

ELCOMA

Electric Lamp & Component Manufacturers'
Association of India

MEMBERS' DIRECTORY 2022-24

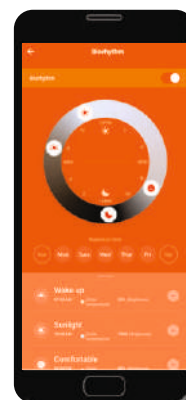


LEDVANCE



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LEDVANCE PRIVATE LIMITED

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*Results as per 3rd party test lab testing.



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PRESIDENT'S MESSAGE

I am pleased to release the 9th edition of ELCOMA members' Directory for the year 2022-24.

The lighting industry has been greatly disrupted in recent years as a result of the COVID-19 pandemic and Russia-Ukraine war. Situation is same all over the world. However, in India, the pace has slowed, and industry appears to be on the mend. The industry's proactive attitude will undoubtedly restore the situation in a short period of time. This will make both consumers and businesses happy. I anticipate that the coming months will be beneficial to our lighting business, allowing it to expand.

Not only do I believe that the Indian economy is an outstanding performer among the very large emerging economies, but experts do as well. We currently have the highest potential for growth and are one of the most appealing investment destinations. We are not solely reliant on a single growth engine that is losing clout, and our strengths are precisely in those areas that are gaining economic clout. Semiconductor manufacturing, national logistics policy, and 5G technology are all excellent examples of how to build a forward-thinking eco-system. Together with focused efforts being put in to 'ease the business', we as an economy are on right path!

Members of ELCOMA, who have been manufacturing in India for the past 70 years, have had shifted to an assembly route by importing LED components. Now that the LED market has stabilized, ELCOMA has developed a Vision 2024 plan in which it outlines its intention to manufacture at least 60% to 70% of components in India and also tap the export market through export of 'made in India' products which would be of high quality and competitive price.

Streetlights are emerging as an important segment for our industry as existing streetlights are planned to be replaced with LEDs. EESL plans to supply roughly 16 million pieces out of which 6.1 million pieces are for rural areas. This allows members to participate in the business opportunity while remaining cautious about the business model.

Lighting industry is changing fast. Changing for better, embracing newer, intelligent, and innovative technologies. As new players with newer competencies with cost-effective models are entering this arena, it is challenging times for the industry. The good part is, we are fully geared up to accept this challenge.

ELCOMA will continue to play a critical role in raising awareness about energy conservation and future disruptive technologies by organising workshops, seminars, and exhibitions to educate and promote efficient lighting of the future.

I would like to thank all ELCOMA members, advertisers, and article contributors for their help in producing this valuable resource for all stakeholders. Also, I encourage you to contact the ELCOMA Secretariat with your valuable suggestions and ideas for improving the directory and making it more informative in the future.

Last but not least, I'd like to express my heartfelt appreciation and gratitude to the ELCOMA secretariat for their excellent collaboration and hard work in producing this directory.

Sincerely,



AVINDER SINGH
President, ELCOMA



ELCOMA OFFICE BEARERS 2022-23



Mr. Avinder Singh
President, ELCOMA



Mr. Anuj Poddar
Vice President, ELCOMA



Mr. Nirupam Sahay
Treasurer, ELCOMA



Mr. Shyam Sujan
Secretary General, ELCOMA

Electric Lamp & Component Manufacturers' Association of India

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Jasola Vihar, New Delhi -110025
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THE GOVERNING BODY 2022-23

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2. Vice-President	Mr. Anuj Poddar	Bajaj Electricals Ltd, Mumbai
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17. Member	Mr. Anirudh Kalaria	Century LED, Kolkata
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18. Member	Mr. E. Sivaramakrishnan	Luker Electric Technologies Pvt.Ltd., Kochi
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20. Advisor	Mr. Sunil Sikka	ELCOMA, New Delhi
21. Secretary General	Mr. Shyam Sujan	ELCOMA, New Delhi
22. General Manager	Mr. Amal Sengupta	ELCOMA, New Delhi



Mr. Sunil Sikka
Advisor, ELCOMA



Mr. Sumit Padmakar Joshi
Immediate Past-President, ELCOMA

ELCOMA MEMBERS LIST

Sr.No.	Company	Tel & Mob	E-Mail	Address
1	Arvind Press Caps Ltd	01493-298066	himanshugupta@apclnewar.co.in info1@apclnewar.co.in	E-337, RIICO Ind. Area Bhiwadi (Dist.Alwar), Rajasthan - 301019
2	Ashoka Industries	91-9810044189	ashoka.industries@hotmail.com info@ashokaallied.com	D-130,131 Sector -7, Noida, Uttar Pradesh - 201301
3	Atco Controls (India) Pvt. Ltd.	022-22025528	bhavin@tridonic.co.in	38-B Nariman Bhavan, Nariman Point, Mumbai, Maharashtra - 400021
4	Arosan Plastics Pvt. Ltd	011-28116777 & 78	Saheb@arosonglobal.com amrik@arosonglobal.com	B-90, Mayapuri Industrial Area, Phase-I, New Delhi-110064
5	Akarui Green Energy Solutions	080-40930105	ajaygupta@akarui.org chaitragupta@akarui.org info@akarui.org	48/3, 1st 'E' Main Road, Jakkasandra Extension, Koramangala, Bengaluru - 560034
5	Bajaj Electricals Ltd.	022-24064200	anuj.poddar@bajajelectricals.com rajesh.naik@bajajelectricals.com	Rustomjee Aspire, 7th Floor, Bhanu Shankar Yagnik Marg, GTB Nagar, Lalbaug, Everard Nagar, Sion, Mumbai, Maharashtra 400022
6	BAG Electronics India Pvt.Ltd	020-30450700/ 020 -67551701	vinay@intercraftiot.com kaushik@intercraftiot.com	Survey No. 19, Yewalewadi, Kondhwa Road, Pune Maharashtra -411048
7	CEMA Electric Lighting Products India Pvt. Ltd.	9895760790 080 25356323 080 25357911	nandakumar@cemalighting.com ramesh@cemalighting.com	Door No 21/148A, Crescent Bldg Njalakamkara,CUSAT P.O. Kalamassery .Cochin 22 #251, Ground Floor 2nd D Cross Road, Domlur2nd Stage Bangalore 560071
8	Crompton Greaves Consumer Electrical Ltd	022-61678499	mathew.job@crompton.co.in vishal.kaul@crompton.co.in	Equinox Business Park,1st Floor, Tower 3,Lbs Marg, Kurla (W), Mumbai, Maharashtra-400070
9	Captain Gears & Fans	0120-4203318/19, 9810145540	surinder@compactlighting.net compact@compactlighting.net chandni@compactlighting.net	B-84, Sector 80, Noida - 201305 (U.P.) Noida201301
10	Century LED Limited	1800 3451345 033-2669-5591/ 033 3055 4060	ak@centuryled.in gopal.singh@centuryled.in	Srijan Industrial Logistic Park, Block A, 1 St Floor, Nh-6, Bombay Road, Ankurhati, Domjur, Howrah, Pin- 711302, West Bengal, IndiaKolkata - 711302
11	Chenfeng Tech Private Limited		chenfengindia@cnlampholder.com in_sales@cnlampholder.com	Plot No-21, Ecotech-1, Extension-1, Greater Noida, Gb Nagar, U.P - 201310
12	Dixon Technologies (I) Pvt. Ltd.	0120-4737200	sunilvachani@dixoninfo.com nirupam.sahay@dixoninfo.com	B-14/15, Phase-II, Noida, Uttar Pradesh-201305
13	Dewcon Industries		m.kohli@rrl.net.in	Village, Kirapalpur, Tehsil Nalagarh, Distt. Solan, Himachal Pradesh- 1741101
14	Eveready Industries India Ltd.	033-24864961 033-2455921 3/30587822	mohit.sharma@eveready.co.in amit.pandey@eveready.co.in,	2, Rainey Park, Kolkata-700019
15	Fiem Industries Ltd.	0130-2367905/906/ 907/909/910	jkjain@fiemindustries.com fiemunit7@fiemindustries.com	1915, Rai Industrial Estate, Phase-V, Distt. Sonapat-131029 32 Milestone, GT Road, Kundli, Sonapat -131028,Haryana, India.

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Sr.No.	Company	Tel & Mob	E-Mail	Address
17	Fulham India Pvt. Ltd	91 20 24690703/04	gmalkani@fulham.com sgghose@fulham.com	Survey No. 26/3, Village Narhe, taluka - haveli, dist. Pune- 411041
18	Fluxlite Nims Pvt.Ltd	0141-2771980	cmdfluxlitenims@gmail.com chancellornims@gmail.com pradeep@fluxlitenims.com	G976-979 B, C, D, G-986-To G-991, Sitapura Industrial Area, Phase 3, Jaipur-302022,
19	Halonix Technologies (P) Limited	0120-4756100 0120-4756107	rakesh.zutshi@halonix.co.in kumar.gaurav@halonix.co.in	B -31, Phase II, Noida-201305
20	Havells India Limited	0120-4771000/ 0120 - 3331000	Prag.Bhatnagar@havells.com Sudeshna.Mukhopadhyay@havells.com/marketing@havells.com	QRG Towers, 2D, Sec 126, Expressway, NOIDA - 201304
21	HPL Electric & Power Pvt. Ltd.	0120-4656300,	gautamseth@hplindia.com nirajtiwari@hplindia.com	Windsor Business Park, B-1D, Sector 10, Noida, Uttar Pradesh-201301
22	Indo Japan Horologicals Pvt.Ltd	033-40687043	m.bothra@indojapn.in a.bothra@indojapan.in	J/12, Block EP, Sector-5, Salt Lake, Kolkata-700091
23	Jaquar and Company Pvt.Ltd	0124-474800	ranbir.mehra@jaquar.com	Plot No. 3, Sector-11, IMT Manesar, Gurgaon- 122050
24	Just About Power	1140584111	deepak@justaboutpower.com garggagan@outlook.com	34, Bhagwan Nagar, Ashram, New Delhi-110014 178, First Floor, FIE, Patparganj Industrial Area, Delhi-110092
25	Keselec Smart Lighting Technologies Private Limited	0129-4022804/ 8527586444	chckitan@kesslec.com meenuk@kesslec.com	55, Industrial Area, NIT, Faridabad-1210001
26	KWW Electricals & Electronics Pvt.Ltd	9073966363 9830030695	a.sengupta@khaitanwire.com a.k.khaitan@khaitanwire.com shreevar@khaitanwire.com	P-38, India Exchange Place, Arun Chambers, Kolkata-700001 Jalan Industrial Complex, Argori, Andul Mouri, Sankrail, Howrah, West Bengal-711302
27	Litex Electricals Pvt. Ltd	020-66301072 020-66301073	dradk@hotmail.com svr@litexelectricals.com skarkarey@hotmail.com	W-134 S Block, MIDC, Bhosari, Pune-411026
28	Lighting Technologies India Pvt.Ltd	080 66556655	hari.nkv@ltcompany.com info@ltcompany.com k.selvan@ltcompany.in	No. 40, Jigani Industrial Area, I Phase, Sy. No. 592 & 124, Jigani Village & Hobli, Anekal Taluk, Bangalore 560105 Karnataka,
29	LEDVANCE Private Limited	0124-4150100	k.sujan@ledvance.com r.agarwal@ledvance.com	1201 & 1202, 12th Floor, Signature Tower, Tower-A , South City-1 Sector – 30, Gurugram-122001, Haryana, India
30	Luker Electric Technologies Pvt.Ltd	0484-3368331/32/ 33/34/35	jk@lukerindia.com srk.luker@gmail.com srk.e@lukerindia.com	34/1912 - C1, Mattathil Lane , Bts Road Edapally, Ernakulam -682024
31	Mercury Lamps Pvt. Ltd	0135-2430168	mercurylampspvtltd@gmail.com mlprishikesh@gmail.com mercurylamps@sancharnet.in	64, Laxman Jhula Rd. Rishikesh-249201 Uttarakhand
32	Mithabi Lamps (P) Ltd	01275 262136 0129-4085497	mithabi@fokallamps.com purchase@fokallamps.com	Tatarpur Road, Prithla Industrial Area, Sector-10, Village Prithla, Tehsil & Distt. Palwal Haryana-121102

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34	Orient Electric	0120 489 4900	puneet.dhawan@orientelectric.com santosh.agnihotri@orientelectric.com	C-130, Sector 63, Noida-201301
35	OSRAM Lighting Private Limited	0124-6261300	avinder.singh@ams-osram.com N.Saxena@osram.com	1st Floor, Plot No. 03, Sector-32, IFFCO Surinder Jharkhar Bhawan, Gurgaon- 122001
36	Prompt Services	9552002173 9552002173	ceo@eetamax.com mihir.joshi@eetamax.com marketing@eetamax.com	Plot No. L-141, MIDC Industrial Area, Ahmednagar Maharashtra- 414111
37	Panasonic Life Solutions India Pvt. Ltd.	(9122) 4222 8888	Raja.Mukherjee@in.Panasonic.com	3rd Floor, B Wing I-Think Techno Campus,Pokharan Road No. 2, Thane (W), Thane - 400 607, Maharashtra
38	Signify Innovations India Ltd (Philips)	0124-46635555/ 4606260/4606000	sumit.joshi@signify.com support.philipslightingindia@signify.com	9th Floor, DLF -B, DLF Cybercity, DLF Phase-3, Gurgaon-122002
39	Rishab Industries Ltd. (Cenzer)	020-66305241 022-61116666	mayurcener@yahoo.com hitesh@cener.com mayurcener@yahoo.com	Plot No. 54, Mapusa Industrial Estate, Mapusa, Bardez, Goa - 403507 20-B, Sugra Building, 2nd Floor, 16th Tribhuvan Road, Mumbai-400 004
40	RK Lighting Pvt. Ltd.	022-67124462/63	rklights@gmail.com	223, Adhyaru Industrial Estate, Sunmill Compund, Lower Parel Mumbai-400013
41	Radhika Opto	022-67124462/63	rklights@gmail.com	223, Adhyaru Industrial Estate, Sunmill Compund, Lower Parel Mumbai-400013
42	Surya Roshni Ltd.	011-25810093 -96 011-47108000	raju@surya.in jitendra.agrawal@surya.in vasumitra@surya.in	Padma Tower I, 2nd Floor, Rajendra Place New Delhi-110008
43	SYSKA LED Lights Pvt.Ltd	020-40131000	rajesh@ssskinfotech.com gajanan.joshi@sskgroup.in	Syska House, Plot No. 89, 90, 91, Lane No. 4 Sr. No. 232, 1/2, Airport Rd, Sakore Nagar, Lohegaon, Pune, Maharashtra 411014
44	Sahasra Semiconductors Pvt .Ltd	0120-2462782	amanwani@sahasraelectronics.com susnata@sahasrasemi.com	Plot No 33, Pocket 1, Jasola, New Delhi – 110 025 Plot No. B-2, ELCINA Electronics Manufacturing Cluster, Industrial Area Salarpur, Bhiwadi, Distt. Alwar, Rajasthan-301019
45	Techno Electromech Pvt.Ltd	07600248768/ 76000248968	saurabh@technoelectromech.com tej@technoelectromech.com led@technoelectromech.com	RS No. 858, Suresh Timber Lane, Opp. GSFC Main Gate, NH-8 Vadodara-390750
46	Usha International Ltd	0124-4583100	ranveer_singh@usha.com vikas_gandhi@usha.com	Plot No. 15, Institutional Area, Sector-32 Gurgaon-122001
47	Uniglobus Electricals and Electronics Pvt.Ltd	026-7622700	BS.Praveen@polycab.com aniket.pathak@polycab.com	Unit 3F, Halol- Vadodara Road, Vill: Rampura, Taluka: Halol, Distt: Panchmahals, Gujarat-389350
48	Wipro Enterprises Limited	080-28440011, 080-61990100 0240-2351291	vineet.agrawal@wipro.com sanjay.gupta5@wipro.com	Wipro House, No 8, 80 feet Road, Koramangala 1 st Block, Bangalore-560034, Karnataka,

THE ELCOMA STORY

About ELCOMA

On 29th June, 1970, the electric lamps and components manufacturers in India founded "Electric Lamp and Component Manufacturers Association of India" (ELCOMA), representing the entire lighting industry. The main purpose founding members had in mind was to establish liaison with government bodies and to support each other in matters connected with lighting industry. It has been our endeavour to make new technology and energy efficient products in India. The vision 2020 ensured installation of >1.2 billion LED Lamps, 30 million Street Lights and 50 million Downlights. This saved more than 36000MW power.

ELCOMA, representing the Indian lighting industry aims to act as an important link to support each other in matters connected with lighting industry, to promote and develop co-operation among the manufacturers of electric lamps and components and to further facilitate the overall interests of its members. The association has been helping upgrade the knowledge and technical capabilities of its members through liaison with other relevant organizations both in India and abroad. In earlier years, ELCOMA successfully drew attention of the government to the difficulties faced by the members and highlighted developments in new light sources and energy saving solutions to the customers. During 80's and 90's extensive development and introduction of various types of energy saving lamps offered wide range of choice to the customer and offered indigenously manufactured lamps for all type of applications, thereby saving precious foreign exchange when the country needed it most. ELCOMA can be proud of the fact that inspite of inflation, energy price increases and other price rises, the price of lighting products have become more cost effective. With the success achieved by the Association, new entrants to the lighting industry from organized as well as small sector readily became members and took active interest in the growth and development of the lighting industry. ELCOMA has been making all products in India for more than 70 years. Now a vision 2024 is made to make 80% of LED components in India and Export 40% by year 2024.

Functions and Services

The main objectives of ELCOMA and its functions and services are as under:

- To enable manufactures of lamps and components to federate or corporate by becoming members or associates of the Association, either by themselves or their nominees or act as their representatives or spokesmen for such manufacturers.
- To promote and develop co-operation among the manufacturers of electric lamps and other ancillaries and business and to further facilitate the manufacture of products in particular.
- To promote the consideration and discussion of all questions affecting lamp industry and all ancillary and allied trades, and every branch of such trade and to generally watch over and protect the interest of persons engaged in the manufacture of such products.
- To diffuse among its members information on all matters, affecting the lamp manufacturers to print and publish, issue and circulate such papers and periodicals, circulars and other material relevant as may be seen conducive to any of these objects.
- To promote the distribution of products to all consumers throughout India by the members of the Association and with the object of fostering and promoting es-pirit-de-corps among the lamp manufacturers in India.
- To collect information and circulate and publish the policies and activities of the Association from time-to-time by pamphlets, circulars, or news bulletins.
- To organize exhibitions, conduct seminars, conferences, symposia, lectures and publish its official bulletin, 'ELCOMA' News Letter and make known to public the activities of the Association.
- To provide to its members statistical information pertaining to lamp industry and keep the members informed regarding latest technical development, quality control and achieve standards and specifications.
- To be in close touch and establish liaison with various institutions and organizations and government bodies connected with the development of Electric Lamp and Component Industry and to carry continuous dialogue with the govt.
- To make representations and to deal with the subjects that affect the Electric Lamps and Component Industry and find ways and means of solving the problems and difficulties relating to subjects like finance, import-export, supply of raw materials, machinery and spares, taxation (all types-customs, excise, octroi, sales tax and GST etc), industrial relations, procedural delays, factory enactments, power, transportation etc.
- To carry out such acts as maybe required for the benefit of the industry to upgrade themselves in terms of knowledge/ technology etc.
- To educate and inform the consumer on the developments in the industry and help the nation to save energy and costs through introduction of better products and applications.
- To act as a link between lighting and other industry association in India and worldwide in matters concerning common interest.

NATIONAL INSTITUTE FOR TECHNICAL SKILLS

(ELCOMA Initiative on Training)



ELCOMA offers various technical skill development training programs for government and industry for products and services in lighting and electrical appliances domains.

Currently we offer technical training programs for LED Streetlights, Solar Streetlights, Domestic Electrician, Health & Safety and Refrigeration & Air Conditioning. These programs have been developed along with Power Sector Skills Council (PSSC) and Electronic Sector Skills Council (ESSCI) based on National Occupation Standards (NOS) of National Skills Development Council (NSDC). We are also developing two new programs in Lighting Design and Intelligent Lighting.

ELCOMA has appointed National Institute for Technical Skills as its authorized training partner to offer various programs designed by ELCOMA. Under the supervision of ELCOMA, NITS is being mentored by Industry to nourish the skill of people working in lighting and related industries.

We have trained over 700 field personnel for EESL in Street Light National Program (SLNP) across India in the past 1 year. We have also conducted health and safety programs for EESL and industry personnel.

ELCOMA/NITS have already published three training guides for candidates attending these programs.

Programs Offered:

1 Streetlight Installation and Maintenance Training

Program for Streetlight Technicians/Supervisors:

Introduction to Lighting and Lighting Industry • Basics of Road Lighting and Design • Installation and Commissioning • Operation and Maintenance • Site Safety • Health and Safety • Field Demonstration and Practical Training

2 Solar Streetlight Installation and Maintenance:

Introduction to Energy • Overview of Solar Power and Lighting • PV Technology • Battery Technology Lighting and its Design • Installation and Commissioning • Operation and Maintenance • Health and Safety • Field Demonstration and Practical Training

3 Domestic Electrician (+ Home Appliances) Certification

Program: Introduction to Energy and its sources •

Electricity and Power • Installation of Domestic appliances and Electrical Equipments • Repairing and Troubleshooting • Safe Operating Methods and Safety at Work • Hands on Assembly and Repair of Appliances

4 Refrigeration and Air Conditioning: Introduction to Energy and its Sources • Electricity, Thermodynamics and Power • Heat Management Installation of different types of Refrigerators and AC & their Commissioning • Operation, Repair and Maintenance • Site safety and safe operating procedures • Practical Site Installation

5 Health and Safety Training: Safety and its overview • Occupation Health and Safety • First Aid • Fire Safety • Job Safety Analysis Documentation and policy making • Safe working practices • Handling Emergency

6 Lighting Design: Introduction to Lighting Theory • Overview of Lighting Design Standards • Understanding Lighting effects • Lighting Applications • Lighting Designing Software and introduction to DIALux • Lighting Planning and Schematic Designing • Development of Lighting Design • Photometry and its analysis Post Occupancy Evaluation • BOM calculation • Case Studies

7 Smart Lighting and CCMS: Introduction to Lighting • Lighting technology and its integration with IoT • Smart Lighting trends Software and Hardware Architecture • Introduction to Communication technologies (Zigbee, LoRaWAN, RF based, GSM, GPRS) • Introduction to Li-Fi • CCMS (Centralized Control and Monitoring System) • International and National Case Studies • Health and Safety.

Contact Person : Mr. B.M. Bhatia

Mob.: 9350318379

E-mail : brijbhatia60@gmail.com

SHYAM SUJAN WINS FIRST GLOBAL ISA IDOC AWARD



“Mr Sujan is an outstanding figure of two eras of lighting - lamp and LED! A hospitable organizer of conferences in India, an active member of international events. As an economist Shyam Sujan has promoted energy conservation by initiating introduction of new and efficient products to the country, saving energy and contributing to the environment”

Jury Member

In the recently held Award Ceremony of ISA, Prof. Warren Julian, council member of International Solid State Lighting Alliance (ISA), announced the awards for the laureates of IDOC 2021. The IDOC awards were established by the ISA in its 12th Executive Member meeting, with an aim to promote the global SSL sustainable development by recognizing the industry organizations, project teams, industry leaders, institutions, etc. that have made outstanding contributions to the SSL development at regional/global levels within a certain period of time or historical period.

Announcing the 6 winners of these global awards, Mr. Shyam Sujan received highest scores and ranking. Expressing his appreciation of Mr Sujan's efforts in promoting energy efficiency in India and also serving the Lighting Industry as a visionary he said that “Mr. Shyam Sujan (India) is the Secretary General of ELCOMA since 2004. He is an integral part of various Government of India committees and initiatives on Energy Efficiency, Lighting and Standardization including a stint as the Chairman of the Bureau of Indian Standards (BIS) LED Standards Panel from 2012 to 2015, Member of Advisory Committee for India's Bureau of Energy Efficiency (BEE), Member of Task Force for United Nation Environment Program (UNEP) enlighten project and Director and Founding member of Electronic Sector Skills Council of India”.

Briefly outlining Mr Sujan's achievements, Prof Julian stated that “Mr. Sujan has played a very important role in bringing efficient Lighting technology to India and was instrumental in introducing CFL technology in 2004 and LED Technology in 2010 to India. He was instrumental in securing the growth of manufacturing of CFL Lamps in India, from 20 million pieces in 2004 to 600 million pieces per annum in 2008. The Vision 2020 and Vision 2024 documents created by Mr. Sujan and presented to the Government of India led to one of the largest LED Retrofit programs in the world with over 1.2 billion LED lamps and 30 million LED Street Lights installed and distributed which led to power saving of more than 50000 MW. He is also championing the cause of local manufacturing in India and has secured commitment from the Indian Lighting Industry to manufacture at least 80% of electronic components in India and export more than 40% of lighting turnover by the year 2024. Mr. Sujan has played a very important role in making standards for Lighting products India centric and has also been instrumental in representing India in all International forums and has built relationships with the global lighting fraternity.”

In his acceptance speech Mr Sujan said that he was very honoured to receive this international lighting award and accepted it with gratitude. He valued the award and considered it a global recognition of the work done by him, his colleagues in ELCOMA and the entire SSL industry of India.



FUTURE IS DIGITAL LED LIGHTING

The technological development in Lighting has been very slow ever since Edison invented Incandescent Lamp. However, the last two decades have seen sudden spurt in new energy efficient lighting products being introduced.

We had CFL revolution from 2006 to 2015, Slim fluorescent tube lights, electronic ballasts. The Vision 2020 document prepared by ELCOMA was very well received by government and consumers with the result, lighting manufacturers are looking at another revolution in Digital LED Lighting. It is difficult to imagine our society without electric lighting. The government has realized that to accelerate economic development, it is very essential to provide basic facilities to all citizens. Lighting is one of the most important considerations. It is planned that all corners of the country will be lit up with Lighting whether it is with grid or off-grid. Over

the years the demand of lighting has increased with more and more applications being introduced to help a more effective and meaningful lighting. Citizens are learning to use best

VISION LED LIGHTING

To make the Indian Lighting industry a leader in SMART and EFFICIENT lighting that is advanced in technology, user friendly and is environmentally conscious. To make and develop a sustainable world-class, global manufacturing hub for modern lighting.





lighting options available to them, whether it is required for work, for buildings, for monuments, or creating ambience and moods at any place. People are learning and indulging in leisure at all times of the day and night and this has been made possible because of the contributions of electric lighting. The flexibility of our working hours, the demands by our complex tasks, the introduction and progress of information technology and a paperless office environment, the speed at which we travel, all demand seamless illumination to ensure optimum performance. Day moves to night while we also shift from outdoor to indoor demanding visual accuracy, comfort and guidance to go on with our activities without making any serious promises and by year 2018 by introducing more energy efficient products and working with government to execute various schemes and awareness programs to achieve this. The government announced that 770 million LED Lamps and 30 million Street Lights will be replaced in India by

year 2018. Both EESL and Industry has jointly already sold more than 800 million LED Lamps by end of 2017. It is estimated that more than 1.2 billion mark by end of 2018. All this will have save more than 27,000 MW of power by the end of 2019.

Enter the Digital LED Lighting

The digital lighting is like mobile phone revolution in which new applications have made the product very interesting and new demand is created on regular basis. Similar will be the future of LED Lighting. Digital LED Lighting will be used for any lighting application. This will now play very important role in bringing in smart (or intelligent) lighting. ELCOMA has prepared The VISION document in which new concepts in smart lighting have been spelt out. The industry will now create and initiate manufacturing and marketing of Intelligent lighting in India. Besides this, it can also create techno fun for

users as LED lighting will work with new applications of dimming, smart controls, colors, performance reporting etc. Government has already announced creation of Solar Energy with off-grid Lighting. EESL is planning to distribute more than 17 million street Lights in next 3 to 4 years using Digital LEDs. Elcoma has prepared a white paper to execute this plan.

- A new force is required to be trained in the use and operation of Digital LED lighting to train the users. In order to achieve these, there are various imperatives for the key stakeholders in this industry.
- **ELCOMA:** To create domestic and international workshops for training on new technologies. Generate demand through awareness programs and seminars on Smart applications for products focusing on smart cities, application, & testing etc. Support the set-up of testing, R&D and educational centres.
- It is very important to create India as export hub for smart lighting
- Government is required to support local manufacturing over imports through subsidies and incentives. It is very essential to control unauthorized product by doing surveillance, announce anti-dumping duty, limited FDI restrictions, etc.



WHAT IS DIGITAL LED LIGHTING?

- Digital LED lighting incorporates many technologies so that either indoor or outdoor lights will work automatically under certain conditions. Different smart lighting networks do different things, but some of the more popular solutions feature smart lights that are capable of instantly switching on when someone enters a room or changing colour when something occurs, for example.
- Imagine your house has 50 lights, and each light is normally controlled by the flick of a switch. Smart lighting eliminates the need for you to get up and flick that switch. The network does all the work for you, automatically, though you can still program the lights to respond as you wish. Smart lights often feature sensors too, so they can identify people and things like when they need light, as well as how much they may need.
- The last bit to remember: smart lighting networks often allow lights to interact with each other, so that they can be calibrated en masse, or even individually through a remote control setup.
- Digital LED lighting networks vary drastically, but generally, their lights can either work independently or together when connected. Keep in mind that there are two main types of smart lights: sensor-integrated and non-sensor integrated.
- Sensor-integrated lights feature sensors that enable them to recognise people and daylight, among other things. These lights automatically send data to the smart lighting network, which sets specific parameters for each light. You can still manually control sensor-integrated lights however, if you desire. Although non-sensor integrated lights don't have sensors, they're still considered smart, because you can program them.
- There are two main ways of controlling Digital LED lights: control hubs and smart devices. You can use tablets, smartphones, laptops, and even desktop computers (as long as both the device and the smart lights are connected to Wi-Fi or Bluetooth) to remotely configure and manage your smart lighting. In some situations, typically in larger buildings, there is a dedicated control hub that maintains the smart lighting network.
- As a consumer, you'll probably want a smart lighting setup that works with your smart device. Not only is that the more user-friendly option but you'll be able to control your house lights from anywhere in the world (not just when at home). That said, whether you choose sensor-integrated lights or non-sensor integrated lights is up to you. Typically, sensor-integrated lights are the more costly option.
- For using Digital lighting, there are four reasons why you should use smart lighting. First and foremost it can save you money on a utilities bill. That's because a smart lighting network is very energy efficient; it allows you to calibrate when exactly a light should be on. Smart lights can also simplify your life. When preparing to travel, you won't have to physically alter the settings of each smart light or check to see if it is off before you leave. You can do all this remotely, from afar. In a nutshell, Digital lighting is wireless lighting that interacts with the users, makes its performance more interesting and saves ample energy whenever required.



INTERNATIONAL SOLID STATE LIGHTING ALLIANCE (ISA)



ISA is a non-for-profit international organization consists of regional alliances, association/society, leading companies and renowned universities in global Solid State Lighting (SSL) field.

The Business of ISA members have covered the whole SSL value chain of upstream, middle stream and downstream of global SSL industry such as epitaxy, packaging application, materials and equipment, design system integration and testing etc.

Currently, ISA has 77 members, representing more than 4000 individuals & organizations includes major players (such as Signify, Osram, Samsung, GE Lighting, Cree, Veeco, AIXTRON etc.). The output of which covers more than 70% that of global SSL industry.

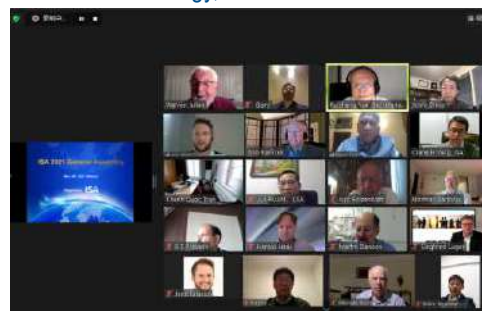
The ISA Board of Advisers consists of leading experts and academic "Founder" level experts, such as the inventors of blue LED, yellow LED, Red LED, and OLED. Amongst Professor Shuji Nakamura, the Laureate of Nobel Prize in Physics in 2014, is the Co-Chair of ISA Board of Advisors (BOA) and Professor Hiroshi Amano, the Laureate of the Nobel Prize in Physics in 2014 is the member of ISA BOA. The current president of ISA is Dr. Jianlin Cao, the former vice minister of Ministry of Science and Technology, China.

The Mission of ISA

Cooperation with the global resources and efforts, to foster a more appropriate "eco-system" for the health development of the global SSL and its application, echo the needs of the society with more added value services to ISA members, strive to improve people's living and contribute a sustainable human society.

The Major Work of ISA

ISA subordinates 5 sub-committees and carry out its work under these relevant fields, i.e. ISA Technical Committee on Standardization, ISA-ECC Smart Lighting System Specialized Committee, ISA LiFi Committee, ISA Micro-LED Committee and ISA Agricultural Lighting Committee. ISA develops industry reports annually, conducts three awards programs (Award of Outstanding Achievement for Global SSL Development (AOA); Award of Global SSL TOP 100 Innovation (TOP 100); Global SSL Award of Industry Development Outstanding Contribution (IDOC)) and other related work every year to promote the communication, cooperation and development among regions, countries in SSL industry including in the field of "beyond lighting".



President



Dr. Jianlin Cao
Former Vice Minister of Ministry of Science and Technology, China Deputy Director of the Committee of Education, Science, Culture, Health and Sports, The National Committee of the Chinese People's Political Consultative Conference

Council of Management



Ms. Ling Wu
President of China SSL Alliance (CSA)



Prof. Warren Julian
Emeritus Professor of University of Sydney, Former President of Illuminating Engineering Society of Australia and New Zealand (IESANA)



Mr. Alexander Karev
Representative of Russian Association of LED Manufacturers (APPS)



Mr. Carlos Lee
Director General of European Photonics Industry Consortium (EPIC)



Mr. Shyam Sujan
Secretary General of the Electric Lamp and Component Manufacturers Association of India (ELCOMA)



Mr. Robert Karlick
Polytechnic Institute, USA Director, Center for Lighting Enabled Systems & Applications (LESA), Chairman of ISA-ECC Smart Street Lighting System Specialized Committee

Board of Advisors



Reg. Robinson
Former President of Illuminating Engineering Society of America (IESNA)



Liang Peng
Professor of Optoelectronic Engineering, Tsinghua University



George E. Smith
Professor of Physics, Nobel Laureate, Bell Labs



Wolfgang Forstner
Professor of Physics, Nobel Laureate, Bell Labs



David H. Plesner
Professor of Physics, Nobel Laureate, Bell Labs



Robert F. Schaefer
Professor of Physics, Nobel Laureate, Bell Labs



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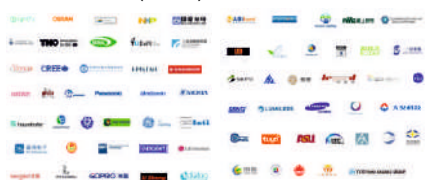


Robert F. Schaefer
Professor of Physics, Nobel Laureate, Bell Labs

Executive Members:



Current Members (77 Total)



Connect with ISA

If you would like to join ISA or participate in ISA's activities, technical workshops, international seminars etc. please contact the Secretariat at secretariat@isa-world.org.

The Secretariat:

Address: No.1305, Block 2D, Zhongguancun IC Park, No. 9 Fenghao East Road, Haidian District, Beijing, China (100094) Tel: 86-10-62607581 Fax: 86-10-62607258 Email: secretariat@isa-world.org Website: www.isa-world.org

ISA Global SSL Industry reports:



Please visit www.isa-world.org for more information

The Global Lighting Association is the voice of the lighting industry on a global basis. GLA fosters growth for global lighting industries by promoting the value of lighting, and by promoting trade practices and healthy regulatory frameworks that stimulate innovation and fair competition. GLA shares information, within the limits of competition law, on political, scientific, social and environmental issues of relevance to the lighting industry and advocates the position of the global lighting industry to relevant stakeholders in the international sphere.

Members

ABILUX (Brazil)
China Association of Lighting Industry
Electric Lamp and Component Manufacturers Association (ELCOMA – India)
Japan Lighting Manufacturers Association
LightingEurope
Lighting Council New Zealand
Middle East Lighting Association
National Electrical Manufacturers Association (NEMA – USA)
Taiwan Lighting Fixture Export Association

Significant Recent Publications

Guidelines for Quantification of Airborne Pathogen Inactivation by UVGI Technologies
GLA Regulatory Guidelines: General Service and Linear LED Lamps
Position Statement on Phasing-out Fluorescent Technologies
Position Statement on Germicidal UV-C Irradiation: UV-C Safety Guidelines
Germicidal UV-C Irradiation: Sources, Products and Applications
Light at night: the importance of quality lighting and night preservation
Position Statement on Temporal Light Artefacts
Strategic Roadmap of the Global Lighting Industry
Website: www.globallightingassociation.org



Maurice Maes
President,
Global Lighting Association



Ourania Georgoutsakou
Secretary General,
LightingEurope



Shyam Sujan
Secretary General, Electric Lamp
& Component Manufacturers'
Association



Chen Yansheng
Executive Vice President, China
Association of Lighting Industry



Pekka Hakkarainen
Vice President, Lutron Electronics
(representing National Electrical
Manufacturers Association)



Kiyooki Uchihashi
Executive Managing Director, Japan
Lighting Manufacturers Association



Michael Ng
Director, Taiwan Lighting Fixture
Export Association



Gerald Strickland
Secretary General, Middle East
Lighting Association



Bryan Douglas
Secretary General, Global Lighting
Association (representing Lighting
Council Australia)

The Government of India set up Bureau of Energy Efficiency (BEE). on 1st March 2002 under the provisions of the Energy Conservation Act, 2001. The mission of the Bureau of Energy Efficiency is to assist in developing policies and strategies with a thrust on self-regulation and market principles, within the overall framework of the Energy Conservation Act, 2001 with the primary objective of reducing energy intensity of the Indian economy.

Role of BEE

BEE co-ordinates with designated consumers, designated agencies and other organizations and recognize, identify and utilize the existing resources and infrastructure, in performing the functions assigned to it under the Energy Conservation Act. The Energy Conservation Act provides for regulatory and promotional functions.

The Mission

The mission of the Bureau of Energy Efficiency is to develop policy and strategies with a thrust on self-regulation and market principles, within the overall framework of the Energy Conservation Act, 2001 with the primary objective of reducing energy intensity of the Indian economy. This will be achieved with active participation of all stake holders, resulting in accelerated and sustained adoption of energy efficiency in all sectors of the economy.

Objectives of BEE

- To provide policy framework and direction to national energy conservation activities.
- To coordinate policies and programs with stakeholders on efficient use of energy.
- To establishment systems and procedures to measure monitor and verify energy efficiency improvements in individual Sectors as well as at the National level.
- To leverage multi-lateral, bi-lateral and private sector support in implementation of programs and projects on efficient Use of energy and its conservation.
- To coordinate policies and programs on efficient use of energy and its conservation with the involvement Of stakeholders.
- To plan, manage and implement energy conservation programs as envisaged in the Energy Conservation Act.
- To demonstrate energy efficiency delivery mechanism as, envisaged in the Energy Conservation Act, through Private-public partnership.

The Major Promotional Functions of BEE include:

- Create awareness and disseminate information on energy efficiency and conservation
- Arrange and organize training of personnel and specialists in the techniques for efficient use of energy and its conservation
- Strengthen consultancy services in the field of energy conservation
- Promote research and development
- Develop testing and certification procedures and promote testing facilities
- Formulate and facilitate implementation of pilot projects and demonstration projects
- Promote use of energy efficient processes, equipment, devices and systems
- Take steps to encourage preferential treatment for use of energy efficient equipment or appliances
- Promote innovative financing of energy efficiency projects
- Give financial assistance to institutions for promoting efficient use of energy and its conservation
- Prepare educational curriculum on efficient use of energy and its conservation
- Implement international co-operation programmes relating to efficient use of energy and its conservation

OVERVIEW

Bureau of Indian Standards (BIS), the National Standards Body of India was established under the BIS Act 1986, assuming the functions of the erstwhile Indian Standards Institution (ISI). BIS Act 2016 came into force on 12 October 2017 superseding BIS Act 1986. BIS is responsible for the harmonious development of the activities of standardization, marking and quality certification of goods and for matters connected therewith or incidental thereto.

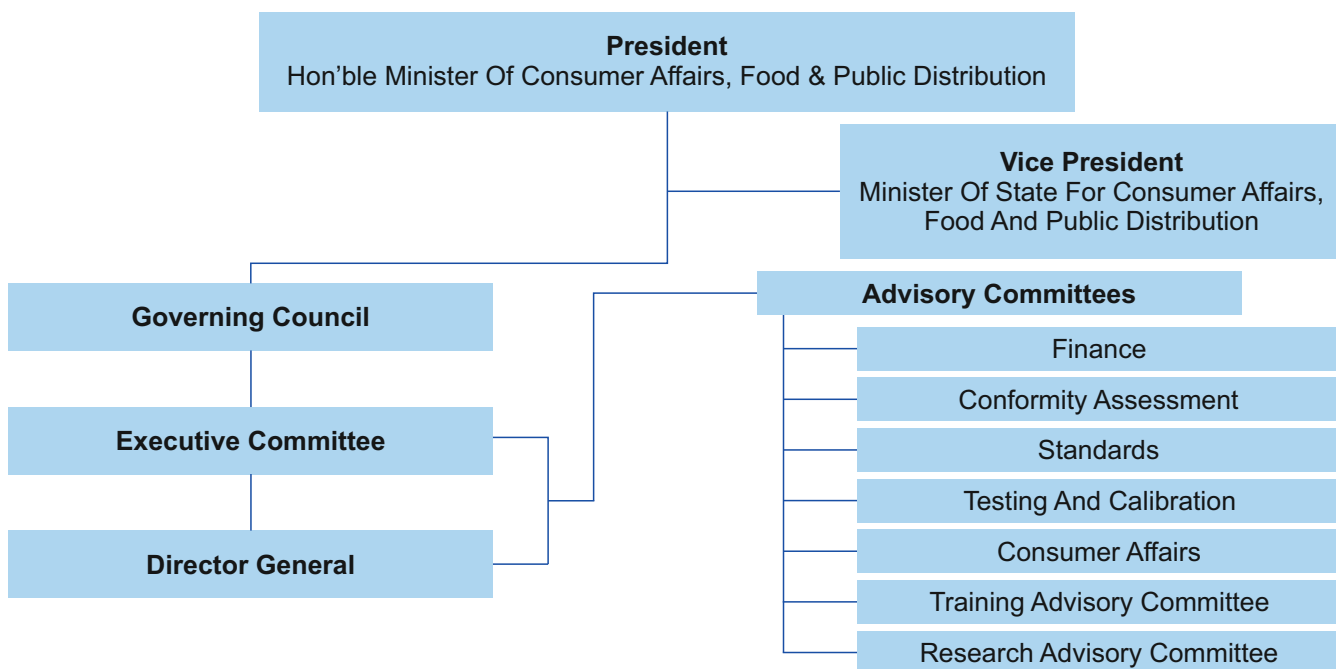
With the integration of global economies, countries around the world are strategically positioning themselves at international level to gain competitive edge and achieve economic benefits. As standards and conformity assessment are significantly influencing global trade, countries are therefore adopting strategies to seek positions in international standardization fora to influence international standards in their favour. India in tandem with National standardisation strategies is interacting with various industry associations to harness Indian skills and strength and review the existing standards and make forays into new avenues relevant from the view point of standardization.

Standardization supports economic growth, enhances competitiveness and fosters technological developments. It is also a tool to influence public policies such as health and safety, protection of environment and consumer protection. By ensuring a level playing field and defining common criteria of acceptance of goods, standards are increasingly being used as tools to support regulatory framework and to facilitate trade. In this regard, BIS is fruitfully interacting with various stakeholders to bring a number of products under mandatory certification thereby ensuring protection of consumers' interest.

BIS through its core activities of standardization and conformity assessment, has been benefiting the national economy by providing safe, reliable and quality goods; minimizing health hazards to consumers; protecting the environment, promoting exports and imports substitute; controlling over proliferation of varieties etc. The standards and certification scheme of BIS apart from benefitting the consumers and industry also support various public policies especially in areas of product safety, consumer protection, food safety, environment protection, building and construction, etc.

During the year, BIS worked towards specifically addressing various national priorities and other Govt. initiatives in the areas of standardization in the services sector, mandatory hallmarking of gold jewellery, Covid-19 management to name a few. In standards development, BIS continued to address issues of technology changes and advancements, climate change, environment and energy conservation, conditions of health and safety and facilitation of trade. In the area of conformity assessment BIS worked towards making the processes simpler and faster. BIS maintained a satisfactory progress in all its activities during the year.

STRUCTURE OF BIS



Transforming for a Sustainable Future

About Us

Energy Efficiency Services Limited (EESL) is a Super Energy Service Company (ESCO), which enables consumers, industries and governments to effectively manage their energy needs through energy efficient technologies. EESL is implementing the world's largest energy efficiency portfolio across sectors like lighting, buildings, electric mobility, smart metering, agriculture, tri-generation, renewable energy, carbon finance etc. at a scale which no organization has been able to achieve. EESL's energy efficiency solutions have saved India over 57 billion kWh energy annually while reducing 45.5 million tonnes of carbon emission.

Founded in 2009, EESL is promoted by Ministry of Power, Government of India as a Joint Venture of four reputed public-sector undertakings NTPC Limited, Power Finance Corporation Limited, REC Limited and POWERGRID Corporation of India Limited.

EESL focuses on solution-driven innovations with no subsidy. It is able to do so using its Pay-As-You-Save (PAYS) model, which obviates the need for any upfront capital investment by the consumer/Stakeholder.

Our energy efficiency initiatives have helped India save



Powering our vision with initiatives that make sustainable energy accessible



For more information, please contact us:

Phone: (+91) 011 - 4580 1260

Website: www.eeslindia.org

Energy Efficiency Services Limited (EESL)

5th, 6th & 7th Floor, CORE - III, Scope Complex,
7 - Lodhi Road, New Delhi - 110003, India

ELECTRONICS SECTOR SKILLS COUNCIL OF INDIA (ESSCI)



The Electronics Sector Skills Council of India (ESSCI) is a Not-for-Profit Organization, registered under the Indian Companies Act, 1956. The Council has been promoted by six Associations i.e. CEAMA, ELCINA, IESA, IPCA, MAIT & ELCOMA, with financial support by National Skill Development Corporation (NSDC). The associations collectively represent the electronics sector.

The ESSCI's focus is on establishing an effective and efficient ecosystem for developing and imparting of outcome oriented skills for the Electronics Systems, Design and Manufacturing Industry (ESDM).

ESSCI is responsible for standardization, accreditation and certification processes to enhance the employability of the Indian workforce globally. It envisions to enable a world class electronics manufacturing industry with an ecosystem for skill development and enhance employability of the large number of Indian youth.

The approach of ESSCI is to build a robust ecosystem of partners and knowledge contributors leading to research and analysis and developing a training mechanism leading to accreditation and certification of trained resources.

ESSCI has over 250 training partners having over 4000 training centres across the country, that are well equipped to undertake skill development across job roles in all segments of ESDM.

ESSCI has developed 185 Qualifications and over 250 National Occupation Standards (NOS).

The Qualifications are spread across the 09 sub-sector spectrum and across product life cycle.

The council currently has the following Qualifications related to the Solar and LED Segment

Qualifications	Qualification Code	NSQF Level
LED Luminaire Mechanical Assembly and Testing Technician	ELE/Q5803	4
Solar LED Technician	ELE/Q5903	4
Solar Panel Installation Technician	ELE/Q5901	4
LED Light Repair Technician	ELE/Q9302	4

ESSCI has numerous credible Qualification Packs for the skill development in this segment and have been closely developed with the industry and after assessing the intrinsic demand for trained technical manpower in the industry in near future.

The Electronics Sector Skills Council of India has so far skilled over 17,00,000+ candidates in various job roles in electronics across the country and helped place over 8,00,000 Candidates for wage employment and handheld candidates for self-employment.

The Electronics Sector Skills Council of India is moving ahead with an ambitious program to work closely with the industry and is committed to skill over 3.5 million candidates in electronics sector.

ESSCI is very actively working with the Ministry of Electronics and Information Technology-MeitY and has skilled over 1,30,000 candidates in its capacity building programme for ESDM Sector and closely attempting to be a skill development and manpower supply partner with PLI, SPECS and EMC 2.0 Cluster applicant companies.

COMPANY PROFILE:

With offices in more than 50 countries and business activities in more than 140 countries, LEDVANCE is one of the world's leading general lighting providers for professional users and end consumers. Having emerged from the general lighting business of Osram GmbH, LEDVANCE offers a wide-ranging assortment of LED luminaires for a broad spectrum of applications such as intelligent lighting products for Smart Homes and buildings. LEDVANCE has one of the largest LED lamp portfolios in the industry as well as traditional light sources.

ESTABLISHED: 1993

1. Business Domain	Lighting
2. Product Brand	LEDVANCE Luminaires and EC, OSRAM lamps
3. Manufacturing Facilities	Third Party
4. Products Manufactured	Lighting and Lighting Accesories
5. No. of Employees	100+
6. Directors and their contact details (phone, e-mail, location etc)	<p>Mr. Krishan Sujan, Managing Director Email: k.sujan@ledvance.com Tel: +91-124-4150100</p> <p>Mr. Rajesh Agarwal, Director Finance Email : r.agarwal@ledvance.com Tel: +91-124-4150100</p>
7. Contact Persons For Business Development	<p>Mr. Hershul Virendra, Assistant General Manager Email: h.virendra@ledvance.com Tel: +91-124-4150100</p> <p>Ms. Priyanka Arya, Marketing Manager Email: p.arya@ledvance.com Tel: +91-124-4150100</p>
8. Regional Offices- Contact Person / Address	<p>North and East: Mr. Vinay Bharti, LEDVANCE Private Limited, 12th Floor, 1201-1202, Signature Towers, Tower A, South City 1, Gurgaon 122001, Tel: +91-124-4150100</p> <p>West: Mr. Ashish Agarwal, LEDVANCE Private Limited, B-2056, Oberoi Garden Premises Co-op. Soc. Ltd, Chandivali Farm Road, Chandivali, Andheri East Mumbai, Mumbai 400072, Tel: +91-022-62384800</p> <p>South: Mr. Sumit Kumar, LEDVANCE Private Limited, Ground Floor, 204, 27th Cross, 7th Block, Jayanagar, Bangalore 560070, Tel: +91-80-48908652</p>
9. Any other Information	www.ledvance.com
10. E-mail	customercare@ledvance.com



BAJAJ ELECTRICALS LTD.

701, Rustomjee Aspiree, Bhanu Shankar Yagnik Road, GTB Nagar,
Lalbaug, Everard Nagar, Sion, Mumbai - 400022, Tel: 022-62182300
E-mail: vishal.choudhary@bajajelectricals.com

COMPANY PROFILE:

ESTABLISHED: 14th July, 1938

1. Business Domain	Consumer Products (Fans & Appliances), Lighting (Consumer & Professional) and Engineering & Projects
2. Product Brand	BAJAJ, Nirlep, Morphy Richards
3. Manufacturing Facilities	Chakan, Ranjangoan, Nasik and Aurangabad
4. Products Manufactured	Lighting, Fans, Appliances & High Masts
5. Details of Exports (Products/countries/value etc.)	Lighting (Fans & Appliances) – African countries (Nigeria, Ghana, Gambia, Kenya, etc.), Gulf Countries (UAE, Oman, etc.) & South Asian Countries
6. No. of employees	2,661 as on 31st March 2022
7. Directors and their contact details (phone, e-mail, location etc)	1. Mr. Shekhar Bajaj- chairman@bajajelectricals.com 2. Mr. Anuj Poddar- anuj.poddar@bajajelectricals.com
8. Contact Persons for a. Business Development b. Exports c. Production (With names, designation & Addresses)	a. Mr. Rajesh Naik, Head of Lighting Business rajesh.naik@bajajelectricals.com b. Mr. Rakesh Ramchandran, Head of Revenue - Professional Lighting rakesh.ramachandran@bajajelectricals.com c. Mr. Rakesh Moolchandani, Head Exports rakesh.m@bajajelectricals.com d. Mr. Vishal Choudhary, Head of Marketing - Consumer Lighting vishal.choudhary@bajajelectricals.com
9. E-mail	vishal.choudhary@bajajelectricals.com



SIGNIFY INNOVATIONS INDIA LIMITED

PS Arcadia Central, 3rd Floor, Plot No -4 A, Abanindra Nath, Thakur Sarani
(Camac Street), Kolkata, West Bengal -700017, Tel: +91-730308423
E-mail: support.philipslightingindia@signify.com

COMPANY PROFILE:

ESTABLISHED:

1. Business Domain	Lighting, Switches & Switch Gear, Fans
2. Product Brand	Philips, Interact, Philips Dynalite, Hue, Color Kinetics, EcoLink, Modular Lighting Instruments, UHP, Varilite
3. Manufacturing Facilities	Vadodara Factory
4. Products Manufactured	LED Lamps, LED Luminaires, Solar LED Lighting Systems, Lighting Controls, Connected Lighting Products, Horticulture Lighting Products, Conventional Lamps & Luminaires, Electrical Switches & Switch Gears, Fans
5. Annual Lighting Turnover	Approx. 2,824 Cr.
6. No. of employees	Approx 2412
7. Directors and their contact details (phone, e-mail, location etc)	Mr. Mahesh Srinivasan Iyer Mr. Vikas Malhotra Mr. Sumit Padmakar Joshi Mr. Vinayak K. Deshpande Ms. Sangeeta Pedurkar
8. Contact Persons for a. Business Development b. Exports c. Production (With names, designation & Addresses)	Gurgaon (Northern Regional Office) Regional Marketing Manager- Lighting, Signify Innovations India Limited (Formerly 'Philips Lighting India Limited'), 9th Floor, DLF Tower 9-B, DLF Cyber City, Sector 25, DLF Phase -3, Gurgaon -122002, India.
9. Regional Offices – Contact person / address	<p>Gurgaon (Northern Regional Office) Regional Marketing Manager- Lighting, Signify Innovations India Limited (Formerly 'Philips Lighting India Limited'), 9th Floor, DLF Tower 9-B, DLF Cyber City, Sector 25, DLF Phase -3, Gurgaon -122002, India.</p> <p>Kolkata (Eastern Regional Office) (Eastern Regional Office) Head of corporate reputation Regional Marketing Manager- Signify Innovations India Ltd, PS Arcadia Central, 3rd Floor, Plot No -4 A, Abanindra Nath, Thakur Sarani (Camac Street), Kolkata, West Bengal -700017 Tel No. : 730308423</p> <p>Bangalore Head of corporate reputation Regional Marketing Manager - Lighting Signify Innovations India Limited (Formerly 'Philips Lighting India Limited'), Signify Innovation Campus 5th floor, B wing, Green Heart Building - MFAR, MMTP Phase IV - Manyata Tech Park Nagavara, Bangalore - 560045, India. Tel No.: +91 - 80 – 41890000</p> <p>Chennai (Southern Regional Office) Regional Marketing Manager - Lighting, Signify Innovations India Limited, (Formerly 'Philips Lighting India Limited'), Sunny Side , Block C , 3rd Floor, No , 8/17 , 2nd Street, Shafee Mohammed Road, Greams Road, Chennai, Tamil Nadu- 600006, India Tel No.: +91 - 44 – 66501000</p> <p>Noida Signify Innovations India Limited, (Formerly 'Philips Lighting India Limited'), C-46, 47, Sector 57 , Noida, Uttar Pradesh, 201301, India Telephone: +91 - 40 – 66467676</p> <p>Mumbai (Western Regional Office) Head of corporate reputation, Regional Marketing Manager - Lighting Signify Innovations India Limited (Formerly 'Philips Lighting India Limited'), Boomerang, B2 Wing, 5th Floor, Unit No. 506, Chandivali Farm Road, Near Chandivali Studio, Andheri (East), Mumbai- 400072, India. Telephone: +91- 22 - 62443000</p>
10. E-mail	support.philipslightingindia@signify.com

COMPANY PROFILE:

Havells India Limited is a leading Fast-Moving Electrical Goods (FMEG) Company and a major power distribution equipment manufacturer with a strong global footprint.

Havells enjoys enviable market dominance across a wide spectrum of products, including Industrial & Domestic Circuit Protection Devices, Cables & Wires, Motors, Fans, Modular Switches, Home Appliances, Electric Water Heaters, Luminaires for Domestic, Commercial and industrial Applications. With the acquisition of Lloyd since 2017, Havells has made a foray into high potential consumer durables segments with offerings of air-conditioners, televisions and washing machines. The new synergy further complements the brand's 'Deeper into Homes' vision.

Additionally, Havells owns some of the most prestigious global brands like Crabtree and Standard Promptec. Its global network constitutes of 5500 professionals across 39 branches. The company boasts of a strong manufacturing prowess with 13 state-of-the-art manufacturing plants in India located in Haridwar, Baddi, Sahibabad, Faridabad, Alwar, Neemrana and Ghiloth.

Driven by innovation and consumer insights, Havells is preparing for the future with constant products expansion, deepening market reach & brand reinforcement. A strong distribution network continuously strives to set new benchmarks in prompt delivery and service to customers – powering their smiles like none other electrical brand in the country. Further to this, the company pioneered the concept of exclusive brand showroom in the electrical industry with 'Havells Galaxy'. Today, 500+ Havells Galaxies across the country are helping customers, both domestic and commercial, to choose from a wide variety of products for different applications. Havells became the first FMEG Company to offer doorstep service via its initiative 'Havells Connect'. Thanks to the quality of products and quicker service, it has minimum customer complaints and the highest customer satisfaction.

Havells, over the years, has embarked on the journey of social change through inclusive growth dedicated to the cause of our future and future generations. Therefore, our CSR efforts revolve around five strong pillars of health & nutrition, sanitation, education, environment and skill development. These pillars not only move together with the ones envisioned by the Government but are also a part of United Nations Sustainable Development Goals. A humble beginning that started with serving just 1500 children across 5 schools grew to serving over 60,000 students across 693 schools daily in Alwar district. Havells initiated a

sanitation drive in 2014 in government schools of Alwar district wherein the company built over 4000 eco-friendly bio-toilets in 400 government schools in Alwar district. These eco-friendly bio-toilets use special bacteria developed by DRDO (Defence Research & Development Organisation) to convert human waste into biogas and water. The water can be used for gardening, cleaning or ground water recharge.

The group company, QRG Healthcare runs two hospitals in Faridabad consisting of 140 beds and 400 beds. Havells India Limited recently also became the first Indian Electrical Company to be included in the Dow Jones Sustainability Index Emerging Markets along with 12 other Indian companies to be included in the index.

ESTABLISHED: 1958 Commence trading in delhi | 1971 Bought Havells brand | 1993 listed on BSE & NSE

1. Business Domain	Electrical Goods Consumer Durables
2. Product Brand	Electrical Products, Consumer Durables, Wires, Cables, Switches, Switchgears, IoT, Solar, Lighting, Fans, Water Heater, Water Purifier, Personal Grooming
3. Manufacturing Facilities	14 manufacturing units
4. Products Manufactured	Wire, Cables, Switches, Switchgears, Panels, Water Purifiers
5. Other Products Traded	AC, Washing Machines, Personal Grooming, Fans
6. Details of Exports (Products/countries/value etc.)	Sales presence in more than 40 countries
7. Directors and their contact details (phone, e-mail, location etc)	1. Mr Anil Rai Gupta - anilrai.gupta@havells.com 2. Mr Ameet Gupta - ameer.gupta@havells.com 3. Mr. Rajesh Gupta - Rajesh.gupta@havells.com
8. Contact Persons for a. Business Development b. Exports c. Production (With names, designation & Addresses)	Business Development a. Mr. Sobat Aswal - SOBAT.ASWAL@HAVELLS.COM b. Mr. Partha Karmakar - Partha.Karmakar@havells.com Exports Mr. Rahul Murgai – rahul.murgai@havells.com Production (Lighting) Mr. AK Gupta -ak.gupta@havells.com
9. Regional Offices – Contact person / address	Offices in more than 38 locations in the country
10. E-mail	Marketing@havells.com

COMPANY PROFILE:
ESTABLISHED: 1989

1. Business Domain	Manufacturing of Automotive Components, LED Luminaires and IPIS Systems
2. Product Brand	FIEM
3. Manufacturing Facilities	Total 9 Manufacturing facilities spread across India: Kundli & Rai (Haryana), Tapukara (Rajasthan), Nalagarh (Himachal Pradesh), Mysore (Karnataka), Hosur (Tamil Nadu) & Ahmedabad (Gujarat)
4. Products Manufactured	Automotive Lamps & Signalling Equipments, Rear View Mirrors, Plastic Moulded Parts, Sheet Metal Components, Canister, Bank Angle Sensors, LED Luminaires and IPIS Systems.
5. Details of Exports (Products/countries/value etc.)	Europe, Japan, USA, Nepal, Thailand, Italy, Srilanka, Austria, Indonesia, Germany etc.
6. No. of employees	More than 2200
7. Directors and their contact details (phone, e-mail, location etc)	Mr. J.K. Jain, CMD Mr. Rahul Jain, Director Mr. Rajesh Sharma, Director
8. Contact Persons for a. Business Development b. Exports c. Production (With names, designation & Addresses)	As above
9. Regional Offices – Contact person / address	As above
10. Any other information	With a history of 40 years, Company is leading Tier-1 Supplier to OEMs in India and abroad, and one the leaders in Automotive lighting in two-wheelers.
11. E-mail	fiemunit7@fiemindustries.com

COMPANY PROFILE:

The ams OSRAM Group (SIX: AMS) is a global leader in optical solutions. By adding intelligence to light and passion to innovation, we enrich people's lives. This is what we mean by Sensing is Life.

With over 110 years of combined history, our core is defined by imagination, deep engineering expertise and the ability to provide global industrial capacity in sensor and light technologies. We create exciting innovations that enable our customers in the consumer, automotive, healthcare and industrial sectors maintain their competitive edge and drive innovation that meaningfully improves the quality of life in terms of health, safety and convenience, while reducing impact on the environment.

Our around 24,000 employees worldwide focus on innovation across sensing, illumination and visualization to make journeys safer, medical diagnosis more accurate and daily moments in communication a richer experience. Our work creates technology for breakthrough applications, which is reflected in over 15,000 patents granted and applied. Headquartered in Premstaetten/Graz (Austria) with a co-headquarters in Munich (Germany), the group achieved over EUR 5 billion revenues in 2021 and is listed as ams-OSRAMAG on the SIX Swiss Exchange (ISIN:AT0000A18XM4).

ESTABLISHED:

1. Business Domain	Illumination, Sensing and visualization
2. Product Brand	OSRAM
3. Manufacturing Facilities	Calamba City, Exeter, Kulim, Penang, Premstaetten, Regensburg, Singapore, Wuxi, Berlin, Bruntal, Foshan, Hendersonville, Herbrechtingen, Hillsboro, Kunshan, Nové Zamky, Schwabmünchen, Treviso, Warren, Bergamo and Kunshan
4. Other Products Traded	Automotive Lighting, BLS (Wipers, tyre inflators, dash cams, automotive projector), LED Drivers and modules, Luminaires, Controls, Opto semiconductors, Stage/ Studio Lights, Cinema projector lights, Medical Lights, Airport Lights, VCSEL-portfolio for 3D gesture recognition, biosensors for vital sign monitoring in smartwatches as well as spectral sensors for lateral flow testing and point-of-care diagnostics. UV-C LED with sensors, NanEye, horticulture sensors and many more.
5. Annual Turnover	EUR 5 billion revenues in 2021 (Global revenue)
6. No of Employees	Around 24,000 employees worldwide
7. Directors and their Contact Details (India)	Avinder Singh , MD, OSRAM Lighting Private Limited, India
8. Contact Person for a. Business Development	Kapildev Saikia - kapildev.saikia@ams-osram.com Vikas Bhandari - vikas.bhandari@ams-osram.com
9. Regional Offices - Contact details	India Head Office: C/O Surinder Jakhar Bhavan, 1st Floor, Plot No 3, Sector -32, Gurugram-122001, Haryana- India Tel-124-6261300 Regional Office West: A WING 503, CITY POINT COMMERCIAL COMPLEX, ANDHERI-KURLA ROAD, ANDHERI (East), MUMBAI-400 059. Tel-+912261401300 Regional Office South: Prestige Pinnacle ,N.113, 1st floor, 7th Block, Kormangala Industrial Estate-Bangalore -560095 Tel-+918046462000

HUMAN CENTRIC LIGHTING- LIGHT AND HUMAN BIOLOGY

A scientific look at how light impacts our life

Like air to breathe or food to eat, light is also essential for human existence. It plays a much larger part in our lives than one can imagine. Light not only helps us to see and perceive the world around us, but it also effects our emotional and biological aspects, helping us to function and feel better.

One might wonder how can light effect human beings so deeply. For this, we need to understand the relationship between lighting and the visual performance and comfort, it is also necessary to understand the working of the human eye.

The human eye is roughly spherical in shape. Six positioning muscles allow it to swivel in any direction. Our eye functions in roughly the same way as a traditional camera with a lens that projects an inverted image of the scene onto a light-sensitive inner film. In the eye, this film is replaced by the retina and consists of light-sensitive nerve endings. Here the light is transformed via a (photo) chemical process into an electric current and transmitted through the nerves into the brain that interprets it as visual information. The retina is the start of the nervous system leading into the brain. It consists of more than a hundred million light-sensitive nerve endings of two types, which because of their shape, are called 'rods' and 'cones'. The rods and cones connect to the brain via ganglion cells and nerve fibres.

The unique properties of the eye - sensitivity over an enormous lighting-level and the ability to distinguish between up to thousands of colors - are obtained between the highly specialized cones and rods. The rods are highly light-sensitive

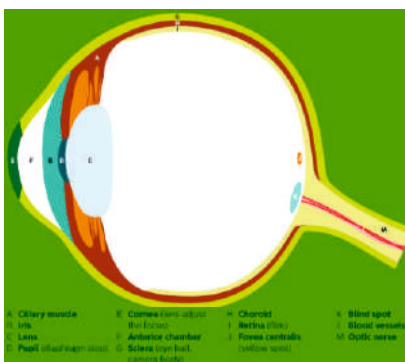
and are principally responsible for the detection of rough shapes and movement but cannot distinguish colors. Cones, on the other hand, are less sensitive to light, but can distinguish colors. They also enable us to see fine detail.

At very low lighting levels (less than moonlight) the sensitivity of the cones is so low that they do not function. Vision is then by rods only and is termed scotopic vision. The cones take over completely at lighting levels greater than some 3cd/m^2 (somewhat brighter than a lit motorway). This vision is then known as photopic vision.

Along with rods and cones cells, our eyes also have a third type of photoreceptor cell called the intrinsic photo sensitive Retinal Ganglion Cell, or ipRG. These cells have a nerve connection to the biological clock located in the brain (also called the suprachiasmatic nuclei, SCN). The SCN in turn has a nerve connection with the pineal gland, which is responsible for the regulation of some hormones in our body (Fig. 2). So, there is a direct connection between light, bodily timing and hormones. Lighting has not only a visual effect but also a non-visual biological effect.

To understand the role of this third photoreceptor cell in our daily body cycle, we need to understand the connection of our body wake/sleep cycle with the light. The rotation of the earth about its own axis in exactly 24 hours results in a 24-hour rhythm of light and dark. This light-dark rhythm regulates quite a few bodily processes, for example, the sleep-wake rhythm, the rhythm in body temperature and heart rate, and the rhythm according to

which certain hormones are produced. These 24-hour rhythms are called circadian rhythms. This light-dark mechanism controls the hormones cortisol and melatonin over the course of the day and night. These hormones (cortisol: the "energy hormone", and melatonin: the "sleep hormone") play an important role in regulating our degree of alertness and sleep. Cortisol, amongst other things, increases blood sugar to give the body energy. Cortisol levels increase in the morning, then decrease gradually but remain at a sufficiently high level to give sufficient energy over the course of the day, falling finally to a



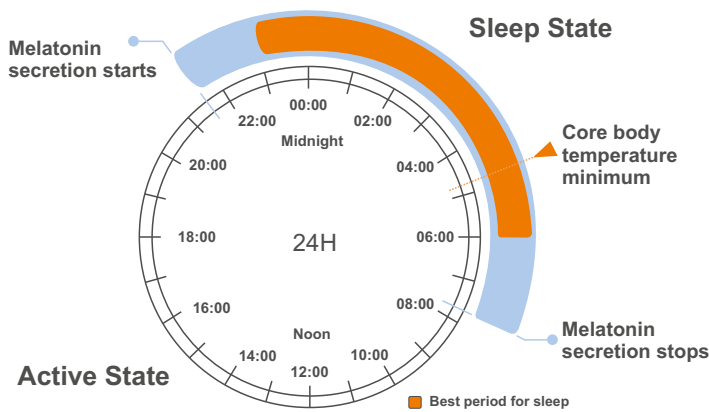


Figure 3: Schematic representation of our body clock cycle²

minimum at midnight. The level of melatonin, the sleep hormone, drops in the morning, reducing sleepiness.

ipRG cells are responsible for the synchronization of the pineal gland to the light-dark cycle. The pineal gland uses and sends information to regulate the production of these hormones as needed in the different stages of the day, modifying our physical and neurobehavioral capacities and the regulation of body temperature. It is also responsible for entraining our circadian system with the natural day-night cycle.

Let us see how different lights effect human body:

Normally, light comes in every day to adjust our melatonin secretion and so reset our sleep/wake clock. The circle of Figure 3 helps to show when to time our light exposure and what sort of light is best.

Morning light is very effective at resetting the body clock. It shifts the sleep period earlier (so rotating it anti-clockwise in Figure 3, by a maximum of about an hour a day).

What is morning light? It is any light that is received during the first hours after the minimum core body temperature. Morning light makes waking up easier so that we become more of a “morning person”. Light that is bright and strong in blue wavelengths is most effective for regulating our sleep/wake cycle. One study has shown that even short pulses of light can be very effective to reset our body clock. Many of us – and not just “evening people” – need to use alarm clocks to wake up in the morning and meet our daily responsibilities. As we wake up, our cortisol levels rise naturally. Cortisol helps us wake in the morning and get ready for action. Insufficient daytime light exposure can disrupt our sleep. Extra light during the daytime can raise nocturnal melatonin levels and enhance circadian

amplitude.

During the daytime, again especially in the morning, it is best to be outdoors for a time. Light enhances alertness at all times of the day and night. During daytime alertness is usually appreciated, but at night-time it may be less desirable. This applies especially to people who hardly go outside and depend on indoor environments for their light exposure: e.g. workers and school children who spend most of their day indoors, and the elderly who cannot go outside because of physical limitations.

Evening light, as long as it is dim and low in blue (short wavelength) content, can help us relax and prepare for sleep. Bright evening light, though, makes us stay up later and can delay sleep – again by up to around an hour a day. That makes it more difficult to get up early the next morning.

What is evening light? It is light that hits our retina in the hours just before the minimum core body temperature. The closer the light is to the moment we reach our minimum core body temperature, the stronger the shifting action on our body clock.

Avoiding bright and blue lights in the evening allows us to stay up enjoying activities without disrupting our circadian rhythm.

Light at night suppresses melatonin and makes it more difficult to get to sleep, and so harder to get up early next morning. It does this within minutes of our eyes receiving the light, and even a few minutes' light pulse can be enough to suppress melatonin. It is still best to use as little light as possible at night, though. At night, light disturbs our sleep patterns, and it is best not to disturb them too frequently. We have evolved to sleep at night and that's what we should do. Whether we go to bed early or late is less important than keeping regular times.

The message from nature is clear: a regular sleep/wake rhythm is best for our performance and health. But within this, our bodies have evolved a kind of steering wheel, constantly adjusting the sleep/wake cycle, driven by light and melatonin.

1. The science of lighting by Wout Van Bommel and Abdo Rouhana, Philips Lighting University
2. The effect of light on our sleep/wake cycle by Luc Schlangen, principal scientist at Philips

AUTHOR : NUPUR JHA,
NATIONAL APPLICATION SPECIALIST,
SIGNIFY INNOVATIONS INDIA LTD
SAUMEN BHAUMIK,
HEAD OF SPECIFICATION SALES,
SIGNIFY INNOVATIONS INDIA LTD

Views expressed in this article are those of the contributors and do not necessarily reflect those of the editors or publishers

COMPANY PROFILE:
ESTABLISHED:

1. Business Domain	Lighting: LED Lamps, Luminaires, Downlighters & Battens; High Mast Lighting Systems, Poles, Lamp Components & Exports
2. Product Brand	SURYA
3. Manufacturing Facilities	Kashipur and Malanpur
4. Products Manufactured	LED Lamps, LED Luminaires, LED Downlighters, LED Battens, Electronic Ballasts, FTL, GLS, Metal Halide, HPSV, HPMV, Components for GLS, LED Products.
5. Other Products Traded	Luminaires, Poles, High Mast Lighting Systems, LED's and Electronic Lighting Controls
6. Details of Exports	45 Countries, including in Europe and America
7. Annual Lighting & Consumer Durables Segment Turnover	INR 1332 crores (FY 2021-22)
8. No. of employees of Company	3500
9. Executive Directors	Mr. J.P. Agarwal - Chairman Mr. Raju Bista - Managing Director Mr. Vinay Surya - Managing Director Mr. Kaustubh N Karmarkar - Whole Time Director
10. Contact Persons for a. Business Development b. Exports c. Luminaire & High Mast d. R&D, Technology	a. Mr. Vasumitra Pandey, COO, Lighting & Durables (vasumitra@surya.in) b. Mr. Arunabha. Ghosh, Senior GM, Exports (aghosh@surya.in) c. Mr. Tapan Kumar, Head Works Malanpr (tapan@surya.in) d. Dr. Amit Tyagi, Head, R&D (amit.tyagi@surya.in)
11. Head/Registered Offices Contact persons	Head Office: Padma Tower-1, 2nd Floor, Rajendra Place, New Delhi-110008. Tel.: 011-47108000/25810093-96. Fax: 011-25789560 Regd. Office: Prakash Nagar, Sankhol, Bahadurgarh, Haryana – 124507, Tel.: 01276-241540-41 Mr. Vasumitra Pandey, COO, Lighting & Durables (vasumitra@surya.in)
12. E-mail	vasumitra@surya.in, tapan@surya.in, amit.tyagi@surya.in

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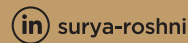
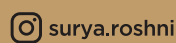
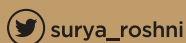
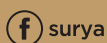


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TEL: 9971150841

E-mail: vikas_gandhi@usha.com

COMPANY PROFILE:

ESTABLISHED:

1. Business Domain	Consumer Durables
2. Product Brand	USHA (Lighting Brand : TISVA)
3. Manufacturing Facilities	Hyderabad
4. Products Manufactured	NA
5. Other Products Traded	Cooking & Fabric Care Appliances, Lighting Products, Electric Fans, Room Coolers/Heaters, Water Coolers/Heaters/Dispensers, Sewing Machines, Electric Water Pumps
6. No. of Employees	NA
7. Details of Exports (Products/countries/value etc.)	NA
8. Annual Lighting Turnover	NA
9. No. of employees	NA
10. Directors and their contact details (phone, e-mail, location etc)	NA
11. Contact Persons For Business Development	Mr. Vikas Gandhi, President & BU Head, Lighting & Premium Fans Contact Details: Plot No. 15, Institutional Area, Sector-32, Gurgaon – 122 001 Haryana Mobile: 9971150841
12. Regional Offices- Contact Person / Address	NA
13. Any other Information	NA
14. E-mail	vikas_gandhi@usha.com

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COMPANY PROFILE:

Crompton Lighting caters to a wide range of products in Home, Retail, Commercial, Industrial, Infrastructure and Smart Street Lighting Solutions.

ESTABLISHED:

1. Business Domain	We are one of the leading Consumer Companies in India with a 80+ years old brand legacy. As of Jan 2016, we are independent company under professional management and have business segments of Lighting and Electrical Consumer Durables. We market our products under the “Crompton” brand name in India and Global markets.																											
2. Product Brand	CROMPTON																											
3. Manufacturing Facilities	Baddi / Vadodara / Goa / Ahmednagar																											
4. Products Manufactured	All Lighting products, Fans, Pumps and Electrical Consumer Durables.																											
5. Other Products Traded	Home Appliances and Durables																											
6.Annual Turnover	Rs.1054.78 Cr. (FY 21-22)																											
7.No. of employees	4504 including contract labour and trainees (FY 21-22)																											
8. Directors and their contact details (phone, e-mail, location etc)	<table><tr><th>Sr No.</th><th>Name of Director</th><th>Sr No.</th><th>Name of Director</th></tr><tr><td>1</td><td>Mr. Hemant Nerurkar</td><td>6</td><td>Mr. D. Sundaram</td></tr><tr><td>2</td><td>Mr. Shantanu Khosla</td><td>7</td><td>Ms. Smita Anand</td></tr><tr><td>3</td><td>Mr. Mathew Job</td><td>8</td><td>Mr. P. R. Ramesh</td></tr><tr><td>4</td><td>Mr. Promeet Ghosh</td><td>9</td><td>Ms. Hiroo Mirchandani</td></tr><tr><td>5</td><td>Mr. P. M. Murty</td><td></td><td></td></tr></table>				Sr No.	Name of Director	Sr No.	Name of Director	1	Mr. Hemant Nerurkar	6	Mr. D. Sundaram	2	Mr. Shantanu Khosla	7	Ms. Smita Anand	3	Mr. Mathew Job	8	Mr. P. R. Ramesh	4	Mr. Promeet Ghosh	9	Ms. Hiroo Mirchandani	5	Mr. P. M. Murty		
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3	Mr. Mathew Job	8	Mr. P. R. Ramesh																									
4	Mr. Promeet Ghosh	9	Ms. Hiroo Mirchandani																									
5	Mr. P. M. Murty																											
9. Contact Persons for a. Business Development b. Exports c. Production (With names, designation & Addresses)	a. Vishal Kaul: Vice President b. Uma Lanka: Associate Vice President c. Naveen Saxena: AVP-Marketing																											
10. Regional Offices – Contact person / address	Northern Region Office: 9, Third floor, Express, building, 10, Bahadur Shah Zafar Marg, near ITO, Crossing, New Delhi, Delhi 110002. Western Region Office: Business Square, A-wing, 302, 3rd Floor, Chakala, Andheri - Kurla Rd, opp. Apple Heritage, Andheri East, Mumbai, Maharashtra 400093 Southern Region Office: No.4, (Old No.5),Kanniah Street, T.Nagar, Chennai - 600017 Eastern Region Office: 5th Floor, 52, Chowringee Rd, Elgin, Kolkata, West Bengal 700071																											
11. E-mail	Naveen.saxena@crompton.co.in / uma.lanka@crompton.co.in																											

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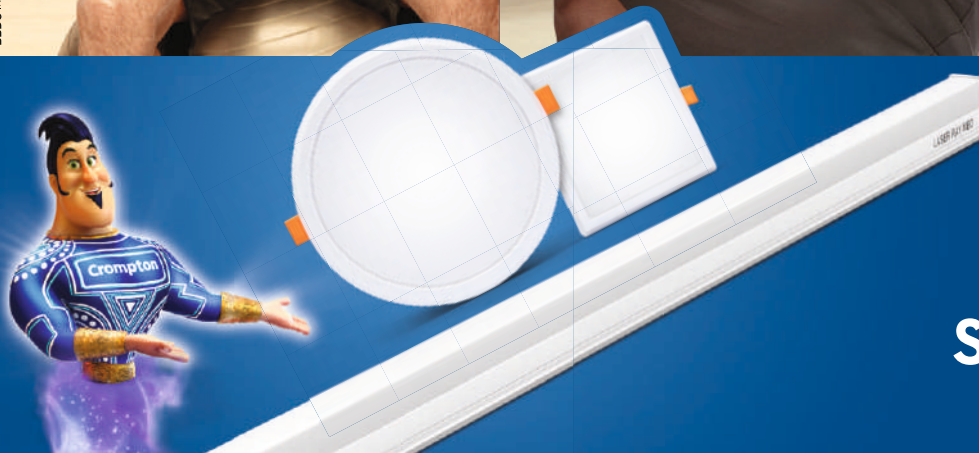
Natural Light 



White Light 



Warm Light 



Natural Light



White Light



Warm Light

STAR LORD



COMPANY PROFILE:
ESTABLISHED:

1. Business Domain	Panasonic Life Solutions India
2. Product Brand	Lighting Solutions
3. Manufacturing Facilities	We have 7 production facilities in India located in Daman and Diu, Gujrat, and Uttarakhand.
4. Products Manufactured	Switches and accessories or Wiring devices, Solar Power, Housing Solutions, Wires Cables and Insulation Tapes, Switchgear, Fans, that cater to core sectors of the Indian infrastructure economy viz Residential, Commercial, and Industrial infrastructure.
5. No. of employees	Over 10,000 professionals
6. Directors and their contact details (phone, e-mail, location etc)	1. Mr. Yoshiyuki Kato, Managing Director, Panasonic Life Solutions, India 2. Mr. Dinesh Aggarwal, Joint Managing Director, Panasonic Life Solutions India
7. Regional Offices – Contact person / address	3rd Floor, B Wing, iThink Techno Campus, 2, Garden Estate Pokhran Road, Hill Garden, Kokanipada, Thane West, Thane, Maharashtra 400607
8. Email	Prashant.Tandon@in.panasonic.com

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Customer Care no.: 022-41304130 | WhatsApp: 9136028606 | Email: wecare@in.panasonic.com | www.isin.panasonic.com

Registered Office: 12th Floor, Ambience Tower, Ambience Island, NH-48, Gurugram - 122 002, Haryana.



HPL ELECTRIC & POWER LTD

Windsor Business Park, B-1D, Sector 10, Noida, Uttar Pradesh-201301

Tel: +91-120-4656300, Fax: +91-11-23232639

E-mail: gautamseth@hplindia.com, rishiseth@hplindia.com

COMPANY PROFILE:

HPL Electric & Power Limited is a multi-product electric equipment company in the electrical equipment industry. The Company has always believed in being technically abreast and keeping focus on the design and development of products. HPL has two R&D centers, with over 100+ engineers for designing & development modern products. The R&D Centers are approved by the Department of Scientific and industrial Research, Ministry of Science and Technology, Government of India. HPL's product range is divided into four verticals - Metering Solutions, Switchgears, LED Lighting and Wire & Cables.

ESTABLISHED:

1. Business Domain	Electric Equipment Manufacturing
2. Product Brand	HPL
3. Manufacturing Facilities	HPL has 7 Manufacturing facilities, located at Gurgaon, Kundli, Sonapat, Gharaunda in Haryana and Jabli Himachal Pradesh. Facilities are ISO 9001 certified and are well equipped with latest technology to manufacture products conforming to the Indian & International standards.
4. Products Manufactured	LED Lighting equipment's, Metering Solutions, Switchgear, Modular Switches, Wire & Cables and Solar solutions
5. Details of Exports (Products/countries/value etc.)	Exports in more than 40+ countries. SAARC, Africa, Middle east, Gulf and Far East Countries.
6. No. of employees	1200+
7. Directors and their contact details (phone, e-mail, location etc)	1. Mr. Rishi Seth (MD) 2. Mr. Gautam Seth (JMD)
8. Contact Persons for a. Business Development b. Exports c. Production (With names, designation & Addresses)	a. Mr. Rishi Seth (MD) b. Mr. Gautam Seth (JMD) c. Mr. Niraj Tiwari, Sr. Vice President Mobile No.: +91-9910706904 E-mail: nirajtiwari@hplindia.com
9. Regional Offices – Contact person / address	North: Windsor Business park, B-1D Sector 10, Noida Uttar Pradesh-201301 East: 69, Ganesh Chandra Avenue, India House, 7th Floor, Block-C, Kolkata - 700 013 West: 2C/H, Rushabh Chambers 2nd Floor, Off-Makwana Road, Near Rubi Hotel Marol, Andheri East Mumbai - 400 059 South: "Amar Sindur" S-4, 2nd Floor, No.-43, Pantheon Road, Egmore, Chennai-600 008
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Wipro House, No 8, 80 feet Road, Koramangala 1st Block, Bangalore-560034,
Karnataka, India, Tel: 080-61990100
E-mail: sanjay.gupta5@wipro.com

COMPANY PROFILE:

Wipro Enterprises Private Limited comprises of two main business units namely Wipro Consumer Care and Lighting and Wipro Infrastructure Engineering. Wipro Consumer Care & Lighting is a leading player in Personal Care, Home Care, Lighting, Modular Switches and Office Furniture. Wipro Infrastructure Engineering is a diversified engineering business in the fields of Hydraulics, Aerospace, Water Treatment, Additive Manufacturing and Automation Solutions.

ESTABLISHED: 1945

1. Business Domain	Lighting, Switches, Office Furniture, Personal Care and Home Care
2. Product Brand	Wipro (Lighting), North West (Switches)
3. Manufacturing Facilities	Waluj (Maharashtra), Baddi (H.P), Haridwar (Uttaranchal)
4. Products Manufactured	Lighting, Furniture, Switches and Personal care
5. No. of employees	12000+
6. Directors and their contact details (phone, e-mail, location etc)	Mr. Vineet Agrawal CEO, Wipro Consumer Care & Lighting
7. Contact Persons for a. Business Development b. Exports c. Production (With names, designation & Addresses)	Mr. Sanjay Gupta Sr Vice President, Wipro Enterprises (P) Ltd., C Block, Doddakannelli, Sarjapur Road, Bangalore - 560035
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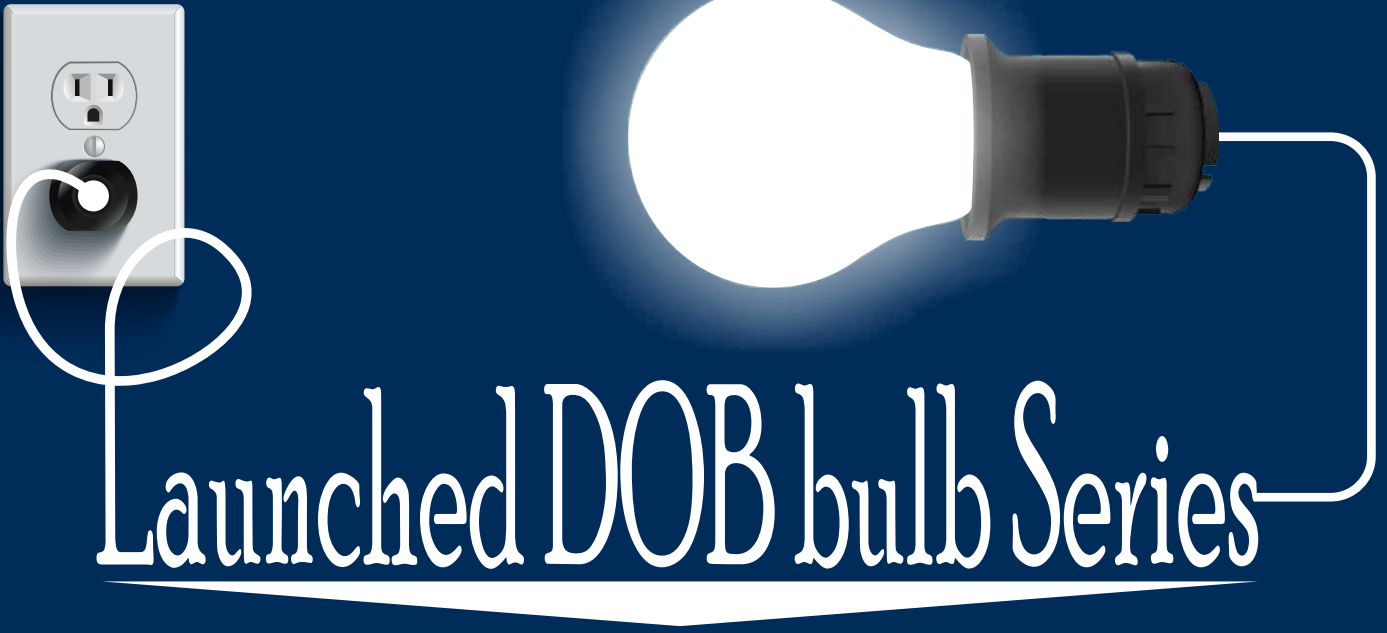
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ESTABLISHED:

1. Business Domain	LED LIGHTING PRODUCTS			
2. OEM's FOR	ORIENT ELECTRIC, HAVELLS, BAJAJ ELECTRICALS, PHILIPS, EVEREADY, SYSKA, ECOLINK, GREATWHITE, GM, CROMPTON, RELIANE(BPL), HPL, WIPRO, GOLDMEDAL, SURYA, NIPPO, ETC.			
3. Manufacturing Facilities	RK Lighting Pvt. Ltd. Radhika opto Electronics Pvt. Ltd. Cromlux Engineers Pvt. Ltd. RK Global Pvt. Ltd.			
4. Products Manufactured	LED Batten Smart LED Batten LED Tube	LED Spotlight LED Bulb Smart Bulb	LED Downlight LED Luminaries Panel	LED Flood Light LED Panel
5. No. of employees	600 Staff 4000 Worker			
6. Directors and their contact details (phone, e-mail, location etc)	Mr. S.R Khandelwal srk21148@gmail.com Mr. Amit Khandelwal amit@rklights.com		Mr. Abhimanyu Khandelwal abhimanyu@rklights.com	
8. Regional Offices–Contact person / address	Mumbai: 223, Adhyaru Indl. Estate, Sun Mill Compound Lower Parel, Mumbai, Maharashtra 400013 Noida: C - 04, Sector - 63, Gautama Buddha Nagar Noida - 201301			
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COMPANY PROFILE:

ESTABLISHED:

1. Business Domain	LED Lighting Products
2. Product Brand	EVEREADY & POWERCELL
3. Manufacturing Facilities	Hyderabad, Noida, Lucknow
4. Products Manufactured	LED Lamps, Indoor, Outdoor & Industrial Luminaires
5. Other Products Traded	Decorative & Architectural Led Lights, Spike Guards & Multi Plugs
6. Annual Lighting Turnover	Rs. 300 Cr.
7. Contact Persons for a. Business Development b. Exports c. Production (With names, designation & Addresses)	<p>Mr. Mohit Sharma Sr. Vice President – Business Head Lighting and Appliances mohit.sharma@eveready.co.in</p> <p>Mr Amit Kumar Pandey General Manager – Professional Lighting Amit.pandey@eveready.co.in</p> <p>Mr Chandra Bhal Rathour Deputy General Manager – Consumer Lighting chandra.rathour@eveready.com</p> <p>2, Rainey Park, Kolkata – 700019</p>





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ESTABLISHED:

1. Business Domain	Complete LED Lighting Solutions
2. Product Brand	Jaquar
3. Manufacturing Facilities	Bhiwadi, Rajasthan
4. Products Manufactured	Complete LED Lighting Solutions
5. Details of Exports (Products/countries/value etc.)	Complete LED Lighting Solutions / Asia Pacific / Europe / Africa / Middle East
6. Directors and their contact details (phone, e-mail, location etc)	Mr. Ranbir Mehra (Director – Jaquar Lighting)
7. Contact Persons for a. Business Development b. Exports c. Production (With names, designation & Addresses)	Mr. Gaurav Arora – Business Head (Architectural & Façade Lighting)
8. Regional Offices – Contact person / address	Manesar, Haryana / Mr. Gaurav Arora / Plot No. 3, Near Maruti Gate No 4, IMT Manesar, Sector 11, Manesar, Gurugram, Haryana 122050
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COMPANY PROFILE:

ESTABLISHED: 1996

1. Business Domain	Manufacturing & Trading
2. Product Brand	Tridonic
3. Manufacturing Facilities	Shahapur, Thane District
4. Products Manufactured	Ballast
5. No. of employees	36
6. Directors and their contact details (phone, e-mail, location etc)	1. Bhavin Soonderji bhavin@tridonic.co.in 2. Jyotsna Soonderji
7. Contact Persons for a. Business Development b. Exports c. Production (With names, designation & Addresses)	a. Nilakshi Kadam Sales & Business Development 9321766055 b. Rakshit Rathi Sales & Business Development 9311466055
8. Regional Offices – Contact person / address	Head Office, Mumbai, 022 22025528
9. E-mail	bhavin@tridonic.co.in

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COMPANY PROFILE:
ESTABLISHED:

1. Business Domain	LED Lighting Products
2. Product Brand	SYSKA
3. Manufacturing Facilities	Rabale (Mumbai) & Chakan (Pune)
4. Products Manufactured	LED Bulbs, LED Downlights, LED Tube lights, LED Street Lights, LED Beam Lights, LED Hi-Bay Lights, Smart Downlights.
5. Details of Exports (Products/countries/value etc.)	All LED Products, UAE, African Countries, South East Asia, Philippines.
6. No. of employees	2000
7. Directors and their contact details (phone, e-mail, location etc)	1. Mr. Govind Uttamchandani 2. Mr. Rajesh Uttamchandani Tel (020) 4013100
8. Contact Persons for a. Business Development b. Exports c. Production (With names, designation & Addresses)	a. Mr. Gajanan Joshi b. Mr. Vishal Handa c. Mr. Ravindra Singh d. Mr. Tushar Sonone
9. Regional Offices – Contact person / address	Mumbai Office: Contact Person: Mr. Vishal Chabbria SYSKA LED Lights Pvt. Ltd., 601, 6th Floor, Center Point, A.K. Road, Near Chakala Metro Station, Andheri East, Mumbai- 400059. Delhi Office: Contact Person: Mr. Anil Singh/Mr. Atul Pandey Syska LED Lights Pvt. Ltd., DSM 355-356, 3rd Floor, DLF Towers, Shivaji Marg, Moti Nagar, New Delhi-110015.
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FISH GATHERING LAMP FOR PELAGIC (OCEANIC) FISHERY

The article introduces the technical requirements of LED Lamps for Fishery

Several countries started to research fish gathering lamp for pelagic fishery in the 1980s.

The traditional fish gathering luminaires were mainly metal halide source luminaires, whose spectrum range was from ultraviolet to visible light and infrared. Different marine or fresh-water fishes are only sensitive to light within a specific spectrum range and the proportion of energy effectively used for trapping is low. In addition, traditional light sources produce 360-degree stereo light and only part of it can enter the water, thus the overall light utilization efficiency of the luminaire is further lowered. These reasons led to the waste of the luminous efficiency of traditional fishing gathering luminaire, and the cost of fishing and light pollution of marine or fresh water ecological environment as a result increased.

LED fish gathering luminaires can be designed into a variety of light colors for specific color sensitive fish trapping. At the same time, LED luminaires have a strong directivity, which can throw most of the luminous flux emitted by the luminaire to the water surface or in a specific direction. These characteristics make them ideal for good fishing and at the same time are energy saving and environmentally safe. At present, LED luminaires have begun to replace the traditional metal halide lamps.

In order to ensure rapid development of LED fishing luminaire

industry and standardize the technical requirements of products and at the same time promoting high efficiency, safety, energy saving and long life of such products, the standard of technical requirements for LED fish gathering luminaire for fishing vessels has been specially formulated.

Present situation of industrial standards for fish gathering lamp

Initially countries such as Japan and Korea started the research on fish gathering lamp, but standardization of the fish gathering lamp on the international market was not carried out widely and was deeply affected by technology and patent constraints. The previous international standard for fish gathering lamp for pelagic fishery was IEC 60092-306 : Electrical installations in ships - Part 306: Equipment - Luminaires and lighting accessories 2009 (Edition 4). This standard set out full technical requirements on safety, environmental adaptability and mechanical performance of indoor and outdoor lamps for fishing vessels. The standard described specific standard technical requirements on structure, anti-mechanical damage, lamp seat wiring box, plug and socket and related accessories of the lamp for pelagic fishery. Although it was considered a guide for the fish gathering lamp for pelagic fishery, it was not the standard for the specific purpose of the fish gathering lamp and was only applicable to the lamp with conventional lighting source for pelagic fishery. It did not apply to LED lamp for this purpose and

S/N	Products	Description	Technical requirements
1	Vessel lamp	Vibration	Bearing vibration of 2Hz~130Hz for 90min
2		Impact	Each axial direction bears 100 pulses of semi-sinewave impact
3		Low temperature	Outdoor lamp working for 16h under the temperature of -25℃, and stored 48h under the temperature of -30℃
4		High temperature	Outdoor lamp working for 16h under the temperature of +70℃, and stored for 48h under the temperature of +60℃
5		Salt mist	Withstanding 4 cycles of alternative salt mist, 7-day continuous salt mist.

Table 1 Key Technical Requirements of International Standards of Electric Devices of Fishing Vessel

S/N	Products	Description	Technical requirements
1	LED onboard fish gathering lamp	Working environmental temperature	Normal working within temperature of -20°C~ +40°C
2		Storage environmental temperature	Stored within temperature of -40°C~ +55°C for 2h
3		Vibration	Withstanding wind strength of no less than magnitude 8
4	LED underwater fish gathering lamp	Anti-water pressure rating	Withstanding 0-300m water pressure
5		Underwater optical performance testing	Underwater illuminance, 0m-50m from the lighting lamp

Table 2 Key Technical Requirements of LED Fish Gathering Lamp

had many restrictions.

With the advancement of the Chinese group standards and policies, Chinese LED groups and alliances started to research drafting and revision of the group standards and industrial standards for fish gathering lamp. In January, 2017, the LED Standards Alliance of Shenzhen, China issued the industrial standards SZTT/LSA 014.1-2017 LED Fish Gathering Lamp

Technical Specifications Part 1: LED Onboard Fish Gathering Lamp and SZTT/LSA 014.2-2017 LED Fish Gathering Lamp Technical Specifications Part 2: LED Underwater Fish Gathering Lamp. These standards describe scope, nomenclature and definition, classification and naming codes of the LED onboard fish gathering lamp and LED underwater fish gathering lamp and set out regulated technical standards in structure, safety, photoelectric performance, electromagnetic compatibility,

S/N	Products	Description	Technical requirements
1	Ballast of electric-discharge lamp of high-strength gas	High temperature	Normal working under temperature of +45°C
2		Low temperature	Normal working under temperature of -10°C
3		Vibration	1Hz~12.5 Hz, sinewave vibration with displacement of 1.6mm

Table 3 Key Technical Requirements of Ballast of Fish Gathering Lamp for Pelagic Fishery

S/N	Products	Description	Technical requirements
1	LED waterborne fish gathering lamp	Protection rating	Total protection rating up to IP66
2		Salt mist Ka	Withstanding 48h continuous salt mist
3		Salt mist Kb	Withstanding 4 cycles of alternative salt mist

Table 4 Key Technical Requirements of LED Fish Gathering Lamp for Fishing Vessel

S/N	Products	Description	Technical requirements
1	LED waterborne fish gathering lamp	Protection rating	Total protection rating up to IP66
2		Salt mist Ka	Withstanding 48h continuous salt mist
3		Salt mist Kb	Withstanding 4 cycles of alternative salt mist

Table 4 Key Technical Requirements of LED Fish Gathering Lamp for Fishing Vessel

S/N	Products	Description	Technical requirements
1	LED waterborne/ underwater fish gathering lamp LED	Grounding stipulations	Lamp structure of type II or III
2		Initial lighting effects	Classified into 3 grades for red, green, and white lights
3	LED underwater fish gathering lamp	Seawater corrosion	Artificial seawater soaking for 14 days

Table 5 Key Technical Requirements of LED Fish Gathering Lamp

service and maintainability and hazardous substance limits of the LED fish gathering lamps.

Analysis of technical requirements of the standard

At present, the latest edition of international standards of lamp for pelagic fishery is IEC 60092-306: Electrical installations in ships - Part 306: Equipment - Luminaires and lighting accessories 2009 (Edition 4.0), and the key technologies are as shown in

Compared with the conventional lamp for pelagic fishery, the application scenarios and purposes of the fish gathering lamps are obviously different, and stricter requirements are proposed to electrical performance, safety structure, and energy efficiency of the products.

In summary, the international IEC standard of the lamp for pelagic fishery set out technical requirements on vibration adaptability, anti-impact adaptability, high-temperature, low-temperature and salt mist adaptability. The industrial standards

of fish gathering lamp drafted and issued by Chinese Standards Development Organizations (SDOs), further refine the requirements on lamp energy efficiency, enclosure pressure resistance and underwater optical performance based on concerning environmental adaptability requirements of the products. Based on future technical advancements, the standards for the newly released LED vessel and underwater LED fish gathering lamp further highlight technical requirements on product performance and seawater adaptability, carried out grading technical requirements for lighting efficiency of the vessel LED fish gathering lamp and fully advanced quality improvement and industrial technological progress of the LED fish gathering lamp.

AUTHOR: LI BENLIANG, DONGGUAN QUALITY SUPERVISION TESTING CENTER, GUANGDONG, CHINA AND NATIONAL SEMICONDUCTOR LIGHTING PRODUCT QUALITY INSPECTION AND TESTING CENTER (GUANGDONG), CHINA

Views expressed in this article are those of the contributors and do not necessarily reflect those of the editors or publishers

NEED FOR SAFETY AND REGULATION FOR UV-C PRODUCTS

Mr Soumo Ghosal recommends steps needed to regulate UV products and protect consumers

It has been almost nine months now, that the world has been struggling to find a solution to destroy and contain the new coronavirus SARS-COV-2 which is responsible for COVID19 disease. A vaccine for same is yet to be developed but the lighting industry all over the globe is coming up with UV-C devices and sources in variant shapes and sizes. UV-C can inactivate malignant microorganisms and viruses safely by applying appropriate safety measures. In this context it should be noted that initial research results demonstrate that UV-C also effectively neutralizes SARS-CoV-2.

The UV Disinfection market is already an established one with quite a few specialized professional equipment manufacturers but the added interest of lighting manufacturers to come up with UVC Lamps and devices has added more fuel. Product manufacturing has increased since the outbreak of the COVID-19 pandemic. Various organizations are coming up with varied concepts and products for disinfecting high tech surfaces and areas with large flow of people like airports, hotels, shopping malls, offices, hospitals etc.

Ease of installation and low maintenance, supervision, and space requirements have also led to the growing demand for this

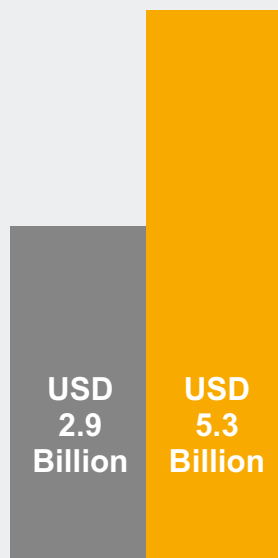
technology. In addition, the equipment also provides improved safety, minimum service time, and low sensitivity to pH and temperature variations compared to traditional disinfection technologies, such as chlorination. UV lamps led the market and accounted for 31.0% of the global revenue share in 2019 on account of the increasing demand in water and wastewater treatment plants.

Overview of the Market for the UV Disinfection System

The global UV disinfection equipment market size is projected to grow from USD 2.9 billion in 2020 to USD 5.3 billion by 2025 at a CAGR of 12.3% from 2020 to 2025. Key factors fueling the growth of this market include increasing demand for UV disinfection equipment due to threats of infectious diseases, and long life and lower power consumption of LED-based UV disinfection equipment.

UV disinfection equipment can employ single or multiple UV lamps depending on its function. The decreased operating cost of UV disinfection equipment due to the adoption of UV LED has fueled the growth of the market. The high reliability of UV disinfection equipment with UV lamps is expected to drive the

Attractive Opportunities in the UV disinfection equipment Market



CAGR

12.3%

- The UV disinfection equipment market is projected to grow from USD 2.9 billion in 2020 to USD 5.3 billion by 2025, at a CAGR of 12.3%
- Increasing threat of infectious diseases is expected to drive the market growth over the forecast period.
- The market for municipal segment is projected to grow at the highest CAGR during the forecast period.

market further.

UVC Performance

The performance of a UVC germicidal irradiance depends on the correct design calculations with proper derating and life estimations followed by thorough evaluation through testing and verification. The performance as per the claim of the manufacturer has to be maintained with sufficient reliability over the declared life class of the product. Any failure mode will expose the consumer to the risk of infection leading to potential health hazard. There exists no standardized testing mechanism for performance evaluation at present.

The effectiveness of UV-C radiation as a disinfectant is determined by:

- action spectrum of the microorganisms and/or viruses
- wavelength of the UV-C radiation (common unit: nm)
- UV-C dose, or fluence, (UV-C energy/unit area - J/m^2 or mJ/cm^2) which is the product of: UV-C irradiance (UV-C power/unit area - W/m^2 or $\mu\text{W/cm}^2$) and amount of time the microorganism or virus is exposed to the radiation (secs).
- application characteristics such as:
 - distance of UV-C source to the surface (in the case of surface-disinfection)
 - material surface characteristics (in the case of surface disinfection)
 - air-circulation (in the case of air-disinfection)
 - incident beam-angle of the UV-C source
 - ambient temperature and humidity
 - reflection of ceilings, wall, furniture, etc.

Keeping in mind the above features for effective disinfection of a given product, the performance testing requirements may be summarized as verification of below parameters:

- Peak Wavelength and FWHM (Full width at half maximum i.e. the wavelength bandwidth)
- Study of the entire UV Spectrum (Please note that 265nm has the maximum germicidal efficiency)
- The overall radiant flux and efficiency of the source at product level

- Estimation of switching cycle performance.
- Estimation on maintained lumen after a defined period of time (typically can be tested for 25% of declared life or 3000 hrs whichever is lower)
- Proof of the Log Reduction Value (LRV) through either actual photobiological testing or through documented measurement of irradiance values at the application area.
- In case of system design for a 3D space, a typical measurement of the UVC source distribution will help in ray tracing and arriving at uniform irradiance.
- At actual dosage measurement at application area.
- Evaluation of material degradation under the effect of long-term UV exposure.

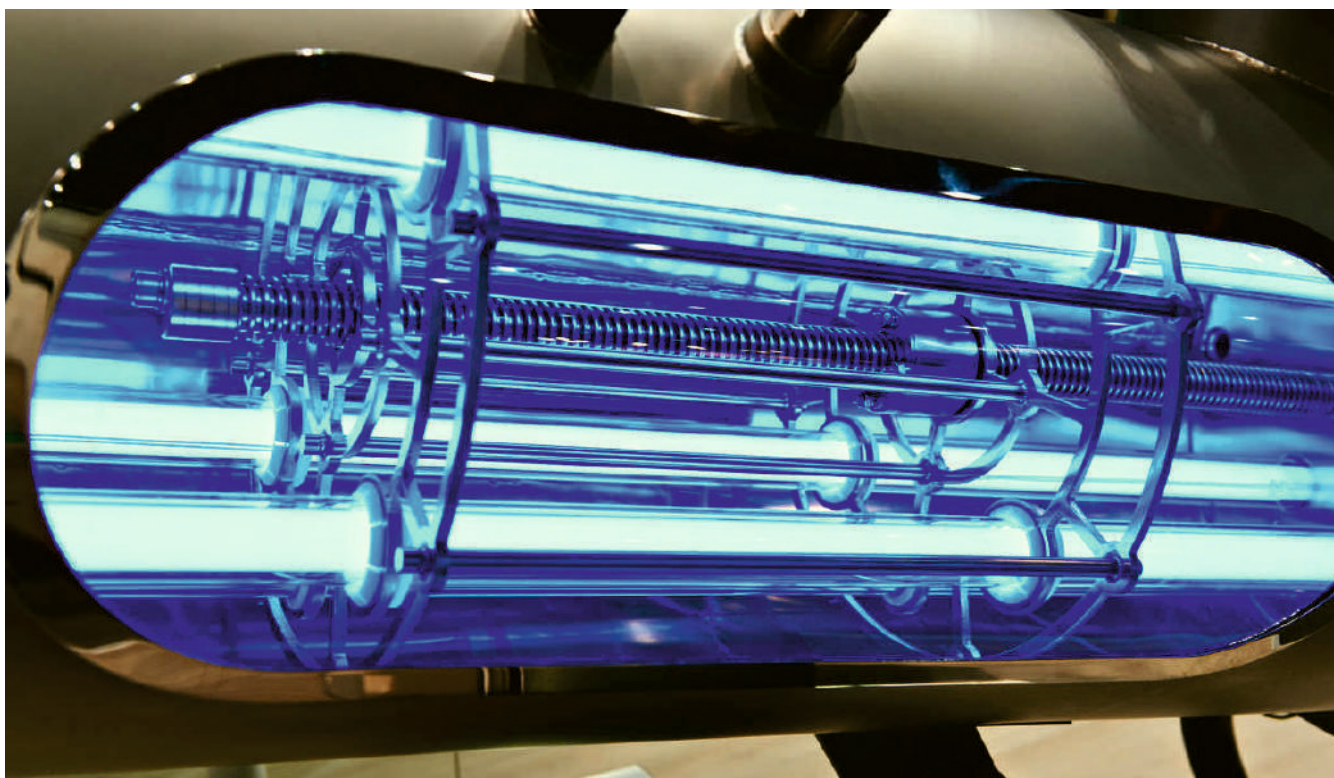
Safety Requirements

UV-C devices produce a monochromatic or broadband UV-C irradiance in the 100 nm to 280 nm wavelength range. For effective disinfection purposes, the UV-C irradiance energy of these UV-C devices is much higher than normal sunlight. These high UV-C irradiance energies can present hazards to exposed humans, animals and materials. However proper safety measures can mitigate such effects.

The hazards are twofold - irradiance and ozone (O₃). The irradiance hazard can damage the human eye and cause a severe sunburn-like reaction to the human skin. The irradiance hazard can also damage materials. The ozone (O₃) hazard occurs at wavelengths below 240 nm and can cause a toxic reaction in the human body.

Suitable safety measures vary depending on the UV-C source and application. They may include (a) shielding to prevent direct exposure to people, pets and delicate materials; (b) fully containing the source in a chamber or enclosure; (c) access control or presence sensing to prevent operation of the source when a space is occupied; (d) interlock to prevent operation of the source when its enclosure is opened' (e) timer or other control to limit operating time per 8-hour period corresponding to maximum irradiance guidelines; (f) personal protective equipment such as goggles, gloves, mask, shield or dosimeter; (g) warning labels, installation instructions, operating manual and training.

As with any human-machine interaction, UV-C disinfection



sources and products and their application environments must be used correctly to be safe. The Global Lighting Association has issued its Position Statement on Germicidal UV-C Irradiation: UV-C Safety Guidelines which addresses this issue in detail.

Regulatory Requirement

Though UVC Germicidal Applications have been in existence for more than ninety years now, the regulatory requirements and the standard methods for measurement and reporting of data is not present in a structured format.

There are varied issues of market being flooded with unsafe products. Some UVA LED products are being sold as germicidal, some UVC products are being sold in consumer spaces without proper safeguards or warnings. Better understanding of the human hazard, building material degradation, abnormality in plant growth, hazard to pets etc. caused due to long term exposure to UVC is needed. Hence it is strongly recommended to put the UVC products under regulation.

Unfortunately, the online retail market is growing rapidly with handheld and portable consumer oriented UVC germicidal devices, many of which do not employ proper containment or other equivalent means of protection. Instead, these tend to rely solely on markings or integral timers, unreliable sensors, or

remote controllers, which still leave room for scenarios where humans or animals can be over-exposed to the UVC light. Without better safeguards and without consumers being more fully aware of risks and trained in proper operation, this would place an unrealistic responsibility on the user and, consequently, such products at present cannot be certified.

For all UVC consumer products sold, certification is essential. And warning labels are not enough as children or pets cannot be expected to follow written warnings, and home environments pose innumerable situations that could result in misuse and potential harm when the technical safeguards are inadequate. Some of the cheap unreliable products which have flooded the online market should be assessed and strongly covered under a regulatory framework so that the consumer safety is ensured.

The UVC task force setup by ELCOMA is also working in close cooperation with the Bureau of Indian Standards to release an Indian standard for the safety of UVC Sources and devices and advocating strongly for the requirement of a regulation for such products.

**AUTHOR: SOUMO GHOSAL,
SENIOR MANAGER- PRODUCT VALIDATION
CENTRE FOR RESEARCH & INNOVATION,
HAVELLS INDIA LIMITED**

Views expressed in this article are those of the contributors and do not necessarily reflect those of the editors or publishers



LITEX ELECTRICALS PVT. LTD.

W 134 S Block Midc Bhosari Pune 411026 Maharashtra India

Tel: +91 20 66301073 / +91 8378980792

E-mail: sales@litexelectricals.com, marketing@litexelectricals.com

COMPANY PROFILE:

ESTABLISHED:

1. Business Domain	Manufacturing of Halogen Lamps, Flash and Modules.
2. Product Brand	RadiHeat, Cinolite, Litex
3. Manufacturing Facilities	Plant to make 10,000 lamps pm Infrared Lamps, 10,000 pm Stage/Studio Lamps, Modules as per needs
4. Products Manufactured	Infrared Lamps, Stage/Studio Halogen Lamps, Xenon & Krypton filled Flash Lamps, Modules for Infrared Heating for various applications
5. Details of Exports (Products/countries/value etc.)	Infrared Lamps to US, UK, South Africa, Egypt., Heating modules to UK. Flash Lamps to Israel, Italy
6. Annual Lighting Turnover	Rs. 6 crores
7. No. of employees	50
8. Directors and their contact details (phone, e-mail, location etc)	Dr Avinash D Kulkarni, Chairman, Mr Shirish V Karkarey, Managing Director Dr Sharashchandra V Rajarshi, Director
9. Contact Persons for a. Business Development b. Exports c. Production (With names, designation & Addresses)	a. Dr Sharashchandra V Rajarshi, Director, b. Mr Shirish V Karkarey, Managing Director c. Mr Uttam T Kawade, General Manager
10. E-mail	sales@litexelectricals.co,; marketing@litexelectricals.com

ELIMINATE YOUR DEPENDENCE ON IMPORTS - BE VOCAL FOR LOCAL



Making the invisible work for you

QUARTZ INFRARED HALOGEN LAMPS

(Near infrared, short wave, fast response medium wave, medium wave) for PET Bottle manufacturing, Paint Curing, Printing, Paperboard Manufacturing and a host of applications. Custom designed lamps to your needs



Bringing performance to light

HALOGEN LAMPS FOR ENTERTAINMENT

A range of the most popular 1000 watt and 2000 watt lamps in different configurations used by the film, stage and studio industry

And, a range of Xenon & Krypton filled Laser Pumping Lamps for a variety of applications.



LITEX ELECTRICALS PVT. LTD.

W 134 S Block MIDC Bhosari PUNE 411026

Website : www.litexelectricals.com

Email: sales@litexelectricals.com



DIXON TECHNOLOGIES INDIA LIMITED

B-14/15 Phase -2, Noida, Uttar Pradesh-201305

TEL: 0120-4737200

E-mail: nirupam.sahay@dixoninfo.com

COMPANY PROFILE:

ODM AND EMS MANUFACTURER

ESTABLISHED: 1993

1. Business Domain	Lighting
2. Product Brand	ODM/OEM Solutions
3. Manufacturing Facilities	Located in Noida and Dehradun
4. Products Manufactured	LED Bulbs, LED Battens, LED Down lighters and Panels, DC or AC Supplied Drivers, Smart Bulbs, Smart Battens, Smart Downlighters
5. Details of Exports (Products/countries/value etc.)	USA, Srilanka, Kenya
6. Annual Lighting Turnover	1500 cr
7. No. of employees	3000
8. Directors and their contact details (phone, e-mail, location etc)	1. Mr. Sunil Vachani - Executive Chairman 2. Mr. Atul B Lall - Vice Chairman and Managing Director 3. Mr. Nirupam Sahay - President and COO (Lighting Solution) 4. Mr. Amit Mittal - Vice President (Operations) (other directors are independent)
9. Contact Persons for a. Business Development b. Exports c. Production (With names, designation & Addresses)	a. sanjay.makroo@dixoninfo.com b. vikas.juneja@dixoninfo.com c. amit.mittal@dixoninfo.com
10. E-mail	nirupam.sahay@dixoninfo.com

COMPANY PROFILE:


Luker Electric Technologies PVT Ltd has made it gain popularity as the best lighting company in the world. The significant investment in developing new technologies has led the global lighting revolution with the likes of advanced fixtures and lighting solutions. Luker has developed and manufactured LED lights of the next-gen that meet local and international standards. It is undoubtedly the best lighting company integrating advanced thermal management, short circuit and open circuit protection including other innovative features. Added to this, the products undergo rigorous testing before it leaves the factories.

The history, experience, and approach to engineering and manufacturing of LEDs ensure that Luker is rated the best and the products stand out from the rest with high quality.

ESTABLISHED:

1. Business Domain	Electrical and Electronic products
2. Product Brand	Luker
3. Manufacturing Facilities	Luker Electric Technologies Pvt Ltd 54, Krishnarayapuram Thotta Salai,, Old Cochin Bypass Road,, Chettipalayam, Coimbatore, Tamil Nadu, 641201
4. Products Manufactured	LED Luminaires and Fans
5. Other Products Traded	LED Luminaires, Fans, Water Heater, Air Coolers, Switch Gear
6. Details of Exports (Products/countries/value etc.)	Led Luminaires, Gulf Countries, Maldives, Sri Lanka Rs. 66.05 Lakhs (2021-22)
7. Annual Lighting Turnover	Rs 222.81 Crores – 2021-22 (LED Luminaires)
8. No. of employees	1017 Employees as on 31.03.2022
9. Directors and their contact details (phone, e-mail, location etc)	1. Jothish Kumar Vasudevan Nair,9995655221, jk@luckerindia.com , Kerala 2. Antony VP, 9947264866, antonyvp2389@gmail.com , Kerala 3. E. Sivaramakrishnan, 9447140720, Srk.e@luckerindia.com , Kerala 4. Aviral Jain, 9820339751, ajain@sigulerguff.com , Mumbai
10. Contact Persons for a. Business Development b. Exports c. Production (With names, designation & Addresses)	a. Jothish Kumar, CEO, Luker Electric Technologies Pvt Ltd - Cochin b. Steeve Irimpan, Assistant General Manager – Sales & Marketing, Luker Electric Technologies Pvt Ltd -Cochin c. Mohanan PM, 80752540314, Luker Electric Technologies Pvt Ltd - Coimbatore
11. Regional Offices – Contact person / address	Radhakrishnan K, 9633144133, Luker Electric Technologies Private Ltd - Cochin
12. E-mail	Srk.e@luckerindia.com

COMPANY PROFILE:
ESTABLISHED: 2006

1. Business Domain	Electrical Lighting Products
2. Product Brand	
3. Manufacturing Facilities	2 Manufacturing facility in Noida
4. Products Manufactured	LED Lamps, Panels, Battens, Downlighters, LED Street Lights, LED Flood Lights, LED Well Glass & Industrial Luminaires
5. Other Products Traded	LED Strip light, COB Spotlight
6. Details of Exports (Products/countries/value etc.)	LED Lamps, Battens Street light(UAE, Nepal & Singapore)
7. No. of employees	Approx. 250
8. Directors and their contact details (phone, e-mail, location etc)	Mr. Rakesh Khanna (rakesh.khanna@orientelectric.com, Delhi)
9. Contact Persons for a. Business Development b. Exports c. Production (With names, designation & Addresses)	a. Mr. Puneet Dhawan (Ex. VP) b. Mr. Santosh Upadhyay (DGM) c. Mr. Ashwani Sharma (Sr. GM)
10. Regional Offices – Contact person / address	As mentioned above
11. E-mail	Puneet.dhawan@orientelectric.com



MLS INDIA PVT LTD.

Signature Towers, 1201&1202, 12th Floor,
Tower A, South City-1, Gurugram-122003

Tel: 91-124-4867400/01

E-mail: sean.chi@mlsindia.net

COMPANY PROFILE:

ESTABLISHED: 2015 (INDIA OFFICE) 1997 (CHINA OFFICE)

1. Business Domain	LED components
2. Product Brand	MLS
3. Manufacturing Facilities	China (5 factories)
4. Products Manufactured	LED Components , Tubes, Bulbs
5. Other Products Traded	NA
6. Details of Exports (Products/countries/value etc.)	India , Europe , USA
7. No. of employees	4
8. Directors and their contact details (phone, e-mail, location etc)	Mr. Krishan Sujan +91 9871675599
9. Contact Persons for a. Business Development b. Exports c. Production (With names, designation & Addresses)	Mr. Sean.Chi Manager Operations +91 9599696919 / +86 13626680349
10. E-mail	Sean.Chi@mlsindia.net

Future is this



HALONIX TECHNOLOGIES PVT. LTD.

B-31, Phase II, Noida-201302. Tel: 0120-4756100, Fax: 0120-4756101

E-mail: mukesh.chaturvedi@halonix.co.in

Halonix Technologies Pvt Ltd is amongst India's fastest growing electrical company. It caters to both retail and institutional buyers with its innovative, economical and smart-tech offerings across Lighting, Fans and Smart/IOT Products. The company has been a forerunner in the development of energy-efficient lighting solutions in various segments like PSU's, Government, Railways, Airports, NHAs, Manufacturing Industries, IT/ITES, Corporates, Hospitality and Healthcare. With the credo of Make in India and Made for India, Halonix's success has been built on its unparalleled ability to develop, validate and deploy solutions that are relevant and suitable for Indian conditions. Because of its relentless key focus on innovation across the product range, the brand is widely accepted by end customers & business influencers like architects & electrical consultants throughout India.

Halonix is one of the few companies in India with a fully accredited NABL self-certified laboratory and state-of-the-art R&D laboratory within its manufacturing plant, allowing its dedicated R&D and design teams to push the envelope and develop cutting-edge products tailor-made for Indian consumers. The company has state-of-the-art manufacturing facilities and has been accredited with ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018 certifications. It is also the first company to set up a pan-India dedicated service network for lighting to cater to the need of retail and institutional segments. Its wide distribution network comprising of over 800 dealers & distributors and 20 depots ensures that its products are made available across the length and breadth of a country.

Spearheading the technological revolution, Halonix is one of the top 5 brands in the lighting industry. Halonix has continuously driven relevant technological innovations such as DJ Speaker bulb, Air Purifier Ionizer bulb, Plug & Play Fire Alarm, Smart Wi-Fi Plug, Motion sensor bulb, multi-wattages in one product solutions, RF wireless based Smart Lighting, Bluetooth based solution, Architectural Lighting, Façade Lighting to its product portfolio with an in-house product design and development team.

Halonix has also launched innovative products in the Fans segment by combining innovation and user-centric design to create greater value for its customers. Some path breaking innovations include Morpheus - India's first retractable blade chandelier fan, Halo - a novel design IOT fan, Cuboid - a low ceiling lighting and fan solution and Smart IOT Fan Kit amongst others. Halonix has launched a range of wifi security cameras under its sub-brand Halonix Shield, amongst its security camera products is India's first totally wireless security camera with in-built battery that lasts upto 30 days.

Business domain	Lighting, Fans, Security Camera and Smart IOT Products		
Product brand	Halonix		
Manufacturing facilities	Halonix Technologies Pvt. Ltd. Plot No. 5, Sector 12, IIE SIDCUL, Haridwar, Uttarakhand - 249403		
Products manufactured	LED Lamps, LED Luminaires, HID, Halogen, Fans, Smart IOT Products, UV Products (Halonix Shield)		
No. of employees	970		
Directors and their contact details (phone, e-mail, location etc)	Mr. Rakesh Zutshi B-31, Phase II, Noida. Tel: 0120-4756100. Email: rakesh.zutshi@halonix.co.in		
Contact persons for (With names, designation & e-mail)	Business Development (Institutional) Mr. Sameer Jindal VP- Institutional Sales, Email: sameer.jindal@halonix.co.in	Business Development (Retail) Mr. Kalyan Mojumder VP- Retail Sales, Email: kalyan.mojumder@halonix.co.in	Production Mr. Prabhakant Shukla VP- Production, Email: prabhakant.shukla@halonix.co.in
Regional offices - Contact person / address	Mumbai Halonix Technologies Pvt. Ltd. The Affairs Office No. 1402, 14th Floor, Plot No. 9, Sector 17, Sanpada, Navi Mumbai, Thane - 400705 Tel: +91 -022 - 35120050	Bangalore Halonix Technologies Pvt. Ltd. No.6 "Legacy " 1st Floor, Convent Road, Richmond Town, Bengaluru - 560025 Tel: + 91 - 080 - 41125296	Kolkata Halonix Technologies Pvt. Ltd. 67B Ballygunge Circular Road, Ballygunge Park Tower, 9th Floor, Kolkata - 700019 Tel: +91 - 033 - 4008184
E-mail	customercare@halonix.co.in		



LED Light



Down Light



Street Light



Flood Light



Solar Street Lights

ADDITIONAL COLOUR QUALITY MEASURE TO BE USED WITH CRI

Application of CIE 13.3-1995 with associated CRI-based Colour Rendition Properties



The Global Lighting Association (GLA) issued a position statement on Colour Rendering Index in 2015 with, amongst other things, the request for an additional colour quality measure that can be used in conjunction with the well-established CIE general Colour Rendering Index, R_a . This additional color quality measure, to be used in conjunction with CRI has been formally endorsed by ELCOMA technical committee as well as the Governing Body. Since 2015, there have been several efforts to develop such a measure:

- The Illumination Engineering Society (IES) of North America has published IES TM-30-15 “IES Method for Evaluating Light Source Color Rendition” in 2015
- The International Commission on Illumination (CIE) has published CIE 224 “CIE 2017 Colour Fidelity Index for accurate scientific use” in 2017.
- CIE Reportership DR 1-68 “A Gamut Area Measure and Colour-shift Graphic, based on CIE 13.3-1995” was established in April 2017, with unanimous approval of the GLA membership.

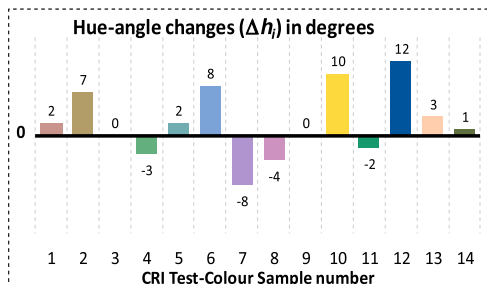
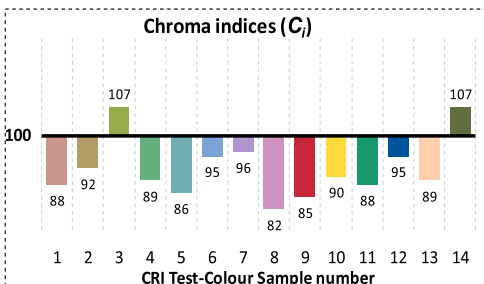
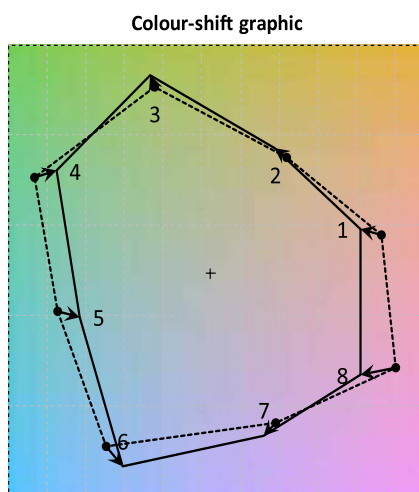
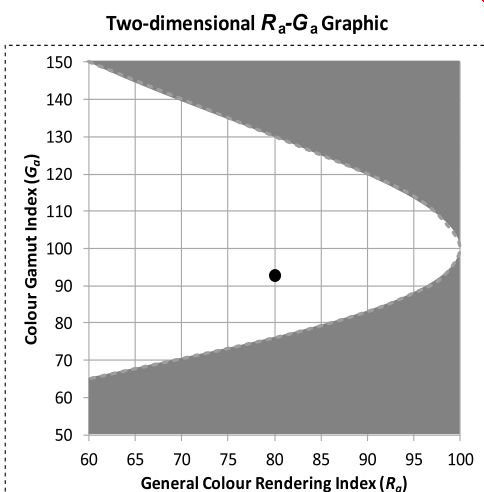
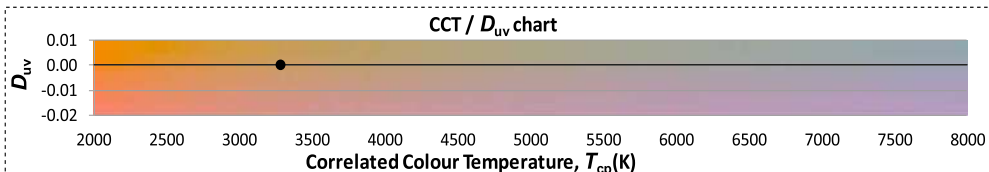
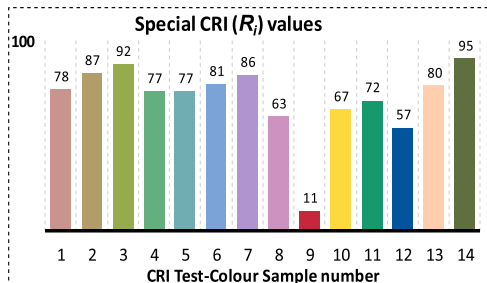
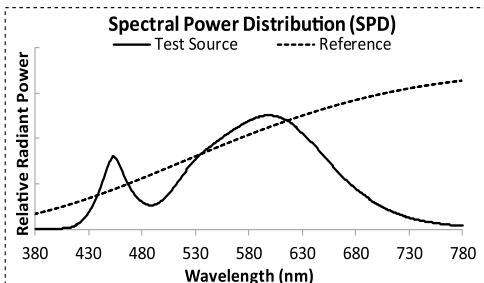
CIE is the globally recognized organization for characterizing light and lighting and for publishing international reports and stand-ards in this field. The recently published document CIE 224 includes a new colour rendering index (R_f), which is based on IES TM-30-15, but the CIE recommends this new fidelity index only for scientific (not for industrial) purposes. Consequently, R_a will continue to be used in the lighting industry, which is in line with the GLA 2015 position statement.

The activities of CIE Reportership DR 1-68, to supplement R_a with additional CRI-based measures, started in April 2017 and the Technical Note was expected to be published in early 2018. The members of the Reportership completed their work, but, the CIE Board of Administration felt it was inappropriate for the CIE to publish a Technical Note based on the CIE 13.3 Technical Report “Method of Measuring and Specifying Colour Rendering Properties of Light Sources”, which was last revised in 1995, especially bearing in mind that CIE 224 with R_f was published in 2017. Consequently, it was decided by the CIE Board of Administration that there will be no CIE publication with a measure to supplement CRI on such short notice.

Output of GLA Calculation Tool for CIE 13.3 CRI and Associated CRI-based Colour Rendition Properties

Test Source:	Example (CIE 224) LED spectrum
Notes:	From CIE 2017 Colour Fidelity Index Calculator 1 nm - V.3(2017-07-15).xlsx
Date / Time:	Friday, December 7, 2018
	12:55:53 PM

Correlated Colour Temperature (T_{cp}) in K	3288	CIE1931 chromaticity coordinate, x	0.4174
Distance to Blackbody Locus (D_{uv})	-0.0003	CIE1931 chromaticity coordinate, y	0.3957
General Colour Rendering Index (R_a)	80	CIE1976 chromaticity coordinate, u'	0.2415
Colour Gamut Index (G_a)	93	CIE1976 chromaticity coordinate, v'	0.5151



To satisfy the needs of the lighting industry, it was felt that GLA must publish the CRI-based measures defined by CIE DR 1-68. These measures are a straightforward extension of the CRI method defined in CIE 13.3 and consistent with the Japanese Industry Standard JIS Z 8726-1990, "Method of Specifying Colour Rendering Properties of Light Sources". The new measures include a colour gamut index (G_a), chroma indices (C_i), hue-angle changes (Δh_i), and a colour shift graphic, which may help explaining why object colours can still appear differently when illuminated under light sources with the same R_a value. China is in the process of including these measures in their CRI-update document (GB/T 5702)

To ensure global availability and dissemination of the measures, GLA has published these on their website alongside with an accompanying Excel tool to compute the values such that all manufacturers and end-users have free access and can freely use them upon their desire. This enables a unified and more complete characterization of the colour rendering properties of white light sources.

Conferences

Conferences on New Technology and product inviting all stake holders from Government, Architectures, PWD, CPWD, Designers, manufacturers etc.



Exhibitions

Exhibitions - Light India bi-annually inviting B2B from India and abroad. Besides Regional exhibitions are held on regular basis.



Workshops

Workshops are organized for standards, Government polices etc.



Technical Training

Knowledge sharing training programs are held for Front-end and Back-end staff on product knowledge, installation, maintenance and monitoring



Magazine

Publishes Magazine IllumiNation quarterly



Reports

Reports on specific technology in support with global organizations

White Paper on LED General Lighting and Blue light

International SSL Alliance (ISA)
China Solid State Lighting Alliance (CSA)
China Illuminating Engineering Society (CIES)

July, 2013



Position Statement on Germicidal UV-C Irradiation

UV-C SAFETY GUIDELINES

May 2020

© Global Lighting Association 2020



India's street lights form a crucial component of the nation's investment on lighting and road safety. Launched in 2015, EESL's Street Light National Programme (SNLP) has been instrumental in replacing over 1.08 crore LED street lights across India, leading to energy saving of 7.28 billion kWh per year with avoided peak demand of 1,213 MW and estimated GHG emission reduction of 5 million t CO2 per year

Energy Efficiency Services Limited

International Relationships

ELCOMA has built good relationships with international organizations



Invites Delegates to Visit India

Invites Delegates from abroad to visit India on several occasion



Awareness Programs

ELCOMA brings Awareness on Product Quality

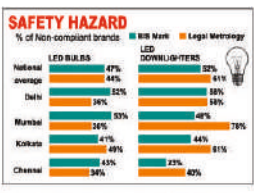


The continued availability of non-BIS compliant products, despite the government's efforts to enforce the Ministry of Electronics and Information Technology (MeitY) and Bureau of Indian Standards (BIS) has detected the non-compliance of LED products.

At the request of the Ministry of Electronics and Information Technology (MeitY) and Bureau of Indian Standards (BIS), the Government of India has issued a notification regarding the enforcement of the BIS Act of 2016, which mandates the registration of electronic goods, under which a trader is mandated to register the goods he sells with BIS logos. During raids at Laxmi Industrial Estate at Palikarai on Tuesday, officials found that manufacturers had allegedly misused BIS logo and BIS Compulsory Registration Mark on LED fluorescent lamps, street lights and flood lights. "Though we have seized steel, gold, water pipes and electric cables for violating BIS Act of 2016 earlier, this is the first time we came across electrical goods in such a large number," a BIS official said. Those who wish to report such cases can contact BIS office at 044-27541220 or can send an e-mail to soibis@bis.org.in.

50 PER CENT LEDs SOLD IN MARKET ARE UNSAFE AND NON-COMPLIANT

There has been a lot of discussion in the industry about LED lighting products. A survey conducted by BIS in 2016 found that 50 per cent of LED products sold in the market are unsafe and non-compliant. The survey also found that 40 per cent of LED products sold in the market are non-compliant with BIS standards. The survey was conducted by BIS in 2016. The survey found that 50 per cent of LED products sold in the market are unsafe and non-compliant. The survey also found that 40 per cent of LED products sold in the market are non-compliant with BIS standards. The survey was conducted by BIS in 2016.



Electrical goods with fake logo seized
Chennai: For the first time in Chennai, Bureau of Indian Standards (BIS) has seized nearly 1,000 electrical goods which had fake BIS logos on them. Officials said this is the first incident in Chennai after the Centre passed the Compulsory Registration Scheme for electronic goods, under which a trader is mandated to register the goods he sells with BIS logos. During raids at Laxmi Industrial Estate at Palikarai on Tuesday, officials found that manufacturers had allegedly misused BIS logo and BIS Compulsory Registration Mark on LED fluorescent lamps, street lights and flood lights. "Though we have seized steel, gold, water pipes and electric cables for violating BIS Act of 2016 earlier, this is the first time we came across electrical goods in such a large number," a BIS official said. Those who wish to report such cases can contact BIS office at 044-27541220 or can send an e-mail to soibis@bis.org.in.

Lighting company in trouble for BIS violation
Tamil Nadu: A lighting company has been found to be in violation of the BIS Act of 2016. The company, which is based in Chennai, has been found to be selling LED products without the required BIS logo. The company has been fined for this violation. The BIS official said that the company has been found to be selling LED products without the required BIS logo. The company has been fined for this violation.

BIS raids fake LED bulb-making firm
Kochi: Public School at Thiruvananthapuram has been found to be manufacturing fake LED bulbs. The BIS officials have raided the school and found that they were manufacturing fake LED bulbs. The school has been fined for this violation. The BIS official said that the school has been found to be manufacturing fake LED bulbs. The school has been fined for this violation.

Defines future of Lighting by preparing Vision plans.



VISION 2020

- The ELCOMA vision launched to replace 770 million incandescent lamps in next 4 years.
- To replace 30 million LED Streetlights
- To install 50 million Downlights
- To save
 - 75,000 MW power
 - Bring down power consumption in Lighting from 18% to 13%



ELCOMA VISION 2024
Vision Document
TO MAKE INDIA LIGHTING INDUSTRY AS THE CENTRAL HUB FOR MANUFACTURING AND EXPORT FOR THE WORLD!

VISION 2030

SELF RELIANCE

To create a self-reliant Lighting Industry by 2030 with local for local manufacturing of electronics components based on electronics and semiconductor PLI initiatives from Government

INNOVATE

Create a Global Centre of Excellence focusing on research and innovations on futuristic technologies

EXPORT PROMOTION

With adequate support of the government, make India as an export hub for Lighting products and capture at least 10% of Global Lighting market by 2030

GROWTH

Achieve Industry growth of CAGR 10% by 2030 based on government initiatives to increase per capita public light points



CEMA ELECTRIC LIGHTING PRODUCTS INDIA PRIVATE LIMITED

Door No 21/148A, Crescent Bldg Njalakamkara, CUSAT P.O. Kalamassery. Cochin 22
#251, Ground Floor 2nd D Cross Road, Domlur 2nd Stage Bangalore 560071

Tel: 9895760790, 080 25356323, 080 25357911

E-mail: nandakumar@cemalighting.com, ramesh@cemalighting.com

Website : www.cemalighting.com

COMPANY PROFILE:

ESTABLISHED:

1. Business Domain	Lighting
2. Product Brand	CEMA
3. Manufacturing Facilities	Factory at Limbasi, Gujrat
4. Other Products Traded	LED Lamps, LED Luminaries
5. Details of Exports (Products/countries/value etc.)	NIL
6. Directors and their contact details (phone, e-mail, location etc)	<ol style="list-style-type: none"> 1. Mr. Nandakumar C, 9895759269 nandakumar@cemalighting.com Cochin 2. Mr. K N Devdas, 9825600659 kn.devdas@cemalighting.com Nadiad, Gujarat 3. Mr. K N Jagadish, 9895759268 Jagadish@cemalighting.com Cochin
7. Contact Persons for a. Business Development b. Exports c. Production (With names, designation & Addresses)	<ol style="list-style-type: none"> a. Mr. Nandakumar C, Mob: +91 9895759269 nandakumar@cemalighting.com b. Mr. Ramesh N Chandra, Mob: +91 9845019153 ramesh@cemalighting.com c. Mr. K N Devdas, Mob: +91 9825600659 kn.devdas@cemalighting.com
8. E-mail	nandakumar@cemalighting.com

COMPANY PROFILE:

FULHAM is a global manufacturer of High performing LED drivers, LED Light Engines, Emergency Lighting Solutions, and specialized solutions for vertical markets such as signage, refrigeration, horticulture, and UV lighting applications. It has been a prominent player in field lighting electronic control gears for nearly two decades, with operations spanning North America, China, India, Dubai, Africa, Turkey, Europe, Hong- Kong and Latin America. Fulham has state-of-the-art factory at Pune for manufacturing a range of LED Drivers, LED Modules and other Products.

ESTABLISHED: 2011

1. Business Domain	Manufacturing
2. Product Brand	Fulham
3. Manufacturing Facilities	Pune
4. Products Manufactured	LED Drivers, LED Modules, Emergency Lighting systems and UV Ballasts
5. Details of Exports (Products/countries/value etc.)	LED Drivers, LED Modules, Emergency lighting systems to USA, Middle East & Europe
6. No. of employees	270
7. Directors and their contact details (phone, e-mail, location etc)	1. Mr. Gautam Malkani, (Managing Director) Email: gmalkani@fulham.com 2. Mr. Subrata Ghose, (Executive Director) Email: sghose@fulham.com
8. Contact Persons for a. Business Development b. Exports c. Production (With names, designation & Addresses)	Mr. Upender Singh (Sr. General Manager - Sales & Marketing) Email: usingh@fulham.com
9. Regional Offices – Contact person / address	Pune Mr. Sachin Khondapure, Cell No.: 9168626419 Mumbai Mr. Vigneshkumar, Cell No.: 9513333196 Gujarat Mr. Pranav Joshi, Cell No.: 9904550233 North Mr. Sanjeev Saini, Cell No.: 9694999565 South Mr. Ravikumar, Cell No.: 9972411611
10. E-mail	sgaikwad@fulham.com

COMPANY PROFILE:
ESTABLISHED:

1. Business Domain	www.compactlighting.net
2. Product Brand	COMPACT
3. Manufacturing Facilities	Fully Automated with SMT,MI, Extrusion, Fabrication and Paint Shop
4. Products Manufactured	LED Bulbs, Battens, Panels, Street Lights, Flood Lights, Downlights , Track Lights, Other Lighting products
5. Other Products Traded	Fans, Appliances
6. Details of Exports (Products/countries/value etc.)	NIL
7. No. of employees	200+
8. Directors and their contact details (phone, e-mail, location etc)	<p>1. Chandni Trehan Sikand 9810705505 chandni@compactlighting.net</p> <p>2. Surinder Trehan 9350582299 surinder@compactlighting.net</p> <p>3. Sahil Trehan 9810535250, sahil@compactlighting.in</p>
9. Contact Persons for a. Business Development b. Exports c. Production (With names, designation & Addresses)	a. Chandni Sikand-Business Partner chandni@compactlighting.net B-84, Sector 80 Noida 201305 U.P.
10. E-mail	chandni@compactlighting.net

“The key to Smart Living” Sustainable ecosystem for digital transformation



“We are driving sustainability with efficient solutions and high-tech portfolio that creates comfortable and delightful spaces.”

NITIN SAXENA
Director-Asia South (DI DS)

OSRAM DIGITAL SYSTEMS delivers technology for successful LED projects - from components to complete systems and from individual solutions to large-scale installations.

With the upcoming transformation towards digital lighting and IoT, OSRAM DS is a sound & reliable partner, developing and delivering communication modules, smart control gear, sensors, and cloud solutions. We enable technologically advanced lighting solutions that can be remotely monitored and managed, thereby reducing the need for and cost of on-site visits. With greater control over when and where smart city lighting is used, cities can tailor illumination to the needs of citizens.

Our systems and solutions are in alignment with the key government initiatives towards driving sustainability via digitalization, such as Digital India, Smart Cities Mission etc. This is enabled by our components that are durable, versatile, future-proof and above all energy & cost efficient.

INDIVIDUAL SOLUTIONS FROM DIGITAL SYSTEMS



Tunable White
Experience the light you need - whether in office, or at home



LENEARLight and OPTOTRONIC
Fully featured LED systems for a lasting unique lighting design



Hubsense
Wireless systems components that minimize the installation time & costs



Flexible LED Strips
Brilliant light installations for buildings, facades etc.



Smart-Street Lighting
Solutions that are easy to tailor, update and develop



Horticulture Lighting
Innovative technology to shape the future of agriculture



Industrial Lighting
Flexible toolkit for all modern & smart industrial lighting projects



Signage Systems
Impressive solutions for signage and advertising



ICUTRONIC
Stands for intelligent reduction to the essentials of highest quality



DEXAL
A foundation for digital ceiling for a close-meshed, radio-based network



DALI PRO 2 IoT
The innovative LMS control technology for the IoT age



BT Control
Highly flexible lighting control with application control via Bluetooth



Tuner4TRONIC
Digital end2end solution for development production and maintenance



Light Management Systems
To control light intelligently and precisely

With a product quality wellknown anywhere in the world, OSRAM DIGITAL SYSTEMS ensures that our customers can enjoy their lighting systems for many years to come, while also saving energy and electricity costs. We develop technologies that put the wellbeing of people first and lets your project shine in the best light for many years.

Contact us at

Website: www.osram.com/ds; Phone: +91 124 6261300; Toll Free No.: +91-1800 4190 426
Email: info-india@osram.com ; support-ds@osram.com

Light is OSRAM

Why offices need new lighting solutions now!

From individual rooms to open-plan offices to entire office buildings, OSRAM Digital Systems provides office lighting solutions that are more focused on energy savings than ever before.

Good work needs good light. On the other hand, offices in particular often consume unnecessarily large amounts of electricity – and money – for lighting. That's why office solutions from OSRAM DS are developed specifically with energy efficiency in mind. Our energy-optimized components and sensor-based systems enable daylight harvesting and dimming and help offices worldwide to save power and still work with maximum efficiency.



This already starts with the individual components. For example, on our new PrevaLED Linear OP and Basic Linear OP LED modules, the individual LEDs are equipped with optics, ensuring homogeneous light distribution along with cost/performance-optimized LED luminaire. Ceiling luminaires can thus be built even slimmer and more elegant.

Innovative OSRAM DS solutions for office lighting solutions

OPTOTRONIC Wireless intelligent (OT Wi) driver is perfectly suited for wireless solutions. Thanks to its slim form factor, this driver can be perfectly installed, for example, into 60 x 60 recessed ceiling luminaires.

Tuner4TRONIC - With this powerful and versatile software and near-field communication (NFC), luminaire manufacturers can save a lot of time, money and material during production.

DALI PRO 2 IoT enables controlling the lighting technology of entire floors and even complete buildings. With its Dashboard, this high-performance light management system enables its users to continuously track the energy consumption of the lighting system.

DALI PCU G2 now has a DALI-2-certified interface and can control and dim both regular and Tunable White LED drivers.



DALI PCU G2

OT Wi

IT DALI CS

DALI PRO 2 IoT

With a product quality well-known anywhere in the world, OSRAM DS ensures that your customers can enjoy their lighting systems for many years to come, while also saving energy and electricity costs. In the end, everyone benefits from our products' quality – and so does the environment!

Contact us at

Email: dl-sgmy-osramds@osram.com
expert-contact@osram.com

Websites: https://www.osram.de/ds/experts/nicolai-heber/Office_Solutions.jsp?

Light is OSRAM

OSRAM



SAHASRA SEMICONDUCTORS PVT. LTD.

Sahasra Semiconductors Pvt Ltd Plot No 33, Pocket 1,
Jasola, New Delhi – 110 025

Tel: 91-120-2462782/783, 2563719, E-mail: contact@sahasrasemi.com

COMPANY PROFILE:

Incorporated on 15th July 2020, Sahasra Semiconductors (SSPL) has made significant progress in the past two years in terms of securing deliveries of critical equipment needed for semiconductors packaging. It shall continue with the first of kind offering of commercial production of memory packaging for the Indian and Global markets by Q1 2023. With initial focus on cob and micro SD cards, SSPL will quickly move on to packaging of internal memory products such as emmc, BGAs, etc that are widely used in laptops, servers, desktop, tablets, mobile phones, drones, industrial electronics, automotive electronics, IOT and several other applications.

ESTABLISHED: 15th JULY 2020

1. Business Domain	Assembly, Packaging and Testing of ICs
2. Product Brand	Sahasra
3. Manufacturing Facilities	ELCINA EMC, Bhiwadi, Rajasthan
4. Products Manufactured	MicroSD, USB, eMMC, eMCP, BGA, LED Driver Chip
5. No. of employees	10
6. Directors and their contact details (phone, e-mail, location etc)	1. Mr. Amrit Lal Manwani - CMD 2. Mr. Varun Manwani - Director
7. Contact Persons for a. Business Development b. Exports c. Production (With names, designation & Addresses)	a. Mr. Shiv Kumar, CTO, Bhiwadi b. Mr. Varun Manwani - Director / Mr. Shiv Kumar, CTO, Bhiwadi c. Mr. Paul lianghovan, GM, Bhiwadi
8. Any other information	Plant will be ready by the end Dec 2022
9. E-mail	contact@sahasrasemi.com

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*For subscription and query, please contact Deepak Kumar at
deepakkumar@elcomaindia.com &
Mr. Amal sengupta at amalsengupta@elcomaindia.com*

Electric Lamp and Component Manufacturer's Association of India (ELCOMA)
122, 1st Floor, DLF Tower-A, Jasola District Centre,
Jasola Vihar, New Delhi -110025
Tel : +91-11-41556644/46604947
Email : deepakkumar@elcomaindia.com

COMPANY PROFILE:

We are an ISO 9001:2015 quality certified company engaged in the design and manufacturing of LED lights. We offer a wide range of modern, aesthetically designed, and energy-efficient LED lights for external and internal applications. We are proud to be a part of the international effort to deliver lighting solutions that saves energy and protects the environment.

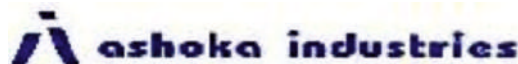
Our parent company, APEX Luminaries Pvt. Ltd. has a state-of-the-art manufacturing facility in Malur industrial area, Karnataka which enables us to monitor all critical parameters of LED lights. We have been the OEM manufacturers for the top led lighting companies in India - **Crompton, Havells, Halonix, Bajaj, Wipro, Syska, Surya** etc.

Akarui is able to deliver lighting files for every type of LED light that we design and manufacture. The lighting files help customers and architects to plan the placement of lights for the best results. Our lights undergo rigorous testing for extreme temperature and humidity conditions to ensure reliability in all operating conditions. Our product philosophy is to ensure that Akarui lights withstand extreme power supply conditions of overvoltage and surges.

Our product range of LED lights covers most of the outdoor and indoor applications in everyday life. Akarui lights are aesthetic, safe, energy-efficient, non-toxic, and environmentally friendly.

ESTABLISHED: 2015

1. Business Domain	LED Lighting
2. Product Brand	AKARUI LED LIGHTING
3. Manufacturing Facilities	Yes
4. Products Manufactured	Indoor, Outdoor & Industrial LED Lights
5. Annual Lighting Turnover (Approx)	12 Cr
6. No. of employees	20
7. Directors and their contact details (phone, e-mail, location etc)	1. Ajay Gupta Ajaygupta@akarui.org 2. Chaitra Gupta chaitragupta@akarui.org
8. Contact Persons for a. Business Development b. Exports c. Production (With names, designation & Addresses)	a. Ajay Gupta - Director +91 9663366901 b. Saroj Kant Nanda – VP Marketing and operations +91 98401 82948
9. Regional Offices – Contact person / address	Ajay Gupta +91 9663366901
10. E-mail	ajaygupta@akarui.org

ASHOKA INDUSTRIES

D-130,131 sector-7 noida uttar pradesh india
E-mail:info@ashokaallied.com
COMPANY PROFILE:
ESTABLISHED: 1980

1. Business Domain	Manufacturing of : 1) Sheet Metal Components, 2) Plastic Injection Molding Components 3) Wires , Cables & Harness
2. Manufacturing Facilities	NOIDA
3. Products Manufactured	Components for LED & Home Lighting, Home Appliances, Automobiles
4. Details of Exports (Products/countries/value etc.)	US & European Markets
5. No. of employees	100-125 approx
6. Directors and their contact details (phone, e-mail, location etc)	1. Mr Atul Mittal 2. Mr Anshul Mittal 3.Mr Ankur Mittal
7. Contact Persons for a. Business Development b. Exports c. Production (With names, designation & Addresses)	Mr Anshul Mittal Mr Ankur Mittal +919810044189 +919910044189
8. E-mail	info@ashokaallied.com , ashoka.industries@hotmail.com



CHENFENG TECH PVT LTD

Plot No-21, Ecotech-1, Extension-1, Greater Noida,
Gb Nagar, U.p-201310

TEL: 9773898192, E-mail: chenfengindia@cnlampholder.com

COMPANY PROFILE:

We are the Indian Subsidiary of the World renowned lighting components manufacturer **Zhejiang Chenfeng Technology Co., Ltd, China.**

Zhejiang Chenfeng, China founded in 2001 grown exponentially into the 5 subsidiaries and one of the biggest supplier of all kinds of Lighting Components throughout the world.

In India, we had an establishment in Dec' 2019 in Greater Noida, Uttar Pradesh and catering the needs of all our customers since then.

We have started with LED Bulb Housing series with different models and patented designs that makes our products far superior and efficient in terms of performance and quality than our competitors.

We are having good capacity of production and continuously increasing it to meet the demand of major giants of lighting industry such as **Philips, Osram, Dixon, Orient, Surya, Bajaj etc**

ESTABLISHED: 2019

1. Business Domain	LED Lighting Components and Kits
2. Product Brand	CHENFENG
3. Manufacturing Facilities	03 in Greater Noida
4. Products Manufactured	LED Bulb Housing, Diffusers, Heat Sinks, MCPCBs etc
5. Annual Lighting Turnover (Approx)	INR 102 Cr (FY 2021-22)
6. No. of employees	320
7. Directors and their contact details (phone, e-mail, location etc)	1. Ms Wei Xinjuan 2. Mr Kirty Dunganwal
8. Contact Persons for a. Business Development b. Exports c. Production (With names, designation & Addresses)	a. Nitin Gupta, Asst. Sales Manager b. -NA- c. James Huang, GM
9. Regional Offices–Contact person / address	Plot No-21, Ecotech-1, Extension-1, Greater Noida, Gb Nagar, U.P-201310 Mr James Huang, GM
10. Any other information	Chenfeng has total 147 patents, including 17 invention patents, 112 utility model patents and 18 design patents
11. E-mail	chenfengindia@cnlampholder.com in_sales@cnlampholder.com



CENTURY LED LIMITED

Srijan Industrial Logistic Park, Block A, 1st Floor, NH-6, Bombay Road, Ankurhati, Domjur, Howrah, Pin- 711302, West Bengal, India
Tel: 1800 345 1345, E-mail: customercare@magiklights.com

COMPANY PROFILE:

Century LED Limited is one of the very few companies to enter the lighting sector with its own state of art manufacturing unit. It has always strived to understand the need of the customers and offer solution that are best in class and consumer friendly.

ESTABLISHED:

1. Business Domain	LED LIGHTING
2. Product Brand	MAGIK
3. Manufacturing Facilities	<p>Century Led Limited having its own state-of-art manufacturing unit at howrah, is one of the top manufacturing companies in West Bengal. It is a 60,000 sq. Ft. fully owned manufacturing unit and 20,000 sq. Ft. warehouse leased facility.</p> <p>Key highlights of the manufacturing facility:</p> <ul style="list-style-type: none"> • NABL Certified testing facility • Strong In-House R&D, design, testing, manufacturing and delivery units. • A capacity of over 20lacs units per month (with respect to 9W bulb) • Quality commitment and ethical value.
4. Products Manufactured	<p>Century LED Limited provides a complete LED Luminaire range combining quality and aesthetics. We do provide solution for both outdoor as well as indoor lights.</p> <p>Key Products mentioned below:</p> <ul style="list-style-type: none"> • LED Lamps • COB Downlights, Spotlights, Track Lights & Zoom Lights • LED Battens • LED Floodlights • LED Panels & Downlights • LED Streetlights • LED Bollards & Post Tops • LED Strip Lights
5. Other Products Traded	Only around 10% of our existing products are traded, few selected models in some product categories.
6. Details of Exports (Products/countries/value etc.)	<p>Century LED Limited has exported the below mentioned products to Oman till October, 2022</p> <ul style="list-style-type: none"> • LED Batten • LED Lamp • LED Panel • LED Downlights • LED Strip lights • Highbay • Led Flood Lights
7. No. of employees	180(ON-PAYROLL)
8. Directors and their contact details (phone, e-mail, location etc)	<p>Mr. Gopal Singh (9051310333) E-mail: gopal.singh@centuryled.in</p>
9. Contact Persons for a. Business Development b. Exports c. Production (With names, designation & Addresses)	<p>a. Mr. Jay Prakash Mohanty (9930955390), Designation-Senior Vice President & SBU Head-Lighting, E-mail: jp.mohanty@centuryled.in</p> <p>b. Same as above</p> <p>c. Mr. Tushar Maity (9073677559), Designation: Factory Head E-mail: tushar.maity@centuryled.in</p>
10. Regional Offices – Contact person / address	Kolkata (Head Office)-P-15/1, Taratala Rd, CP Colony Century House 3rd Floor, Taratala, Kolkata, West Bengal 700088, Mr. Amitava Majumder (9830990154)
11. E-mail	customercare@magiklights.com

COMPANY PROFILE:

ESTABLISHED: 2021

1. Business Domain	Power Electronics
2. Product Brand	Uniglobus
3. Manufacturing Facilities	Gujarat
4. Products Manufactured	LED Drivers, LED Modules, BLDC controllers, EV Chargers, Specialist Luminaries
5. Other Products Traded	Luminaries
6. Annual Lighting Turnover	12 cr
7. No. of employees	50
8. Directors and their contact details (phone, e-mail, location etc)	1. Anil Shipley, Mumbai 2. BS Praveen, Halol, Gujarat 3. Rishikesh Rajurkar, Halol, Gujarat
9. Contact Persons for a. Business Development b. Exports c. Production (With names, designation & Addresses)	a. Mr. Aniket Pathak b. Mr. Aniket Pathak c. Mr. Amit Tyagi
10. Any other information	A Polycab Group Company, started in 2021 to focus mainly on power Electronics R&D and manufacturing, with initial focus on Lighting Electronics, later expanding into more of core electronics. Our motto is to help India reduce dependency on imported electronics by way of focusing on local products which are largely imported into the country, due to lack of sufficient local competence.
11. E-mail	Aniket.pathak@polycab.com



DEWCON INDUSTRIES

Village Kirpalpur, Tehsil Nalagarh, Near Hindustan Unilever Ltd.,

Distt. solan, himachal Pradesh -174101

Tel: 9816098261, Email: m.kohli@rrl.net.in

COMPANY PROFILE:

Dewcon Industries is considered as one of the leading High-Level Assembler of Lighting, Fans and Appliances with products specially LED, BLDC Fans and electronic controllers, having installed state-of-the-art technology machines and equipment for assembly and testing of all the products.

The motto of Dewcon is to give the complete solution to our esteemed customers. For this, we have set up different units for Injection molding, sheet metal fabrication and assembly of all electronic parts.

ESTABLISHED: 2003

1. Business Domain	www.dewcon.in
2. Product Brand	DEWCON
3. Manufacturing Facilities	Nalagarh, Himachal Pradesh
4. Products Manufactured	LED Bulbs, LED Battens, Decorative Lighting, Plastic components, Electronic Components, BLDC Controllers, BLDC Fans, Conduit Pipes (extrusion)
5. Other Products Traded	Fancy Lighting and Rope Lighting
5. Annual Lighting Turnover (Approx)	100 Cr.
7. No. of employees	120 nos.
8. Directors and their contact details (phone, e-mail, location etc)	1. R.K. Dewan (Partner) -- rkdeewan@rrl.net.in M-9779700812 2. Ishaan Dewan (partner) – ishaan@rrl.net.in M-9878238230
9. Contact Persons for a. Business Development b. Exports c. Production (With names, designation & Addresses)	a. Mukesh Kohli (CEO) m.kohli@rrl.net.in M-9816098261
11. E-mail	m.kohli@rrl.net.in



INDO JAPAN HOROLOGICALS PVT LTD.

Indo Japan House J-1/12 Block Ep Salt Lake Sector V
Kolkata 700091, Tel: 033-40687043, E-mail: Info@indojapan.in

COMPANY PROFILE:

ESTABLISHED: 1994

1. Business Domain	Manufacturing of LED (Semi Conductor)
2. Product Brand	INDO JAPAN LED
3. Manufacturing Facilities	SALT LAKE SECTOR V, KOLKATA
4. Products Manufactured	2835, 3030 LED, COD LED in different wattage, colour, CCT etc & UVC LED
5. Other Products Traded	NA
6. Details of Exports (Products/countries/value etc.)	Brazil - 2835 SMD LED Turkey - 2835 SMD LED Singapore & China - UVC LED
7. No. of employees	40
8. Directors and their contact details (phone, e-mail, location etc)	1. JAYA BOTHRA
9. Contact Persons for a. Business Development b. Exports c. Production (With names, designation & Addresses)	a, b & c MAYUR BOTHRA CEO Email: m.bothra@indojapan.in Address: Indo Japan House J 1/12 Block EP Salt Lake Sector V kol-91
10. Regional Offices – Contact person / address	ANKITA BOTHRA, Email: a.bothra@indojapan.in
11. E-mail	m.bothra@indojapan.in , a.bothra@indojapan.in



PROMPT SERVICES

Plot No. L-141, MIDC Area, Ahmednagar – 414 111, Maharashtra, India,
TEL: 9552002173, E-mail: marketing@eetamax.com

COMPANY PROFILE:

ESTABLISHED: 1990

1. Business Domain	Industrial LED Lighting
2. Product Brand	Eetamax
3. Manufacturing Facilities	Factory and Design Lab at Ahmednagar, Maharashtra
4. Products Manufactured	High Bays, Flood Lights, Street Lights, Office Lights, Clean Room Lights, Inspection Lights etc.
5. Other Products Traded	Batten, Down Lights etc.
6. Details of Exports (Products/countries/value etc.)	N.A.
7. Annual Lighting Turnover	10 Cr.
8. No. of employees	25
9. Directors and their contact details (phone, e-mail, location etc)	Mr. Dilip Joshi, Sole Proprietor, Mob - +91 9850895772 L-141, MIDC, Ahmednagar 414111, Maharashtra, India
10. Contact Persons for a. Business Development b. Exports c. Production (With names, designation & Addresses)	a. Mr. Mihir Joshi (mihir.joshi@eetamax.com) b. Mr. Mihir Joshi (mihir.joshi@eetamax.com) c. Mr. Dilip Joshi (ceo@eetamax.com)
11. Regional Offices – Contact person / address	NA
12. E-mail	marketing@eetamax.com

COMPANY PROFILE: <https://prezi.com/view/pXFiUtckQKIB4YphFxD/>
ESTABLISHED: 2017

1. Business Domain	Manufacturing
2. Product Brand	JAP
3. Products Manufactured	High Wattage LED Drivers & Surge Protection Devices
4. Details of Exports (Products/countries/value etc.)	Smart SPD, Israel, Central America
5. Annual Lighting Turnover	5 Cr.
6. No. of employees	20
7. Directors and their contact details (phone, e-mail, location etc)	Dr Deepa Agarwal 9910318601, deepak@justaboutpower.com
8. Contact Persons for a. Business Development b. Exports c. Production (With names, designation & Addresses)	a. Dr Deepa Agarwal b. Dr Deepa Agarwal c. Gagan Deep Garg 9958204111 9910318601 9915512525
9. Regional Offices – Contact person / address	Works: 178, First Floor, Patparganj Industrial Area, Delhi 110092 Regd Office: Plot No. 34, Bhagwan Nagar, Ashram, PO, Jangpura, New Delhi 110014
10. E-mail	info@JustAboutPower.com

MERCURY LAMPS PVT. LTD.

64, Laxman Jhoola Road, rishikesh-249201 (UTTARAKHAND)

Tel:0135-2430168 & 2432168, E-mail: mlprishikesh@gmail.com; mercurylampspvtltd@gmail.com

COMPANY PROFILE:
ESTABLISHED:

1. Business Domain	All India
2. Product Brand	N.A.
3. Manufacturing Facilities	Fully automatic Plant
4. Products Manufactured	GLS Lamps ranging 25W to 200W
5. Other Products Traded	N.A.
6. Details of Exports (Products/countries/value etc.)	N.A.
7. Annual Lighting Turnover	Rs. 20Crores (approx.)
8. No. of employees	40 Nos.
9. Directors and their contact details (phone, e-mail, location etc)	1. Sri V.K. Agarwal, Director 2. Smt. Shobha Rani Agarwal, Director
10. Contact Persons for a. Business Development b. Exports c. Production (With names, designation & Addresses)	a. Mr. S.K. Bansal, Director b. -do- c. -do- 64, Laxman Jhoola Road, RISHIKESH-249201.
11. Regional Offices – Contact person / address	NA
12. Any other information	N.A.
13. E-mail	mlprishikesh@gmail.com, mercurylampspvtltd@gmail.com

COMPANY PROFILE:

KWW ELECTRICALS, one of the fastest growing companies of in the Indian electrical sector, believes in value creation that ultimately enhances quality of life through its contribution towards society. The Group never believed in mindless expansion of business only for the sake of business. Rather, the Group's expertise in product development, manufacturing capability and marketing skills- all added up to the launch of LED Lighting Products, Electric Fans, and Home Appliances with the brand name KWW ELECTRICALS, which bear the Group's commitment to excellence. With cost- saving, energy-efficient and eco-friendly range of products, KWW ELECTRICALS, is all committed to the customer's satisfaction.

KWW ELECTRICALS & ELECTRONICS PVT. LTD., is a leading Electronics Manufacturing Service (EMS) provider in India with its manufacturing facilities situated in Howrah, West Bengal. This facility consists of "State of the art" Production Equipment's (e.g. Auto Insertion, SMT, Flow Soldering etc) & Testing Equipment's (e.g. Spectro radiometer with Integrated Sphere). The company is committed to manufacturing and assembling of a comprehensive range of consumer electronic products such as Electronic ballast, Electromagnetic ballast, LED Lighting Products, HID Timer, Audio Products, Washing Machine Indicator P.C.B. and Motherboard, Energy Meter P.C.B. Power Supply.

The company has distinguished itself through its remarkable service to its customers from various industries. We have been long associated with extremely quality conscious companies like Philips and V-Guard for more than two decades. We aspire to continue doing so by offering a broad spectrum of products and solutions that are entirely driven by a robust and efficient quality management processes. After more than two decades of experience in the field, the company aims to strengthen its network by investing on the R&D facility so as to manufacture newer products and meet the ever growing needs of the industry.

To harness technology and provide world class products, we have a specialized unit set up at our factory. With sheer dedication to maintain consistency in quality and adhere to strict ethos, the company aims to carve a niche in the sector of Electronics Manufacturing Services.

It guarantees that all products manufactured by the company are reliable and in all means the best in terms of technology and innovation. We have introduced the entire range of LED Lighting Electric Fans and Home Appliances in the market to cater both Domestic as well as Institutional segments.

We are indeed happy to inform that we are ISO 9001:2015 approved & have received BIS certification for LED Bulbs, LED Tube lights, LED Drivers, LED Street Lights & LED Flood Lights which portrays our commitment towards quality products. We have also received ROHS & UL Certification, Bhutan Standards Bureau Certification, LM-79 Certification for LED Flood Lights and LED Street Lights.

ESTABLISHED:

1. Business Domain	LED Lighting Products, Electric Fans and Home Appliances		
2. Product Brand	KWW Electricals		
3. Manufacturing Facilities	Jalan Industrial Complex, Gate No-3, Argori, P.O.-Andul Mouri, Howrah. W.B-711302		
4. Products Manufactured	LED Lighting Products	5. Other Products	Electric Fans, Home Appliances
6. Annual Lighting Turnover	20 cr.	7. No. of employees	200
8. Directors and their contact details (phone, e-mail, location etc)	1. Mr. Ajit Kumar Khaitan E : a.k.khaitan@khaitanwire.com M: 9830020429 2. Mr. Pradeep Kumar Khaitan E : p.k.khaitan@khaitanwire.com M : 9830094691		
9. Contact Persons for a. Business Development b. Exports c. Production (With names, designation & Addresses)	a. Mr. Nikunj Khaitan E : nikunj@khaitanwire.com M : 9836043430 b. Mr. Nitesh Khaitan E : n_khaitan@khaitanwire.com M : 9836843430 c. Mr. Arup Sengupta, E : a.sengupta@khaitanwire.com M : 9650300039		
10. E-mail	n_khaitan@kha itanwire.com, a.sengupta@khaitanwire.com, marketing@kwwelectricals.com		





Mithabhi Lamps Pvt. Ltd.

MITHABHI LAMPS PRIVATE LIMITED

Tatarpur Road, Prithla Indl. Area, Sector-10, Village

Prithla, Palwal-121102, Tel: 9810196206

E-mail: mithabhi@fokallamps.com

COMPANY PROFILE:

ESTABLISHED:

1. Business Domain	www.fokallamps.com											
2. Product Brand	FOKAL											
3. Products Manufactured	AUTOMATIVE BULBS											
4. Details of Exports (Products/countries/value etc.)	<table><tr><th>PRODUCT</th><th>COUNTRIES</th><th>VALUE (INR)</th></tr><tr><td>BULBS</td><td>VIETNAM</td><td>26,525</td></tr><tr><td>BULBS</td><td>HONGKONG</td><td>1,00,034</td></tr></table>			PRODUCT	COUNTRIES	VALUE (INR)	BULBS	VIETNAM	26,525	BULBS	HONGKONG	1,00,034
PRODUCT	COUNTRIES	VALUE (INR)										
BULBS	VIETNAM	26,525										
BULBS	HONGKONG	1,00,034										
5. No. of employees	145											
6. Directors and their contact details (phone, e-mail, location etc)	<div>1. SUMIT MOHAN SINHA Mob no. - 9810196206</div> <div>2. SHEELA SINHA Mob no. - 9810038824</div> <div>3. VIDYUT SINHA Mob no. - 9810048824</div> <div>4. M.K. SINHA Mob no. - 9810138824</div>											
7. Contact Persons for a. Business Development b. Exports c. Production (With names, designation & Addresses)	<div>a. SUMIT MOHAN SINHA Designation - Director Address - H.NO.570 SECTOR-14, FARIDABAD 121007</div> <div>b. SUMIT MOHAN SINHA Designation - Director Address - H.NO.570 SECTOR-14, FARIDABAD 121007</div> <div>c. VIDYUT SINHA Designation - Director Address - H.NO.497 SECTOR-14, FARIDABAD 121007</div>											
8. E-mail	mithabhi@fokallamps.com											

COMPANY PROFILE:

ESTABLISHED: 2011

1. Business Domain	www.technoelectromech.com
2. Product Brand	ODM/OEM Manufacturer of LED Lighting Products
3. Manufacturing Facilities	VADODARA, Gujarat, India
4. Products Manufactured	LED PC and Aluminum Battens, LED Bulbs, LED Backlit, LED Edgelits, 2x2 Panels, Flood Lights, Street Lights, High Bay, Emergency Products, COB downlights, DOB Bulbs
5. Other Products Traded	NA
6. Details of Exports (Products/countries/value etc.)	2x2 and 2x4 Wattage and CCT selectable Backlit Panels, 2x2 and 2x4 Wattage and CCT selectable Troffers, Streetlights, Floodlights
7. Annual Lighting Turnover	250 Cr.
8. No. of employees	1500
9. Directors and their contact details (phone, e-mail, location etc)	1. Mr. Saurabh Patel, 9898038261 2. Mr. Nisarg Patel, 8128993261 3. Mr. Tej Patel, 8128993262
10. Contact Persons for a. Business Development b. Exports c. Production (With names, designation & Addresses)	a. Mr. Tej Patel, Director, Vadodara b. Mr. Keshav Singh, Senior Engineer, Vadodara c. Mr. Nisarg Patel, Director, Vadodara
11. Regional Offices – Contact person / address	Mr. Keshav Singh / Tej Patel, Vadodara
12. Any Other Information	Unit-1: RS No. 858, Suresh timer lane opposite GSFC main gate, NH-8, Vadodara, Gujarat 391750 Unit-1: RS 328/28 Rasulabad Road, Near Jarod Chokdi, Halol - Vadodara Rd, Waghodia, Vadodara, Gujarat 391510
13. E-mail	saurabh@technoelectromech.com - Chairman Director nisarg@technoelectromech.com - Operations Director tej@technoelectromech.com - Sales Director exportsales@technoelectromech.com - info



KESSLEC SMART LIGHTING TECHNOLOGIES PRIVATE LTD.

55, Industrial Area NIT, Faridabad, Haryana-121001
Tel: 0129-4022804/8527586444, E-mail: meenuk@kesslec.com

COMPANY PROFILE:

ESTABLISHED:

1. Business Domain	Lighting Solutions and Smart Controls
2. Product Brand	KESSLEC
3. Manufacturing Facilities	Kesslec Smart Lighting Private Limited 55 Industrial Area NIT Faridabad Haryana – 121001 India.
4. Products Manufactured	LED Luminaires, Poles & Brackets and Smart Controls.
5. Details of Exports (Products/countries/value etc.)	UK
6. No. of employees	100
7. Directors and their contact details (phone, e-mail, location etc)	1. Chekitan Sawhney, Managing Director chckitan@kesslec.com
8. Contact Persons for a. Business Development b. Exports c. Production (With names, designation & Addresses)	1. Chekitan Sawhney, Managing Director chckitan@kesslec.com 2. Meenu Kakar, VP - Operations and Marketing meenuk@kesslec.com
9. Regional Offices – Contact person / address	info@kesslec.com
10. Any other information	Chckitan@keselec.com With over 60 years of experience in commercial lighting, Kesslec has been at the cutting edge of outdoor lighting solutions. At Kesslec, we innovate for the benefit of our customers and our partners. Providing stylish, economical and energy-efficient. LED lighting solutions is our goal at Kesslec. Kesslec has been synonymous with innovation, unique products, quality service and superior design throughout its history.
11. E-mail	meenuk@kesslec.com

COMPANY PROFILE:

MANUFACTURER OF PRECISION MOULDS, COMPONENTS & ASSEMBLIES WITH SPL. IN COMPLETE LED PRODUCTS & ELECTRICALS ASSEMBLIES.

ESTABLISHED: 22.12.2005

1. Business Domain	Manufacturing & Assembling
2. Product Brand	Aroson LED
3. Manufacturing Facilities	Complete setup under one roof
4. Products Manufactured	Precision Moulds, Components & Assemblies
5. Other Products Traded	Complete LED products & Electricals Assemblies
6. Details of Exports (Products/countries/value etc.)	Under planning
7. No. of employees	83
8. Directors and their contact details (phone, e-mail, location etc)	1. Mr. Amrik Singh - 9891699999 Email ID: amrik@arosonglobal.com 2. Mr. Saheb Singh – 9871892222 Email ID: saheb@arosonglobal.com 3. Mr. Tirlochan Singh – 9910398887 Email ID: ts@arosonglobal.com 4. Mr. Sunil Kumar (Mgr. H.R) – 991039881 Email ID: HRDLH@arosonglobal.com
9. Contact Persons for a. Business Development b. Exports c. Production (With names, designation & Addresses)	a. Mr. Amrik Singh (Mg. Director) b. Mr. Saheb Singh (Director)
10. Regional Offices – Contact person / address	D-37, Bahadradabad Industrial Area, Haridwar-249403 (Uttarakhand)
11. Any other information	The Company is registered, certified and approved from all required bodies
12. E-mail	info@arosonglobal.com



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LIGHTING TECHNOLOGIES INDIA PRIVATE LIMITED

No. 40, Jigani Industrial Area, I Phase, Sy. No. 592 & 124, Jigani
Village & Hobli, Anekal Taluk, Bangalore 560105 Karnataka, India
TEL: 080 66556655, E-mail: info.india@ltcompany.in

COMPANY PROFILE:

ESTABLISHED: 2013

1. Business Domain	Manufacturing of LED Luminaires
2. Product Brand	LT / Lighting Technologies
3. Manufacturing Facilities	Diecast, Fabrication, Powdercoating, SMT Line, Assembly and Driver manufacturing line
4. Products Manufactured	LED Luminaires & Drivers
5. Other Products Traded	NA
6. Details of Exports (Products/countries/value etc.)	LED Luminaires / Middle East / Approx 10Cr
7. Annual Lighting Turnover	150Cr
8. No. of employees	500 including Contract role
9. Directors and their contact details (phone, e-mail, location etc)	<ol style="list-style-type: none"> 1. Mr. Harinarayanan K V, CEO & Managing Director, hari.nkv@ltcompany.in, India 2. Mr. Gopakumar Pazhedath, Director, gkumar@ltcompany.com, Russia 3. Mr. Ninkileri Thazhillath Satish, Director, satish@ltcompany.com, Russia
10. Contact Persons for a. Business Development b. Exports c. Production (With names, designation & Addresses)	<ol style="list-style-type: none"> a. Business Development – Mr. Kalaiselvan K, Sr. GM – Product Management & Special Sales, k.selvan@ltcompany.in b. Exports – Silpi S J, Sr. Manager – Business Administration, silpi.sj@ltcompany.in c. Production – Jayakanth Ganesan, GM – Manufacturing Operations, jayakanth.g@ltcompany.in
11. Regional Offices – Contact person / address	For any queries, connect Silpi S J, silpi.sj@ltcompany.in
12. E-mail	info.india@ltcompany.in

COMPANY PROFILE:
ESTABLISHED: 2016

1. Business Domain	LED Light manufacturing & Marketing
2. Product Brand	NiFLUX
3. Manufacturing Facilities	SMT -4 Lines MI Conveyor Setup with Wave soldering -2 Lines Assembly Conveyor setup -6 Lines Aging Conveyor setup -8 Lines Packing Conveyor setup -4 Lines
4. Products Manufactured	LED Bulbs (0.5W to 50W) LED Battens (5W - 52W) LED Down Lights (3W - 20W) LED Flood Lights (10W - 400W) LED Street Lights (15W - 120W) & many more.... @ www.fluxlitenims.com , www.niflux.in
5. Other Products Traded	Fluxlite NIMS Pvt Ltd, INDIA has sister concerns in ITALY, USA, CANADA, UK & SPAIN with same Brands Niflux & sales there LED Filament bulbs, T-5/7-8 LED tubes, LED Panel Lights, CoB Down lights, LED Hi Bays, LED Street Light & LED Flood Lights.
6. No. of employees	50+ 500
7. Directors and their contact details (phone, e-mail, location etc)	1. Prof. (Dr.) Balvir S. Tomar - CMD 2. Dr. Juhi Tomar - Director
8. Contact Persons for a. Business Development b. Exports c. Production (With names, designation & Addresses)	a. Mr. Atul Bansal b. Mr. Deepak Nathiya c. Mr. Pradeep Chandraker
9. Regional Offices – Contact person / address	Mr. Deepak Nathiya Same as above factory address
10. E-mail & Contact Number	pradeep@fluxlitenims.com , 9929011611 atulbansal@gmail.com , 9829022279 deepaknathiya@gmail.com , 9929600137



ELCOMA VISION 2030



A roadmap for Indian Lighting Industry for Innovation and Education



VISION

SELF RELIANCE

To create a futuristic self-reliant Lighting Industry by 2030 with learning on Innovative Intelligent and connected LED Lighting

CREATE

A world class centre of Excellence for R&D on Digital Products and Training on new technologies

GROWTH

Achieve Industry growth of CAGR 10% by 2030 based on government initiatives to increase per capita public light points

EXPORT PROMOTION

With adequate support of the government, make India as an export hub for Lighting products and capture at least 10% of Global Lighting market by 2030

MISSION

Ensure participation of all ELCOMA members on Innovation and Learning on new technologies and government to invest heavily in Infrastructure to achieve ELCOMA's vision



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R&D/Design Centres: India (Rai-Haryana), Japan, Italy | Units: Haryana, Rajasthan, Himachal Pradesh, Tamil Nadu, Karnataka & Gujarat

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