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इकॅमचा भव्य दिव्य शताब्दी महोत्सव

नमस्कार,

आपल्या सर्वसाधारण सभेनंतर झालेल्या संचालक मंडळाच्या मिटिंग मध्ये स्वीकृत संचालक, उपाध्यक्ष, सह. सचिव, खजिनदार, वेगवेगळ्या कमेटीचे चेअरमन, यांच्या नियुक्त्या करण्यात आल्या आहेत. त्याप्रमाणे सर्व मंडळी आपली जबाबदारी घेऊन कामाला लागली आहे. कमेटी स्थापण करणे ही कामे चालू आहेत.

सभासदांना मी आवाहन करतो की, संघटनेच्या कामकाजामध्ये सर्वांनी सहभागी व्हावे. पुढील वर्ष हे आपले शताब्दी वर्ष चांगल्या प्रकारे साजरे करणे हे आपल्यासाठी निश्चितच एक मोठी जबाबदारी असणार आहे. या दृष्टीने आपण कामाला लागलो आहोतच, शताब्दी समिती जोरदारपणे तयारीला लागली आहे. वर्षभर अनेक कार्यक्रम घेणे, उदघाटन आणि समारोप कार्यक्रम. स्मरणिका काढणे याचे नियोजन चालू आहे.

हे सर्व करित असताना, त्याबरोबर सभासद बंधूंना रोजचे कामकाज व्यवसाय करताना सार्वजनिक बांधकाम विभाग, राज्य विद्युत वितरण कंपनी, यासह इतर विद्युत पुरवठादार कंपन्या, तसेच वेगवेगळ्या विभागात कामे करित असताना अनेक अडचणींचा सामना करावा लागत असतो. याबाबत आपण या महिन्यात मा. मुख्य अभियंता (विद्युत), सार्वजनिक बांधकाम विभाग, मुख्य विद्युत निरीक्षक, महाराष्ट्र राज्य, कार्यकारी संचालक, महावितरण, मुंबई आणि परिसरात विद्युत पुरवठा करणाऱ्या वेगवेगळ्या कंपन्या तसेच वेगवेगळ्या महानगरपालिका यांच्या बरोबर मिटिंगचे आयोजन करणार आहोत.

आपणा सर्वांना मी विनंती करतो की, आपल्या अडचणी संघटनेकडे मांडल्यास त्यावर आपल्याकडील त्या त्या विभागाच्या समिती अभ्यास करून संबंधित विभागाकडे मांडता येतील आणि सोडविण्यासाठी प्रयत्न करता येईल.

नुकतेच अठरा ते बावीस फेब्रुवारी दरम्यान दिल्ली येथे Elecrama हे जागतिक पातळी वरचे मोठे प्रदर्शन पार पडले ते पाहण्याचा योग आला. यामध्ये अनेक राष्ट्रीय आंतरराष्ट्रीय कंपन्या सहभागी झालेल्या असल्याने चांगली माहिती प्राप्त झाली. अश्याच धर्तीवर पुढील वर्षी शताब्दी वर्षात भव्यदिव्य असे मोठे प्रदर्शन भरविण्याचे स्वप्न आहे. मला खात्री आहे आपल्या सर्वांच्या सहकार्याने हे सत्यात उतरेल यात तिळमात्र शंका नाही. या ठिकाणी IECT टीमचा आवर्जून उल्लेख करावासा वाटतो. त्या टीमचे आभार व्यक्त करतो. यांच्या सहकार्यामुळेच अनेक कंपन्यांचे संचालक व महत्त्वाच्या व्यक्तींना भेटता आले. हे आपल्याला शताब्दी वर्षासाठी फायद्याचे ठरणार आहे. आपणा सर्वांना नम्रपणे विनंती करतो की, आपण सर्वांनी संघटनेच्या कार्यात सहभागी व्हावे ही नम्र विनंती.

आपला स्नेहांकित,

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महासचिवांच्या कलमातून.....



तंत्रज्ञानातील प्रगतीचे प्रदर्शन : इलेकरामा

प्रिय सभासद बंधु-भगीर्नीनो,

नमस्कार!.

दिनांक १८ फेब्रुवारी ते २२ फेब्रुवारी या कालावधीत
ELECARAMA हे भव्य प्रदर्शन नवी दिल्ली येथे पार पडले. इकॅमच्या
वतीने आम्ही या प्रदर्शनास भेट दिली होती. हे प्रदर्शन म्हणजे विद्युत
क्षेत्रातील सर्व प्रकारच्या वस्तू आणि अद्ययावत तंत्रज्ञान यांचा महासंगम
असून या प्रदर्शनामधून आपल्याला बऱ्याच नवीन गोष्टी तसेच
तंत्रज्ञानाची माहिती अवगत होते. याच धर्तीवर आपल्या संस्थेच्या
शतक महोत्सवी वर्षात एका भव्य प्रदर्शनाचे आयोजन करण्याचा
आमचा मनसुबा आहे.

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अशासाठी बघायचे होते की, आपण आपल्या ग्राहकाला विद्युत
क्षेत्रातील नवनवीन वस्तू आणि अद्ययावत तंत्रज्ञान यांची माहिती देऊ
शकू व आपल्या व्यवसायात वृद्धी करू शकू.

सर्व सभासदांना कळविण्यात येत आहे की, सन २०२२-२०२३ हे
आर्थिक वर्ष संपत आले असून ज्या सभासदांनी आपली सन २०२२-
२०२३ ची वार्षिक वर्गणी तसेच जर मागील वर्षातील वर्गणीची
थकबाकी भरली नसेल त्यांनी ती लवकरात लवकर भरावी. तसेच
संस्थेतर्फे सभासदांची यादी अद्ययावत करण्याचे ठरले असून जर
आपला पत्ता, दूरध्वनी क्रमांक, मोबाईल क्रमांक तसेच ई-मेल
बदलला असेल तर आपण तो इकॅमला लेखी अथवा ईमेलद्वारे
ताबडतोब कळवावा.

देवांग ठाकूर

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The Editor's Desk



Hyper Active Elecrama 2023!!

There was hectic activity seen on the opening day of the 15th edition of Elecrama. People were physically meeting each other after a gap of three years. High response was evident from day one till the end on 22nd February. This was reflected in the speech of Mr Jitendra Agarwal, Chairman, Elecrama on the opening day. He mentioned about the roadshows arranged in India and abroad and said, "The next five days is a culmination of the journey and the findings which in turn, has led to such a stupendous response to this year's Elecrama."

The highlights of Elecrama can be briefly explained as successful events like eTechNxt, World Utility Summit, start up challenge, women in power and global ceo meet. The RBSM attracted 700 buyers from 75

countries. There were 15000 pre scheduled b2b meetings and 300 buyers from utilities like Railway, Defence, Real estate, Smart cities and PSUs.

The response at the registration counters was tremendous and people were coming right from 10am in the morning till 6pm on every day.

The Ecam and IECT teams were there from the first day and visiting stalls, meeting the owners and directors of various companies. The overall response was very encouraging and everyone expressed happiness for the opportunity of networking and business promotions.

The IECT team had a unique experience while taking video bites at several stalls. Many companies had introduced new products and services and they were explaining in detail. Savita oil's young director Siddharth Mehra was surprised to witness the response of the visitors. He had arranged 10 sitting positions for visitors in his stall. He was happy to say that the arrangements were falling short of expectations. This was the case almost everywhere. Many regular advertisers of IECT like RR, Polycab, HPL, Precision, Savita, Prolite, True Power etc were interacted and asked about the response. Everyone was extremely happy about the visitors, about the arrangements and the professionalism at the halls.

Shri Piyush Goyal, Minister for Commerce and Industry, rightly said "With this year's Elecrama focusing on reimagining energy for a sustainable future, I would like to stress on the need for quality over quantity, not only as our way of life but also as a defining factor for the future of this ever growing industry."





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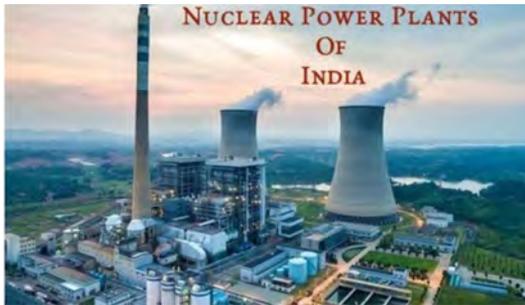
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MESSAGES :

- 06 PRESIDENT'S DESK
- 08 GENERAL SECRETARY
- 10 EDITOR'S DESK



- 11 ELEC RAMA 2023 : IEEMA's flagship event is off to a roaring start with a focus on new energies & sustainability
- 16 ELEC RAMA 2023: 2nd Edition of 'Women in Power' Begins with an Astounding Response from Global Leaders
- 17 IECT TEAM OF ELEC RAMA
ELEC RAMA 2023 : Shri Piyush Goyal, Hon'ble Minister of Commerce & Industry, kick-starts Day 4 with focus on start-up industries
- 18 Ecam team at Elecrama with MSEB Pune Zoom ne CE Mr Rajendra Pawar
- 22 India Plans 20 Nuclear Power Plants By 2031



RBI issues second tranche of sovereign green bonds worth Rs 80 billion
IREDA records a profit of Rs 2.01 billion in the quarter ended December 2022

- 23 AI For Electrical Efficiency & Conservation
NEWS

- 25 KPI Green Energy signs PPA to sell 8.35 MW solar power
IMC raises Rs 6.62 billion on first day of green bond issue
- 26 Greenko orders 140 MW electrolysers from John Cockerill
Uniper and Greenko sign MoU for green ammonia offtake to EU from India
GE Grid Solutions wins order to modernise 39 substations in Nepal
- 27 99th Year of ELECTRICAL CONTRACTORS' ASSOCIATION OF MAHARASHTRA (ECAM)
- 32 National Electrical Code of India 2023 (NEC 2023)

मराठी बातम्या / लेख

- 35 ऊर्जा विषयावर चर्चा व्हावी
- 37 जागरूक वीज ग्राहकांची परंपरा - अशोक पेंडसे
- 39 मैनेजमेंट का महाकुंभ : आइएमए के इंटरनेशनल कॉन्क्लेव में बोले प्रबंधन गुरु श्री श्रीगोपाल काबरा



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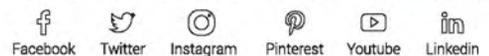
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ELEC RAMA 2023 :

IEEMA's flagship event is off to a roaring start with a focus on new energies & sustainability



Greater Noida, 18th February 2023: ELEC RAMA 2023, World's largest electrical show by IEEMA, kicked off to an electrifying start following a grand opening at the India Expo Mart, Greater Noida on 18th February 2023. The event was graced by chief guest Shri RK Singh, Union Minister of State (IC) Power, New & Renewable Energy; H.E. Zhemu Soda, Hon'ble Minister of Energy and Power Development, Zimbabwe, Mr. Satish Pai, Managing Director, Hindalco Industries; Mr. Jean Pascal Tricoire, Global CEO, Schneider Electric, along with Mr. Rohit Pathak, President, IEEMA; Mr. Jitendra K Agarwal, Chairman, ELEC RAMA 2023; Mr. Hamza Arsiwala, President-Elect, IEEMA, Mr Sunil Singhvi, Vice President, IEEMA, Ms Charu Mathur, Director General, IEEMA and several other dignitaries.

Shri RK Singh, Hon'ble Union Minister for Power and New & Renewable Energy, added, "I congratulate IEEMA on kickstarting the ELEC RAMA 2023 - the 15th edition of world class exhibition of electrical, industrial electronics and allied industry - with a star-studded inaugural ceremony. In the past 5 years, we have brought great transformational changes in our industry. We are committed to being climate-friendly and we are aggressively going ahead with our Hon'ble Prime Minister's belief in ensuring a healthier planet. I am pleased that the focus of ELEC RAMA 2023 is on energy transition and future technology which is in line with the Government of India's 'Vision for India@2047'. We

are aspiring to become a 5 trillion-dollar economy and we are one of the fastest-growing economies in the world. Electricity is the most significant contributor to the energy requirement of the country. I am proud to see the journey and growth of the industry. I feel ELEC RAMA 2023 remains pivotal in helping us identify future challenges and subsequently find innovative solutions to overcome them. I look forward to meeting the startups participating in the exhibitions and wish IEEMA all the best for its five-day flagship event."

Kickstarting the proceedings of the 15th edition of ELEC RAMA 2023, Mr. Rohit Pathak, President, IEEMA, said, "We're privileged to have the presence of the Hon'ble Power Minister and two top industry leaders at

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Architectural Lighting

K-LITE INDUSTRIES an ISO company, manufacturing indoor and outdoor luminaires have launched a new series of LED Architectural Lighting. Being the trend setters in outdoor lighting and inspired by the “Make in India” vision, K-LITE, through their innovative outlook, have showcased an all new product portfolio under Architectural Lighting. The application includes Facade Lighting, Pathway Lighting, In-ground Luminaire, Up-down Lighting, Billboard Lighting, Vertical Light Bars, Wall Washers, Area Lighting poles and above all popular sleek polar lighting solutions.

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ELECRAMA 2023. This decade, and perhaps even this century, belongs to India. The transition to Green Electricity as the main source of energy has provided us with an excellent opportunity to Self Reliant on Energy and to Lead the World on some of these new technologies with the scale India provides. Aaj Bharat AatmaNirbhar ho raha hai, aage Vishwa Bharat par Nirbhar hoga (Today, India is becoming self-dependent and, in future, the world will depend on India). We believe that these new technologies will require a lot of innovation, and hence we have created a startup platform at IEEMA called ElectraVerse Spark to allow them to "plug into our world of energy" in a seamless manner.

Given the government's vision pertaining to the sector, we, at IEEMA, have also aligned our Industry Vision for 2047 with the country's future goals. Acting on the vision, this year's ELECRAMA will focus on creating a platform to showcase products & solutions in new energies; discussion forums on R&D and innovation in new technologies; in addition to generation, T&D, and building electrical products. With a greater emphasis on providing quality power and identifying innovative solutions, we, at the behest of ELECRAMA 2023, intend to contribute towards making India Atmanirbhar, Green and Energy independent."

Talking about the evolution of the flagship event over the years, Mr. Jitendra K Agarwal, Chairman, ELECRAMA 2023, said, "In the last 12 months, we organised 11 roadshows in India and overseas across major electrical industry clusters to identify the hunger for its persistent growth. The next five days is a culmination of the journey and findings which, in turn, has led to such a stupendous response to this year's ELECRAMA. The 15th edition of the mega event is bolstered with special concurrent events such as eTechNxt, World Utility Summit, ELECTRAVERSE start-up challenge, special presence of women in power, and global CEOs in attendance. Furthermore, we're expecting 700 buyers from 75 countries in RBSM, 15000 pre-scheduled b2b meetings, and 300 buyers from Utilities, Railways, Defence, Real Estate, Smart Cities, and large PSUs. Therefore, ELECRAMA 2023 is a true reflection of the capabilities and aspirations of the Indian electrical industry."

Mr. Jean Pascal Tricoire, Global CEO, Schneider Electric, said, "We, at Schneider Electric, consistently strive to identify future challenges and find probable solutions in our persistent bid to contribute to the electrical industry. Our vision is aligned with India's future goals as it continues to break new ground in the power sector. As the country's energy landscape continues to grow, we would continue to support rising India on its exciting journey of electrification and digitization. Invited to attend a flagship event that is credited for inspiring new ideas and innovations in the industry, I am elated to be here at the 15th edition of ELECRAMA that started with an exciting and equally entertaining inaugural ceremony. I wish IEEMA good luck for what promises to be yet another dazzling ELECRAMA edition."

Mr. Satish Pai, Managing Director, Hindalco Industries, said, "At a time when global efforts are being driven to help realise our collective vision of a sustainable future, we must embrace sustainability as a way of life before expecting it to become a way of doing business. As we find new ways of negating uncertainty and future challenges, the coming decade will witness the adoption of numerous innovative, tech-enabled solutions especially in the field of sustainability which will allow corporations to implement initiatives in a better and more effective manner. At ELECRAMA 2023, I am expecting exhibitors to showcase their ideas and innovations to contribute towards creating a future roadmap for a sustainable future."

The biennial electronics congregation, with 'Reimagine Energy – For Sustainable Future' as this year's theme, will have the largest public showcase yet of industry innovations by over 1000 exhibitors from India and abroad occupying 1,10,000 sqm of exhibition space over the course of next five days. The much-anticipated event is expected to witness 3,50,000 footfall and over 15,000 pre-scheduled meetings between buyers and sellers.

Completing 33 years of being the only industry platform of its kind, ELECRAMA 2023 is supported by the Ministry of New and Renewable Energy, Ministry of Power, Ministry of Heavy Industries and Public Enterprises, and Ministry of Micro, Small, and Medium Enterprises. While Uttar Pradesh is the host state partner, Germany is the country partner in the 15th edition of the initiative.



DON'T BE SAFETY BLINDED, BE SAFETY MINDED

90% of fires are due to electrical short circuits.



TOTAL NO. OF DEATHS IN INDIA
DUE TO FIRE ACCIDENTS
(SEPT' 2021)

27027**

DEATHS CAUSED DUE TO FIRES IN A YEAR, IN INDIA

During fire breakouts regular power cables lose their circuit integrity in no time, causing the emergency systems to shut down completely and hinder the evacuation **process**.

High Performance Fire Survival Cables from Ravin, withstand fires to **keep emergency systems, elevators & lighting systems running** and allow enough time for safe & easy evacuation.



Circuit integrity at 950⁰ C keeps systems running for over 3 Hours*
*Size specific duration



More than 90% visibility under fire conditions



Less than 10% reduced smoke emission and toxic gasses



Water jet 12.5lit/m functions smoothly under water spray



**Source: nistinstitute.com - 17/Sep/2021

ELECRAMA 2023: 2nd Edition of 'Women in Power' Begins with an Astounding Response from Global Leaders

New Delhi, 19th February 2023: Women empowerment dominated Day 2 of *ELECRAMA 2023*, world's largest electrical show of Indian Electrical & Electronic Manufacturers' Association (IEEMA), as the second edition of 'Women in Power' - a special initiative aimed at celebrating women in the power segment - got off to a spectacular start at the India Expo Mart, Greater Noida on 19th February.

This year's Women in Power featured a series of engrossing and inspiring conversations from the leading ladies of the power sector across various domains including the likes of **Ms Lakshmi Singh, Police Commissioner, Gauam Budh Nagar, Ms. Charu Mathur, Director General, IEEMA, Arya Satyanarayan Director of Venson Electric Private Limited and Chairperson Women in Power Committee of IEEMA, Renuka Gera Director (Industrial Systems and Products) Bharat Heavy Electricals Limited (BHEL** and several other dignitaries.

Ms Lakshmi Singh, Commissioner of Police, Gautam Budh Nagar, said, "In the modern world, gender inequality is recognized as a major constraint to economic growth. Thus, we're witnessing accelerated efforts to promote women's participation in leadership roles. When it comes to the power sector, the participation of women - especially in realizing the goals of a sustainable economy - remains pivotal. Since India is rapidly establishing itself as the new hub for sustainability, harnessing the power of women across roles in the energy sector is integral to realizing the country's vision. Having participated in such a thought-provoking session at *ELECRAMA 2023*, I hope our 'Women in Power' pavilion promotes gender equality which, in turn, can boost innovation in the energy industry."

Mr. Rohit Pathak, President of IEEMA, said, "Power and energy sector remain a major contributor to the economic growth and development of our country. With India being the world's third largest producer of electricity, the participation of women in the power sector needs to increase. As the energy sector moves towards innovative clean energy solutions to pave the way for a sustainable future, the industry can leverage the untapped talent pool of highly-skilled women workforce by increasing employment opportunities for them. Our Women in Power initiative was

conceived to fulfil that and more. This year's edition will continue to bring forth the voices of global women leaders pertaining to their industrial experiences and journeys, inspiring others and increasing participation in the sector."

Ms. Charu Mathur, Director General, IEEMA, said, "The last edition of *ELECRAMA* saw the introduction of the 'Women in Power' pavilion which was the much-needed stepping stone for the formation of 'Women in Power' chapter in IEEMA. We're now well-equipped and more structured to connect career-oriented women in Power and Energy with like-minded individuals to discuss and overcome challenges in the ever-changing work culture. This year's edition of Women in Power will continue to deliver on its promise of bringing women leaders under one roof and giving them a platform to discuss workplace challenges for a better future. With this special initiative, we're looking to inspire more women to choose the electricals and electronics industry as an attractive career choice in India."

Arya Satyanarayan Director of Venson Electric Private Limited and Chairperson, IEEMA WIP- said, "Today, gender equality remains an unfinished business in every country in the world, which is why companies should be more focused on employing more women starting with hiring more female students so that the talent stays in the industry. Along with this, I think creating a healthy and safe environment is also an important aspect of any company which will help maintain a work-life balance for women and foster an inclusive work culture. I am happy to see that *ELECRAMA 2023* is focusing on such significant issues that India is facing today regarding women empowerment and I hope we all get to see the change soon."

Renuka Gera Director (Industrial Systems and Products) Bharat Heavy Electricals Limited (BHEL), said, "I believe in today's world, strength and power are not identified by gender. That's why there is a greater emphasis being laid on gender equality with the promotion of women in leadership roles becoming the need of the hour. Recent studies also suggest that the Indian economy will grow by 25% with an increase in the participation of women. Additionally, 43% of women are contributing globally to the development. These are valid indicators of the influence highly-skilled women can have on contributing towards a sustainable economy."



IECT TEAM OF ELECRAMA



IECT Team : Kaushal Bali, Satish Sinnarkar, Ashish Rajeshirke and Subhash Jadhav



Inauguration of Elecrama



Satish Sinnarkar with Shri Anil Saboo & Electrolites



Satish Sinnarkar With Shri Vaibhav Shukla of Automatic Electric



Satish Sinnarkar With Shri Gautam Seth of HPL

ELECRAMA 2023

Shri Piyush Goyal, Hon'ble Minister of Commerce & Industry, kick-starts Day 4 with focus on start-up industries



Greater Noida: The fourth day of ELECRAMA 2023, the biennial electricals and electronics showcase of Indian Electrical & Electronic Manufacturers' Association (IEEMA), witnessed an engrossing interaction session with **Shri Piyush Goyal, Hon'ble Minister of Commerce & Industry, Govt. of India** at the India Expo Mart, Greater Noida on 21st February 2023. The session was also graced with the presence of 12 start-up firm leaders whose organisations were shortlisted for this year's much-anticipated 'Electraverse Spark' competition. The ceremony saw key dignitaries like **Mr. Rohit Pathak, President, IEEMA; Mr. Hamza Arsiwala, President-Elect, IEEMA; Mr. Sunil Singhvi, Vice-President, IEEMA** indulging in an open interaction with global industry leaders and experts in attendance.

Shri Piyush Goyal, Hon'ble minister of Commerce and Industry, Govt. Of India, said, "I am very

thankful to IEEMA for bringing out opportunities for new startup industries through their first-of-its-kind 'Electraverse Spark' startup challenge. We must facilitate new programs and initiatives in small cities of north-eastern India including the likes of Jabalpur among others. When it comes to the Indian electrical industry, we've already done exports amounting to 10 million dollars and now aim to reach the 25-million-dollar mark in future. With an acceleration in global efforts towards creating a sustainable future, I recommend the US and UK to exhibit events akin to ELECRAMA 2023 to contribute more efficiently towards the world's sustainability needs. With this year's edition of ELECRAMA focusing on reimagining energy for a sustainable future, I would like to stress on the need for quality over quantity, not only as our way of life but also as a defining factor for the future of this ever-growing industry."



ECAM team at Elecrama with MSEB Pune Zoom ne CE Mr Rajendra Pawar

It was my pleasure to escort MESB Pune Zone CE Mr Rajendra Pawar sir at Elecrama.

We visited C-sec, RR Cables, KEI Cables, Avocab , HPL, Polycab, Lucy, Finolex, Seimens, Ashlok, C D vacuum, L&T, Schneider Electrical and many more .

It was great experience to have whole day with CE and meeting with all dignitaries as well.

Thanks to ECAM Pune and Amar sir. Yogesh Pawar, Pune



ECAM & IECT GROUP AT ELECRAMA





THE COMPLETE SOLUTION

OFFICE & COMMERCIAL LIGHTING SPECIALISTS

FEATURES

- ✓ Available in 2 sizes:
 - 300mm x 1200mm
 - 600mm x 600mm
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- ✓ Low Glare Rating (UGR <19)
- ✓ Slim, Low-Profile Design
- ✓ 80+ CRI (Colour Rendering Index)
- ✓ Optional Phase Cut & DALI dimming variants available
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The Venture Lighting LED Panel series is an economical and versatile lighting solution perfect for commercial applications like education, retail and office environments. This ultra-thin and lightweight LED panel offers balanced light distribution and quick, easy in-ceiling installation.

Optional Phase Cut & DALI dimming variants available

Vivad Se Vishwas I - Relief for MSMEs

No.F.1/1/2023-PPD Government of India Ministry of Finance Department of Expenditure Procurement Policy Division
264-C, North Block, New Delhi.
6th February, 2023.

Office Memorandum

Vivad Se Vishwas I - Relief for MSMEs

Government has been getting many references from Micro, Small and Medium

Enterprises (MSMEs) regarding difficulties being faced by them in the last two years due to COVID 19 pandemic. The Government had provided certain benefits to the industry (including MSMEs) in Government contracts in the past.

2. In order to further support MSMEs, it has been decided to provide relief in all contracts for procurement of Goods and Services, entered into by any Ministry/ Department/ attached or subordinate office/ autonomous body/ Central Public Sector Enterprise (CPSE)/ Public Sector Financial Institution etc with MSMEs, which meet the following criteria:
 - (i) The contractor/ supplier should be registered as a Medium, Small or Micro Enterprise with Ministry of MSME, as on 31.03.2022.
 - (ii) The original delivery period/ completion period was between 19.02.2020 and 31.03.2022.
3. For the MSMEs which meet the specified criteria, the following reliefs shall be provided:
 - (i) 95% of the performance security forfeited from such firms shall be refunded. (ii) 95% of the Bid security (Earnest Money Deposit), if any, forfeited from MSME firms in tenders opened between 19.02.2020 and 31.03.2022 shall be refunded. (iii) 95% of the Liquidated Damages (LD) deducted from such firms shall also be refunded. LD so refunded shall not exceed 95% of the performance security stipulated in the contract.
 - (iv) In case firm has been debarred only due to default in execution of such contracts, such debarment shall also be revoked, by issuing an appropriate order by the procuring entity. However, in case a firm has been ignored for placement of any contract due to debarment in the interim period (i.e. date of debarment and the date of revocation under this order), no claim shall be entertained. (v) No interest shall be paid on such refunded amount.
4. Government e-Marketplace (GeM) shall provide an online portal for the purpose implementation of this order. Broad functionality of the portal shall be as follows:
 - Step 1: GeM shall provide functionality to MSME Vendors to register on the portal through its authorized personnel.
 - Step 2 : The registered contractor shall list out the applicable contracts on the portal. The list of the procuring entities shall be available only through drop down menu, which should be changed only with the approval of DoE. The details of the dispute should contain atleast following details: contract number, contracting authority, paying authority, Deducted/ forfeited amount.
 - Step 3 : GeM portal shall intimate through email to nodal officers of each procuring entity to verify the claim of the MSME vendor.
 - Step 4 : The nodal officer of the procuring entity shall after due diligence and refund of due amount as per this order shall update the portal with the amount, date and transaction details of the payment.
 - Step 5: Reports to track pendency in each procuring entity shall be provided by GeM.
5. The date of commencement of the scheme shall be notified separately.

006/02/2023 (Kanwalpreet)
Director(PPD)

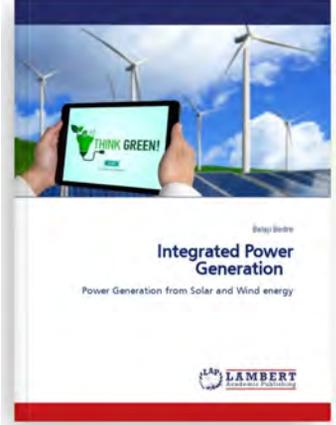
Tel. No. 2309 3811; email : kanwal.irss@gov.in

इकॅम सदस्य प्रा. बालाजी बेद्रे लिखित Integrated Power Generation या पुस्तकाचा परिचय

कुठल्याही देशाच्या सामाजिक वा आर्थिक प्रगतीसाठी त्या देशाची स्वतःची अशी खात्रीशीर किंवा भरवशालायक विद्युत पुरवठा प्रणाली असणे अत्यंत आवश्यक आहे. कारण मोठमोठे कारखाने, हॉस्पिटल्स किंवा अन्य यंत्रणा या सर्वांना अखंडित विद्युत पुरवण्याची आवश्यकता असते.

अशाप्रकारे अखंड विद्युत पुरवठा करणारी यंत्रणा केवळ पारंपारिक ऊर्जा निर्मितीतून उभी करणे अवघड आहे. किंवा असे म्हणता येईल की, आता हे पारंपारिक स्रोत संपण्याच्या मार्गावर आहेत. मग त्यासाठी या पारंपारिक ऊर्जा निर्मितीला अपारंपारिक (Renewable) उर्जा निर्मितीची जोड देणे गरजेचे आहे किंवा दोन प्रकारच्या अपारंपारिक उर्जा निर्मिती यंत्रणांना एकत्रित करून जास्तीत जास्त अखंडित विद्युत पुरवठा कसा करता येईल ते पहाणे किंवा असे प्रयोग करणे गरजेचे आहे.

सदरील पुस्तकात अशाच प्रकारे दोन अपारंपारिक उर्जा स्रोत एकत्र आणून त्यापासून उर्जा निर्मिती कशी होऊ शकते व त्यापासून खात्रीशीर, अखंडित विद्युत पुरवठा कसा प्राप्त करता येऊ शकतो त्याचा लेखाजोखा वर्णित केला आहे. तसेच ही निर्मिती कितपत विश्वासाहार् आहे ते पाहण्यासाठी निर्माण झालेल्या उर्जेचे पृथःकरण करून, अशाप्रकारच्या उर्जा निर्मिती प्रयोगातून अखंडित विद्युत पुरवठा मिळवला जाऊ शकतो, हे सप्रमाण सिद्ध करून दाखवले आहे.



श्री. बालाजी बेद्रे यांचा परिचय

श्री. बालाजी बेद्रे हे गेली २० वर्षे विद्युत अभियांत्रिकी क्षेत्रात प्राध्यापक म्हणून कार्यरत आहेत. त्या माध्यमातून त्यांचे विविध Research Papers राष्ट्रीय तसेच आंतरराष्ट्रीय स्तरावर प्रकाशित झाले आहेत. त्यांनी विद्युत अभियांत्रिकी विभाग प्रमुख, तसेच Academic Dean म्हणून विविध अभियांत्रिकी महाविद्यालयात काम केले आहे.

नुकतेच मे. ग्रीन लीफ एनर्जी सोल्युशनच्या माध्यमातून त्यांनी इलेक्ट्रीकल कॉन्ट्रॉलिंग क्षेत्रात पाऊल टाकले आहे. तसेच ते इलेक्ट्रीकल कॉन्ट्रॉलर्स असो. ऑफ महाराष्ट्र (ECAM) चे आजीवन सदस्य असून त्यांनी त्यांच्या फर्मची नोंदणी पुणे विभागाअंतर्गत केली आहे. Renewable Energy Sources (अपारंपारिक ऊर्जा स्रोत) हे त्यांचे आवडीचे कार्यक्षेत्र राहिले असून त्या अनुषंगाने त्यांनी Integrated Power Generation नावाचे पुस्तकही लिहिले आहे. त्यांचे हे पुस्तक आंतरराष्ट्रीय स्तरावर प्रकाशित झाले आहे. सदरील वापरात आणले गेलेले दोन उर्जा स्रोत, पवन ऊर्जा (Wind Energy) व सौर ऊर्जा (Solar Energy) हे आहेत. या दोन नैसर्गिक मुबलक स्रोतांचा वापर करून पूर्ण वर्षभर अखंडित उर्जा निर्मिती केली जाऊ शकते, हे सांगण्याचा एक प्रामाणिक प्रयत्न केला आहे.



PSE approves Alternergy's PHP1.87 billion IPO

Alternergy Holdings Corporation's (Alternergy) PHP1.87 billion initial public offering (IPO) has been approved by the Philippine Stock Exchange (PSE).

This includes 1.15 billion of primary common shares valued at PHP 1.48 per share and the company has an option to sell another 115 million primary common shares. The shares will be traded under the stock symbol ALTER. Listing date has not been announced as of yet. Alternergy plans to use the proceeds to finance works on its ongoing renewable energy projects including the Solana solar and Lamut hydropower projects, and pre-development cost of projects including the Ibulao hydropower, Tanay wind project, Alabat wind project, Calavite offshore wind project and Tablas Strait offshore wind project. The remaining amount will be used in payment of debt on the acquired Kirahon Solar Energy Corporation.



India Plans 20 Nuclear Power Plants By 2031

Though it still has only a single-digit share in total electricity production, India has been looking to tap nuclear power faster.

Recent government announcements on accelerating the use of nuclear power in India suggests a significant increase in the pace.

Earlier in January, Union Minister Jitendra Singh said that public sector companies would be roped in to help build plants.

Plans are afoot to commission at least 20 nuclear power plants by 2031, according to a December Lok Sabha reply.

India has historically taken more than a decade to get plants in action, shows a *Business Standard* analysis of data from the International Atomic Energy Agency.

The median construction time for nuclear plants -- which is the average construction time taken from the first pouring of concrete for the construction of the plant to the time it connects to the grid -- in India is 14.2 years.

In comparison, it takes 5.7 years to connect a plant to the grid in China (see chart 1).

Though it still has only a single-digit share in total electricity production, India has been looking to



tap nuclear power faster by building plants in fleet mode.

Such plants are built in five years from the first pour of concrete.

In 2021, 3.2 per cent of the electricity produced in India was from nuclear sources, an increase from 2.8 per cent a decade ago (see chart 2).

India's share in the global nuclear production has doubled from 0.8 per cent to 1.5 per cent in the same period (see chart 3).

According to a pre-pandemic estimate by the International Energy Agency, an inter-governmental organisation that helps with policy recommendations in the energy sector, global nuclear power production will grow by 46 per cent by 2040 and 90 per cent of this increase in generation will take place in India and China.



RBI issues second tranche of sovereign green bonds worth Rs 80 billion

The Reserve Bank of India (RBI) has issued the second Rs 80 billion tranche of sovereign green bonds on February 9, 2023.

The tranche included Rs 40 billion each of 5-year and 10-year notes. The 10-year bond was sold at a cut-off price of 7.2965 per cent, while the 5-year bond was sold at a cut-off price of 7.2304 per cent. The proceeds will be deployed in public sector projects that will help

in reducing the carbon intensity of the economy. Notably, the first Rs 80 billion tranche of green bonds was issued on January 25, 2023, wherein the 10-year bond was sold at a cut-off price of 7.29 per cent, while the 5-year bond was sold at a cut-off price of 7.10 per cent. Following this auction, the RBI has successfully completed the Rs 160 billion worth of green bond issuances that were earmarked for the current financial year. The second tranche of the government's sovereign green bonds saw its premium – or 'greenium' – narrow slightly compared to regular government bonds.

IREDA records a profit of Rs 2.01 billion in the quarter ended December 2022

Indian Renewable Energy Development Agency Limited (IREDA) has recorded a net profit of Rs 2.01 billion for the quarter ended December 2022, an increase of 87.85 per cent over the net profit of Rs 1.07 billion recorded in the same quarter of

previous year.

The company's consolidated total income has increased by 16.96 per cent to Rs 8.69 billion in the quarter ended December 2022 from Rs 7.43 million during quarter ended December 2021.

AI For Electrical Efficiency & Conservation

Preface:

As we are aware that alarm bell is ringing for human habitat on earth because of rise in earth temperature, change in Climatic condition, increase in pollution. Due to which there is adverse effect like drop in ground water levels, floods, storms, increase in green house emission layer, ozone depletion, increase in earth temperature, melting glaciers, increase in diseases etc. are seen. Hence green, sustainability, net zero etc. initiative has started. This includes usage of renewable energy, recycled water, energy star equipments, efficient process to reduce waste, maximum usage of day light in work area etc. And there are good results out of it but it is long road to go. More and more measures are to be taken for normalization of situation. For which new upcoming 'technologies' are required to be used excessively. One of the technologies, is AI (Artificial Intelligence). This article gives overview of AI and usage of AI in electrical installation for electrical energy conservation.



Ajit N. Kulkarni

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

Industrial revolution:

Before going in AI, we can understand trends in industrialization. Presently we are in fourth revolution of industries. Earlier in ancient days human beings' self and by the help of animals were doing the work. First revolution happened wherein steam or water operated machines were used to do production or any work. Subsequently electricity, gases, oil were used in manufacturing process. Telephones and communication equipments were put into service. So mass production started in this stage. This can be termed as second industrial revolution. Next stage was of computer era. In this digitalization, programing, computers, PLC etc. along with advanced digital telecommunications were used in manufacturing. So also, basic level robots or robotic machines were put in to service. This can be termed as third revolution. And now fourth industrial revolution is happening which is Industry 4.0.

Industry 4.0:

Computers in machines are now interconnected and started communication with each other and take decisions without human interference. So, machines are becoming smart and factories used such machines are termed as smart factories. Machines are now collecting more and more data, making less wastages, scheduling mass delivery, analyzing real time data, managing supply management, inform predictive maintenance, indicating likely failures and over all they give high efficiency. This can be achieved through

new things like Embedded system, ML, IoT, IIoT, AI etc.

Embedded System- In these machines will have hardware installed and software is embedded on it. Basically, it is microprocessor-based system which is designed to perform a specific task. e.g., Power demand controller, UPS, Chillers, fire alarm panel etc.

ML- Machine Learning (ML) computer predicts or take decisions using historical data with less programing. ML works on algorithm those formed by own using historical data. Once large quantities of data given then checks very quickly, use algorithm which is changing over time and do better in what was earlier. e.g., In industry from various machines large size data is collected and then analyzed which at human level cannot be done so quickly. In such case ML can indicate problem and decisions can be taken by human level.

IoT- The Internet of Things (IoT), it is network of physical objects or devices can be said as 'things'. In these 'things' there are sensors, software, technologies are embedded. And they can connect and exchange data with other devices and systems over the internet. Such devices can be ordinary household objects to sophisticated industrial machines.

IIoT- The Industrial Internet of Things (IIoT). It is same as IoT but used in industrial application. In this sensors, embedded technology machines and cloud computing is done. It is used in manufacturing, Retail, Healthcare, Building management, Logistic, Utilities, safety, business, agriculture and many more.

AI- Artificial intelligence is computer system tries to

think as human intelligence. For doing so it uses algorithms and not programs which works with their own intelligence. e.g., Self-Driving Vehicles, Digital Assistants like Alexa of Amazon who can do various digital task, Robots for doing cleaning delivery etc., transportation like Uber efficient ride sharing, recommending restaurants, market place etc.

In short, out of many functions being done in AI, one of the important functions can be looked as improvement in system efficiency. As energy is major inputs for economic development of any country. Hence in case of developed country energy sector is very vital and huge investment is required to meet the same. So, opportunities are ample in electrical sector to conserve the electricity and improve the system efficiency.

Scope of improvement in system efficiency:

By and large System efficiency can be improved by-

- 1) Recording- measure and record the readings
- 2) Analyzing- usage pattern, energy utilized and targets, outputs, benchmarks, sanctioned figures
- 3) Target setting- To set targets
- 4) Controlling-measures to be taken, calculate implement, then keep checks
- 5) Monitoring- monitors if the targets are meeting or not, corrections if required, reset the targets and re-monitoring
- 6) Reporting- Reporting for results obtained

This can be achieved through Digital metering, digital platforms, IBMS, IoT and AI. Actively practice can achieve the desired results of improved efficiency. By effective use of AI, many system efficiency improvement measures can be done in electrical work. Few examples are given below.

1) Motor – Less power will be drawn by high energy efficient motor. Whereas more power will be drawn by less energy efficient motor. Hence there is large scope of energy conservation, wherever motors are used. In this digitalization can in put in service to measure input current automatically and analyze the efficiency. Further it can give alert to plant engineer for replacement and no necessity to do audit or calculations. Accordingly, one can verify the rotating machines loading and replace more energy efficient motors. Similarly, one can carry out reactive management at motors level, replace windings of large motors wherever possible to reduce losses, use variable frequency drives to reduce losses at starting and in running conditions of motors. Plant engineer can carry out schedule maintenance in time which will reduce extra losses if happening. Breakdowns can be avoided by predictive maintenance. These are few things which can be done by plant engineer which otherwise was not possible easily and effectively.

2) Lighting Management System- LMS and sensors like day light sensors, occupancy sensors, lux sensors, scheduling, lux level optimization etc. can verify daylight available, occupancy and dim the lights

which will reduce energy consumption. Additionally predictive lighting level, free meeting rooms, free desking, traffic analysis etc. can be done.

3) HVAC- HVAC consumes highest electricity in any commercial spaces. So, lot of scope of conservation is available in HVAC. Replacement of Motors in AHU with high efficiency motors, usage of VFDs for AHU, Soft starters for Chillers, VRF instead Dx, Chiller management, Machine maintenance etc. will be done effectively. Additionally, any one will get failures notice, maintenance schedule, filter clogging, shaft breakdowns, leakages, water management, water quality, CO₂ levels etc. due to AI technology.

4) Reactive and Harmonics management- In this power factor and harmonics at desired level needs to be achieved. If not achieved then penalty will be levied. Hence pf improvement capacitors, detuned reactors, active harmonic filters etc. are used. For getting proper results selection is important. At the same time this is now becoming easy by selecting proper product with high analytical controller which senses real time parameters and do the corrections.

5) MD management- Optimal use of Maximum demand is important from billing point of view and should never exceed than sanction and also should not underutilize. Else heavy penalty will get attracted and under capacity utilization happens. So digital meters with IBMS and advance energy management software measures, take decision, adjust and maintain stable electrical network.

6) Renewable energy- Wherever possible use renewable energy as alternate source or net metering to reduce billing figures. While doing so energy management plays critical path which is now possible with advance energy software.

7) Transformers, Switchgears- In transformers by using sensors in core, windings, oil, tap changers smart features can be added. With these failures are known in advance and also predictive maintenance notice can be obtained. So also, by using energy efficient transformers losses can be reduced. In case of switchgears, digitalization is taking place. Due to which information about loading of switchgears and failures of parts can be easily received which was not possible earlier.

8) Smart Grids- Reduction in transmission losses, voltage regulation, loading, transferring power etc. is feasible due to advanced AI technology. Further development towards creation of micro grids to reduce losses and connection to main grid is now possible due to digitalization.

In short there are many applications and scope for further improvement in electrical distribution system.

Hence by using AI, system efficiency can be increased in future in residential buildings, industries, data centers, commercial complex etc. Positive effect of this will be energy efficient, less greenhouse emission, net zero and sustainable buildings.



BARE BASICS OF FIRE SAFETY – IS IT TOO MUCH TO ASK?

Residential spaces in India are subjected to fire hazards due to a variety of reasons like faulty layout, dearth of right instruments, poor or inferior wiring and mostly, lack of awareness. According to a 195-nation analysis conducted in the year 2017, India recorded 1.6 million fires and 27,027 deaths in a year. The risk is higher in residential buildings especially in high-rise apartments because evacuation is trickier.

Due to congestion, cheek to jowl housing has mushroomed in big cities and these are not just fire risks but also choke exits and escape routes in case of an incident.

Fire safety audit should be an effective way for the assessment of fire safety norms and standards and these also help in checking the fire safety infrastructure of the buildings that have received their completion of occupation certificate. But strict adherence, even in elite constructions is scarcely followed.

The National Building Code (NBC) suggests a periodical fire safety inspection by the residents of the buildings in order to assure safety standards. The residents are advised to carry on fire safety audits every half-yearly and submit the report to the regulated fire department. There are also a set of detailed guidelines for developers to follow in order to ensure that the fire safety infrastructure is executed at the time of construction of any residential building as well as during the course of maintenance of the building.

Yet, even these basics are often not observed practically. Fire safety becomes so much easier if basics are observed. We hope that in 2023 there will be greater compliance and adherence at least on these bare basics.

INFINITE EMERGENCY LIGHT – TOMORROW'S



Partially Back-up on single power connection



Infinite & Versatile



INFINITE EMERGENCY LIGHT

Prolite Autoglo Ltd. has been known for its innovative and pioneering work. As times change, so do needs of safety at various locations. Prolite Autoglo is pleased to announce the arrival of its new innovation called **INFINITE EMERGENCY LIGHT**.

The literally 'never ending' infinite emergency light is an idea where in the case of power failure some lights remain unaffected while some shut down along a linear sequence of lights.

Infinite also means that this product is a flexible and versatile one where it can cover not just square feet but square miles if required. The product, as shown in the pictures, is tubular and is actually a series of luminaires serially placed along a given length. The length is not limited, hence the name. But not all the luminaires installed are slave luminaires here. Some of the lights installed are actually Maintained/Non-maintained emergency lights that do not die in case of a power failure.

This product can be hugely helpful in Indoor like residential areas, corporate offices, passages, godowns and even Outdoor like railway tunnels, highway tunnels, aerodromes, terminuses or similar locations where power failures can bring visibility down to zero in an instant causing huge problem in visibility and mobility. In mines and underground facilities, this could be just what the doctor ordered.

In normal conditions, the light will appear as a combination of rectangular tube lights homogenously illuminated end to end. However, if power fails, sections of the light will fail but sections which are actually battery-backed emergency lights will still illuminate bright. Hence, the name given to it is 'Infinite' light.

Highlights of the product:

- Ingress Protection IP65
- Dustproof, Waterproof and Weatherproof
 - Flexibility in operations Maintained and Non-maintained.
 - Flame retardant body
 - 3hours battery backup duration
 - Possible shapes – L, Z, T, N, X, Y and similar linear permutations and combinations.
 - Illumination throw (Lumen output): 150 lumens/watt
 - Both mains and emergency options will be available with this product.



Greenko orders 140 MW electrolyzers from John Cockerill

Greenko Group has signed an agreement to purchase 28 units of 5 MW alkaline electrolyzers from Belgium-based John Cockerill for use in the development of a green ammonia plant in Una, Himachal Pradesh.

Greenko's order expands on the company's existing collaboration with John Cockerill, which includes the joint development of a 2 GW per year electrolyser manufacturing plant in Kakinada,

Andhra Pradesh. Greenko ZeroC Private Limited, a subsidiary of Greenko Group, and John Cockerill are working together to develop a plant with a capacity of 300 metric tonnes per day. It will allegedly be India's largest green ammonia plant till date, and will contribute to the country's efforts to build large-scale green hydrogen production capacity. The electrolyzers are scheduled to arrive in March 2024, and the plant is scheduled to be operational by June 2024.



Uniper and Greenko sign MoU for green ammonia offtake to EU from India

Uniper and Greenko ZeroC Private Limited, the green molecule production arm of the Greenko Group, have signed a memorandum of understanding (MoU) and heads of terms for Uniper to enter into exclusive negotiations for the offtake of green ammonia from Phase 1 of Greenko ZeroC's ammonia production facility in Kakinada.

Under the MoU, Greenko and Uniper intend to negotiate a first of its kind innovative pricing, supply and tenure structure for a supply and purchase agreement for 250,000 tonnes per annum of green ammonia based on the heads of terms. Greenko's

Kakinada project is a multi-phase green ammonia production and export facility adding up to 1 million tonnes per annum of green ammonia production capacity by 2027. The first phase of Greenko's facility in Kakinada produces green ammonia based on an electrolyser powered by round the clock renewable electricity produced by 2.5 GW of renewable assets in India and reinforced by their Pinnapuram integrated renewable energy storage plant. Aside from green ammonia, Uniper and Greenko also intend to collaborate on the deployment of similar flexible renewable electricity to other hydrogen products such as e-methanol and sustainable aviation fuels.

GE Grid Solutions wins order to modernise 39 substations in Nepal

GE Renewable Energy's Grid Solutions business has been awarded a contract from Nepal Electricity Authority (NEA) to automate 39 substations of various ratings across Nepal, including construction of six master control centers (MCCs).

The MCCs will be monitored by GE Digital Solutions. The project is funded by Asian Development Bank (ADB). The project scope also includes retrofitting of relay panels and other



electrical components in the substations. After the substations are automated, GE will connect the substations to Nepal's national load dispatch center (NLDC) to enable real-time monitoring of power transmitting through these substations.

99th Year of ELECTRICAL CONTRACTORS' ASSOCIATION OF MAHARASHTRA (ECAM)

1987 Various technical programmes organised were as follows 1. Technical Seminar on "E.L.C.Bs.

2. Lecture on Art of Listening. Understanding Self & Your Customers'.

3. Technical Seminar on "Audio Visual Programme on Vacuum

Circuit Breakers'. 4. Lecture on "Works Contract-Levy of Tax".

A study tour to Bangalore - Mysore was organised in which members and their representatives participated.

1988 Shri B. D. Shah, Associations' Principal Representative on the Licensing Board, was instrumental for getting the following decisions in favour of the Electrical Contractors, at the meeting held on 29th July 1988.

1. Any Contractor can work as a Partner, Lecturer, or in any capacity, if he is having separate Supervisors in his company. 2. The Contractor's Licence of M/s. Kirloskar Engineering Co., was cancelled & the Supervisor's permit of that company was suspended for one year, by the Licensing Board, for issuing a Test Report by them for the work carried out by M/s. Hemant Electricals. It was decided that the Test Report, can be given only by the Contractor, who has actually carried out the Electrical Installation work.

3. On a complaint lodged by Shri P. B. Lotlikar, with the Licensing Board against Shri R. V. Prajapati, that Shri Prajapati was working as a Proprietor cum-Supervisor in Vaibhav Trading Corporation, as well as with M/s. Associated Engineers (India), the Board took a decision that one who is working as a Proprietor-cum Supervisor, cannot be engaged to work as an Electrical Supervisor in any other firm, but can work as a Proprietor or as a Partner with any other trade.

The following Technical programmes were conducted under the Chairmanship of Shri S. H. Sheth.

1 Tour to Calcutta, Darjeeling & Nepal from 25th December 1987 to 7th January 1988.

2. Visit to the Coble Corporation of India Ltd., Borivli, on 5th

February, 1988. Technical Seminar on Datar F&G make E.L.C.B.s on 26th 3.

February, 1988.

4. Factory visits of Datar Switchgear, Fixolite & Dulex

in Nasik & places of interest including Sai Baba Temple in Shirdi from 27th May, 1988.

5. Technical Seminar on Avanti Kopp Products on 9th July, 1988.

Eminent persons were invited to seminars and share their views & experiences with member contractors of the Association.

1989: With a view to update the technical knowledge & to impart useful information on the current electric & electronic affairs, the Technical Programmes Committee organised technical seminars during the year, as mentioned hereinunder:

O. A Lecture & Slide show on "Magic of Neon" by Shri P. L. Chakradeo of M/s. L. Kant Electricals on 14th January, 1989 at the B.E.S.T. Conference Hall.

b. A Technical Seminar on "Residual Current Devices'

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99th Year of ELECTRICAL CONTRACTORS' ASSOCIATION OF MAHARASHTRA (ECAM)

at Hotel Oberoi Towers under the auspices of M/s. English Electric Co.

Ltd., was held on 18th February, 1989. One day Seminar on 'Electrical Contracts Management' at the Institute of Engineers (India), Mahalaxmi, on 20th April, 1989. C.

1990: ASSOCIATION'S CONSTITUTION AMENDMENT COMMITTEE Shri Minoo B. Dalal, as Chairman of the Constitution Amendment Committee, proposed some Amendments to Articles of the Constitution. Some additions & alterations, as suggested by the members, were made by the Board of Directors, at a specially convened Board Meeting held on 3rd August, 1990. Thereafter, an Extraordinary General Meeting was called on 15th September, 1990, wherein, amendments as proposed earlier by the Board, were passed with necessary additions & alterations at this EGM. The amended Articles were unanimously approved by the General Body & incorporated in the Official Articles of the Association's Constitution.

Shri P. D. Nadkarni was nominated as Chairman of this Committee, ably assisted by other Committee members.

A Seminar on E.L.C.B. & I.E. Rule, 61-A was jointly sponsored by the Bureau of the Indian Standards, Western Regional Office and the ECAM, on 30th December, 1989 at

the Institution of Engineers (India), Mahalaxmi. There was a good response with several members attending the seminar.

1991 Upon persistence from ECAM, Shri Minoo B. Dalal, prevailed upon the Licensing Board to pass an order, whereby all MSEB Offices were Directed to issue Test Report Forms, duly numbered, in duplicate & bound in a book form at a cost of Re.1 per form. This method would help in checking the malpractice of issuing blank Test Report Forms by unscrupulous contractors.

The ECAM purchased premises on ownership basis & the office of ECAM REGIONAL CENTRE, PUNE, moved to the new premises & the same were officially inaugurated on 20th April, 1991 and an EGM was held on the same day. The Centre also held the first ever

PRESS CONFERENCE' on 27th April 1991. A Seminar on ELCB was arranged with M/s. General Utility Technical Services, Manufacturers of "GUTS make RCCB, Versa Guard, Super Guard etc. A trip was also arranged for the members to Panchagani on 20th and 21st June 1992.

An Exhibition titled "ECAM-91' on Electrical Items combined with a 3 day Seminar, was held from 15th to 17th November 1991 and was inaugurated by Shri Ajit Nimbalkar-Chairman, MSEB where 30 manufacturers exhibited their products alongwith Urja Ministry & MSEB. The 3 days Seminar were on 3 different Subjects VIZ.

Switchgears and Circuit Breakers' on 15th November 1991 'Cables & Accessories' on 16th November, 1991 and Illumination, Capacitors, Non- Conventional Energy" on 17th 2. 3.

1 November, 1991. 1993: It was decided, that the policy of the Board was that, unless

a person completes 18 years of age, he could not be considered for a Wireman's permit.

There was a proposal to raise the Solvency amount from Rs. 1,000 to Rs. 10,000 as a requirement, for making application for an Electrical Contractors Licence. This was strongly insisted upon by all members. However, our Representative, had recommended the Solvency amount of Rs. 5,000/- only.

Licensing Board who had issued some Supervisors Permits bearing nos. "VS" to some persons of Vidarbha Region, were approved and granted the current "MS" Permit in force, by the Maharashtra Govt. allowing such persons, to operate all over Maharashtra.

ECAMEX-93 EXHIBITION

An Exhibition on Electrical products VIZ. ECAMEX-93 was organised at Sunderbai Hall from 17th to 10th October, 1993. All the stalls were booked and due to a very heavy demand for more stalls, additional stalls, outside the Hall, were subsequently arranged, which were also booked and still, there was waiting list for more. Unfortunately, due to paucity of accommodation, all further bookings for the stalls had to be stopped. Shri D. N Purandare, Past President, was invited as Chief Guest for the opening Ceremony, in place of Hon'ble Minister for Energy, Govt. of Maharashtra who was to inaugurate the opening function, could not come, due to a disastrous Earth Quake in Maharashtra in Sept. 1993.

99th Year of ELECTRICAL CONTRACTORS' ASSOCIATION OF MAHARASHTRA (ECAM)

Meeting with new CMD of BSES LTD., Shri R. V. Shahi, were mainly concentrated on the shortage of materials and delay in job execution work. On 2nd August, 1994 our Directors rushed to the Chamber of the Executive Director of BSES, since he had refused appointments for meetings when asked for. Subsequently, great improvements in the working, had been observed. A meeting was also held with Shri A. K. Mago, Energy Secretary, Govt. of Maharashtra, on 10th Oct. 1994, whence it was appraised of the inefficient working of BSES. He promised to look into the matter and also arrange for a meeting of ECAM representatives with BSES Officers, in his presence.

A meeting was held with P.W.D. Chief Engineer, Shri S. V. Tamse for problems with the Supply Companies. The Association also filed a writ petition in the Bombay High Court- Aurangabad Bench, against the PWD, as all major Electrical Tenders of the Govt. were issued to Civil Contractors combined with Civil Works and not to the Electrical Contractor. It was hoped that this case would come out in our favour.

Reports had been published for the first time in leading evening newspapers regarding problems of consumers & contractors. About 5 news items had appeared in the press to mitigate the consumers problems, as & when they arose.

A technical Seminar was organised by Shri Sailesh D. Doctor under the sponsorship of M/s. North-West Switchgear at Centaur Hotel on 10th July 1993, attended by about 150 members.

A Seminar on Wires & Cables was organised with the sponsorship of M/s. Finolex Cables Ltd., on 21st August, 1993 which was attended by about 50 members.

A Seminar, jointly organised by the Institution of Engineers, Bureau of Indian Standards and ECAM, was organised on 27th September, 1993, at the Institution of Engineers (India) Auditorium, on the subject "Panel Discussion on Quality Control Order for Electrical Items".

1994: Shri Sailesh D. Doctor, Principal Representative alongwith Shri Uday Chitre, Alternate Representative, argued before the Licensing Board, that, MSEB should not be permitted to entrust work to non-Licensed Electrical Contractors. This matter was then referred to the Govt.

ECAM strongly objected & succeeded in getting postponed, a proposal, which in effect, would have created Special Electrical Consultants, who would have Special powers to prepare, submit and get approved plans for Electrical Installations, pertaining to Multi-Storyed Buildings. This would have meant that the L.E.Cs would have had to work under such consultants, thereby depriving them of their specialised individual Statuses, by virtue of the Licences held by them.

Shri Harshad Kamdar was nominated as Chairman of the Committee.

1. Seminar on I.M. make Miniature Circuit Breakers by M/s. India Meter Ltd., Madras was jointly organised by our Association and member M/s. Prinz Engineers (India), on 15th July, 1994 at Garware Club House, Churchgate, Bombay. The Seminar was attended by about 125 members, followed by Cocktails & Dinner hosted by India Meter Ltd.

2. Technical visit to the factory of M/s. Asian Electronics Ltd., at Nasik, was arranged on 17th July, 1994 which was attended by more than 50 members. The Chairman of M/s. Asian Electronics Ltd., had announced a special discount of 5% to those members who purchased their Capacitors upto 31st August, 1994.

1995:

Electrical & Electronics Exhibition "ECAMEX-95' was held at Ahmednagar, from 11th to 13th November, 1995 It had 42 stalls of manufacturers & traders displaying their products. The Exhibition was inaugurated by Shri S. V. Deo, Technical Director, MSEB. Shri Gupta from Crompton Greaves Ltd., was the Chief Guest. A Seminar was also arranged on 12th November, 1995, at Ahmednagar, in which many companies participated. This Exhibition was a run away success, since it was visited by almost the whole of Ahmednagar, as it was the first of its kind to be held there. A musical programme "Melody Makers' was organised on 14th August 1995, as a precursor to the exhibition. Shri S. H. Sheth from Pune & Shri M. R. Chavan from Ahmednagar rendered yeoman service to make these programmes grand successes.

Technical Visits to the following factories were also arranged

on 11th Nov. 1995 at Ahmednagar. 1. Larsen & Toubro Ltd., (Switchgear)

99th Year of ELECTRICAL CONTRACTORS' ASSOCIATION OF MAHARASHTRA (ECAM)

2. Stamford (Brushless Generator)

3. Crompton Greaves (Motor) These visits were very successful and educative too.

Consumers of BEST/ BSES approached our Association with complaints of exorbitant and very high Electricity Bills sent by the Licences during the last 6 months of the year. Shri Uday S. Chitre, at a meeting with Shri R. V. Shahi, Chairman, BSES & compelled him to look into the matter and redress problems of consumers who were under the threat of disconnection of supply. He also approached the Press and complaints of consumers were given wide publicity through Newspapers.

Shri Sudhakar Sheth was nominated Chairman of Technical Programmes Committee and the following Seminars and Technical Visits to factories were arranged.

1. A Seminar on "Finolex Cables & Wires was arranged on 9th June 1995 at Ritz Hotel, Churchgate, Bombay.

2. Technical visit to M/s. Elpro International Ltd., Chinchwad, Pune, on 10th September, 1995.

3. Technical Visit to "M/s. Kiron Textile Industries', Thane, on 16th September, 1995.

1996 Shri Minoo B. Dalal and Shri Uday S. Chitre attended the ETDC-14 Sub-committee meeting of Bureau of Indian Standards, impressing on them the urgent need for documentation and for I.S. Specifications, for PVC casing & capping. This B.I.S. documentation was circulated to prominent manufactures of casing and capping. Upon receipts of complete information, the same would be forwarded to I.S.I. for further processing.

The Legal and Commercial Committee consisted of 7 members with Shri R.N.G. Saraf as Chairman. A combined contract of Civil and Electrical tender, issued by the PWD, A'Nagar division, was challenged by the Association in Aurangabad High Court and obtained a Stay Order on the issue. MSEB was awarding works to non-licensed electrical contractors in A'Nagar region. This issue was also challenged successfully in a court of law.

Shri Dilip Bania was nominated as Chairman, Technical Programmes Committee and four other Directors, arranged the following Seminars.

1. Finolex Cable at Hotel Vaishali Chembur, on 13th July, 1996. 2. Security Vision at Hotel Kohinoor Plaza, Dadar, on 9th August, 1996.

3. Siemens India Ltd., at B.C.A. Pavilion on 31st August, 1996. 4. Siemens India Ltd., at Hotel Ramada INN, Juhu on 1st November, 1996.

Modern Technical Advancement in the Electrical & Electronic Fields were discussed and very useful information were given by way of lectures and video slides etc.,

1997: Shri Sailesh D. Doctor, Shri Uday Chitre and the Chairmen of Pune & Nasik Regions were nominated as ECAM's Representatives. on the Mal-practice Committees of their respective areas. The following important points were discussed:

1. Our long standing request regarding N.O.C. to be insisted upon prior to change of contractors, was turned down by all the members of the Licensing Board.

2. The previously cancelled Supervisor's Licence of Mr. Amrukhkar from Nasik, was renewed due to our strong efforts, upon special requests from Nasik Region.

3. In the absence of I.S. Specifications on casing and coping, the use of the same has been partly permitted by P.W.D. by approving for use in their works, such casing and coping, which are as per their specifications and approved by P.W.D.

A full day workshop on Interior Lighting, in association with Indian Society of Lighting Engineers (ISLE) was arranged on 12th Dec. 1997 at the Y. B. Chavan Pratisthan. This is a first ever attempt on the part of our Association to hold a workshop of this nature. Only 30 members were permitted to attend the workshop. It was also a grand success.

REGIONAL CENTRES, PUNE AND NASIK

1. Three meetings were held with Shri Bhalerao, C.E. - MSEB.

2. Shri Oswal and Shri Gadkari attended the meeting arranged by ECAM Bombay with the Chief Engineer on 26th May 1997 in which the following points were discussed:

a. Representation of ECAM to be taken on DSR Committee of PWD.

b. N.O.C. to be obtained from previous Contractor, prior to the appointment of new contractor, before total completion of a contract.



17mn Public Sector white-collar employees to benefit from A.I. empowered banking solution by OneBanc

New Delhi, February 24, 2023: An AI-driven neo-banking company, OneBanc Technologies, plans to expand into the public sector in order to positively influence over 17 million white-collar workers. Their solution delivers a premium banking experience in the payroll banking space. With the help of proprietary AI technology, the company will help increase employees' in-hand pay by up to INR 80,000 per annum without any change in behaviour. More than 100 corporate partners have partnered with OneBanc in a short period of time to improve compliance standards, increase employee engagement, and increase productivity. The company is backed by prominent VCs like Info Edge Ventures, Leo Capital, and Saison Capital.

In a recent survey conducted by OneBanc with over 400 toppers graduating across 37 colleges, only 9% would consider applying for a Public Sector job as their top 3 career option. This sharply contrasts with over 64% who wished to apply for Private Sector jobs *only*. In another survey conducted across over 200 government employees, an overwhelming 58% would consider voluntary retirement if a lucrative private sector opportunity were to present itself.

OneBanc, an AI-based neo-bank started by Vibhore Goyal, is on a mission to re-imagine experience for the white-collar salary segment. The cost of ownership for a Full Time Employee (FTE) stands at around \$1000. This is significantly higher than gig workers (\$150). Due to cost pressures, companies are pushed to engage with gig workers. At the same time, companies recognize that the productivity, and reliability of

an FTE are much higher. OneBanc partners with companies to improve compliance, and increase employee engagement, and productivity. In the process, the company can also reduce the costs for FTEs. The ecosystem created by OneBanc includes RBI-regulated banks, merchants, and HR tech platforms. The white-collar professional banking sector in India is valued at \$87 billion and is projected to grow at a CAGR of 12%. For more information, please direct your queries, questions, or comments to



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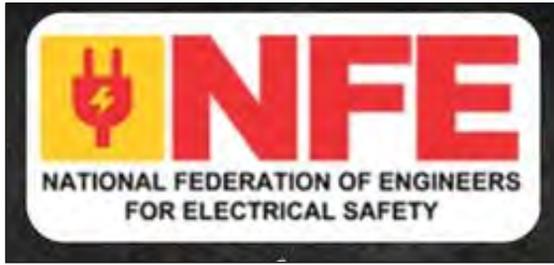
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<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p style="font-size: small;">ACB</p>  <p style="font-size: x-small;">Masterpact MVS ACB 800A to 3200A</p> </div> <div style="width: 30%;"> <p style="font-size: small;">ATS</p>  <p style="font-size: x-small;">Auto Source Change over 100A to 630A</p> </div> <div style="width: 30%;"> <p style="font-size: small;">Capacitors</p>  <p style="font-size: x-small;">Meher Capacitors Dry Type MPP type & Gas filled</p> </div> </div>	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p style="font-size: small;">neo</p> <p style="font-size: x-small;">C-METRO</p>  </div> <div style="width: 45%;"> <p style="font-size: small;">LIVIA</p> <p style="font-size: x-small;">Life. Style.</p>  </div> </div>
<div style="text-align: center;"> <p style="font-size: small;">Contactors & Relays</p>  <p style="font-size: x-small;">TESYS E & D Model</p> </div>	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p style="font-size: small;">Home Automation</p>  </div> </div>
<div style="text-align: center;"> <p style="font-size: small;">Neptune- Bals</p> <p style="font-size: x-small;">Neptune Bals (Made in Germany) CE marked PVC Industrial plugs, sockets & Interlocks</p>  </div>	<div style="text-align: center;">  <p style="font-size: small;">Wires and Cables</p> <p style="font-size: x-small;">The power behind the power</p>  </div>

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National Electrical Code of India 2023 (NEC 2023)

National Electrical Code of India 2023 (NEC 2023) is the important document for electrical safety in consumer premise. It is a rule that every electrical installation in consumer premise is made as per this Code of Practice.

Compliance to this code ensure high degree of safety and reliability. Every practicing professional in the MEP industry shall be aware of the technical requirements in NEC of India and Design, Select, Erect and Verify the installation based on the mandatory requirements in the Code of practice.

Compliance to NEC is made mandatory in the CEA measures relating to safety and electric supply regulation 2022 draft. Authorities (such as electrical Inspectors) shall be aware of the technical requirements of NEC for its proper implementation.

NFE take up the responsibility of disseminating knowledge on NEC of India 2023, to support the industry to understand the new and updated requirements in NEC.

The first program on NEC 2023 is organized at India Habitat Center, New Delhi on 10 March 2023, followed by a yearlong training program (two-day program) across India.

“Every citizen is enshrined with the Right to Live under the Constitution of India. On the other hand, day-to-day fire and electrical accidents due to known reasons poses a threat to the Right.

Despite the enactments under the Statutory Provisions of the Law, multipronged efforts are required from all the stakeholders to support the Government for minimising threat to the life and property thereby assuring protection from the electrical hazards in our country.

Electricity being hazardous, strict liability is vested with all the stakeholders involved from the supply to the end use.

Realising the above situations, we have successfully created a society involving people dedicated to the noble cause of electrical accidents eradication at the national level.

We, at the National Federation of Engineers for Electrical Safety, request all professionals having interest in improving electrical safety and reliability, join us to work together to improve our knowledge and understanding, parallely create an accident free India.”

Services

What we do

- Create awareness on electrical safety, Improve skills of practicing electrical engineers, Improve safety measures followed in the industry, Introduce modern safety measures in Electrical engineering & Improve quality of electrical installation.
- Facilitate accreditation system for electrical engineering professionals and providing better employability. Create a platform in which professionals are accepted globally with the accreditation system.
- Support standardization, R&D, test laboratories.
- Working with governments for improving electrical safety scenario, reduce the number of accidents and its fatality, support in creating Chartered Electrical Safety Engineer. Support and research on new technologies such as Solar PV, EV, micro grid.

Trainings by NFE

The trainings are classified into One day, Two days, Long-term professional trainings and Short term

trainings on specific subjects.

- One day training Program on National Electrical Code of India 2023
- Two days training program on National Electrical Code of India 2023
- Long Term Professional Training Programs (Direct only)
- Customised Short Training Programs (ONLINE 16 different subjects)

Professional training programs are for engineers working in the respective field of electrical installation. These trainings are based on the most modern IEC/ISO/IS standards. NFE also ensures that these engineers are supported continuously so that their technical queries are answered for a period of one year. The long-term trainings are on

- Designing of electrical installation in buildings
- Earthing and reliability in electrical installation
- Inspection and testing in electrical installation

Designing of electrical installation in buildings

Suitable for electrical engineers in the field of designing with at least an year of working experience in designing of electrical installation.

- Duration: 30 hours,
- Charges: Rs. 60,000/- per person

Subjects Covered: National and international standards, Rules for electrical safety in LV system and the concept of design, selection, erection and testing, fundamental principles and protective devices, system earthing and earthing arrangement, basics and practical applications in earthing, protection from electric shock, protection from thermal effect, protection from over current, protection from voltage disturbances, selection and erection of electrical equipment - common rules, wiring systems, isolation, switching and control, functional earthing, safety services, Inspection and testing of electrical system.

Earthing and reliability in electrical installation

Suitable for electrical engineers in the filed of

designing with at least an year of working experience in designing of electrical installation.

- Duration: 18 hours,
- Charges: Rs. 40,000/- per person

Subjects Covered: System earthing & safety in each network, equipment earthing, protective equipotential bonding, protective conductors, sizing of protective conductors, interpretation of IS3043, reading and understanding CEA safety regulations (Measures relating to safety and electric supply 2010), UPS earthing, earthing of electronic equipment, functional earthing, ICT bonding networks, designing of earthing for HV installations (up to 33 kV).

Inspection and testing in electrical installation

Suitable for electrical engineers with experience in the field of safety audits and maintenance in industries

- Duration: 10 hours,
- Charges: Rs. 30,000/- per person (or Rs. 2 lac for two days for organisations)

Subjects Covered: Basics of protection, basics of safety earthing, basics of inspection, subjects & methods of inspection, reasons for inspection, subjects of testing, methods of testing with videos, periodic testing

Customised Short Training Programs (ONLINE)

Suitable for engineers working in the field of safety audits as an informative session and for engineers in maintenance departments of Industries. There are 16 subjects. For safety engineers in Industries and Commercial establishments, we recommend a two days testing & site training by NFE engineering team.

- Duration: 2 hours.
- Charges: Rs. 30,000/- per program, subject to a maximum of 50 persons per program)

Subjects of Short-term training programs

- Basic design criteria of an LV electrical

installation (NEC of India 2023 & IS 732):

Protection against electric shock, protection from thermal effect (fire due to short circuit), protection from over current & short circuit, protection from over voltages, selection and erection of equipment, safety services.

- Protection from Electric shock (NEC of India 2023 & IS 732): Basic and fault protective measures in LV system
- Protection from Thermal effects (NEC of India 2023 & IS 732): Protective measures for reducing fire due to short circuit
- Protection from Over voltages (NEC of India 2023 & IS 732): Protective measures and methods to reduce TOV's in an LV installation due to fault at HV side of an installation, fault at LV side of installation, selection and erection of devices.
- Basics of EM/EMC (IEC 61000 part 5, specific to 5-2): Basics and protective measures for electronics against various electromagnetic interferences on daily usage.
- Earthing Part 1 (IS3043 & IS732): System earthing & safety in each network, equipment earthing, protective equipotential bonding & protective conductors.
- Earthing Part 2 (IS3043 & IS732): Sizing of conductors for earthing, Interpretation of IS3043, reading and understanding CEA safety regulations (Measures relating to safety and electric supply 2010)
- Earthing Part 3 (IEEE 142 & IEEE 1100): UPS earthing, earthing of electronic equipment
- Earthing Part 4 (IS732, ISO 30129): Functional earthing, ICT bonding networks, design and testing of earthing for applications such as DC supply networks (and systems) for supplying power to ICT equipment within a building, star-shaped private automatic branch exchanges (PABX) or their equipment, local area (communication) networks (LANs), fire and intruder alarms communication systems, Instrumentation system, building automation systems, e.g. direct digital control systems, systems for computer-aided manufacturing

(CAM) and other computer-aided services, broadcast and communication technology .

- Inspection and testing of an electrical installation (NEC of India 2023 & IS 732): Basics of inspection, subjects & methods of inspection, reasons for inspection, subjects of testing, methods of testing with videos, periodic testing
- Electrical safety in healthcare facilities and protection from shock (NEC of India 2023, IS 732 & IS 17512): Need for special requirements in hospitals, electrical system in general locations and special locations, safety in general locations, safety in special locations (patient safety and ignition of fire from electricity), need for inspection and verifications
- Solar PV installation (IS732, IS 16997 / IEC 60364-7-712): Protection for safety in special location, lightning protection, earthing, inspection and testing
- Lightning Protection Part 1 (IS/IEC 62305): Analysis, risk assessment, designing of air termination, designing of down conductors, designing of earth termination
- Lightning Protection Part 2 (IS/IEC 62305): Separation distance calculations, selection of components of LPS, testing and quality requirements, inspection and verification
- Surge Protective Device (SPD's) Part 1 (IEC 61643-11/12): SPD's - What are they, voltage impulse withstand of equipment, lightning protection zone (LPZ), requirements at each LPZ, equipotential bonding, requirement and selection of power line SPD's based on LPZ
- Surge Protective Device (SPD's) Part 2 (IEC 61643-11/12 & IEC 61643-21/22): Power line SPD's selection based on IS732 (IEC 60364-5-53), selection of back up fuse, selection based on priority to continuity of supply or continuity of protection , SPD's for signaling and telecommunication application basic requirements, performance requirement and testing methods, selection and erection of telecom and signal SPD's.



‘ऊर्जा विषयावर चर्चा व्हावी’

ऊर्जा क्षेत्रातील उदासीनतेवर प्रफुल्ल वानखेडे यांचे मत

‘आपल्याला लहानपणापासूनच शिकवले जाते की, ऊर्जेची बचत विचार करा. उलट ऊर्जेचा जेवढा जास्त वापर देश करतो, तेवढा तो देश प्रगत असे म्हटले जाते. ऊर्जेचा वापर असा व्हावा, की तेथे किमान खर्च होईल. विकसित देशांत ऊर्जा विषयावर चर्चा होत असते. आपल्याकडेही ती व्हायला हा हवी. अन्यथा आपल्या आगामी पिढ्याही विकसनशील देशातच राहतील’, असे मत प्रसिद्ध उद्योजक व या क्षेत्रातील तज्ज्ञ प्रफुल्ल वानखेडे यांनी ‘मॅजस्टिक गप्पा’मध्ये मांडले.

‘कार्बन उत्सर्जन कमी करण्यासाठी हायड्रोजन, ग्रीन अमोनिया, सौरऊर्जा, पवन ऊर्जा इत्यादीवर भर दिला जात आहे. भारतासारख्या देशात जिथे रोज पाच लाख गॅलन क्रूड ऑइल लागते, तिथे आपल्याकडेच त्या तेलाची निर्मिती व प्रक्रियेचे उद्योग कसे येतील यावर भर असायला हवा. फक्त सौरऊर्जेने आपली गरज कधीच भागू शकत नाही. नागपूर, परळीसारख्या ठिकाणी जोपर्यंत कोळशावर ऊर्जा निर्मिती होत आहे आणि ती ऊर्जा आपण शहरांत आणत आहोत, तोपर्यंत प्रदूषण कमी होणार नाही. सरतेशेवटी ग्लोबल वॉर्मिंग हे ओझोनच्या स्तराशी संबंधित आहे. म्हणून पर्यावरणस्नेही

इलेक्ट्रिक वाहने वापरायची असतील, तर त्यांच्या चार्जिंगसाठी प्रथम सौरऊर्जा, पवनऊर्जा, हायड्रोजन ऊर्जा निर्मितीची केंद्रे व्हायला हवीत’, असे मत वानखेडे यांनी यावेळी मांडले.

‘ग्रीन हायड्रोजन, ग्रीन अमोनिया आणि त्याचप्रमाणे क्रिप्टो करन्सी, ब्लॉक चेन हे सर्व भविष्य आहे. त्यातून आपली सुटका नाही. त्या गोष्टींचा आपल्याला स्वीकार करावाच लागेल. युवा वर्गातील जे युवा उद्योग करण्याचा विचार करत असतील त्यांनी आपले स्वप्न अत्यंत स्पष्टपणे पाहून लेखी स्वरूपात मांडून ध्येय गाठण्याचा प्रयत्न करायला हवा. त्याचबरोबर चांगली साथसंगत आणि आपल्याभोवती टीकाकार, आव्हाने ठेवून चुका पुसून टाकत पुढे जायला हवे’, असा कानमंत्रही त्यांनी दिला.



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राज्याचे नवीन इलेक्ट्रॉनिक्स धोरण तयार करण्यासंदर्भात राज्य शासनास शिफारशी करण्याकरिता समिती स्थापन करणेबाबत...

परिपत्रक

महाराष्ट्र शासनाने शासन निर्णय क्र. मइधो -२०१४/प्र.क्र ११८/उद्योग-२, दिनांक ११/०४/२०१६ अन्वये राज्याचे महाराष्ट्र इलेक्ट्रॉनिक्स धोरण -२०१६ आणि त्या अंतर्गत FAB प्रकल्पाकरीता प्रोत्साहने धोरण घोषित करण्यात आले आहे. या धोरणाचा कार्य कालावधी ५ वर्षे निर्धारित करण्यात आला असून, सदर कालावधी हा दिनांक १०/०४/२०२१ रोजी संपुष्टात येणार होता. दरम्यान या धोरणामध्ये सुधारणा करण्याबाबतचा व सदर धोरणास दिनांक ३१/०३/२०२३ पर्यंत मुदतवाढ देण्याबाबतचा निर्णय मा. मंत्रीमंडळाच्या दि.०६/०१/२०२१ रोजी संपन्न झालेल्या बैठकीमध्ये घेण्यात आला आहे. त्याबाबतचा शासन निर्णय दिनांक २०/०१/२०२१ रोजी निर्गमित करण्यात आला असून सदर धोरण दिनांक ३१/०३/२०२३ रोजी संपुष्टात येणार आहे. राज्याचे नवीन इलेक्ट्रॉनिक्स धोरण तयार करण्याची कार्यवाही शासन स्तरावर सुरु आहे. नवीन धोरण तयार करण्याच्या अनुषंगाने राज्य शासनास शिफारशी करण्याकरिता विकास आयुक्त (उद्योग) यांच्या अध्यक्षतेखाली पुढीलप्रमाणे समिती गठीत करण्यात येत आहे.

१.	विकास आयुक्त (उद्योग), उद्योग संचालनालय, मुंबई	अध्यक्ष
२.	संचालक, माहिती तंत्रज्ञान संचालनालय, मंत्रालय, मुंबई अथवा त्यांचे प्रतिनिधी	सदस्य
३.	अध्यक्ष तथा व्यवस्थापकीय संचालक, महावितरण, प्रकाशगड, वांद्रे (पूर्व), मुंबई अथवा त्यांचे प्रतिनिधी	सदस्य
४.	सह मुख्य कार्यकारी अधिकारी (विशेष प्रकल्प) महाराष्ट्र औद्योगिक विकास महामंडळ, मुंबई	सदस्य
५.	नामवंत संस्थेमधील इलेक्ट्रॉनिक्स विभागाचे ३ प्रतिनिधी	सदस्य
६.	स्ट्रक्चर्स इलेक्ट्रॉनिक्स एक्सपोर्ट मॅन्युफॅक्चरिंग असोशिएशन (SEEMA) १ प्रतिनिधी	सदस्य
७.	कन्फेडरेशन ऑफ इंडियन इंडस्ट्री (सीआयआय) यांचे प्रतिनिधी	सदस्य
८.	फेडरेशन ऑफ इंडियन चेंबर्स ऑफ कॉमर्स अँड इंडस्ट्री (फिककी) यांचे प्रतिनिधी.	सदस्य
९.	अर्नेस्ट अँड यंग या सल्लागार संस्थेचे प्रतिनिधी	सदस्य
१०.	अतिरिक्त उद्योग संचालक, उद्योग संचालनालय, मुंबई	सदस्य सचिव

समितीची कार्यकक्षा खालीलप्रमाणे राहिल :-

- १) इलेक्ट्रॉनिक्स उत्पादनांची निर्माती करण्याबाबतचे धोरण तयार करण्यासंदर्भात प्राप्त झालेली निवेदने, याविषयी केंद्र शासनाचे धोरण /मार्गदर्शक सूचना तसेच इतर राज्यांचे याविषयीचे धोरण तसेच या क्षेत्रातील स्टेकहोल्डर्स यांचेशी चर्चा करून व तद्अनुषंगिक बाबींचा सखोल अभ्यास समितीमार्फत करण्यात येवून, त्याअनुषंगाने सविस्तर अहवाल समितीमार्फत तयार करण्यात यावा.
- २) समितीने वरीलप्रमाणे अहवाल तयार करून तो ३ महिन्यामध्ये शासनास सादर करावा.
३. सदर शासन परिपत्रक महाराष्ट्र शासनाच्या www.maharashtra.gov.in या संकेतस्थळावर उपलब्ध करण्यात आले असून, त्याचा संगणक संकेतांक २०२३०२०८१३१७३५०८१० असा आहे. सदरचे शासन परिपत्रक डिजिटल स्वाक्षरीने साक्षांकित करून काढण्यात येत आहे.

महाराष्ट्राचे राज्यपाल यांच्या आदेशानुसार व नावाने,

**SANJAY SHAMKANT
DEGAONKAR**

(संजय देगांवकर)

सह सचिव (उद्योग), महाराष्ट्र शासन

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serialNumber=59276257784AD42070183C308-1188AC15888
E1E5301CCAC2A4E30407E, cn=SANJAY SHAMKANT DEGAONKAR
Date: 2023.02.10 17:03:42 +05:30

जागरूक वीज ग्राहकांची परंपरा

महाराष्ट्रातील वीज ग्राहक खूप जागरूक आणि प्रश्न विचारणारा आहे. वीज ग्राहकांच्या संघटनाही सक्षम आहेत. यामुळे वीज वितरणात पुष्कळ बदल झाले. यातून शेवटी ग्राहकांचा लाभ झाला...



- अशोक पेंडसे

महाराष्ट्रात मुंबई धरून साडेतीन कोटी वीज ग्राहक आहेत. त्यात २ कोटी ३० लाख घरगुती ग्राहक. उरलेले वाणिज्य संस्था, कृषिपंप, इस्पितळे वगैरेंनी उरलेली बेरीज पूर्ण होते. या ग्राहकांना टाटा आणि अदानी या खासगी कंपनीच्या त्यानंतर बीईएसटी ही महानगरपालिकेच्या तर महावितरण ही सरकारच्या आधिपत्याखालील कंपनी वीजवितरण करतात. महाराष्ट्रातील वीज ग्राहक आणि ग्राहक संघटना खूपच जागरूक आहेत. वीज वितरणात बदल होण्यामागे यांचे मोठे योगदान आहे.

१९९४-९५ साली एन्नॉनच्या करारामुळे हा विषय सर्वोच्च न्यायालयात गेला. यात मुख्य कारण एन्नॉनशी केलेल्या करारात पारदर्शकता नव्हती. न्यायालयाच्या निकालामुळे हा करार सर्वासमोर आला. वर्ष २०००च्या सुमाराला यातील स्थिर आकार जीवघेणा ठरू लागला. पुन्हा एकदा कोर्टबाजी होऊन हा करार रद्द झाला. पुढे एन्नॉनने देशातून गाशा गुंडाळला. अर्थात, यामुळे ग्राहकांचा आणि पर्यायाने वीज मंडळांचा फायदा झाला. १९९९ साली वीज नियामक आयोग आला. वर्ष २००० मध्ये पहिल्यांदा मंडळाने तेथे वीज दरवाढीचा प्रस्ताव मांडला. त्यावेळेला ग्राहक संघटनांनी दाखवून दिले की कृषिपंपांचा वीज वापर हा खूप वाढवलेला दिसत आहे. एकतर कृषिपंपांसाठी जवळ जवळ अर्ध्या ठिकाणी मीटर नाहीत; तर उरलेली मीटर नादुरुस्त, काढून ठेवलेली. त्यामुळे सरासरी प्रति

हॉर्सपॉवर किती तास पंप चालतो या पद्धतीनुसार वीज मागणी निश्चित केली जाते. राज्यात ऊस एका बाजूला तर संत्री, कापूस वगैरे कमी पाणी लागणारी पिके दुसऱ्या बाजूला. याशिवाय कोकणात ३/४ महिने पाणीच नसते. मग या टप्प्यात उसासाठी वेगळा वापर आणि इतर पिकांसाठी वेगळा वापर अशी फोड केली गेली. तरीही हे कोडे सुटले नाही. मग मुंबई आयआयटीने अहवाल दिला. तो बासनात बांधून ठेवला गेला. पुढच्या टप्प्याला आयोगाने स्वतः समिती नेमली यात एक ग्राहक संघटना, आणि एका सल्लागार कंपनीला सभासद म्हणून घेतले. या समितीच्या अहवालानंतर आणखी काही मुभा देण्यात आली. तरीसुद्धा गेल्या २० वर्षांत हे कोडे सुटलेले नाही. सर्वच राज्यांत निराशाजनक परिस्थिती आहे. नंतर सौरऊर्जेचा भाव खूप खाली आल्यामुळे सौरऊर्जाच कृषिपंपांना द्यावी, ज्यायोगे शेतीला दिवसा वीज मिळेल. आणि सरकारचे अनुदान कमी होईल. महाराष्ट्रात गेली दोन तीन वर्षे हा प्रयोग चालू आहे. हा २० वर्षांचा प्रवास ग्राहकांनी नेटाने लावून धरल्यामुळे झाला. २००३ साली विद्युत कायदा आला. त्यावेळेस आयोगाने वीज नियमन करणे बंधनकारक होते. आयोगाने चार वितरण कंपन्या आणि ग्राहक प्रतिनिधी यांची संयुक्त समिती स्थापली. या समितीने ही नियामक व्यवस्था निर्माण केली. ती पाच सहा इतर राज्यांनीही तंतोतंत वापरली.

ग्राहक आणि ग्राहक संघटनांनी सुमारे १८ बाबी सर्वोच्च न्यायालयात नेल्या. २००७-८ साली मोठ्या प्रमाणात भारनियमन

सुरू झाले. त्यासाठी प्रणाली असणे आवश्यक होते. सर्वोच्च न्यायालयाने असा निर्णय दिला की वितरण कंपनीने आयोगाच्या साहाय्याने भारनियमन करावे. या संदर्भात एक लोकसुनावणी घेतली गेली. वीजगळती जास्त असल्यास तेथे भारनियमन जास्त. कुठल्याही भौगोलिक भागात सलग चार तासांपेक्षा जास्त भारनियमन असू नये. तसेच, २४ तासांत जास्तीजास्त १०-१२ तासांपेक्षा कुठल्याही भागाला भारनियमन



नसावे. ही प्रणाली सुमारे ४-५ वर्षे तरी राबवावी लागली.

हे होत असताना महाराष्ट्राने शून्य भारनियमन हा प्रयोग केला. नवी मुंबई, ठाणे, पुणे, औरंगाबाद, नागपूर अशा पाच शहरांत हा प्रयोग झाला. समजा, ठाण्याची सरासरी मागणी सहाशे मेगावॉट आहे, तर चार-पाच महिने कमाल मागणी चार तास आठशे मेगावॉट एवढी जाते. भारनियमन ही आठशे मेगावॉट मागणी पुरी करण्यासाठी या चार महिन्यांसाठी बाजारभावाने म्हणजेच जास्त दराने वीज विकत घ्यायची, याचा येणारा बोजा त्या शहरातील ग्राहकांनी १२ महिने विभागून घ्यायचा. हा बोजा सुमारे ३० ते ६० पैसे प्रति युनिट होता, तो या पाच शहरांतील लोकांनी देऊन शून्य भारनियमन सुमारे २ ते ३ वर्षे साधले. ग्राहक संघटनांचा या यशात मोठा सहभाग होता.

मुंबईत बीईएसटी फक्त मुंबई बेटावर वीजवितरण करते. हा ग्राहक बेस्टच्या बसवाहतुकीचा तोटा वीजदरातून भरून देतो. हे अन्यायकारक आहे. हा विषय सुद्धा सर्वोच्च न्यायालयात नेऊन तोटा भरून काढण्याची कृती थांबवली गेली. तरी प्रश्न राहिला, तो आधीच्या काळात जमा केलेले चार हजार कोटी रुपये ग्राहकांना परत देण्यासंबंधी. सर्वोच्च न्यायालयाने ग्राहकांना सांगितले की बीईएसटी ही खासगी कंपनी नाही. तेव्हा हे परत देण्याचा आग्रह सोडून द्यावा.

जवळ जवळ एक तृतीयांश वीज ही खासगी कंपनी

विकत घेतात. या कंपनी म्हणजे उदा. रतन इंडिया, टाटा, अदानी, जिंदाल, साईवर्धा वगैरे. भारतातील सहा कंपन्यांनी इंडोनेशिया या देशातील कोळशाच्या खाणी विकत घेतल्या. तेथून स्वतःची खाण असल्यामुळे कोळसा त्यांच्याच भारतातील कंपनीला स्वस्तात विकून वीजदर आटोक्यात ठेवायचा असे त्यांचे धोरण होते. परंतु इंडोनेशियाने २०१० साली नवी धोरण आणले, त्यानुसार कोळशाच्या जागतिक किमतीनेच तो निर्यात होतो. त्याबरोबर

कोळशाच्या किंमती अनेक पर्तींनी वाढल्या. हा कंपन्यांनी कायद्यात बदल झाला आहे म्हणून आम्हास वीजदर वाढवून द्यावा अशी मागणी केली. हे प्रकरण ग्राहक संघटनांनी सर्वोच्च न्यायालयापर्यंत नेले. सर्वोच्च न्यायालयाने निर्णय दिला की इंडोनेशियातील कायद्यातील बदल हा कायद्यातील बदल धरता येणार नाही आणि त्यामुळे वीजदर वाढवता येणार नाही. यामुळे ग्राहकांचा आणि पर्यायाने वीज कंपनीचा फायदा झाला. सर्वोच्च न्यायालयापर्यंत जाताना ग्राहक आणि ग्राहक

संघटनांना कमालीचा संयम, वेळ, पैसा लागतो. शिवाय वेळ जातो.

वीज वितरण कंपनी दरवर्षी किंवा दोन वर्षांतून एकदा भाववाढीचा प्रस्ताव देतात. या प्रस्तावाची जनसुनावणी पाच ते सहा शहरात होते. तेथे २०० ते ४०० वीजग्राहक असत. या सुनावणीत पहिल्यांदा वीजवितरण कंपनी आपले मागणे दृढपणे पद्धतीने मांडायची. त्यानंतर ग्राहक सुद्धा त्यावरील आपले म्हणणे मांडत. प्रसारमाध्यमे ही सुनावणी उचलून धरत. यामुळे, लोकांना प्रत्यक्षपणे काय वाटते ते नेमके कळे. आपले म्हणणे कोणीतरी उच्च अधिकारी ऐकतात ही भावना ग्राहकांना सुखावह असे.

ग्राहक आणि ग्राहक संघटनांनी केलेल्या योगदानातील या काही घटना. मात्र, आज वीजग्राहक कुठे आहे, याबाबत 'यस प्राईम मिनिस्टर' या मालिकेतील प्रसंगाची आठवण होते. एका देशाचे पंतप्रधान तेथील नवीन रुग्णालयाचे उद्घाटन करावयास जातात. तेथील डॉक्टर सारे इस्पितळ पंतप्रधानांना दाखवतात. पण ते एक कळीचा प्रश्न विचारतात, 'हे सर्व चांगले आहे पण रुग्ण कुठे आहेत?' त्यांना उत्तर मिळते, 'आम्ही रुग्णांना प्रवेश देत नाही; कारण रुग्ण म्हणजे डोकेदुखी आणि कामात अडथळा!'

लेखक ऊर्जातज्ज्ञ आहेत.

(महाराष्ट्र टाइम्समधून साभार)



मैनेजमेंट का महाकुंभ : आइएमए के इंटरनेशनल कॉन्क्लेव में बोले प्रबंधन गुरु



श्री श्रीगोपाल काबरा बिजनेस में सफलता के लिए बनाएं ब्रांड वैल्यू, हार के डर से भी रहें दूर

इंदौर- आइएमए का दो दिवसीय ३०वां इंटरनेशनल मैनेजमेंट कॉन्क्लेव शुक्रवार से शुरू हुआ। इसकी थीम रीइन्वेंट इवॉल्व लीड रखी गई है। कॉन्क्लेव में उद्योग और मैनेजमेंट जगत के दिग्गज अपने अनुभव और विजन साझा कर रहे हैं। पहले दिन के अलग-अलग सत्र में वक्ताओं ने ब्रैंडिंग, मैनेजमेंट, टेक्नोलॉजी की बारीकियों से लेकर आध्यात्म पर बात की। उद्घाटन सत्र के मुख्य वक्ता आरआर ग्लोबल के एमडी व ग्रुप प्रेसीडेंट श्रीगोपाल काबरा ने कहा कि किसी भी बिजनेस को शुरू करने के लिए टिकाऊपन, विस्तार, मूल्य और सम्मान मुख्य स्तंभ हैं। सम्मान देने से एक-दूसरे पर विश्वास और टिकाऊ वाले उत्पादों से आपका मार्केट में आधार मजबूत होता है। आपके बिजनेस से जुड़े हर व्यक्ति चाहे वह आपका कर्मचारी हो या फिर उपभोक्ता, उन्हें सम्मान दिया जाए तो बिजनेस आगे बढ़ने से कोई नहीं रोक सकता।

काबरा ने कहा कि सफलता के लिए उत्पाद को ब्रांड बनाना जरूरी है। आज तकनीक का दौर है और लगातार इनोवेशन हो रहे हैं। ग्राहक ब्रांड पर अधिक भरोसा जता रहे हैं। देखने में आता है कि कई कंपनियां सिर्फ अपना मार्केट बढ़ाने के लिए झूठ का सहारा लेती हैं और गुणवत्ता से समझौता कर लेती हैं। यह गलत है। आइआइएम इंदौर के डायरेक्टर प्रो. हिमांशु राय ने कहा कि कोविडकाल बेहद चुनौतीभरा था और इसमें कई लोगों को नया करने के लिए प्रेरित किया। इनमें कुछ को सफलता मिली और कुछ को नहीं। जो सफल नहीं हुए, उन्हें असफलता के डर से प्रयास नहीं छोड़ना चाहिए क्योंकि कोई भी व्यक्ति असफल हुए बगैर शिखर पर नहीं पहुंच सकता। कोविड के दौरान पूरी दुनिया मंदी की चपेट में आ गई। लोगों

की नौकरियां चली गईं, काम-धंधे बंद हुए। इसे बुरा सपना मानें और नई शुरुआत में जुट जाएं।



कंपनी का नाम अटपटा रखा ताकि लोग पूछें और हमें बोलने का पहला मौका मिले

यह बात है १९८६ की। हमने बैंक से ६ लाख का लोन मांगा। रिजेक्ट हो गया। आज १२ हजार करोड़ का टनऑवर है हमारा। १९९९ में आर आर ग्लोबल की स्थापना की। मारवाड़ी परिवार, इंडस्ट्रियल बैकग्राउंड नहीं। बस मन में एक सोच थी। जो कुछ अलग करने की थी। हमने तय कर रखा था कि जो बनाएंगे उसे एक्सपोर्ट करेंगे। हमने सबसे पहले आर आर केबल से बदलकर नाम रखा केबल को काबेल किया। लोग नाम सुनते ही मतलब पूछते हैं। मेरा मानना है कि आधी जीत तो यहीं हो गई क्योंकि आपको अपनी कंपनी के बारे में बोलने का मौका मिला। एक बात गांठ बांध लीजिए कि - पुराने ढंग से काम करने का तरीका गया। जिस तरीके से हमने शुरू किया अब उस पर चलने से काम नहीं बनेगा। हम यहां ब्रैंड बनाने के लिए हैं। हमारी आयु सबसे कम है। हमसे ज्यादा लाइफ कंपनी की है और कंपनी से अधिक आयु है ब्रैंड की। उससे भी ज्यादा जीता है ट्रस्टेड ब्रैंड।

श्रीगोपाल काबरा, एमडी, आर आर ग्लोबल

विजेची दरवाढ एप्रिलपासून नव्या वीज प्रस्तावाबाबत मुंबईतील सुनावणी पूर्ण



मुंबईतील तिन्ही वीज कंपन्यांची प्रस्तावित दरांबाबतची सुनावणी पूर्ण झाली आहे. या सुनावणीत सहभागी झालेल्यांना आता २३ फेब्रुवारीपर्यंत हरकती नोंदवता येणार आहेत. त्यानंतर १ एप्रिलपासून प्रस्तावित दर लागू होण्याची शक्यता आहे.

वीज वितरण कंपन्यांची पंचवार्षिक वीज दरनिश्चिती १ एप्रिल २०२० पासून झाली. तिसरे वर्ष संपताना या पंचवार्षिक वीज दरवाढीचा फेरआढावा घेतला जातो. त्यानुसार वीज कंपन्या अंतिम दोन वर्षांसाठी नव्याने वीज दरांसंदर्भात प्रस्ताव सादर करतात. असा प्रस्ताव मुंबई शहर व उपनगरांत वीजपुरवठा करणाऱ्या अदानी इलेक्ट्रिसिटी मुंबई लिमिटेड, टाटा पॉवर व बेस्ट उपक्रम या तिन्ही वितरकांनी महाराष्ट्र वीज नियामक आयोगाकडे सादर केला आहे. याच प्रस्तावावर अलीकडेच ऑनलाइन पद्धतीने सुनावणी झाली. तिन्ही कंपन्यांची ही सुनावणी सोमवारी संपली.

या प्रस्तावात तिन्ही वीज वितरकांनी वीजदरात २०२४-२५मध्ये अधिक कपात सुचवली आहे. घरगुती ग्राहक श्रेणीसाठीच्या वीजदरांचा विचार केल्यास, अदानी इलेक्ट्रिसिटीकडून २०२३-२४साठी २ ते ७ टक्के वाढ प्रस्तावित आहे. तर २०२४-२५ दरम्यान मात्र कंपनीने वीजदरात ३ व ४ टक्के कपात प्रस्तावित केली आहे. टाटा पॉवरकडून २०२३-२४साठी तब्बल १० ते ३० टक्के दरवाढ मात्र, २०२४-२५मध्ये ६ व ७ टक्के दरकपात प्रस्तावित केली आहे. बेस्ट उपक्रमने मात्र २०२३-२४ व २०२४-२५ या

महावितरणची सुनावणी निवडक शहरांत सुरू

महावितरणने २०२३-२४मध्ये ३७ टक्के व २०२४-२५मध्ये १४ टक्के दरवाढ प्रस्तावित केली आहे. याबाबत मंगळवारी नवी मुंबईतून सुनावणी सुरू झाली. २३ फेब्रुवारीला पुण्यात, २५ फेब्रुवारीला औरंगाबाद, २७ फेब्रुवारीला नाशिक, २ मार्चला अमरावती व ३ मार्चला नागपूर येथे महावितरणतर्फे सुनावणी घेण्यात येणार आहे.

दोन्ही वर्षी घरगुती ग्राहकांसाठी वीज दरकपात प्रस्तावित केली आहे. २०२३-२४ मधील दरकपात सरासरी ७.३३ टक्के तर, २०२४-२५ मध्ये सरासरी १.१० टक्के कपातीचा प्रस्ताव आहे. यावरच ही सुनावणी घेण्यात आली. मुंबईत अदानी इलेक्ट्रिसिटीचे ३० लाख ग्राहक आहेत. तर, टाटा पॉवरकडून ८ लाख ग्राहकांना वीजपुरवठा करण्यात येतो. साडेदहा लाख ग्राहकांना बेस्टकडून वीजपुरवठा होतो.





KPI Green Energy signs PPA to sell 8.35 MW solar power

KPI Green Energy Limited has signed power purchase agreements (PPAs), under which the company will sell solar power from 8.35 MW (DC) of capacity.

KPI Green Energy will sell this power to five companies in the interdependent power producer segment. The company has signed new PPA with Oriilon India Private Limited (2.05 MW), Urvashi Pulp And Paper Mills Private Limited (1.30 MW), Indo Count Industries Limited (2.50 MW); Oriilon India Private Limited (0.50 MW) and CSC Steel Corporation India Private Limited (2 MW), for sale of solar power.



IMC raises Rs 6.62 billion on first day of green bond issue

Indore Municipal Corporation (IMC) has raised Rs 6.62 billion on the first day for a public issue green bonds.

This was to raise capital for the establishment of a solar power plant worth Rs 2.44 billion. The green bonds were sold at 5.42 times more than the base price at Rs 1.22 billion. IMC will install a 60 MW ground mounted captive solar photovoltaic project in Khargone district in Madhya Pradesh.

MNRE issues order to blacklist renewable energy developers for project delays

The Ministry of New and Renewable Energy (MNRE) has issued an order stating that any renewable energy project not completed by its scheduled date of completion will result in the developer being blacklisted and their bank guarantee encashed.

The blacklisting will be for a period of three to five years. This is the first time the government has taken action against renewable energy developers for delays in project completion. Notably, blacklisting and encashing bank guarantees are in accordance with the government's general financial rules and apply to all tenders and bids.



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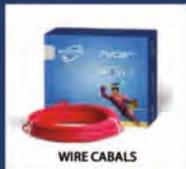
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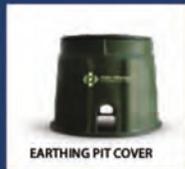
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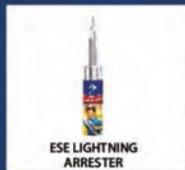
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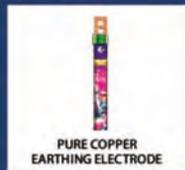
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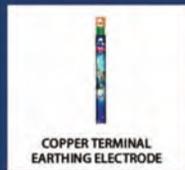
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