VOL.7 Issue 1

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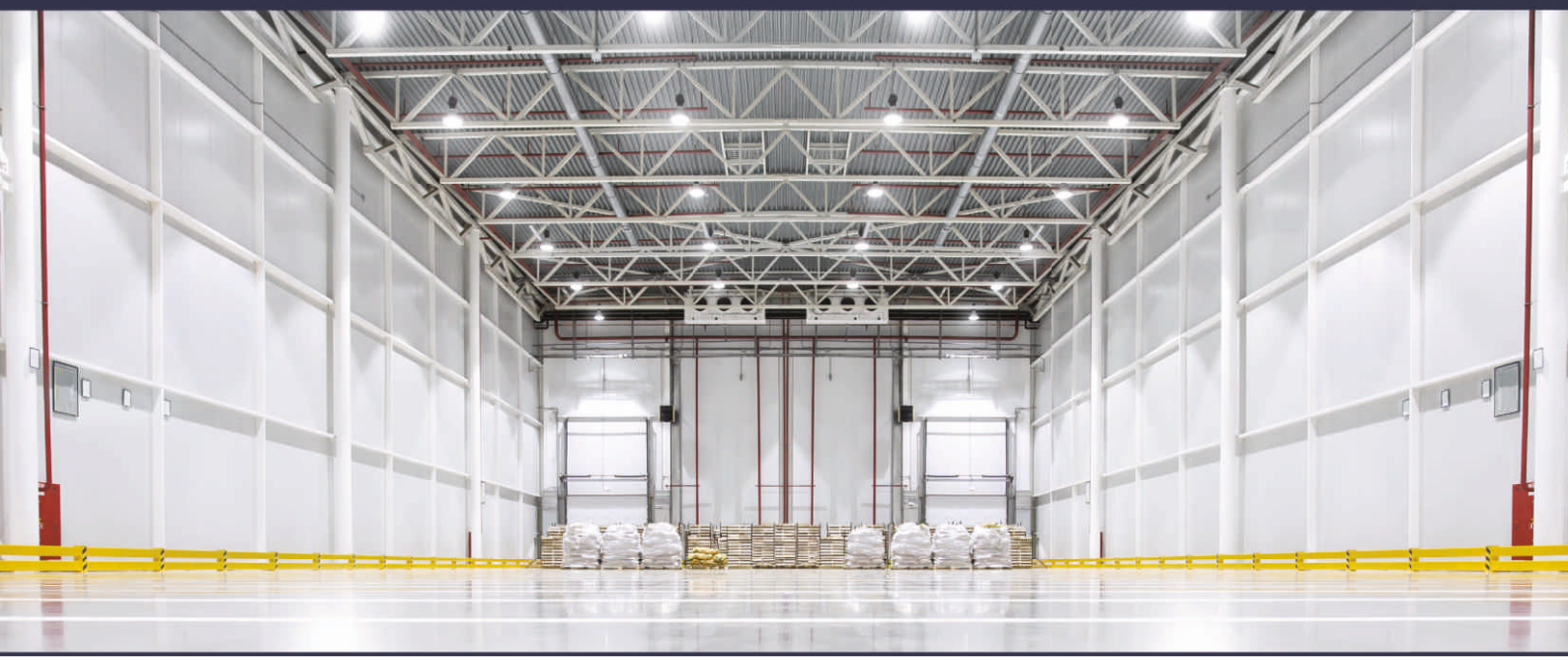

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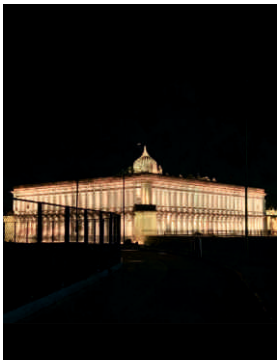

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New Year, New Foundation, New Initiatives

As we embark on a new year, ELCOMA signals a fresh start with the inauguration of our new, wholly owned office in Okhla, New Delhi. This modern facility, equipped with cutting-edge video conferencing capabilities, marks a significant milestone in our five and a half decade journey.

The recent AGM saw the expansion of the ELCOMA Board with the addition of two new Vice-Presidents. This diverse leadership will bring invaluable insights and expertise, enabling us to effectively navigate industry growth, address emerging challenges, and collaborate closely with the government on regulatory matters.

While the Indian economy witnessed a temporary slowdown in Q2 of the current fiscal year, with GDP growth dipping to 5.4%, economists attribute this to a blip in urban consumption across durables and non-durables. However, growth is projected to rebound in the coming quarters, driven by renewed momentum in domestic consumption, investment, and service exports.

The resolution of the LAC standoff with China has paved the way for India to actively engage in global governance reforms, strengthen multilateral trade frameworks, and foster economic cooperation on the world stage.

As the new US administration takes office, we anticipate a period of cautious assessment of economic implications. However, potential trade disruptions between the US and China could present opportunities for India to bolster domestic manufacturing, particularly within sectors like lighting. The future of the Indian lighting industry lies in embracing innovation, with a focus on smart, adaptive lighting solutions that meet and exceed global performance and regulatory standards.

The increasing interdependence of geopolitics and trade policy is reshaping the global economic landscape. Countries are increasingly prioritizing political considerations over purely economic benefits in their trade decisions.

In November 2024, ELCOMA, in collaboration with Messe Frankfurt, hosted a groundbreaking conference at the iconic Yashobhoomi in Dwarka, titled "Lighting the Future, Light of the Future." This event, a departure from our traditional format, brought together a diverse range of stakeholders, including lighting designers, regulators, environmental specialists, influencers, policymakers, and end-users. This inaugural conference marks the beginning of a series aimed at fostering inclusive dialogue and collaboration within the lighting industry.

As we enter 2025, we are confident that the Indian lighting industry, with its proven resilience, will continue to thrive, mirroring the nation's rapid progress across other sectors.

We wish all our members and readers a prosperous and fulfilling New Year.

AMAL SENGUPTA
Secretary General
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Let's build a self-reliant and globally competitive industry

Dear Members,

As we welcome 2025, I extend my heartfelt wishes to all readers and members for a Happy and Prosperous New Year! May this year bring success, growth and happiness to you and your families.

The lighting sector is currently witnessing unprecedented demand driven by the rapid expansion of infrastructure, commercial spaces and industrial projects. However, the economic impact of a reduced Q2 GDP growth of 5.4%, attributed to lower manufacturing and construction, reminds us of the need for resilience and innovation in navigating these challenges.

On the global front, the new US administration, effective from January 20, brings both anticipation and uncertainty. While we remain cautious about potential tariff changes on imports from India, the ongoing US-China trade conditions present significant opportunities for India to strengthen its role in the global supply chain.

West Asia poses additional uncertainties for the global supply chain. Nevertheless, the Indian industry has consistently shown its ability to adapt and capitalize on emerging opportunities.

Today, lighting solutions are evolving beyond traditional illumination. The transition to advanced, IoT-enabled systems is shaping consumer expectations for products that integrate energy efficiency, aesthetic appeal, well-being and seamless digital connectivity. These trends present enormous potential for the industry to innovate and deliver.

At ELCOMA, we continue to align with the Government's 'Make-in-India' initiative by supporting efforts to localize the electronic components used in manufacturing LED lighting products. This is an important step toward building a self-reliant and globally competitive industry.

In 2024, we introduced a new conference format that engaged the lighting design fraternity, influencers, architects and consultants through panel discussions and brand presentations. The positive response has encouraged us to organize similar conferences at least twice a year. Topics like boosting 'Make-in-India' initiatives and raising product specifications have drawn strong interest from senior officials at MEITY, BIS, BEE and DPIIT, reinforcing the importance of these conversations.

Additionally, ELCOMA plans to expand training programs and outreach initiatives to enhance consumer awareness of lighting products and application standards. For instance, we are collaborating with BIS to plan awareness programs around the National Lighting Code.

I extend my deepest gratitude to the ELCOMA Secretariat for their unwavering dedication. Their behind-the-scenes efforts have been crucial to organizing our activities and strengthening our community. I also thank our members for their valuable contributions to Illumination Magazine. Your articles on lighting projects, technical advancements, CSR activities and more continue to inspire and enrich our readers. I encourage you to keep sharing your insights to make Illumination Magazine a hub of knowledge and innovation.

Here's to a bright and successful year ahead!

Thank you and best wishes to you and your families!

Warm regards,

PARAG BHATNAGAR
President
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Indian Lighting Industry will be a key contributor to India's future economic landscape

In conversation with Mr. Parag Bhatnagar, President of Havells India Ltd and newly elected President of ELCOMA, on the past, present and future of Indian Lighting Industry

How has the Lighting Industry evolved in the twenty years that you have been associated with it?

I have seen the transformation of the Indian Lighting Industry from conventional to digital lighting. In my early days, lighting was a "box selling" industry. It was considered as a device to generate light for us to see. Consumer engagement was low. In professional space, lighting calculation was done to achieve a certain lux level.

Over the years, the value of appreciation of light has grown. We see the stakeholders ecosystem growing in the professional segment. Independent Lighting designers who are the specialists are a big part of the project's ecosystem from residential to urban architecture to sports and roadways. Architects are more involved in product selection and concepts and we have specialist green consultants, project management consultants and so on and so forth.

Consumers are more aware, engaged and have access to information on global products & trends. They now give much more emphasis on product aesthetics, design and finish in addition to safety parameters.

From the perspective of the present transformation in lighting related to Smart / Connected / IoT based technology what is the Roadmap for Lighting business at Havells India?

At Havells, our lighting roadmap focuses on leveraging smart, connected and IoT-based technologies to deliver energy-efficient, convenient and user-friendly solutions. We are investing in R&D and have established a Centre of Competence in Bangalore to develop IoT-driven products for both consumer and professional segments. Our goal is to offer reliable, wireless solutions that integrate with existing systems to better serve user expectations and provide satisfying experiences.

Beyond connectivity, we emphasize critical innovations like daylight harvesting for energy savings and lighting solutions that promote health and well-being. We strongly stress ease of installation, adaptability, and sustainability in our smart lighting solutions. Havells is committed to providing reliable technologies that fits into everyday life.

We also have strong focus on sustainable solutions. Solar powered products are a big part of our portfolio and we can offer end to end solution from panels to all-in-one integrated products.

You mentioned that in the last few years there were some disruptions because of the technology changes. Given this situation, how do you see lighting industry growing in the future?

The lighting industry is experiencing remarkable growth, largely driven by the widespread adoption of LED technology, which has transformed the way we light our spaces. LEDs have replaced traditional incandescent bulbs by offering significant advantages, including up to 90% energy savings, a lifespan up to 25 times longer and reduced operational costs, all the while lowering environmental impact.

Beyond energy efficiency, LEDs Now provide better light quality, design flexibility and minimal UV, IR emissions, making them safer for speciality applications like healthcare, museum / art preservation. Looking ahead, the focus is on introducing products and solutions with higher visual quality specification focussing on comfort and well-being. Such solutions are human and environment centric, which enhances well-being, productivity, and minimises impact on the environment, birds, insects etc. All these are possible with smart technologies which enables personalized and adaptable solutions.

The country's GDP is projected to be 7.5 % in FY 25 and India aims to be the third largest economy globally by 2027. How is the Lighting Industry expected to contribute in this economic growth?

The Lighting Industry is set to play a vital role in India's economic growth, particularly as the country aims to become the third-largest economy globally by 2027, with a projected GDP growth of 7.5% in FY25. According to a report by Expert Market Research, the Indian lighting market is expected to grow at a CAGR of 9.8%, reaching USD 8.79 billion by 2032, driven by the transition to energy-efficient LED technology and the increasing adoption of smart lighting solutions. Government initiatives like the UJALA scheme have accelerated LED adoption, contributing to significant energy savings and sustainability effort. Furthermore, as urbanization continues to rise, with projections indicating that urban areas will account for 70% of India's GDP by 2030, the demand for advanced lighting solutions in residential, commercial and infrastructure projects will further bolster this sector's growth. Overall, the lighting industry's evolution aligns with broader economic trends and sustainability goals, positioning it as a key contributor to India's future economic landscape.

ELCOMA has always supported the Government's Make In India initiative. How do you think the PLI Scheme will help the industry to create an ecosystem for domestic manufacturing of components?

The PLI Scheme will only strengthen India's domestic manufacturing ecosystem, especially in the lighting industry. By offering financial incentives tied to incremental sales of locally produced goods, the scheme encourages companies to expand production, reduce import dependency and foster self-reliance in key sectors. The PLI Scheme also supports technological advancements and innovation, positioning India as a stronger global competitor. This initiative is driving growth, sustainability, and new opportunities in the lighting sector and beyond.

Do you believe that Human Centric Lighting has a market in India? In the future where do you see Human Centric Lighting applications being used?

Human Centric Lighting has a promising market in India, given the increasing awareness of its benefits for health, productivity and overall well-being. In educational institutions, HCL can enhance learning environments by adapting lighting to support student engagement and focus, aligning with natural circadian rhythms to improve

alertness during classes and relaxation during breaks. In healthcare settings, HCL can significantly aid patient recovery by promoting better sleep patterns and reducing stress, which is crucial in hospitals and care facilities. Additionally, workplaces can benefit from HCL by creating environments that boost employee productivity and morale through tailored lighting solutions that mimic natural daylight. As technology advances and becomes more accessible, we can anticipate HCL systems being integrated into residential spaces as well, enhancing comfort and well-being for families while addressing mental health concerns associated with inadequate natural light. Overall, the future of HCL in India looks bright as it aligns with the growing emphasis on health and sustainability in modern living and working environments.

Congratulations on becoming President of ELCOMA. What is your vision as President of the lighting association in the coming years?

As President of ELCOMA, my vision is to steer the Indian lighting industry towards becoming a global benchmark in innovation, sustainability and advanced technology. The industry stands at the cusp of a transformation, with opportunities driven by smart lighting, IoT integration and energy-efficient solutions. My focus will be on fostering research, development and manufacturing capabilities to meet the demands of a rapidly expanding infrastructure. By leveraging government initiatives like the PLI scheme and driving collaboration across stakeholders, our aim should be to ensure that India not only leads in lighting technology but also elevates modern living.

How in your opinion can the Lighting Industry mitigate consumer sales related challenges that it faces on a day to day basis?

Challenges in consumer sales within the lighting industry often stem from a lack of awareness about advanced lighting solutions, price sensitivity and the availability of counterfeit products. To address these, it is crucial to focus on consumer education, highlighting the long-term benefits of energy-efficient and smart lighting solutions. Strengthening distribution networks and ensuring the availability of genuine products at competitive prices can further build consumer trust. Additionally, we must offer attractive financing options and collaborate with retailers to create a worry-free purchase experience to ensure that consumers find the entire process accessible.

With the success in ELCOMA conference in November 2024, what are your thoughts on holding such conferences in future will benefit the lighting industry?

The success of the November 2024 ELCOMA Conference highlights the value of bringing together diverse stakeholders to address the opportunities and challenges facing the lighting industry. These conferences provide a vital platform for manufacturers, designers, policymakers and end-users to share knowledge, exchange ideas and collaborate on solutions that drive innovation and sustainability. As we navigate rapid technological advancements and increasing demands for energy-efficient solutions, such gatherings are essential for industry growth, aligning with global trends and strengthening India's leadership in lighting.

Do you see ELCOMA become a platform for Knowledge/ Education Programs in future?

The answer is YES. We are in the final stages of shaping the program which we have developed with inputs from diverse stakeholders, and we will share our plans shortly. We will collaborate with partner associations in lighting and beyond to roll out these programs.

What are the three things you would like to advise ELCOMA to do by which it will serve the industry and the consumers?

ELCOMA members need to focus on raising the specification threshold of products which are made and sold in India and research both in technology and application space. Our application standards need to be evidence based around Indian situations. For example, traffic conditions, pedestrian habits are totally different in India than in Europe. Safety and security requirements are quite different in India than elsewhere. ELCOMA will also collaborate with Academic institutions and explore such research areas in the future.

Concurrently ELCOMA as part of their knowledge and education program will focus on raising awareness of consumers and extended stakeholders on a continuous basis with offline and online programs.

As the President of ELCOMA, what are the technical specs of consumer and professional categories that you think will need to be upgraded for product compliance requirements?

Thus far the focus has been only on energy efficiency. While this is an absolute must and we will continue to improve efficiency parameters not only limiting to LED chip efficiency but overall performance efficacy like optical efficiency, thermal efficiency. The industry will need to upgrade light quality parameters which enhance comfort and well-being like colour rendering index, better colour stability, low glare, low flicker & stroboscopic effect, brightness control, light distribution etc.

In the Smart and IOT space, we need to look beyond lighting and explore opportunities of integration of multiple sensors in lighting like Air Quality, Temperature, Human density, Li-Fi, location tracking etc.

However, all such specifications needs to be created around Indian value proposition and not just adapt available technologies from outside India

IN A LIGHTER VEIN

How do you pass your free time in weekends?
I love to spend my time with family & friends

What are your hobbies?
Reading books

What is your favourite food?
Greek cuisine

What is your favourite Holiday Destination?
Norway, for its natural scenic beauty

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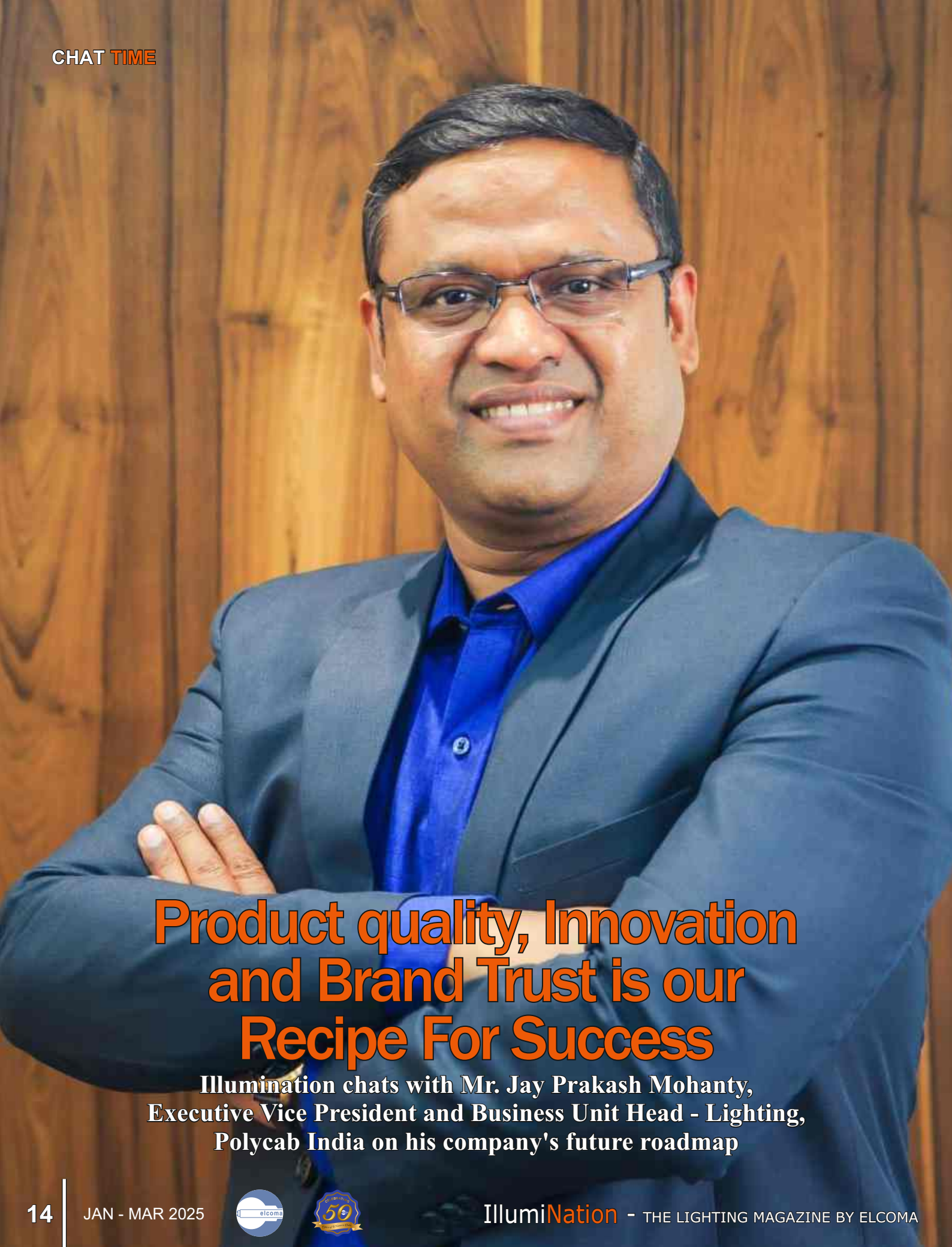


Product quality, Innovation and Brand Trust is our Recipe For Success

Illumination chats with Mr. Jay Prakash Mohanty, Executive Vice President and Business Unit Head - Lighting, Polycab India on his company's future roadmap

Prior to joining Polycab, you had worked in Philips Lighting and Havells. Would you like to share some experiences and learnings that came handy at Polycab?

My time at Philips and Havells gave me insights into channel management, GTM strategies, and scaling businesses efficiently. At Philips, managing diverse markets shaped my approach to distribution, while at Havells, I focused on new product introductions and driving profitability. These learnings are helping me strengthen Polycab's lighting business and channel network.

How did the LED lighting journey begin for Polycab, a brand leader in cables?

Polycab's entry into LED lighting was a strategic extension to provide end-to-end electrical solutions. With our strong distribution, manufacturing expertise, and brand trust, we entered the market focusing on energy-efficient LEDs.

The lighting landscape is shifting towards Smart/Connected lighting. How is Polycab preparing for this transformation?

We are investing in smart lighting innovations while collaborating with technology partners to integrate IoT solutions. Through focused R&D and customer education, we aim to make connected lighting accessible.

Given your experience, what are your focus areas for enhancing channel effectiveness?

Our focus areas for enhancing channel effectiveness include expanding our reach in emerging markets, equipping our partners with product knowledge and tools, leveraging technology for better efficiency and driving incentives to align growth objectives.

The consumer business sees stiff challenges from competition. How do you plan to combat this?

By focusing on product quality, innovation and leveraging Polycab's brand trust while ensuring strong distribution and targeted marketing campaigns we are creating our presence in this competitive market.

Do you support ELCOMA playing an active role with Government bodies like BIS and DPIIT?

We have recently become an ELCOMA member and we firmly believe that ELCOMA's role is crucial in uplifting standards, ensuring safety and promoting local manufacturing through collaboration with Government bodies.

We share and are aligned to ELCOMA's goals and vision since we promote local manufacturing, encourage innovation in lighting products and support export growth by aligning with global standards.

We would like ELCOMA to support the industry further by raising product standards for safety and quality, foster R&D for innovation and also support SMEs with technology and market access.

Have you observed a change in consumer behavior in recent time and how does marketing and R&D adapt to this?

Consumers now prefer energy-efficient and smart solutions. Our R&D focuses on innovation, while marketing emphasizes awareness and engagement through digital platforms.

How is Polycab contributing to sustainability and carbon footprint reduction?

We drive sustainability through LED adoption, eco-friendly products and optimized manufacturing processes to minimize waste and emissions.

With India aiming to be the third-largest economy by 2027, how will the lighting industry contribute to this growth?

The industry will support infrastructure development, energy savings and local manufacturing, contributing to job creation and economic growth.

Jay Prakash Mohanty is a distinguished executive with over 20 years of leadership experience in the lighting industry. Currently serving as the Executive Vice President and Business Unit Head for Polycab India's Lighting Division, Jay is known for his exceptional strategic vision, business acumen and track record of driving transformational growth. His career has been marked by pivotal roles across leading organizations such as Century LED, Havells India and Philips Lighting, where he has consistently leveraged his expertise to deliver outstanding results in business development, distribution, and P&L management.

In his role at Polycab, Jay leads with a focus on strengthening market position, optimizing operational efficiency and enhancing channel effectiveness. He has pioneered initiatives that have not only expanded market reach but also increased profitability for the business. Under his leadership, Polycab's lighting division has achieved significant milestones, benefiting from his keen insights into consumer behavior, competitive positioning and industry trends. Jay's ability to align cross-functional teams and drive collaborative efforts has been instrumental in building high-performance units and fostering innovation within the organization.

IN A LIGHTER VEIN

How do you unwind after a hectic day or weekend at work?
I enjoy spending quality time with family, reading, or listening to music. It helps me recharge for the next day.

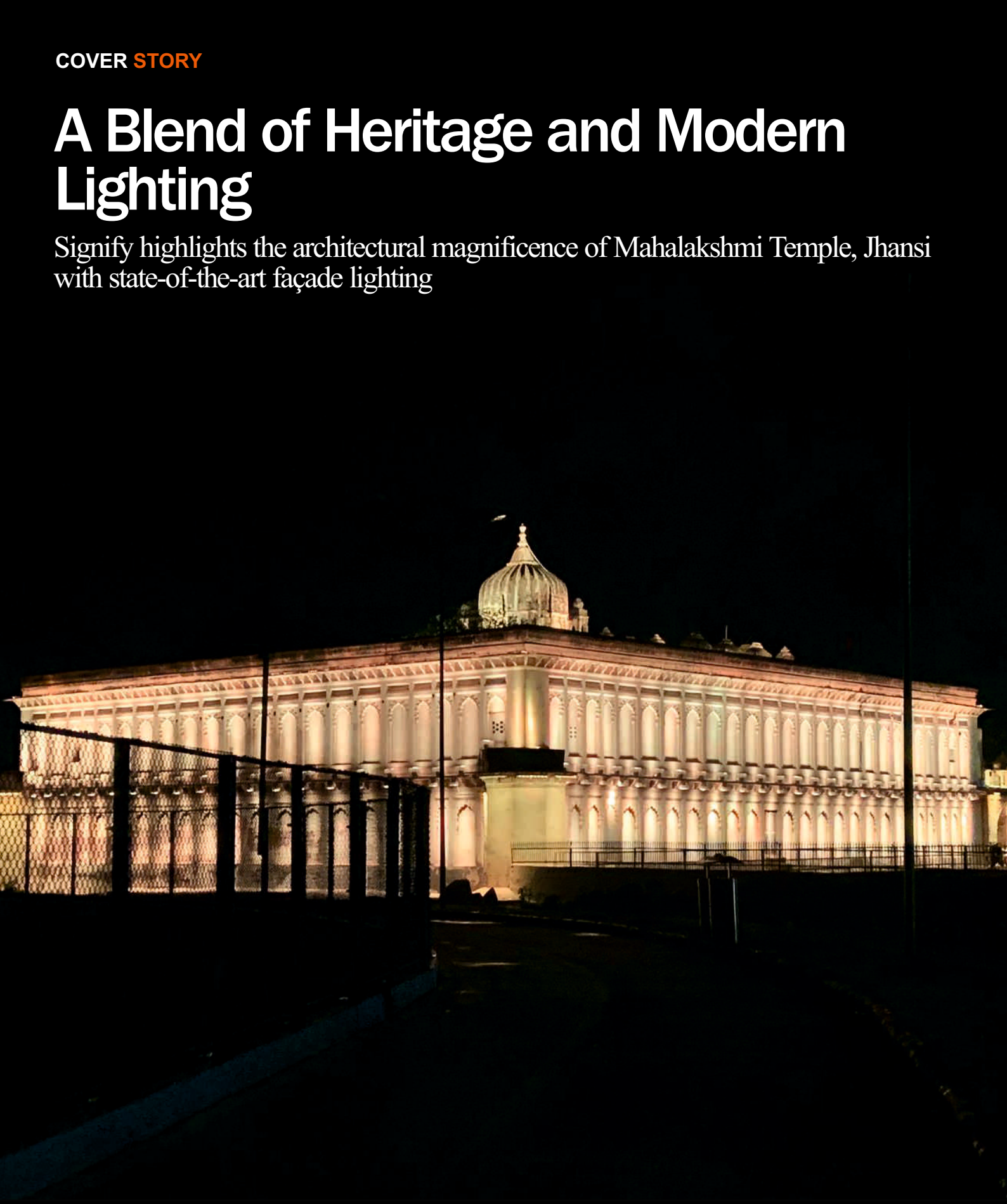
What are your top two holiday destinations?
Switzerland & Australia

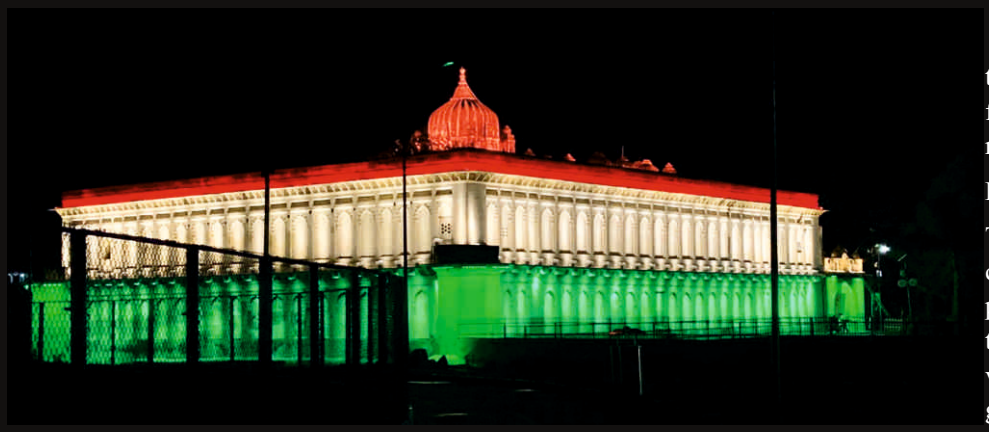
What kind of food/cuisine do you like?
I love Indian cuisine, especially a well-prepared Biryani or fresh coastal seafood.

INTERVIEWED BY ILLUMINATION EDITORIAL TEAM

A Blend of Heritage and Modern Lighting

Signify highlights the architectural magnificence of Mahalakshmi Temple, Jhansi with state-of-the-art façade lighting





Mahalakshmi Temple, located on the serene banks of Lakshmi Tal in Jhansi, Uttar Pradesh, is a timeless symbol of devotion and cultural heritage. Dedicated to Goddess Lakshmi, the Hindu deity of wealth, prosperity, and good fortune, this ancient temple stands as a beacon of spiritual and architectural brilliance.

Architectural Grandeur

The temple's architecture is a marvel, featuring intricate carvings and detailed sculptures of Hindu deities that reflect the rich traditions of Indian craftsmanship. The temple is not only a place of worship but also a prestigious heritage site that attracts devotees and tourists alike, eager to witness its timeless beauty and spiritual ambiance.

Innovative Façade Lighting

What sets the Mahalakshmi Temple apart is its state-of-the-art façade lighting design, which enhances its architectural magnificence while preserving its historical essence. The lighting is meticulously planned to create multiple layers, highlighting each level of the temple differently. This layered design offers unparalleled flexibility to adapt the lighting themes for various occasions and festivals, transforming the temple into a visual spectacle.

Camouflaged and Efficient Lighting

To maintain the aesthetic integrity of the temple, compact linear grazers are seamlessly integrated into the architecture. These luminaires are strategically installed to blend with the temple's structure, ensuring that the focus remains on the lighting effects rather than the fixtures themselves.

DMX-Controlled Dynamic Effects

The lighting system employs DMX-controlled luminaires, allowing for precise customization of effects to suit the mood of the occasion. Whether it's a vibrant theme for Diwali or a subtle glow for regular evenings, the system offers unparalleled versatility to achieve the desired ambiance.

A Symbol of Heritage and Progress

The Mahalakshmi Temple in Jhansi is a shining example of how heritage sites can embrace modern technology without compromising their cultural and historical significance. The innovative lighting design not only enhances the temple's visual appeal but also makes it a landmark of pride for the city, inviting visitors to experience its grandeur in a whole new light.

Through its perfect blend of tradition and modernity, the Mahalakshmi Temple stands as a testament to the evolving ways of celebrating India's rich heritage.

AUTHOR : SIGNIFY INNOVATIONS INDIA LIMITED

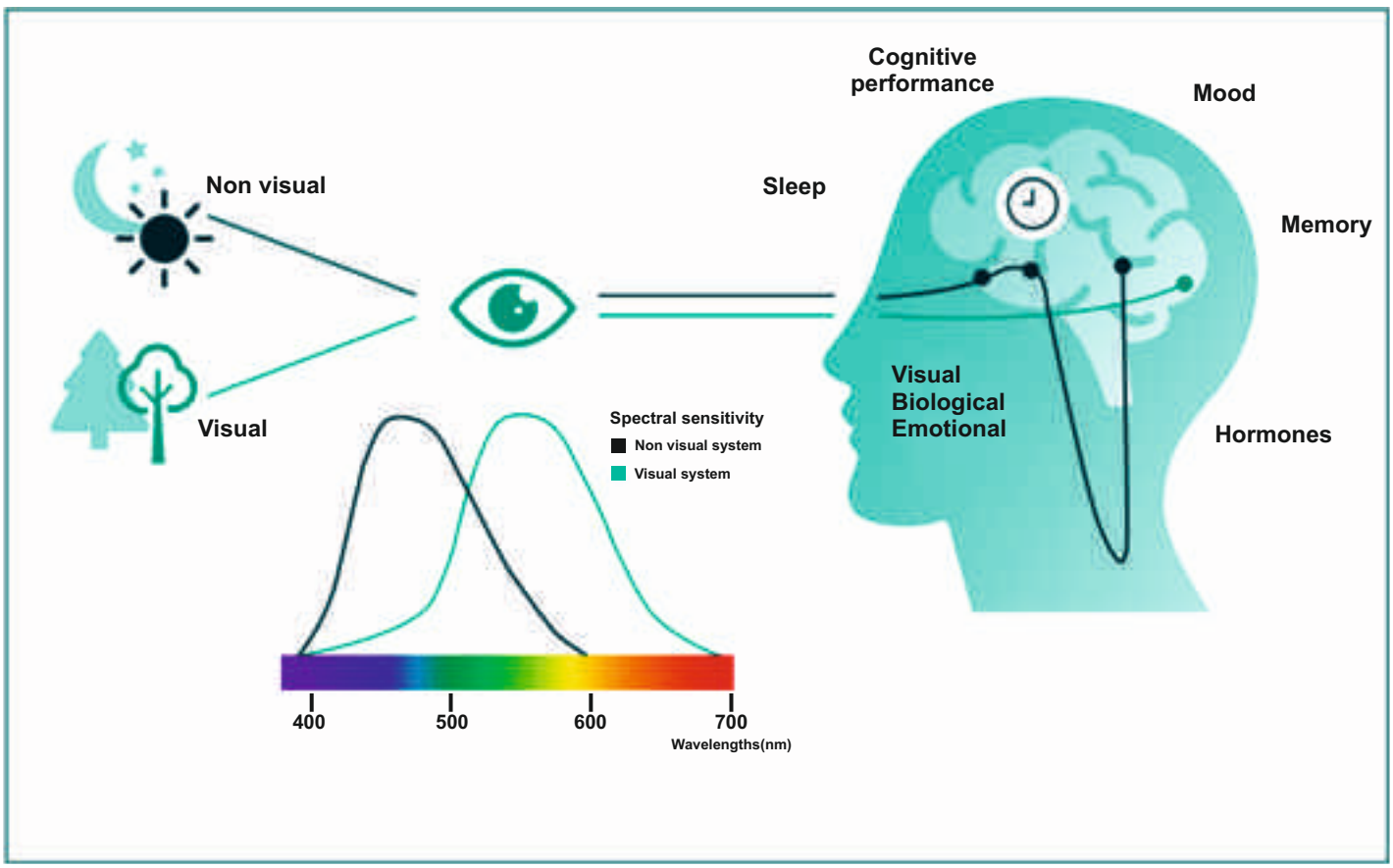
Impact of Lighting Design on Health and Wellbeing

A look at why organizations are stressing on enhancing workplace comfort through lighting design for health and well-being of their employees

Employers are increasingly realizing that people are their greatest asset, not just their highest cost. To attract and retain talent, employees' health and wellbeing is a high priority because they know flourishing employees are what drive a thriving business. As 90% of business costs are staff related, investing in comfort can be one of the fastest ways to boost efficiency. So, it's not surprising that many organizations are keen to enhance workplace comfort and use health and wellbeing building certifications as guidance and proof points.

We spend 90% of our time indoors and thus it becomes more important to make the indoor workspaces much more welcoming, less stressful and more productive. One of the parameters which plays a vital role is the lighting design of that area which is crucial for health and well-being because it has a direct impact on our physical, mental, and emotional states. It impacts sleep, mood, cognitive function, safety and social interaction, making it an essential aspect of any built environment.

To be active during the day and rest well at night, our body needs a stable predictive cycle that is synchronized to the natural day rhythm. In the morning, people need a boost in energy and focus, to function effectively during the day. Morning light plays a significant role in triggering this energy boost and bright light during the day enhances circadian rhythm, regulating the sleep-wake cycle. Traditional workplace design focusses on providing light that is good for vision and in line with the norms in indoor spaces: 300-500 lx. However, natural daylight levels are much higher than these levels, ranging from 10,000-100,000 lx.



Light enriched in the 450-530 nm range is proven to be an effective and powerful light signal to regulate the timing, robustness and rhythmicity of the body clock, thus directly impacting the ability to stay alert and focused (for work or learning) during the day or to fall (or remain) asleep at night. The spectral sensitivity of humans for light in the range of 450-530 nm has been related to specific intrinsically photosensitive ganglion cells in the retina and is also referred to as melanopic light. However, the effectiveness of light to regulate the body clock does not just depend on the intensity and spectral composition of light. It is also influenced by exposure duration, prior light history and timing of the light exposure, as well as individual sensitivity to light.

International lighting community has agreed upon two new metrices for providing information about product as well as lighting design for impact of light on health and well-being. These metrices are – MDER (Melonopic Daylight Efficacy Ratio) for products and MEDI (Melonopic Equivalent Daylight Intensity) for lighting Design. A good lighting design for indoor workplaces should ensure minimum MEDI as 250 lx at eye level in the viewers' direction. So, what's the best way to achieve that? One way is to increase the horizontal photopic lux levels on an office desk to around 1000 lux. But this would need extra investment and consume twice the amount of energy. A better way to get more light to fall into the eye is to use specifically designed luminaires that can provide spectral tuning. This will have the same benefits as applying higher light levels, while using less energy, and still activating the ganglion cells and positively affecting circadian rhythm.

Lighting product that mimics daylight by simulating the sun's daily patterns and replicates a view of the sky can serve the human centric lighting in Indoor environment much better than ordinary solutions. Using light recipes that boost energy levels and help indoor spaces feel more spacious and in sync with nature. A right solution turns indoor areas into productive and inspiring spaces.

For spaces where daylight is an issue, a suitable product needs to be installed to create inspiring work environment, provide critical melatonin support during the day for a good sleep-wake cycle since good sleep is supportive for general wellbeing.

Today's workplaces are not limited to performing day-to-day jobs, but for inspiring, collaborating and creating an experiential learning environment that caters to the needs of employees of various age groups and diverse backgrounds. One of the key factors in good lighting design is providing thematic lighting based on zone activities, for example, functional lighting in workstation areas that improves focus and performance of individuals, particularly for tasks that require attention to detail, such as reading, writing, or visually intensive tasks. Insufficient lighting can strain the eyes and reduce cognitive performance. Finding the right balance using optical design to improve lighting distribution can also contribute to eye comfort by increasing the ratio between light that lands on vertical and horizontal surfaces. LEDs can provide biologically active light that enhances light-related workplace satisfaction and creates a connection with the dynamics of natural light. Similarly, in breakout zones, lighting can be more subtle, inviting, and relaxing to provide a much-needed break.

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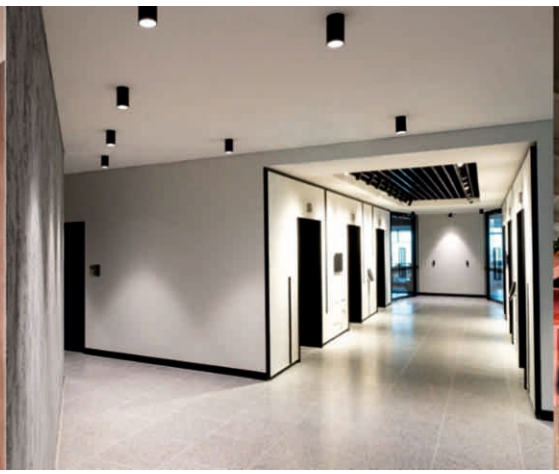

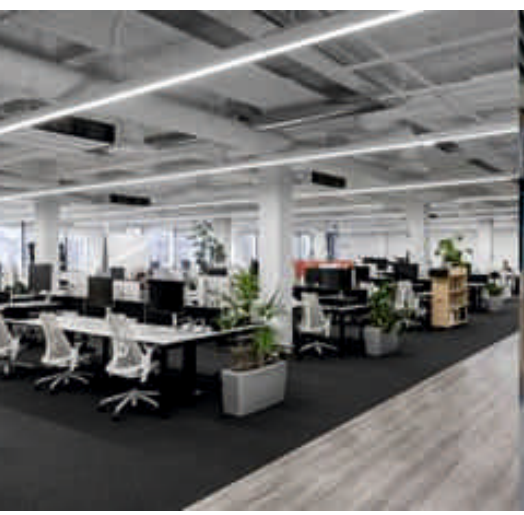

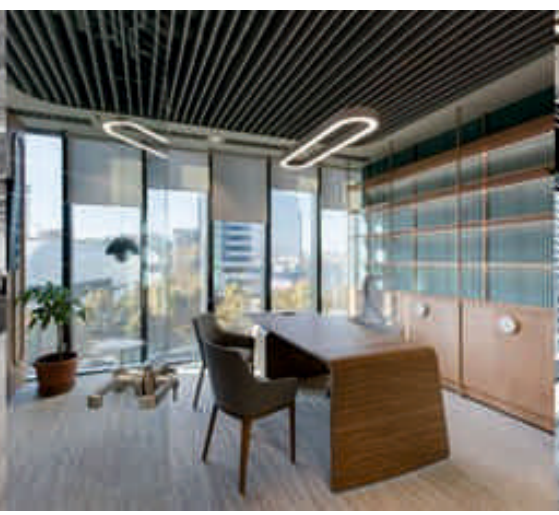

Lighting Innovations Illuminating the Future

Radhika Opto Electronics Limited has roots dating back almost 4 decades and has come a long way since its humble beginnings. The company started off making conventional lighting fixtures for Crompton Greaves and steadily grew its operations till 2012 where it reached an inflection point with the advent of commercialized LED lights after which the company grew at a rapid pace. We had the foresight to see how disruptive this new technology would be and we decided on capitalizing on this opportunity. Driven by our visionary approach, relentless hard work, exceptional teamwork and uncompromising ethical standards, we constantly added new and innovative products to our portfolio and expanded our customer base to reach all major LED brands of India.

RK

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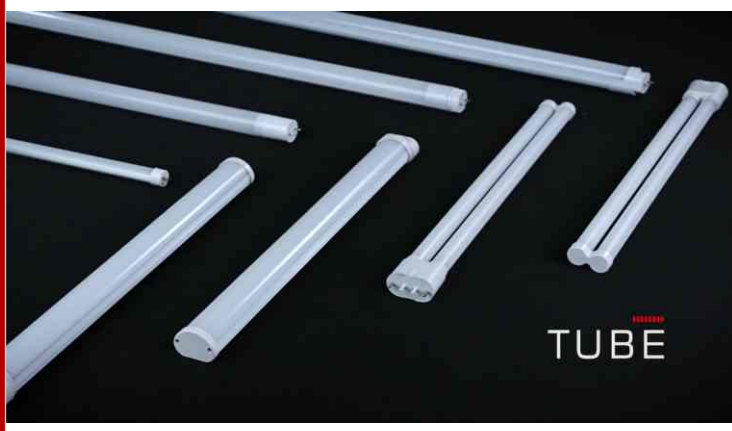

ELCOMA Organizes Conference at Light + LED Expo India 2024

ELCOMA, as the knowledge partner for Messe Frankfurt at the Light + LED Expo India 2024, successfully organized and conducted the Conference on "Lighting the Future, Light of the Future" on 22 November, 2024, at Yashobhoomi Convention Centre, Dwarka, New Delhi. The ELCOMA Conference Committee consisted of Chairperson Sudeshna Mukhopadhyay (Havells), Pon Kumaresh (Bajaj Electricals), Uma Lanka (Crompton Greaves), Megha Soni (Signify), Saumen Bhaumik (Havells), Vishal Mahendru (Surya) as well as Amal Sengupta, Deepak Kumar and Rajesh Kachwaya from ELCOMA who jointly put in a lot of efforts to make the conference a success that was much appreciated by all industry stakeholders.

The conference was sponsored by Signify, Havells, Bajaj, Crompton, Surya and LEDVANCE and supported by various organisations including DPIIT (Department for Promotion of Industry and Internal Trade), MEITY (Ministry of Electronics and Information Technology), EESL (Energy Efficiency Services Limited), BIS (Bureau of Indian Standards), BEE (Bureau of Energy Efficiency) and ESSCI (Electronics Sector Skills Council of India) along with Messe Frankfurt India.

The conference was curated to provide a platform for collaboration, networking and knowledge sharing by engaging with key stakeholders - Independent Lighting Designers, Architects, MEP Consultants, National Policy makers, Standards Organisations, Regulators, Green and Sustainability Councils, Government departments, Facility managers, Project managers, Captains of the Lighting Industry, Manufacturers and Component suppliers. The delegates / attendees represented a mix of private and government buyers.

The conference was divided into three parts - the Inaugural Session, the Knowledge session and the Policy Session.

CONFERENCE INAUGURAL SESSION

The conference started with an invocation to the Almighty seeking blessings, followed by lighting of the Traditional Lamp by ELCOMA Board members and members of the organising committee – Mr. Parag K Bhatnagar, Mr. Jitendra Agrawal, Mr. C Arun Kumar, Mr. Amal Sengupta, Ms. Sudeshna Mukhopadhyay and distinguished guests Mr. Saurabh Kumar (VP -GEAPP) and eminent Lighting Designers Mr. Anil Valia, Dr. Amardeep Dugar, Mr. Sarvdeep Basur, Ms. Surbhi Jindal and Mr. Linus Lopez.

Mr. Parag Bhatnagar, President, ELCOMA, delivered the inaugural

address where he outlined his vision on the road map of ELCOMA to put the Indian Lighting Industry on the pole position, globally. The Lighting industry continues to face challenges in its transformation process to digital lighting, with the market getting dominated by low performing specifications, leading to price erosion and stagnated / low growth. Mr. Bhatnagar emphasised that while such business challenges will always be there, this is also an opportune moment to open the horizons to embrace new and futuristic and sustainable technology which positively influences well-being, health, productivity and aesthetics, while being cognizant of the impact on the environment. He emphasised on 4 key pillars which when strengthened will accelerate the path to thought and technological leadership of India, leading to business growth.

- Need to work collaboratively with key stakeholders and specialists in the field of lighting applications and technology, influencers and buyers to create a "pull" for high specification and high technology products in both consumer and professional markets.
- Indian brands and manufacturers to invest significantly in local R&D programs, to develop solutions which are locally designed and locally produced rather than only adopting imported product designs.
- Collaborate with policy makers and standardisation bodies to upgrade the required standards, codes, regulations and policies to benefit Indian consumers.
- Co-work with industry experts and create a structured program for continuing lighting education and create consumer and market awareness on lighting policies, standards and practices

Mr. Bhatnagar's optimistic opening remarks set the tone of the conference and ended with him thanking all the members, panelists and delegates for their support and wished that the conference would be a success.

Ms. Sudeshna Mukhopadhyay, Chairperson of the Conference committee, in continuation to the last point mentioned by the President, ELCOMA, explained the rationale behind changing the format of a presentation-based conference to one with more interactive sessions with diverse profile of panelists. She reiterated on the need to foster closer collaboration within industry members and the external community to elevate the lighting knowledge and awareness level and grow the Lighting market in India. She also mentioned that a calendar for education programs and general symposia will be shared by ELCOMA in January and will engage key stakeholders.

Key Note Speaker and distinguished guest at the Conference was Mr. Saurabh Kumar, Vice President - The Global Energy Alliance for People and Planet (GEAPP) who was formally introduced by Mr. Jitendra Agarwal, Vice President ELCOMA and CEO of Surya Roshni.

In his address, Mr Saurabh Kumar,

recalled his long association with the lighting industry and congratulated them for working collaboratively on several government initiatives like UJALA and SLNP, to make LED light sources and luminaires affordable, stretching back to 2014. Such projects in cooperation with ELCOMA members, demonstrated resilience of the industry and innovation in accelerating LED adoption in India. This made a significant contribution to India's endeavour to reduce energy consumption and carbon emissions. He shared worrying statistics on Climate Change and the impact it has on the future of our planet. India being a signatory of the Paris Agreement has an uphill target to meet the national commitment to reduce the total projected carbon emissions by one billion tonnes from now onwards till 2030. Lighting Industry is a key stakeholder and has to introduce products which are more energy efficient and sustainable while positively impacting environmental and human well-being. He ended his address by congratulating ELCOMA for organising the conference with diverse profile of speakers and delegates.

A vote of thanks for the session was proposed by Mr. Amal Sengupta, Secretary General of ELCOMA. He thanked the supporting partners for their contribution – DPIIT (Department for Promotion of Industry and Internal Trade), MEITY (Ministry of Electronics and Information Technology), EESL (Energy Efficiency Services Limited), BIS (Bureau of Indian Standards), BEE (Bureau of Energy Efficiency), ESSCI (Electronics Sector Skills Council of India) as well as Messe Frankfurt India for their partnership and support with the venue and hospitality. He also thanked the sponsors Signify, Havells, Bajaj, Crompton, Surya and LEDVANCE along with all the delegates. He also made a special mention of the efforts of the conference committee members and ELCOMA secretariat who planned and hosted the conference within a very short period of time.

The Inaugural Session concluded with a panel discussion on **"Emergence of Professional Independent Lighting Design Practice and influence on Lighting Market in India".** The profession of Independent Lighting designers is now well established in India and they are considered as Subject Matter Experts in Lighting Design Applications and technology. Lighting designers are now deeply entrenched in large and speciality projects across all application segments like Residential, Retail, Hospitality, Workspaces, Urban Architecture, Airports and Public Infrastructure projects as the specialist specifiers.

ELCOMA, for the first time, hosted a formal interactive session with the fraternity of lighting designers. The panel was represented by Mr. Anil Valia (Lighting Designer and Educator, founder member of ISLE and member of various Global and National Lighting Associations), Mr. Linus Lopez (Lirio Lopez Lighting Design Consultant and founder member of LiDAI), Mr. Sarvdeep Basur (Lucent Worldwide and

founder member of LiDAI), Dr Amardeep Duggar (Lighting Design Alliance- founder member of LiDAI and representative member of global associations like IES-NA and IALD) and Ms. Surbhi Jindal (Da Lighting Hub and Ambassador of Women in Lighting). The discussion was moderated by Ms. Sudeshna Mukhopadhyay. The panelists while sharing their inspiring journey into the field of lighting design when it was in nascent stage were also forthright and ready with a “demand and wish-list” for ELCOMA. The List was long and varied and included the use of right terminology for lighting, introduction and standardization of better colour quality and better optically controlled products, focus on education and awareness, continuous engagement to exchange ideas and partner in such conferences and lighting programs.

The invigorating discussions concluded that the lighting designers, with their deep insights into customer needs, local and global technology trends, standards, design and application practices, have a positive and impactful transformative influence on the growth and upliftment of the lighting industry in India and will be key stakeholders in the lighting industry of the future.

The main conference featured 3 Sessions, deliberating on key issues and policies that significantly influence development of the future road map for the Industry. These important knowledge sessions were sponsored by leading lighting brands of India.

SESSION 1 : SMART AND RESPONSIBLE URBAN LIGHTING… IMPACT OF LIGHTING ON HUMANS AND ENVIRONMENT

This session was sponsored by Signify Innovations and Crompton Greaves and the session moderator was Mr. Sarvdeep Basur of Lucent Worldwide. The panelists included Harmeet Issar (Design Matrix), Ifthihkar Ilyas (Lite Lab),

Jaspreet Chandok (Ethereal Design), Preeti Srivastava (Dy Director, Tourism), Gurpreet Shah (Creative Group), Anupam Mittal (ARINEM Consulting Services Pvt Ltd), Mili Majumdar (GBCI), Vikas Malhotra (Signify Innovations), Uma Lanka (Crompton Greaves) and Vishal Mahendru (Surya Roshni).

Mr. Basur moderated the panelists with sharp questions and humour and kept the audience enthralled for over an hour. Discussions ranged on various issues such as 'interpreting responsible lighting', 'over lighting the city with permanent festive lighting', 'increasing lighting levels to make city safe' and 'myth of lighting being linked to safety and security in urban spaces'. The panelists deliberated on how 'L1' buying criteria negatively impacts the lighting quality and aesthetics especially in architectural lighting projects and its probable mitigation by widely adopting Quality & Cost Based Selection (QCBS) methodology and engaging the key stakeholders like lighting designers / architects / manufacturers during the conceptual and budgeting stage, to approve a realistic budget for the project. The team from manufacturers - Signify, Surya and CG collaboratively emphasised that the Indian Lighting industry is ready to offer “Responsible” products which meet global standards on sustainability, light distribution, spectral / glare control, with smart connected solution, as long as the “value” is specified and Buyers are ready to pay the additional value. This can only happen when our standards and codes are updated and upgraded to include trending concepts like impact of Artificial Lighting at Night and mandating the use of Code of Practice.

In conclusion, the panelists felt that collaboration with all stakeholders during the conceptual stage, especially for large urban projects would be the key success criteria. This would pave the way for growth of advanced, sustainable, affordable, value based, smart and connected solutions which are important for safety, well-being of residents and the environment and make our urban spaces attractive.

SESSION 2 : WELLNESS IN BUILT ENVIRONMENT - INCREASING AWARENESS AND ADOPTION OF INTEGRATIVE LIGHTING WITH SMART / CONNECTED LIGHTING SOLUTIONS

This session was sponsored by Bajaj Electricals Ltd and the moderator was

Ashish Rakheja of Aeon Integrated Building Design Consultants. The panelists were Samdarsh Nayyar (Sunil Nayyar Consultant), Bhawna Singh (RSP Associate-Interior Projects), Mohit Gupta (Cushman & Wakefield), Ashish Bahal (Lucent Worldwide), Vistasp Bhagwagar (AVA Design Studio), Akshara Vyas (Nulty), Ponkumaresh Muthaiah (Bajaj Electricals) and Sudeshna Mukhopadhyay (Havells).

Mr Ashish Rakheja moderated this session with great vigour and literally led from the front. His sharp, witty, challenging, rapid-fire question to the panelists and audience ensured that any post-lunch alertness dip, disappeared immediately. The open, engaging and intellectually triggering deliberations also brought upfront the conflicts between costs and design ethos which has led to lower adoption of "Human Centric Lighting" by end users. While the concept of energy efficiency and LPD in built environment is more understood and accepted, the understanding of Lighting and WELLNESS has gaps. The panel discussion revealed that there are diverse interpretations on what would be the basis of WELLNESS triggered lighting solutions. Responses ranged from Dynamic lighting, Tunable Lighting, Mood Lighting, Daylight integration, Ambient lighting, Spatial Lighting and Volumetric Lighting. Adding to this jumble, are multiple commercial brandings like Circadian Lighting, Dynamic Lighting, Human Centric Lighting, etc. Lighting and WELLNESS concept is still interpreted in pieces and it is time that designers, users, buyers and manufacturers integrate them. All panelists emphasised that the concept of WELLNESS should be part of standards like IS 3646, National Lighting Code and National Building Code and include the guidelines for lighting parameters/criteria linked to WELLNESS. All the Codes need to be synergised and cross referenced, so that that there are no contradictions. The manufacturer representatives mentioned that smart technologies from simple occupancy-based sensors to IOT based/AI enabled systems, are already available in the Indian market and many brands are offering solutions which are designed, developed and manufactured in India.

The panel concluded that the concept of Integrated Human Centric Lighting is still evolving and has low penetration in projects. With close stakeholder engagement in creating awareness, updating Indian Lighting Application standards, National Lighting and Building Code, making affordable solutions around the Indian workplace, there is ample opportunity to grow this important market segment.

SESSION 3 : ACCELERATING MAKE IN INDIA, POLICIES AND STRATEGIES FOR ADOPTING HIGHER SPECIFICATIONS ACROSS MARKET SEGMENT AND POSITIONING INDIA AS A KEY RESOURCE FOR TALENT AND

PRODUCT SOURCING

This session was sponsored by Havells India Ltd and Surya Roshni Ltd and the moderator was Amal Sengupta, Secretary General, ELCOMA. The panelists were Dr. Ashish Kumar (Senior Consultant, DPIIT), Dr. Bharat Yadav (MeitY), Ms. Pravatanalini Samal (Director, BEE), Mr. Asit Maharana (Head of ETD, BIS), Mr. Jitendra Agrawal (CEO, Surya Roishni and ELCOMA Vice President), Er. Vimal Kumar (Chief Engineer & Executive Director, CWPD), Mr. Anil Choudhary (EESL), Mr. Pushpraj Giri (Havells), Mr. Nitish Poonia (Signify and Lead IWG, ELCOMA), Mr. Gautam Brahmbhatt (Head-Quality, UL India Testing Laboratories), Mr. Amrit Manwani (Sahasra Semiconductors) and Mr. Sudhir Patil (LEAP Electronics Pune).

This last and eagerly awaited session started with a fully packed audience and was moderated by Mr. Amal Sengupta, Secretary General of ELCOMA, a well-known name with Lighting Policy makers in India. The nodal government bodies on policies like DPIIT and MEITY, shared the upcoming initiatives and stated that there has been significant increase in the number of manufacturers applying and getting approved under the PLI scheme. India now has their first chip packaging unit set up by Saharsha Electronics, which is a significant enabler in the journey of Make in India. Concurrently, the scope of CRS labelling under MeitY is being widened to include more products and performance parameters. BEE shared the history of their close working with ELCOMA members on various CDM schemes. BEE is also co-working with ELCOMA to raise the threshold values of efficacies and include more product types. However, they urged that manufacturers should have more 4 and 5 star products for sale in the normal market and not just offer 1 and 2 star, for pricing reasons. BIS shared that their teams are already in close collaboration with ELCOMA and large testing facilities like UL to upgrade Product and Application standards aligning with global standards and making them relevant for India. Large buyers like EESL and CPWD actively support the Make in India initiative and set up criteria for vendor registration accordingly. EESL, who have been in the forefront in deploying benchmark initiatives like Ujala and SLNP, paving the way for local, affordable LED products, is continuing to evolve and will deploy more such projects. The manufacturers (large and self-entrepreneurs) stressed that PLI scheme should include local designing capability and testing infrastructure. True Make in India should embrace "Designed in India", too.

Key takeaways from this session was the dire need to elevate product and application standards to include performance and lighting quality parameters, local manufacturing of electronic components, deployment of stricter vigilance and penalty on non-compliant products, creating awareness on standards and policies to a larger stakeholder community of consumers and buyers and mandating Lighting Application standards for all Application segments.

In conclusion to the daylong conference, ELCOMA Conference committee reiterated their commitment to working collaboratively with all stakeholders to regularly organise knowledge sessions, policy discussions, stakeholder engagement which will positively impact and grow the Lighting Industry in India.

We welcome inputs and suggestions on future Knowledge Sessions and Conference programs. Please write to amalsengupta@elcomaindia.com or sudeshna.mukhopadhyay@havells.com

AUTHOR: SUDESHNA MUKHOPADHYAY, CHAIRPERSON-ELCOMA CONFERENCE COMMITTEE AND VICE PRESIDENT-HAVELLS INDIA LTD

Odisha's Temples receive a Radiant Revival By Eveready Lighting

Eveready's collaboration on a visionary initiative by the Odisha Government illuminates the Architectural Grandeur of three temples with the Power of Dynamic Facade Lighting for a Vibrant Experience

The state of Odisha, renowned for its rich cultural heritage and majestic temples, has witnessed a remarkable transformation in its architectural marvels. This transformation owes much to the collaborative efforts of Eveready Industries India Ltd: Lighting Department and the Odisha government, aiming to amplify the splendour and popularity of iconic temple sites. By integrating innovative lighting solutions, these sacred landmarks have been revitalized, attracting both pilgrims and tourists from across the globe.

The Jagannath Temple in Chhendipada, Angul, the Ramchandi Temple in Chhendipada, Angul and the Jagannath Temple in Nayagarh are three prominent temples that have benefited from this visionary project. These revered sites, already celebrated for their architectural beauty and spiritual significance, now exude an ethereal charm after sunset, thanks to cutting-edge facade lighting systems.

DYNAMIC LIGHTING FOR A VIBRANT EXPERIENCE

Facade lighting plays a pivotal role in enhancing the visual appeal of historical and cultural landmarks. For these temples, Eveready Industries implemented advanced dynamic RGBW linear and floodlight fixtures. These state-of-the-art lighting systems, controlled by DXM controllers, enable a myriad of colour combinations and effects. The seamless interplay of vibrant hues and dynamic patterns accentuates the intricate

carvings and architectural details, creating an awe-inspiring spectacle.

The primary objective of deploying facade lighting is to:

- **Highlight Architectural Features:** The intricate carvings and designs of the temples are accentuated, allowing visitors to appreciate the craftsmanship even after dusk.
- **Attract Tourism:** The dazzling lighting displays are a magnet for tourists, making these temples must-visit destinations for both domestic and international travellers.
- **Preserve Heritage:** By illuminating these landmarks, the initiative ensures they remain prominent and celebrated symbols of Odisha's cultural identity.

The RGBW lighting fixtures provide an unparalleled level of customization, transforming the temples into dynamic canvases of light. The DXM controllers orchestrate these fixtures to create mesmerizing light shows, transitioning seamlessly between colours and effects. This not only enhances the aesthetic appeal but also fosters a deeper emotional connection among visitors, who are often left spellbound by the illuminated beauty.

A VISIONARY INITIATIVE BY THE ODISHA GOVERNMENT

The Odisha government's decision to integrate such lighting solutions reflects a broader vision of promoting cultural tourism. By enhancing the visual allure of these temple sites, the initiative fosters increased footfall, boosting local economies and spreading awareness about the state's rich heritage. Additionally, it underscores a commitment to preserving and celebrating Odisha's timeless traditions in a modern context.

The collaboration between Eveready Industries India Ltd: Lighting Department and the Odisha government marks a significant milestone in architectural and cultural preservation. The dynamic facade lighting of these temples not only uplifts their aesthetic value but also reaffirms Odisha's position as a cultural hub. This innovative approach to heritage illumination ensures that these temples continue to inspire awe and reverence for generations to come.

AUTHOR: EVEREADY INDUSTRIES INDIA

Havells' Artisky: Bringing Sunlight Indoors at Pune Metro Station

An innovative installation by Havells that uses HCL to promote well-being among commuters at a Metro Station

The Havells Artisky installation at the Pune Metro Station (Kashapeth, Mandai) exemplifies how innovative lighting solutions can enhance urban environments. Designed with Human-Centric Lighting (HCL) technology, Artisky offers a revolutionary approach to creating spaces that balance functionality, comfort, and well-being.

HUMAN-CENTRIC DESIGN

Artisky aligns with the body's circadian rhythm by simulating natural daylight cycles. This dynamic lighting system provides cool, energizing light in the morning to enhance alertness that gradually transitions to warm, calming tones in the evening, promoting relaxation and preparation for rest.

BIOLOGICAL BENEFITS

By supporting natural light synchronization, Artisky positively impacts commuters by reducing stress and improving sleep quality through the regulation of melatonin and cortisol as well as enhancing productivity and psychological well-being.

SUPERIOR LIGHTING QUALITY

Artisky has high Color Rendering Index (CRI) of 95 that ensures vibrant, true-to-life colors, mimicking natural sunlight. The product also has customizable Light Parameters that allow for adjustments in color temperature and brightness that create an immersive, human-friendly lighting environment.

SMART CONNECTIVITY

Artisky's advanced control systems include control panels that have pre-programmed scenes like Morning, Noon, Evening and Cloudy for on-site adjustments. It also can be controlled though a Mobile App for Bluetooth-enabled remote operation via smartphones. The product can also can be controlled using DALI Systems that offer centralized lighting management with the capacity to control up to 64 units via RF technology.

PRACTICAL VERSATILITY

The Artisky is available in 2x2 and 2x4 sizes and each unit covers up to 15 square meters, making it suitable for public spaces like metro stations and indoor environments such as offices and residential areas.

SUSTAINABILITY FOCUS

The Artisky incorporates energy-efficient LED technology and intelligent control systems, reducing energy consumption while delivering superior performance. This initiative underscores Havells' commitment to sustainable urban solutions.

IMPACT ON URBAN SPACES

The installation at Pune Metro Station redefines public spaces, enhancing aesthetics while prioritizing commuter well-being. It demonstrates how thoughtful lighting design can transform transit hubs into modern, health-promoting environments.

Havells India Limited, with Artisky, has not only illuminated the Pune Metro Station but also showcased the potential of lighting technology to enrich lives and promote urban innovation.

AUTHOR: HAVELLS INDIA LIMITED

Heritage Lighting: Preserving History with Illumination

Heritage lighting plays a vital role in highlighting the beauty, significance and historical value of iconic monuments, landmarks and cultural structures. Proper illumination enhances the aesthetic appeal of heritage sites while ensuring their preservation and accessibility during nighttime hours. With advancements in lighting technology, the concept of heritage lighting has evolved, focusing on energy efficiency, smart control and minimal environmental impact.

Importance of Heritage Lighting

Heritage lighting is not just about illumination but about storytelling. By strategically lighting a monument, its architectural nuances, textures and historical essence come alive, creating an immersive experience for visitors. It draws attention to cultural landmarks and helps boost tourism while instilling pride in the community. Additionally, modern heritage lighting incorporates sustainable solutions to preserve the monument without causing harm to the structure or surroundings.

Some of the Key Features of Heritage Lighting include

- **Architectural Enhancement:** Lighting highlights intricate details like carvings, facades, and contours of the monument, making them visible and captivating at night.
- **Energy Efficiency:** LED lighting solutions ensure low energy consumption while offering brighter illumination.
- **Smart Lighting Control:** Programmable lighting systems enable dynamic effects, adjusting intensity and colors to create different moods and themes.
- **Durability and Safety:** High-quality, weatherproof luminaires are used to ensure longevity and protection from environmental conditions.
- **Minimal Intrusion:** Designs are carefully planned to ensure that lighting installations blend seamlessly with the heritage site without disturbing its structural integrity.

Emerging Trends in Heritage Lighting

The latest trends in heritage lighting focus on energy efficiency, sustainability and smart technologies. LED Lighting has replaced traditional systems, offering high efficiency, low power consumption and a longer lifespan. Dynamic Lighting Controls with DMX systems allow programmable color changes and intensity adjustments to suit different events or occasions. Solar-Powered Solutions ensure renewable energy usage, reducing environmental impact. IoT-Based Monitoring enables remote operation, real-time performance tracking, and maintenance optimization. Precision Optics and glare-free lighting ensure targeted illumination without damaging heritage structures. Advanced techniques like projection mapping and adaptive lighting further enhance storytelling, preserving the site's essence while captivating visitors.

Bajaj Electricals, a pioneer in lighting solutions, has played a key role in illuminating several iconic heritage structures across India. With expertise in energy-efficient and aesthetically pleasing lighting systems, Bajaj Electricals has successfully brought numerous historical landmarks to life after sunset.

Golconda Fort, Hyderabad

One of Bajaj Electricals' most notable projects, the Golconda Fort was

GOLCONDA FORT, HYDERABAD

illuminated with advanced LED lighting to emphasize its majestic structure. The lighting enhances the fort's architecture while preserving its historical essence, creating a mesmerizing visual spectacle for visitors with Bajaj luminaires. This project was a Joint Initiative by The Indian Oil Foundation & ASI and was designed by Lucent Worldwide

Chhatrapati Shivaji Maharaj Terminus (CSMT), Mumbai

CSMT, a UNESCO World Heritage Site, was transformed with dynamic ligh ting by Bajaj Electricals. The lighting system highlights the Victorian Gothic architecture of the station, with color-changing effects that celebrate the beauty of this iconic structure. The project has become a symbol of Mumbai's heritage and attracts visitors from around the world. This project was an initiative of MTDC & Central Railways of India and was designed by Bajaj Electricals.


CHHATRAPATI SHIVAJI MAHARAJ TERMINUS (CSMT), MUMBAI

Visvesvaraya Bhavan, Patna

The Visvesvaraya Bhavan in Patna, housing Bihar's Department of Social Welfare, underwent a transformative façade lighting project to enhance its architectural grandeur. High - performance RGBW Linear Wall Washers were employed to ensure uniform illumination across the expansive structure, avoiding dark spots and bright patches. The RGBW technology enabled dynamic color displays, adding vibrancy for events and celebrations. This energy-efficient solution not only elevated the building's aesthetic appeal but also adhered to sustainable practices by minimizing energy consumption. The lighting scheme enhanced Visvesvaraya Bhavan's visibility, establishing it as a prominent and visually striking government landmark, especially at night. The project was initiated by the Building Constructions Department, Patna and was designed by Bajaj Electricals


VISVESVARAYA BHAVAN, PATNA

Heritage lighting is an art that preserves history and celebrates culture. Bajaj Electricals has emerged as a leader in this field, blending cutting-edge technology with artistic precision to illuminate India's treasured landmarks. Their work on projects like Golconda Fort, CSMT Station and Visvesvaraya Bhavan reflects their commitment to showcasing the country's rich heritage in its best light. With a focus on sustainability, innovation and aesthetics, heritage lighting ensures that the glory of our past continues to inspire future generations.

AUTHOR: BAJAJ ELECTRICALS

Illuminating the Spirit – Halonix Theme Streetlights Illuminate Ayodha

Halonix's theme Street Lights proudly shine in celebration of the Lord Rama Temple construction in Ayodhya, marking a new era of faith and heritage

AUTHOR: HALONIX TECHNOLOGIES PVT LTD

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BATH + LIGHT

Standards and Regulations Update

A: Implementation of QR codes on LED lamp under the S&L Program

Regarding the implementation of QR Code on self-ballasted LED Lamps, the previous BEE advisory No. BEE/S&L/QRCODE/84/2023 dated 25th September 2024 stands cancelled, where QR code implementation was supposed to be mandatory from 01 Jan, 2025.

BEE has issued an advisory through advisory BEE/S&L/QRCODE/84/2024 dated 16 December 2024. As per the advisory,

- QR code implementation will be mandatory from 1st March-2025.
- For Led Lamps upto 5W, the Model name and star ratings must be displayed on the lamp itself, while the QR Code should be placed on the packaging (the requirements for LED Lamps above 5W will remain unchanged as per the existing regulations).
- The QR Code should be placed directly below the specimen label on the packaging. In case of space constraints, manufacturer may place the QR Code on a separate side of the packaging.
- Manufacturer and permittees intending to set up trial and process can access the portal w.e.f. 16th December 2024.
- The steps for implementation the process are

Step1: Log into the BEE Portal

Step2: Click on the Secure QR Code Icon

Step 3: Search for details using the model no/Application ID

Step 4: Click on the view Link

Step 5: Request QR Code generation

Step 6: Download the QR Code PDF File

Step 7: Update the value of the used QR Code

For any technical assistance, the BEE SL IT Team can be contacted at beesl-it@beeindia.gov.in

B: Update on ETD23 Meeting

S.NO.	STANDARDS	ACTIONS REQUIRED
1.	Revision of IS 15885 (PART-1): 2011 Safety of Lamp Control gear Part 1 General Requirements	ELCOMA will review and align the standard with IEC 61347-1: 2015 as an Indian Standard. The committee will review the requirements of country-specific modification/ suggestions. (National Annexure)
2.	IS 15885: Part 2: Sec 13	Revision of IS 15885 (Part 2/Sec 13): 2012 will be aligned with latest IEC
3.	IS 16102 (Part 1): 2012 Self – Ballasted LED Lamps for General Lighting Services Part 1 Safety Requirements	Under wide circulation
4.	IS 16102 (Part 2): 2017 Self – Ballasted LED Lamps for General Lighting Services Part 2 Performance Requirements	Under wide circulation

Some more standards under revision/amendments:

S. NO.	DOCUMENT NO.	TITLE
1.	ETD/23/25617, IS 8913: 1978-Revision	Standard method of measurement of lamp cap temperature rise (First Revision)
2.	ETD/23/26497, IS 16614 (Part 1): 2018-Revision	DOUBLE-CAPPED LED LINEAR LAMPS PART 1 SAFETY REQUIREMENTS (First Revision) of IS 16614 Part 1
3.	ETD/23/26420-Amendment, IS 16614 (Part 2): 2022	Double-Capped LED Linear Lamps Part 2 Performance Specification Amendment – 1
4.	ETD/23/27110, IS 16103 : Part 1: 2012-Revision	LED Modules for General Lighting Part 1 Safety Specifications (First Revision)
5.	ETD/23/27111, IS 16103 (Part 2): 2012-Revision	LED Modules for General Lighting Part 2 Performance Requirements (First Revision)
6.	ETD 49 (27112) WC, Second Revision	Luminaires Part 5: Particular requirements Section 1: Fixed general-purpose luminaires
7.	ETD 49 (27113) WC, Second Revision	Luminaires Part 5: Particular requirements Section 2: Recessed luminaires and recessed air-handling luminaires
8.	ETD 49 (27115) WC, Second Revision	Luminaires Part 5: Particular requirements Section 3: Luminaires for road and street lighting
9.	ETD 49 (27116) WC, First Revision	Luminaires Part 5: Particular requirements Section 4: Portable general-purpose luminaires
10.	ETD 49 (27117) WC, Second Revision	Luminaires Part 5: Particular requirements Section 5: Floodlights
11.	ETD 49 (27118) WC, First Revision	Luminaires Part 5: Particular requirements Section 6: Handlamps
12.	ETD 49 (27119) WC, Second Revision	Luminaires Part 5: Particular requirements Section 7: Lighting chains
13.	ETD 49 (27120) WC, First Revision	Luminaires Part 5: Particular requirements Section 8: Luminaires for emergency lighting

AUTHOR: SANTOSH AGNIHOTRI (CHAIRPERSON, ELCOMA TECHNICAL COMMITTEE) AND GENERAL MANAGER- QUALITY & TECHNICAL, ORIENT ELECTRIC LIMITED

Light + LED Expo India 2024

light + LED expo INDIA

India's premier expo on lighting and LED, Light + LED Expo India organised by Messe Frankfurt in association with ELCOMA was held in Novermber 2024 at Yashobhoomi, Delhi focusing on energy-efficient, sensor-based, human-centric and aesthetically pleasing lighting solutions.

As a platform that embraces the entire Lighting and Smart Home Automation Technology, Light + LED, India promotes innovation and inspiration and serves as a business platform for the industry creating opportunities for networking, collaboration and knowledge sharing.

The expo this year featured 229 exhibitors of which 126 companies were from intelligent lighting solutions and congregating the entire lighting and LED ecosystem of India, the event attracted over 11000 visitors from 377 Indian cities, 34 States and union territories and 20 Countries.

Various workshops and knowledge sessions held in association with the Illuminating Engineering Society (IES), Women in Lighting (WIL), Lighting Designers Association of India (LiDAI) and Electric Component Manufacturers' Association (ELCOMA), discussed technicalities as well as ideas and innovative ways of playing with light and amplifying its impact for user experiences and functional use.

Mr Arun Kumar, Signify, Head – Consumer Business India: “It is fantastic as usual and the best part is the Messe Frankfurt India having the program in collaboration with ELCOMA which is really helping the industry. We see many participants here and it is a good forum to come, experience and see what's happening here. Lighting is moving to the next level - from the conventional to LED and now it is getting more into the 'smart' segment. It is a very good show and also happens in Frankfurt. For people who cannot travel, a show like this happening in India should continue and be encouraged.”

The exhibition garnered strong support from India's leading industry associations and government bodies such as the Ministry of Electronic & Information Technology (MeitY), the Ministry of Commerce & Industry,



Energy Efficiency Services Limited (EESL) – the Ministry of Power, LiDAI (Lighting Designers Association of India), CREDAI-MCHI, Council of Architecture (CoA), Luminaire Accessories Components Manufacturers Association (LACMA), Indian Building Congress (IBC), Solar Energy Society of India (SESI), Bombay Suburban Electric Supply (BSES), The Calcutta Electric Traders Association and the Secunderabad Electric Traders Association.

AUTHOR: MESSE FRANKFURT INDIA

ISA awards Mr. Santosh Agnihotri Global SSL Award for Outstanding Industry Development 2024

ISA (International Solid State Lighting Alliance) awarded "Global SSL Award for Outstanding Industry Development (AOID) 2024" to Mr. Santosh Agnihotri for his outstanding contribution to SSL industry. ISA promotes the global SSL sustainable development by recognizing industry leaders, industry organizations, project teams, institutions, etc. that have made outstanding contributions to the SSL (Solid State Lighting) development at regional/global levels within a certain time or period.

Mr. Ruisheng Yue, Co-Secretary General of ISA while conferring the award said "It is my great honor to inform you, on behalf of Dr. Jianlin Cao the chairman of ISA, that you have been awarded as the winner of ISA 'Global SSL Award for Outstanding Industry Development (AOID) 2024'. I do share the sentiment at this joyous moment with my heartfelt congratulations. The Award to you is not only an honor but also a recognition for your excellent contribution on SSL development to your country and the region for so many years."

The Jurors that adjudicated the award had the following to say regarding their selection of Mr Agnihotri

- (he has had a) … Lifetime of involvement in Indian standardization, compliance testing and product development
- Santosh Agnihotri has made major contributions to the development of the Lighting Industry in India through his role with ELCOMA, his support of the Bureaus of Energy Efficiency and Indian Standards and his articles in the Illumination magazine
- His contribution for SSL in committees to promote SSL many years in India is well recognized.
- Standardization and technical regulation for such a huge market as India is a very difficult task. Mr. Santosh Agnihotri has done an outstanding job in this direction.

New ELCOMA Board Elected

In the 54th ELCOMA Annual General Body Meeting that was held on 4th October 2024 at Merigold Hall, India Habitat Centre, New Delhi, the new ELCOMA board was elected for next term for the period 2024-26.

Mr. Parag Kumar Bhatnagar, President, ELCOMA

Mr. Bhatnagar is a transformational and progressive leader with over 20 years of experience, driving innovation and profitable growth in multi-business industries such as lighting, consumer durable products, engineering and industrial products.

Currently is President of Havells India Ltd and Member of executive management committee, Mr Bhatnagar is responsible for driving change management, setting up new business verticals, identify and implement disruptive technologies & processes, and Go-To-Market & operational strategy.

Prior to joining Havells, he was associated with Jubilant and Philips and has held national level roles since long and has been a key member of core management teams in earlier organizations.

Mr Bhatnagar is a science graduate and has an Executive MBA in Strategy from IIM Calcutta, Organizational Leadership from IIM Bangalore, Advanced Management Program in Business/Commerce from The Kellogg School of Management at Northwestern University and Digital business transformation from ISB Hyderabad.

Mr. Jitendra Agrawal, Vice President, ELCOMA

Mr Agrawal is an experienced global business leader with over 28 years of experience. As the Chief Executive Officer – Lighting and Consumer Durables, Surya Roshni Ltd, he is currently responsible for driving profitable growth of Surya Roshni's Lighting and Consumer Durable Business.

Mr Agrawal has played an active role in championing the cause of energy efficiency in his long career, be it with consumers or working on new energy efficient products and solutions or engaging with internal and external stakeholders.

Prior to Surya, Mr Agrawal was Sr. Vice President at Luminous and a Sr. Director at Philips Lighting for 19 years. He is an Electrical and Electronics engineer from Mangalore University and has completed his leadership development program from Wharton University

Mr. C Arun Kumar, Vice President 2, ELCOMA

With over three decades of rich experience, Arun is currently the Head of Consumer Business at Signify, Greater India. Playing a pivotal role in leading the business he drives conceptualizing growth strategies, strengthening the product narrative, increasing demand for product offerings, and engaging collaboratively across the board with a talented team to deliver 360-degree solutions for the customers across India.

Hand in hand with the PAN India team he focuses on strategic decision-making, executing policies, prospecting for novel growth avenues, and fortifying the company's corporate identity. Arun has held leadership positions in B2C and B2B domains aimed to create a value proposition at every stage of his career, charting out high-impact business with effective and efficient strategies.

He believes in fostering an environment that welcomes ideas, innovations, and conversations across the team that steer the company towards nurturing talent, creating path-breaking milestones, and driving a successful narrative. His core competencies and skillsets include strategic planning, market research, P&L centers, nurturing DEI, ESG goals, business analysis, product development, product commercialization, business development – organic and inorganic, customer value management, operational excellence, new businesses development, product innovation, cost management, channel operations, consumer analytics and customer insights amongst others.

Mr. Rajesh Naik, Vice President 3, ELCOMA

As the Chief Operating Officer of the Lighting Solutions Business at Bajaj Electricals Limited, Mr Naik oversees the company's India operations in consumer and professional lighting is transforming and strengthening the business in the country.

Prior to his role at Bajaj Electricals, he worked with Crompton Greaves Consumer Electricals for over two decades and was responsible for P&L for the lighting, appliances, security solutions and wiring businesses accessories. He also led technology and quality assurance functions in the lighting division and represented Crompton Greaves in all industry initiatives, including ELCOMA, BIS and BEE amongst others.

Mr Naik has been a member of several industry bodies such as the Indian Society of Lighting Engineers, National Lighting Code Committee under BIS, Member of ET 23 & ET 24 Committee of BIS, and Captain in ELCOMA

Mr. Amit Mittal, Treasurer, ELCOMA

Mr Mittal who is currently Sr. Vice President, Dixon Technologies, has over 25 years of experience in manufacturing operations in different industries. His last experience was with a Dutch MNC leading their Green Field Project in Pune and with Philips where he was the Plant Head for Mohali Factory and Outsourcing Operations Lead for LED Lamps.

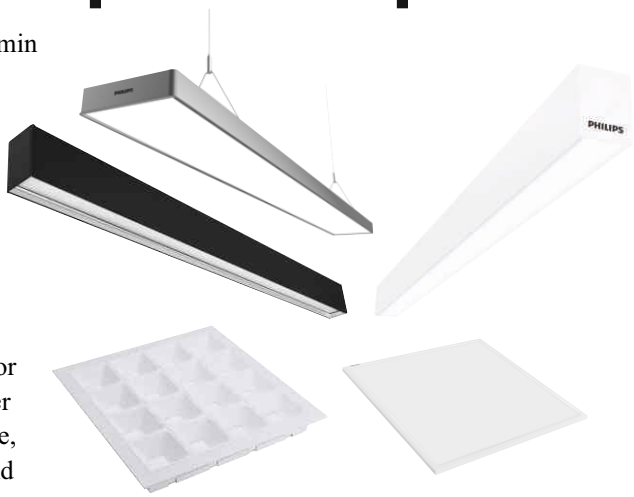
A Graduate in engineering from Punjab Engineering College, Chandigarh, Mr. Mittal is a Lean master and Certified Six Sigma Black Belt

PRODUCT SHOWCASE

Signify introduces Philips VitaUp

Signify, the world leader in lighting, recently launched its revolutionary product, Philips VitaUp, in India. This innovative product is designed to support personal well-being by providing a low-intensity dose of UVB over a long period in an indoor setting. Philips VitaUp aims to enhance overall health and well-being by promoting strong bones and teeth, supporting immune function, improving mood and overall cognitive functions.

Research indicates that approximately 50% of the global population suffers from Vitamin D insufficiency. Philips VitaUp addresses this need by utilizing light to induce the production of Vitamin D, promoting overall health and well-being. A study conducted in Sunderland, using similar technology, demonstrated the effectiveness of low-intensity UVB exposure in boosting Vitamin D levels.



Philips VitaUp's benefits extend beyond physical health, providing a low-intensity dose of UVB, supporting emotional well-being as well. It also features an integrated proximity sensor and an inbuilt 8-hour timer for safety and convenience, making it user-friendly and easy to use.

Philips VitaUp is designed for optimal lifetime with thermal protection. This ensures that the product is durable and reliable, providing long-term benefits to users. In terms of integration and control, Philips VitaUp stands out with its seamless compatibility. It features a Zhaga LEX-M form factor, compatible with SNS accessories, and DALI and MasterConnect compatibility through an isolated port. It also includes selected diagnostics for operation time and fault detection, ensuring seamless integration and control.

Bajaj Launches PRAZE LED Flood Light

Bajaj recently launched the PRAZE floodlights that transform spaces with brilliance, efficiency, and innovation. Engineered for diverse applications, PRAZE sets new benchmarks in performance and smart lighting technology, making it the ultimate choice for modern lighting needs. From industrial hubs to sports arenas and expansive outdoor spaces, PRAZE combines powerful performance with aesthetic design to redefine how you experience light. With PRAZE, you don't just light up spaces—you elevate them.

- **Unmatched Illumination:** Customers can achieve exceptional illumination with outstanding uniformity and optimal lux levels for large spaces.
- **Precision Optics:** Available in Symmetric, asymmetric, bisymmetric to meet all area lighting application requirements.
- **Incredible Efficacy:** Helps to achieve peak performance with an impressive efficacy of 140 lm/W, ensuring maximum energy savings.
- **Robust Build:** Pressure die-cast aluminium body with a sleek graphite grey finish ensures durability and modern aesthetics.
- **Maximum Protection:** Toughened glass, silicone gaskets, and aluminium die-cast are cornerstone materials in outdoor illumination, proven over a century in challenging environments ensuring exceptional protection against dust, humidity, and toxins, delivering unmatched durability and reliability.
- **Smart Integration:** Users can operate the PRAZE floodlight remotely and enhance operational efficiency through the Bajaj CitiSol platform and other smart solutions. Option available with NEMA & Zhaga connectivity.

Luker Launches New Industrial LED Lighting Range with 5 year warranty

Luker Electric Technologies introduced a new range of industrial LED lighting solutions designed for reliability, energy efficiency and durability. The lineup includes FARO Well Glass LED Lights, AVIOR High Bay LED Lights Outdoor, ALCOR LN5Y LED Flood Lights and STRADA LN5Y LED Street Lights, all backed by a 5-year warranty.

FARO Well Glass LED Lights are weather-resistant lights that are perfect for harsh environments, providing durable illumination for warehouses and outdoor spaces. They offer high efficiency with a long lifespan of up to 50,000 hours.

AVIOR High Bay LED Lights are designed for large spaces with high ceilings and deliver superior brightness while reducing energy consumption. Their versatile design ensures optimal coverage and long-lasting performance.

ALCOR LN5Y LED Flood Lights are ideal for outdoor applications like construction sites and sports fields where these floodlights offer high brightness and energy savings, with robust, weather-resistant construction for reliable performance.

STRADA LN5Y LED Street Lights are smart street lights that ensure uniform illumination for roads and highways, enhancing visibility and reducing energy use. They are durable, weather-resistant, and perfect for municipal lighting.

Orient Electric launches Laser Lights

The Linear Laser Light is a modern architectural lighting solution that adds a touch of sophistication to any space. With its sleek, minimalist design, this stylish fixture enhances the aesthetic appeal of your interior. Available in various shapes (linear and square) and wattages (From 6W to 32W), it offers flexibility to suit different lighting needs and complements a wide range of architectural styles. Whether for residential or commercial settings, the Linear Laser Light provides both functional and decorative lighting, making it a perfect choice for those seeking a contemporary, streamlined look.

These lights operate within a wide voltage range of 100V to 440V and support a rated voltage of 220-240V AC. The Premium Black Finish Reflector with White Housing features a narrow beam angle of up to 24°, ideal for focused lighting, and is rated IP20, making it suitable for indoor use. It is available in three color temperatures: Cool White (6000K), Neutral White (4000K), and Warm White (3000K), offering a tailored lighting experience for any space.

LEDVANCE Launches Essential Lighting Accessories

LEDVANCE has expanded its product offerings by introducing an innovative range of lighting accessories aimed at complementing its existing portfolio. This new range includes essential and high-demand products such as bulb holders, remote bells, water alarms, doorbells, ceiling roses and more. Each of these products has been thoughtfully designed to enhance convenience, safety and aesthetics in both residential and commercial spaces.

These accessories address everyday needs, ensuring ease of use, safety and style, which adds value for end consumers.

Products like the water alarm and remote bell cater to modern safety concerns and convenience, making them attractive to tech-savvy and safety-conscious customers. By diversifying its product line, LEDVANCE empowers its dealers to cater to a broader customer base. The inclusion of accessories offers cross-selling opportunities alongside existing lighting products.

Signify to illuminate 100+ forest villages in Uttar Pradesh

Further to the #BrighterLivesBetterWorld vision Signify, exchanged a Memorandum of Understanding (MoU) with BharatCares, in the presence of the Principal Chief Conservator of Forest/Chief Wildlife Warden, Department of Environment, Forest & Climate Change, Government of Uttar Pradesh, to illuminate 100+ rural and forest villages in Uttar Pradesh with energy-efficient LED streetlights.

The project is aimed at enhancing the quality of life in these villages, reducing human-wildlife conflict, increasing rural development, extending time for livelihood activities, and improving safety for women and children. The role of the Environment, Forest and Climate Change Department, Government of Uttar Pradesh will be instrumental in this initiative for identifying the villages, providing the necessary support on ground and overall collaboration to drive this initiative across these forest villages for a better tomorrow.

In line with the CSR initiative 'Har Gaon Roshan', Signify will light up the streets of these villages with energy-efficient LED street lighting solutions. In partnership with BharatCares by CSRBOX, during the first phase, 45 rural and forest villages around Pilibhit Tiger Reserve will be benefitted by installing 750 high quality energy-efficient LED street lights

"We are extremely proud to launch this initiative with Uttar Pradesh's Environment, Forest and Climate Change Department and BharatCares, focused on addressing the concerns beyond illumination by lighting up the forest fringe villages in Uttar Pradesh. By empowering these communities with the power of light, we aim to bring safety and create a lasting impact on the villages. This project is yet another great example of our relentless efforts towards a better tomorrow for everyone," said Nikhil Gupta, Head of CSR, Government Affairs, Marketing & Strategy at Signify.

By bringing the transformative power of light to these 100+ villages, this initiative is dedicated to improving the lives of thousands of people and contributing to a brighter and more sustainable future for rural Uttar Pradesh.

AUTHOR: SIGNIFY INNOVATIONS INDIA LIMITED

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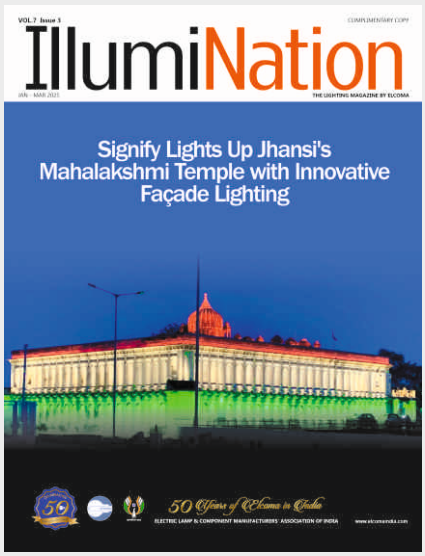

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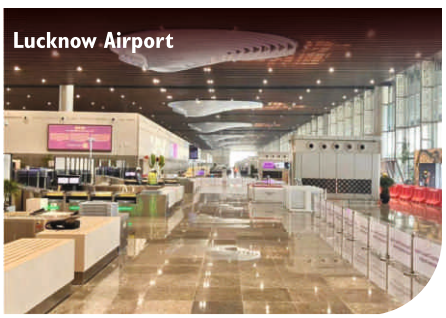


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