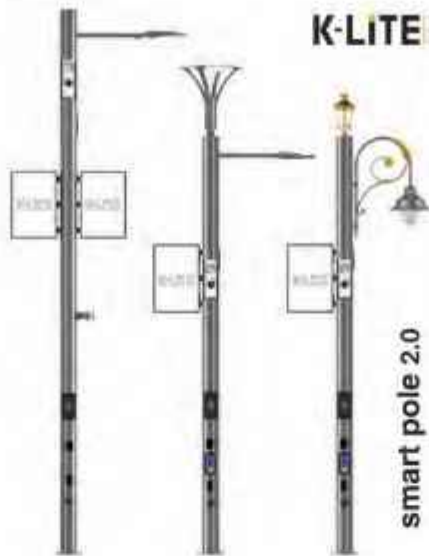
Residential premises and business premise face different nature of threats and hence, the products to be installed are never identical. For example, hazardous premises where the risk of fire of high temperatures would require flame resistant or flame proof products to be installed. Therefore chemical factories, godowns storing inflammable materials or firecracker or weapons units would need a whole new breed of exigency tools as compared to a mall or a housing society.

Another important factor is how many and where. The shape and size of the premises will determine how many lights, signs and related products would be ideal. Also, the locations of the installations would also differ. Here, Prolite's team will give you a clear picture as to what to buy and how many to buy. Thereafter, the team will identify installation points and when that is done and products duly fitted in place, the job is fully done. After all, "Well begun is half done", did not quite do it for the proverbial hare against the tortoise did it?

Smart Pole 2.0

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

In fact, the smart city pole is going to be a service platform for various services for Network redundancy,



application areas such as mobile connectivity WLAN), traffic control, security camera (CCTV), information transfer, public announcement with loud speakers, smart parking, environmental monitoring and even the electric charger for electric cars etc.,

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

Salient Feature of Smart City Pole

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



Suryawanshi D. R.
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Grand Opening of LEGRAND ZIP Store in Navi Mumbai

Location: Vashi Integrated Solutions, Turbhe, Navi Mumbai

The bustling city of Navi Mumbai welcomed a new milestone in its retail landscape on the 21st of March 2024 with the grand inauguration of the very first LEGRAND ZIP Store in the region. Situated within the premises of Vashi Integrated Solutions in Turbhe, this new establishment marks a significant expansion for Legrand India, a globally renowned



leader in electrical and digital building infrastructure.

The inauguration ceremony, graced by esteemed dignitaries including the CEO and MD of Legrand India, Mr. Tony Berland, was a momentous occasion symbolizing the company's commitment to delivering cutting-edge solutions and unparalleled customer experiences. Among the notable attendees were Mr. Samir Kakkar, Sales Director of Legrand India, and Mr. Sunil Patil, VP West of Legrand, whose presence underscored the strategic importance of this new venture.

Mr. Madan Dodeja, Founder Director of Vashi Integrated Solutions Ltd., took the stage to address the gathering, highlighting the significance of the LEGRAND ZIP Store for its clients. Emphasizing the importance of firsthand experiences, he articulated how customers now have the opportunity to immerse themselves in a world of world-class Legrand products, all conveniently housed under



one roof at this new Zip Store.

Mr. Suraj Dodeja, CEO of Vashi Integrated Solutions Ltd. also spoke on the Vashi vision and how this Zip Store perfectly fits into the scheme of things there.

The V-Serve Experience Centre LEGRAND ZIP Store boasts an impressive array of new range products, showcasing innovations designed to enhance comfort, convenience, and efficiency in both residential and commercial spaces. Among the featured highlights are the Living Now range of Wiring accessories, offering sleek design and advanced functionality to elevate any living



environment. Additionally, visitors can explore the latest in wireless and KNX Home Automation solutions, empowering homeowners with seamless control over their connected devices.

For industrial and multi-storey building applications, the store proudly presents Legrand busbar trunking, a robust and reliable solution for

efficient power distribution. With live demonstrations and expert guidance available onsite, customers can gain valuable insights into the versatility and performance of these innovative offerings.

The opening of the LEGRAND ZIP Store in Navi Mumbai signifies more than just a retail expansion; it represents a commitment to innovation, customer satisfaction, and the continued growth of Legrand's presence in India. As the doors swing open to welcome visitors, a new chapter begins in the journey towards a smarter, more connected future for homes and businesses alike.



This V-Serve Experience Centre is located in Turbhe at the Sagar Ratan Industrial Estate, on the main road, adjacent to Hotel IBIS.



Tata Power Leads E-Mobility Revolution in Ayodhya: Installs Charging Points Along Key Routes

Tata Power, a key player in electric vehicle (EV) charging infrastructure, has joined hands with the Ayodhya Development Authority (ADA) to make Ayodhya EV-friendly by installing EV charging points in and around the city. This partnership aims to expedite EV adoption and encourage sustainable transportation solutions.



These charging points will transform travel experiences for both residents and visitors, promoting the adoption of e-mobility and sustainable transport, particularly among pilgrims and tourists visiting the holy city.

Mr. Deepesh Nanda, CEO and Managing Director, Tata Power Renewable Energy Limited, said, "Today's milestone in completing the electric vehicle charging points

project with Ayodhya Development Authority signifies our commitment to a greener future. These stations epitomize innovation and environmental stewardship and sets the pace for our nation's journey towards Net Zero emissions. Together, we're shaping a sustainable tomorrow that benefits us all."



These EV charging points were unveiled at the Collectorate Office MLCP Parking in Ayodhya, in the presence of Mr. Gaurav Dayal, Commissioner of Ayodhya, and Mr. Ashwini Pandey, Vice Chairman of ADA. Representatives from Tata Power, including Mr. Deepesh Nanda, CEO & MD of Tata Power Renewable Energy Limited, Mr. Virendra Goyal, Head of Business Development (EV), and Mr. Ramkrishna Singh, Head of Business Operations (EV), also attended the event. The ceremony's highlights included the launch of four electric vehicles bound for major neighboring cities. This initiative strategically connects Ayodhya with nearby urban centers through the establishment of EV charging points along crucial routes such as Ayodhya to Lucknow via NH27, Ayodhya to Raebareilly via NH330, Ayodhya to Prayagraj via NH330, and Ayodhya to Gorakhpur via NH27.

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Website: www.novapowerquality.com

Control panels and switch gears play a crucial role in electrical installations



Safety: Control panels and switch gears help ensure the safety of electrical systems by providing mechanisms to isolate faulty circuits, control power distribution, and protect against overloads, short circuits, and other electrical faults. This is essential for preventing accidents, fires, and electrocution.

Control and Regulation: Control panels allow operators to regulate and control various aspects of electrical systems, such as voltage, current, frequency, and power distribution. This enables efficient operation and optimization of electrical equipment and processes.

Distribution: Switch gears facilitate the distribution of electrical power from the source (such as a generator or utility grid) to various loads or circuits within a facility or system. They allow for the selective routing of power to different areas or equipment, ensuring reliable and efficient distribution.

Protection: Switch gears provide protection to electrical equipment and circuits by interrupting or isolating power in the event of abnormal conditions such as overloads, short circuits, or voltage fluctuations. This helps prevent damage to equipment and minimizes downtime.



Monitoring and Metering: Control panels often incorporate monitoring and metering devices that enable operators to track key electrical parameters, monitor system performance, and identify potential issues before they escalate. This allows for proactive maintenance and troubleshooting, improving reliability and

reducing downtime.

Automation: Control panels are integral to automation systems, allowing for the implementation of advanced control strategies, remote operation, and integration with other systems such as programmable logic controllers (PLCs) or supervisory control and data acquisition (SCADA) systems. This enhances efficiency, productivity, and responsiveness in industrial processes and facilities.

Compliance: Control panels and switch gears are designed and installed in accordance with relevant electrical codes, standards, and regulations to ensure compliance with safety and performance requirements. Adhering to these standards helps mitigate risks and liabilities associated with electrical installations.

Overall, control panels and switch gears are essential components of electrical installations, providing safety, control, distribution, protection, monitoring, automation, and compliance to ensure the reliable and efficient operation of electrical systems across various industries and applications.



Industrial Control Panel Design Standards and Best Practices

Standards for Industrial Control Panel

Industrial control panels (ICPs) contain electrical devices and control devices. Because of the different types of components, several standards and regulations apply to ICP design, production, and installation. ICPs must comply with these standards to ensure safety and performance.

Below is a list of the most relevant standards that guide ICP design.

1. NFPA 70

The NFPA 70 is known as the National Electrical Code (NEC) and is issued by the National Fire Protection Association. The NEC code regulates the safe installation of components and wiring for all residential, commercial, and industrial electrical systems. Industrial control panels fall under the industrial electrical system category.

NFPA70 applies to electrical installations in all of the United States, but it is adaptable to meet additional local regulations at the state level.

NFPA70 is a comprehensive book, nearly 2,000 pages long. It covers many electrical topics extensively and should be approached with the full understanding that it requires electrical fabrication or engineering qualifications for most tasks.

Among some of the topics and definitions that can be found in the NEC are:

- Circuit protection.
- Safe clearances inside and around control panels.
- Voltage limitations: 600 V maximum for control panels.
- Wiring clearances, routing, and materials.
- Temperature ratings for electrical devices inside an ICP.
- Required signage and warnings.

2. UL 60947-4-1 and UL 508

UL60947-4-1 is the standard for industrial control equipment and is a result of the harmonization between IEC 60947-4-1 and UL 508. The Underwriters Laboratory issued this standard. UL 508 was, for many years, the key standard for control equipment in the United States, but many industrial equipment categories have been superseded by UL 60947 in a multi-year phase-out program. However, control equipment built before that year still complies with the entirety of UL 508.

Some of the areas of control equipment covered by UL 60947-4-1 and UL 508 standards are:

- Feeder sizing.
- Group motor design.
- Motor load individual circuits.
- Load circuits for heater and lighting load.
- Guidelines for power circuit wiring.
- Guidelines for control circuit design.
- Branch protection for control circuits.

3. NFPA 79

NFPA 79 is another standard from the National Fire Protection Association. This standard delves deeper into wiring regulations for industrial machines, including control panels that operate at 600 V or less.

NFPA 79 helps with the proper selection of wire sizes and provides guidelines for wiring installation, including the specifications for wire trays and conduits. NFPA 79 is a key

standard for ICP design, considering that space is usually constrained due to the numerous devices installed inside.

Best Practices for Industrial Control Panels

Now that we have reviewed the most important standards that regulate control panel design, let us look at some best practices. This section enumerates these best practices in no particular order.

General

- Ensure the panel has enough space to accommodate all devices, with sufficient gaps between them when needed. If the surrounding area is not a major concern, always design for proper spacing between components to improve heat dissipation and make future additions simpler.

- Similarly, ensure that wire trays and ducts are sized appropriately, considering the amount and size of the cable to be run through them.

- Label devices and wires. The benefits of quickly finding and tracing wires are underestimated. Sometimes, the single action of trying to locate a wire inside a panel can translate to long production outages. Unfortunately, there are still many panels out there that do not follow this practice. In many cases, the labels are lost over time and never replaced.

Electrical

- Proper electrical grounding is critical. Follow grounding rules established in the standards and use high safety factors when able to do so. Improper grounding is among the top causes of failure of control devices.

- Include auxiliary circuit breakers and fuses when possible. Breaking down and splitting power branches inside the ICP is preferred when the available space allows it.

- Use shielded cable.

- Separate sensitive devices and wires from high-power elements. For example, CAN bus and Profibus wires should not be near the main power supply cables. Electromagnetic noise from these cables can affect the transmission capabilities of control and bus cables.

- Install labels and warnings as required by the standards, and include additional warnings for residual risks.

Wiring

- Design using a CAD tool that helps optimize wiring routes. Doing this helps save on material costs and reduce wire installation time.

- Run wires vertically or horizontally, never diagonally. Never run wires in front of any devices.

- Use stranded wire whenever possible. Stranded wire provides better heat dissipation and bends more easily than solid wire.
- Leave sufficient wire slack for future use. Always conceal wire slack under the main wire way, never inside the wire routes near devices.

Control System Safety and Efficiency There are many considerations, standards, and regulations to designing an ICP for safety and efficiency, as ICPs are the core of a control system and play a critical role in a wide range of applications and industry sectors.

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