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Electric Lamp & Component  
Manufacturers' Association of India



**Members' Directory 2016-18**



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## MESSAGE FROM THE IMMEDIATE PAST PRESIDENT, ELCOMA



I am pleased to release 6th edition of Elcoma members' Directory for the year 2016-2017. Lots of effort have been put in by the ELCOMA Secretariat for compiling the same.

LED is penetrating at Lightning speed while, all other lighting sources are getting marginalized and extinct. This phenomena is happening all over the world however, in India pace seems to be faster than most of the other developing countries as government is proactively supporting replacement by creating a public distribution of LED retrofit lamps through EESL. Biggest challenge India is facing today is to create new jobs and enhance employment. Industry is looking at manufacturing LED products in India.

Owing to better performance, existing street lights are being replaced with LEDs through ESCO model. This would not only reduce consumption but also improve longevity and improved lighting level at night.

Elcoma as usual, shall keep playing its pivotal role of bringing awareness on energy conservation by organizing various workshops, seminars to promote efficient lighting.

No publication can be successful unless it meets with the requirements of the industry.

I thank all the advertisers, contributors of articles, printer whose support has enabled us to bring out this valuable guide for all stake holders.

SUNIL SIKKA

## MESSAGE FROM THE PRESIDENT, ELCOMA



I am glad to know that Elcoma is releasing the 6th edition of Elcoma members' Directory for the year 2016-2018.

The Elcoma directory has become very useful handbook for the lighting industry, as it offers information on technology, industry data, members' profiles, government activities and international cooperation.

ELCOMA Secretariat has put in a lot of efforts in compiling all important information and data so important to this Directory.

The Lighting Industry has been growing at around 11% per annum. The future is in LED Lighting and it is estimated that by 2020 more than 80% lighting products will be in LED format.

Lighting industry in India is proactive in making all products in India and provides energy efficient products from time to time. The industry association plays a very important role in bringing in awareness on energy conservation and organizes various workshops, seminars to promote efficient lighting.

I thank all the advertisers, contributors of articles, printer whose support has enabled us to bring out this valuable guide for the stake holders.

RAKESH ZUTSHI



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President, ELCOMA



**Mr. Rakesh Zutshi**  
Vice-President, ELCOMA



**Mr. Raju Bista**  
Treasurer, ELCOMA



**Mr. Shyam Sujan**  
Secretary General, ELCOMA

## Electric Lamp & Component Manufacturers' Association of India

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President, ELCOMA



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Vice-President, ELCOMA



**Mr. Sunil Vachani**  
Treasurer, ELCOMA



**Mr. Shyam Sujan**  
Secretary General, ELCOMA

# ELCOMA MEMBERS' LIST

Sr No	Company	Tel & Mob	Fax	E-Mail	Address
1	<b>Alien Energy Pvt. Ltd.</b>	011-22372828	011 22375994	akash2316@gmail.com	A-16/6 OMSAI Complex, Site - 4, Industrial area, Sahibabad, Ghaziabad-201010, Uttar Pradesh
		011-22372828	011 22375994		
2	<b>Anchor Electricals Pvt. Ltd.</b>	022-30418710	022-30418885	rohit.patel@anchor-world.com	Steel House, "B" Wing, Plot No.24, Mahal Indl. Estate, Mahakali Caves Road, Near Paper Box, Andheri (E), Mumbai-400093, Maharashtra
		02832-320627	02832-270099	subarao.cheeday@anchor-world.com	Sr. No.234-236, (Vill) Lakhond, (PO:Kumka, Ta) Bhuj (Distt.), Kutch-370 105, Gujarat
3	<b>Arvind Press Caps Ltd</b>	01493-220213	01493 220295	apclexp@rediffmail.com	E-337, RIIICO Ind. Area,Bhiwadi (Dist.Alwari)-301019, Rajasthan
		01493-220213	01493 220295	shaleenkaushik@apclnewar.co.in	
4	<b>Atco Controls (India) Pvt. Ltd.</b>	022-22025528	022-22022304	bhavin@atcocontrols.com	38-B Nariman Bhavan, Nariman Point, Mumbai-400021, Maharashtra
5	<b>Autonix Auto Industries Pvt. Ltd.</b>	0120- 4218575/76		info@autonixonline.com	C-12&13, Phase-2, G.B. Nagar, Noida-201305, Uttar Pradesh
6	<b>Bajaj Electricals Ltd.</b>	(D)022-2406 4396	022-22828252	krishna@bajajelectricals.com	51 Mahatma Gandhi Road, Mumbai-400023, Maharashtra
		022-2406 4264	022-2406 4003	r.baraneetharan@bajajelectricals.com	701, 7th Floor, Rustumjee Aspiree, Bhanu Shankar Yagnik Marg, Off Eastern Express Highway, Sion (East), Mumbai-400022, Maharashtra
7	<b>BAG Electronics India Pvt.Ltd</b>	020-30450700	020-283610	B.Praveen@oem-systems.com	Survey No. 19, Yewalewadi, Kondhwa Road, Pune-411048, Maharashtra
				M.Joshi@oem-systems.com	
8	<b>CEMA Electric Lighting Products India Pvt. Ltd.</b>	0484-2809341	02694-283610	nandakumar@cemalighting.com	34/389-B & C, Mullassery, Padivattom Edapally, P.O., Cochin- 682024, Kerala
		011-4302 3439	011-4302 3437	ramesh@cemalighting.com	804, 8th Floor, Ansal Vikas Deep Building, Plot No. 18, Laxmi Nagar, Distt. Centre, New Delhi-110092
9	<b>Crompton Greaves Consumer Electrical Ltd</b>	0266-245245/245001	022-25787283	nikunj.kumar.mevada@crompton.co.in	Lighting Division. Village : Kural, Taluka, Padra, Distt: Baroda-391430, Gujarat
		02662-245304	0266-245003	sachin.shah@crompton.co.in, mathew.job@crompton.co.in	Lighting Division. Village: Kural, Taluka, Padra, Distt: Baroda-391430, Gujarat
10	<b>Calcom Vision Ltd.</b>	011-24331217		skmalik@calcomindia.com	B-16, Site C, Surajpur Industrial Area, Gautam Budh Nagar, Noida- 201301, UP
11	<b>Compact Lamps Pvt. Ltd.</b>	0120-475 2500	011-42430703	kapil@ultracfl.com	C-8, Sector-3, Noida-201301, Uttar Pradesh
				gurpreet.singh@compactltd.com	
12	<b>Captain Gears &amp; Fans</b>	0120-4203318/19		surinder@compactlighting.net	D-35, Sector-11 , Noida- 201301, Uttar Pradesh
13	<b>Deki Electronics</b>	0120-2584687	0120-2585289	vinod@dekielectronics.com	B-20, Sector -58 Noida-201301, UP
		0120- 2584688	0120-2585289	bali@dekielectronics.com	
14	<b>Dixon Technologies (I) Pvt. Ltd.</b>	95120-2568757	95120-2562681	sunilvachani@dixoninfo.com	B-14/15, Phase-II, Noida-201305, UP
		95120-2562819	95120-2562681	atullall@dixoninfo.com	
15	<b>Ecolite Technologies</b>	0124-4566515	0124-4566510	amit.gupta@ecolite technologies.co.in	139 N, Sector-7, Part II, IMT, Manesar, Gurgaon -122050, Haryana

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16	<b>Eveready Industries India Ltd.</b>	033-24864961	033-24864673	r.sriram@eveready.co.in	2, Rainey Park, Kolkata-700019
		033-24864961	033-24864673	partha.biswas@eveready.co.in	
17	<b>Fiem Industries Ltd.</b>	0130 2219172-76	0130 2219179	fiemunit1@fiemindustries.com	Corporate office & Unit 1, 32 milestone, GT Road, Kundli, Sonapat-131028
		0130 2219172-76	0130 2219179	gv.george@fiemindustries.com	Plot No. 1915, Rai Industrial Estate, Phase V, Sonapat-131029, Haryana (India)
18	<b>FULHAM INDIA PVT. LTD.</b>	022-66388775/76	022-66388778	gmalkani@fulham.com	343, Kaliandas Udyog Bhavan, Sadanand Tandel Marg, Prabhadevi, Mumbai 400 025, Maharashtra
		020-24690703 / 4		sgghose@fulham.com	S. No. 26/3, Village Narhe Tal - Haveli, Pune - 411041, Maharashtra
19	<b>GE Lighting</b>	080-4930 8195	080-4930 8800	harish.lalchandani@ge.com	7th Floor, Summit B, 73/1, Brigade Metropolis, Whitefield Road, Garudachar Palya, Mahadevapura Post, Bangalore-560048, Karnataka
		080-4930 8051		Gelighting.marketing@ge.com	
20	<b>Harmilap Electricals</b>	011-22392299 / 22305566	011- 42518414	harmilaproshni@gmail.com	B-1/G-2, Phase-II, Vivek Vihar, New Delhi-110095
		011-22372299	011- 42518414	harmilaproshnilimited@rediffmail.com	
21	<b>Halonix Technologies (P) Limited</b>	0120-4756103	0120-4756101	rakesh.zutshi@halonix.co.in	B -31, Phase II, Noida-201305, UP
		0120-4756107	0120-4756101	kumar.gaurav@halonix.co.in	
22	<b>Hartech Electronics</b>	0120-4352624	0120- 4352623	hs@hartechglobal.com	A-18, Hosiery Complex, Phase-II Extn. Noida -201305
		0120-4352623	0120- 4352623	amarjeet@hartechglobal.com	
23	<b>Havells India Limited</b>	0120-4771000		sunil.sikka@havells.com	QRG Towers, 2D, Sec 126, Expressway, Noida- 201304, UP
		0120-4771000		anil.bhasin@havells.com	
24	<b>Hind Lamps Ltd.</b>	05676-234862	05676-234300	cmd@bajajelectricals.com	C/o Bajaj Electricals, 51, Mahatma Gandhi Rd, Mumbai-400023, Maharashtra
		05676-234501-503	05676-234300	hindlamps@hindlamps.com	Hind Lamps Ltd, Shikohabad-205141, Uttar Pradesh
25	<b>HPL Electric &amp; Power Pvt. Ltd.</b>	011-23234411	011 23232639	gautamseth@hplindia.com	1/21, Asaf Ali Road, New Delhi-110002
26	<b>H.Q. Lamps Manufacturing Co. Pvt. Ltd.</b>	0120-4895850	01334-230728	rakesh@hqlamps.in	A-77, 2nd Floor, Sector -2, Noida-201302, UP
		0120-4895850	01334-230728	sanjivkumar@hqlamps.in	
27	<b>Eon Electric Ltd.</b>	0120-3096755/700	0120-3096800	vpmahendru@eonelectric.com	B-88, Sector 83, Noida- 201305 UP
		0120 3096755/700	0120 3096800	vinaym@eonelectric.com	
28	<b>Intelux Electronic Pvt. Ltd.</b>	020-24223734/20	020-24221258	seshagiri@inteluxindia.com	Unit No.2, Electronic Coop Estate, Pune-411009, Maharashtra
29	<b>Jaquar and Company Pvt. Ltd.</b>				
		0124-474800		mohit.sharma@jaquar.com	Plot No. 3, Sector-11, IMT Manesar, Gurgaon-122050 Haryana
30	<b>Keslec Schreder Pvt. Ltd.</b>	0129-4117 388	0129-4117 389	narayank@schreder.co.in	210 Charmwood Plaza, Eros Garden Colony Charmwood Village, Surajkund Road, Faridabad-121009 Haryana
		0129-4117 388	0129-4117 389	deepakc@schreder.co.in	



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31	<b>Kwality Photonics Pvt. Ltd.</b>	040-27123555	040-27124762	kwality@kwalityindia.com	29 Electronic Complex Kushaiguda, Hyderabad-500062
32	<b>Litex Electricals Pvt. Ltd.</b>			drack@hotmail.com	W-134 S Block, MIDC, Bhosari, Pune-411026, Maharashtra
		020-27120350	020-27120056	skarkarey@hotmail.com	
33	<b>Lighting Technologies India Pvt. Ltd.</b>	080-67303700		hari.nkv@ltcompany.com, info@ltcompany.com	No. 40, Jignani Industrial Area, 1st phase, Sy. No. 5927124, Jignani Village & hobli, Anekal Taluk, Bangalore-560105, Karnataka
34	<b>LEDVANCE Private Limited</b>	0124-4150100	0124-4081577	G.Mehra@ledvance.com	11th Floor, Signature Tower B, South City, Gurgaon-121001, Haryana
		0124-4081581	0124-4081577	B.Kasturia@ledvance.com	
35	<b>LUMILEDS India Pvt. Ltd.</b>	080 - 2543 9999	080-4180 1000	amrith.prabhu@philips.com	Philips Innovation Campus, Manyata Tech Park, Nagavara, Bangalore-560045, Karnataka
		0124-4606000		mayank.beejawat@philips.com	9th Floor, DLF 9-B, DLF Cybercity, DLF Phase-3, Gurgaon- 122002 Haryana
36	<b>Mercury Lighting Pvt. Ltd.</b>	0135-2430168	0135-2432198	mercurylamps@sancharnet.in	64, Laxman Jhula Rd., Rishikesh-249201, UK
		0135-2430168	0135-2432198	mercurylamps@sancharnet.in	
37	<b>Mithabi Lamps (P) Ltd.</b>	0129-4086497	0129-5043046	mithabi@fokallamps.com	16/4, Mathura Road, Adjoining Delhi Public School, Faridabad, Haryana 121002
		0129-4085497		info@jslampsindia.com	
38	<b>Moser Baer India Ltd.</b>	0120 4386881		rahul.agrawal@moserbaer.in	66 Udhog Vihar, Greater Noida-201308 UP
		011-40594444	011-41635211	feeroz.suhail@moserbaer.in	43B, Okhla Industrial Estate, New Delhi-110020
39	<b>Manjushree Technopack Limited</b>	080-43436200	080-27833819	ankit.kania@manjushreeindia.com	60- E&F, Bommasandra Industrial Area, Hosur Road, Bengaluru-560099
		080-43436200	080-27833819	vimal.kania@manjushreeindia.com	
40	<b>M.S. Railtech Consultants Pvt. Ltd. ( Arihand LED)</b>	020-32927245		mohit@railtech.com	Milkat No. 1440 S No. 457, Medankarwadi, Chakan, Khed, Pune-410501, Maharashtra
				santosh@arihandledlights.com	
41	<b>MLS Inida Pvt. Ltd.</b>	011-41685700	011-40729083	krishan.sujan@mlsindia.net	1021-22, DLF Tower-A, Jasola Vihar, New Delhi-110025
				ita.lin@mlsindia.net	
42	<b>Neokraft Global Pvt. Ltd.</b>	0120-4740323/329/338	0120-4740339	rajesh.jain@neokraft.in	Plot No.-137, NSEZ, Phase-II, Noida-201301 UP
		0120-4740320	0120-4740339	sanjay.jain@neokraft.in	
43	<b>Nisan Electricals (India) Pvt. Ltd.</b>	091-2717616000/2717616099		nisanelectricals@gmail.com	S.R. No. 440/1/2, New Ahmedabad Industrial Are, B/h. Nova Petrochemicals, Sarkhej-Bavla Highway, Village: Moraiya, (Changodar) Takula: Sanand, Ahmedabad-382213, Gujarat
44	<b>NTL Lemnis India Pvt. Ltd.</b>	0120-4008888	0120-4281822	arun.gupta@ntlelectronics.com	A-111, Sector - 65,, Noida, Uttar Pradesh - 201301
		0120-4008888	0120-4281822	info@ntl-lemnis.com	B-10, Sector 58, Noida- 201301 UP
45	<b>Orient Electric</b>	011-40507000	011-40507004	puneet.dhawan@orientelectric.com	CK Birla Group, 82, 2nd Floor, Okhla Phase III, New Delhi - 110020
					C-130, Sector 63, Noida-201301 UP
46	<b>OSRAM Lighting Pvt. Ltd.</b>	0124-6261300	0124-6261309	avinder.singh@osram.com	1st Floor, Plot No. 03, Sector-32, IFFCO Surinder Jhakhhar Bhawan, Gurgaon - 1210001 Haryanan

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47	<b>Philips Lighting India Limited</b>	0124-4606260	0124-4606666	lightingservices.india@philips.com	8th Floor, DLF -B, DLF Cybercity, DLF Phase-3, Gurgaon-122002, Haryana
		0124-4606260	0124-4606666		9th Floor, DLF -B, DLF Cybercity, DLF Phase-3, Gurgaon-122002, Haryana
48	<b>PG Electroplast Ltd.</b>	0120-2569841	0120-2569131	pg@pgel.in	P-4/2 to P-4/6, Site B, UPSIDC Industrial Area, Surajpur, Greater Noida -201306, UP
		0120-2569841	0120-2569131	vikas@pgel.in	
49	<b>Renown Engineering</b>	079-22871622	079-22871622	renownengg@yahoo.com	421/422 GIDC Ind.Est, ODHAV, Ahmedabad-382415, Gujarat
		079-22871622	079-22871622	renownengg@yahoo.com	
50	<b>REIZ Electrocontrols Pvt. Ltd.</b>	0124-4006161	0124-4006162	sidhartha@reizindia.com	497, Udyog Vihar, Phase-2, Gurgaon-122016, Haryana
				atul@reizindia.com	
51	<b>Rishab Industries Ltd. (Cenzer)</b>	022-61116666	022-61116633	hitesh@cenzer.com	Plot No. 54, Mapusa Industrial Estate, Mapusa, Goa-403507, Maharashtra
		022-61116666	022-61116633	sanjayshah@cenzer.com	
52	<b>Samudra Electronic System Pvt. Ltd.</b>	020-27122486	020-25675124	prafullat@samudraled.com	12, Electronic Sadan 2, MIDC, Bhosari, Pune- 411026. Maharashtra
		020-27122486	020-25675124	shirishd@samudraled.com	
53	<b>Beacon Industries (Sanarti Group)</b>	011-26385274	011-41609796	sanjeevkhosla@sanarti.com	S-158, Greater Kailash-II, New Delhi- 110048
54	<b>Surya Roshni Ltd.</b>	011-25810093 -96	011-25789560	raju@sroshni.com	Padma Tower I, Rajendra Place, New Delhi-110008
		011-25810093 -96	011-25789560	rkjaggi@mlnl.surya.in	
55	<b>Starlite Lighting Ltd.</b>	0253-2354423	0253-2350832	rb@starlitelighting.com	6, M.I.D.C., Area, Satpur, Nashik-422007 Maharashtra
		0253-2350365	0253-2350832	vshivkumar.nair@starlitelighting.com	
56	<b>Simoco Telecommunicaitons (South Asia) Ltd.</b>	033-40049900	033-23574562/ 9671	sahil.chaudhuri@simoco.net	Godrej Genesis Building, Block EP & GP, Bidhamnagar, Sec-5, Kolkata-700091
57	<b>Tulip Corporation</b>	022-26871272	022-26870644	rashmi@tulipcorporation.net	B-12, Nandkishore Industrial Estate, off Mahakali Road, Andheri (E), Mumbai-400093 Maharashtra
		022-26878033	022-26870644	paras@tulipcorporation.net	
58	<b>Techno Electromech Pvt. Ltd.</b>	91-760024876/ 76000248968		led@technoelectromech.com, admin@technoelectromech.com	Plot no. 81, B/H Keya Motors, Beside Kum Kum Party Plot, Chhani Road, Chhani Jakat Naka, Vadodara-390024 Gujarat
59	<b>Usha Shriram Enterprises Pvt. Ltd.</b>	011-25770990	011-25770995	bhs@usha.in	Block A, DDA Commercial Complex Ring Road, Naraina, New Delhi-110049
				Jaisingh@usha.in	
60	<b>Usha International Ltd.</b>	0214-4583100	0124-4583200	rohit_kumar@ushainternational.com	Plot No. 15, Institutional Area, Sector-32, Gurgaon-122001 Haryana
		0214-4583100	0124-4583200	amit_sharma4@ushainternational.com	
61	<b>Venture Lighting India Ltd.</b>	044-22623094	044-22625569	panikar@vlindia.com	Plot No-A13, A14, Phase-II, MEPZ, Tambaram, Chennai-600045 TN
				ramesh@vlindia.com	#251, 2nd D Cross, Domlur 2nd stage, Bangalore-560071 Karnataka
62	<b>Wipro Enterprises Limited</b>	080-5056200	080-8440059	vineet.agrawal@wipro.com	Survey 76P Sarjapur Rd, Varthur Hobli, Bangalore-560035 Karnataka
		0240-2351291	080-8440059	sanjay.gupta5@wipro.com	

# 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.

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.

## 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 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 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.



## The Environment Friendly Lighting Industry

From time to time, the industry has been developing more energy efficient products like fluorescent Lamps, Metal Halide Lamps, Compact Fluorescent Lamps (CFL) and Electronic Ballasts etc. Recent entry of Light Emitting Diode (LED) as a light source has been launched successfully in India. Of all these lighting sources, CFL has been very successful entry in recent times as it has not only been able to save a lot of energy, but also has become a household name for being energy efficient product.

**LED Lighting** is replicating **Compact Fluorescent Lamps** which played very important role in its growth. From 20 million pieces in 2004 it had crossed 470 million pieces per annum in 2013. It is projected that LED lighting will bring down power consumption in lighting from 18% to less than 13% by year 2020.

**Mercury Content in Lighting Products and what the industry is doing for safe disposal:** Most of the discharge lamps like CFLs, Fluorescent Lamps, Mercury Vapour Lamps, Metal Halide Lamps, etc use a small quantity of mercury. Compared to other industry like healthcare, mining, power generation etc, lamps use a very small quantity of mercury. For example, if thermometer uses 0.6 gms to 2.2 gms of mercury, a CFL uses only around 5 to 8 mg. The Mercury content in a lamp is very safe and does not harm the user. It used to be risky when the lamp used to break accidentally because mercury use in lamp was in liquid form which would evaporate into the atmosphere and spill on the ground.

With the new technology, the content of mercury has been reduced from 3- 5 mg and that too in amalgam (Solid Mercury ) form which does not evaporate on spill when it breaks.

From the table 1 below, we are providing information of actual total mercury consumed in India for various Industries

TABLE 1		
USE OF MERCURY IN INDIA MT		
Year	Total Import of Mercury into India	Consumption of Mercury by Lighting Industry
2007-08	120 MT	5.38 MT
2008-09	114 MT	6.56 MT
2009-10	312 MT	8.01 MT
2010-11	191 MT	9.74 MT

Against total import of mercury, the Lighting Industry has been consuming only 2.5% as against a volume of 500 million pieces of lamps.

Product segment-wise, the breakup of per lamp type on consumption of mercury is given in table 3 below

TABLE 2			
MERCURY CONSUMPTION - 2010- 2011			
SOURCE	Qty/ unit	Annual Production	Annual Requirement
FL	40 mg	182 million	7.28 MT
CFL	5 mg	304 million	2.13 MT
HPMV	150 mg	7.65 million	114 kgs
HPSV	25 mg	2.44 million	61 kgs
MH	25 mg	6.26 million	156 kgs
		TOTAL	9.74 MT

#### SAFE DISPOSAL OF MERCURY CONTAINING END OF LIFE LAMPS

Currently, India does not have a proper system for safe disposal of mercury containing lamps. India is a very wide spread country with different geographic terrain, cultures, environment, systems and varying atmosphere. A vast area poses complex situation on logistics and communications. Lamps are different from other Electric & Electronic products. A lamp is full of glass and is very fragile. It is light weight, very high volume of lamps put on the market every year and has hardly any residual value at End of Life (EOL). Carrying it to any source may pose a problem during transit.

On the Supply Chain side it is highly complex & wide spread Supply Chain with low traceability for sizable volumes. On the in-bound side, there are 50 Local Brands (62 Mfg. sites registered with BIS) besides equal Number of Fly by Night Brands. Local Manufacturing is wide spread – from fully integrated to part Manufacturing. Many Assemblers based on imported sub-assemblies and almost a third from Small Scale Manufacturing. There is also an import of about 20% shoddy lamps. On the Out Bound side there are about 1.4 lakhs of Electrical Retailers and about 2 lakhs non-electrical outlets.

Electric Lamp & Component Manufacturers' Association of India (ELCOMA) the apex body for Lighting Manufacturers in India has undertaken a time bound task to prepare a fool proof program to safe disposal of end of life of mercury using lamps. They had appointed (The Energy Research Institute) TERI to undertake study and submitted a viable proposal to the Ministry of Environment and Forest for Implementation

Safe disposal mechanism for CFL/FTLs comprise of proper collection and transportation, recycling/reuse/ recovery system and public participation for successful implementation. The local bodies have to play a very important role in successful collection and safe disposal.

However, with the use of amalgam mercury and reduction of mercury content from 12 to 16 mg. Earlier to less than 5 to 3mg, and now with the emergence and high penetration of LED Lamps, the big question is that by the time the plan is implement and a lot of investment pumped in, is it worthwhile to execute the plan.

Besides this, ELCOMA has initiated certain actions to contain the issue:

### 1. INITIATIVE ON REDUCTION OF MERCURY CONTENT IN LAMPS:

Bureau of Indian Standards have initiated draft amendment to IS 15111 CFL Standard to reduce mercury content in CFL to less than 5 mg. Elcoma members (large ones) have already initiated pellet insertion of less than 5 MG. Under UNEP Programme (en.lighten) supported by Elcoma has given an assurance to reduce mercury content to less than 3 mg by year 2020.

### 2. AWARENESS TO CONSUMERS:

ELCOMA in cooperation with Bureau of Indian Standards has initiated to bring awareness to consumers by printing statutory notice on all packing of CFLs that reads "This lamp contains a small quantity of mercury which can be harmful if mishandled. Please ensure safe and proper disposal of the lamp". This notice is first in the world. We also print the mark Hg in red on all packing. Besides ELCOMA website gives further information on how to handle in case of breakage of lamp.

### 3. SAFE DISPOSAL AT FACTORY:

All Elcoma members have initiated to safe disposal off CFLs and Fluorescent lamp that are rejected during manufacturing or returned back by consumers under guarantee. Recycling equipment is installed in which all such lamps are crushed and mercury glass metal etc are retrieved and recycled

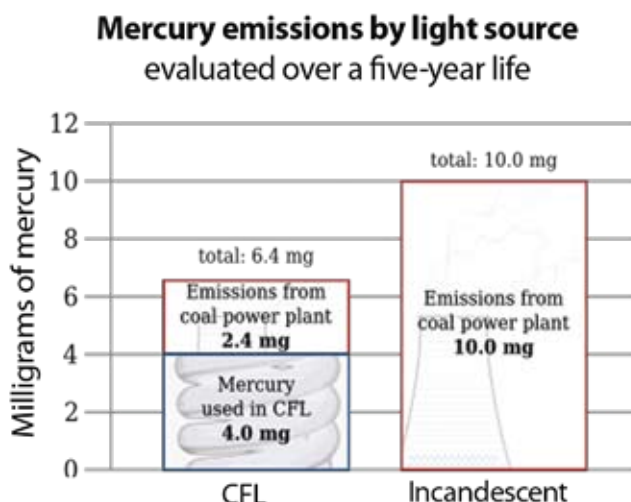
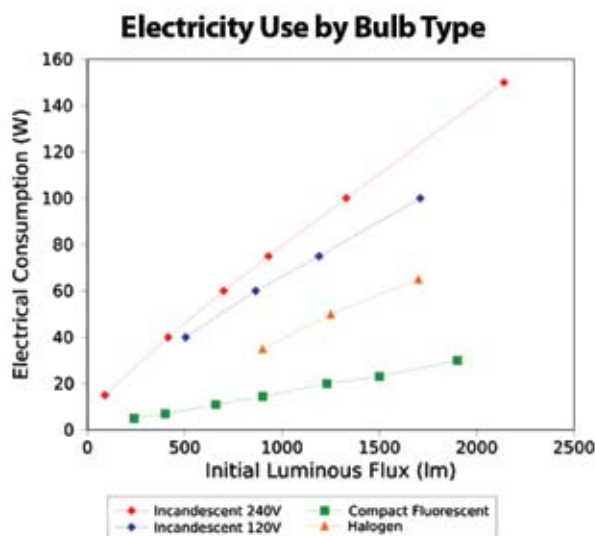
### 4. INCENTIVE TO CONSUMERS:

It is also proposed that if a customer brings a fused CFL lamp to a retailer shop, he may be given an incentive of Rs. 5/- to Rs. 10/- on purchase of an LED lamp.

### 5. THE OTHER ADVANTAGE OF FLUORESCENT LAMPS

In fact Fluorescent Lamps that use mercury are more environment friendly than Incandescent Lamp. The chart below shows how an Incandescent Lamp sends more mercury into atmosphere than CFL. The power generated through coal fired plants to burn the bulb send out at least 10 mg into atmosphere. On the other side, if a CFL lamp uses 4 mg Hg, it consumes power equivalent to 2.4 mg into the atmosphere.

**The figures below explain the difference**



## LIGHT YOUR SPACE – YOUR WAY



The famous Interior designer Benjamin Noriega-Ortiz mentioned once “Light is the magical ingredient that makes or breaks a space; it’s one of the most important elements in all my interiors.”

With the density of living getting higher day by day, spaces becoming innovative, more affluent and more ambient, their utilization becoming optimum, the needs of the spaces have changed.

The new-age lighting has also evolved as per this changing pattern of people and spaces. From the simple incandescent bulb to the Compact Fluorescent lamp to LED, the dimensions of lighting have definitely expanded themselves.

While the old focus of lighting had been primarily on just lighting up the premise, the modern housing as well as architecture focuses on making lighting an integral part of creating a spatial environment that is relaxing, comfortable, energy-efficient and multi-functional. The Internet-of-things has added to the dynamics, while the evolving human needs have again led to some new developments in terms of application of light.

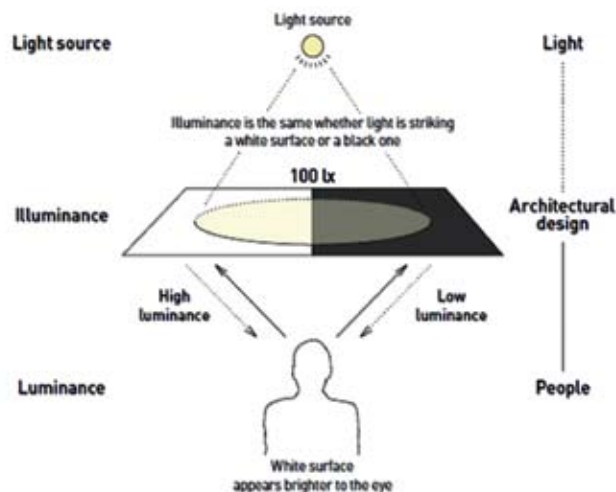
One such interesting development in terms of LED lighting is also the introduction of a new light measurement index called FEU- a Panasonic unique index developed from its collaboration with Ritsumeikan University. The theory of this index is based on science and presented at the Illuminating engineering Institute of Japan. Panasonic LED thus aims to create a more pleasant and fulfilling lighting environment that also saves energy through highly efficient lighting design. It also intends to effectively incorporate the increasingly diverse light sources, including indirect and architectural lighting.

As shown in the diagram, the unit “lux” (symbol: “lx”) is used to measure illuminance (objective brightness of a planar surface) and indicates the amount of light illuminating a surface (i.e. a part of the architectural environment such as a floor or desktop), but it does not accurately convey the way the human eye perceives brightness. Meanwhile, luminance measures the total amount of light emitted from surfaces including reflections, etc., and a very different reading is taken depending on whether the surface in question is white or black, just as the human eye perceives a white surface as much brighter than a black one.

Focusing on measuring luminance, and delving into emotional and psychological aspects as well, we sought to express the human sense of brightness quantitatively and bind lighting, architectural spaces, and their human inhabitants in one

seamless whole. The result of this endeavor is the “Feu” index of the human sense of space brightness. Application of this index enables design of the atmosphere of a space based on quantitative measurement.

The new products introduced include Colour Changing Panel lights that base their premium on the quality of light with a long operating life of 50000 burning hours, wide voltage operation



range of 80-330V, higher surge protection of 2.5 KV and almost glare free lighting with anti-glare diffuser.

The needs and requirements of architecture are given extra impetus as well. The Smart Archi range incorporates products that can be embedded inside horizontal ceilings, aesthetically designed pendant lights with modular units that seamlessly fit in the interior and hence shed streamlined, beautiful, continuous unbroken light.

Apart from these, the new products such as the Space player, explore the additional domain of influencing human sentiments and can be used in homes, hotels, malls, exhibition centers allowing the flexibility to do more with LED lighting. Supporting Dynamic content this is one of a kind projection light that combines color and motion to bring attention to a space where images as well as text data can be displayed simultaneously.



Being a key member of Panasonic - the third largest LED lighting company in the globe and No. 1 LED lighting brand in Japan, Anchor Electricals is today a leading LED lighting player in the industry. While Panasonic boasts more than 3000 led lighting products in its portfolio, Anchor has introduced some of its trend-setting products for the Indian premises.

For more information Write to: [LedLighting@anchor-world.com](mailto:LedLighting@anchor-world.com)

Mr. Yoshiyuki Kato  
Director Lighting





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# Draft Electricity Act 2015

## - HIGHLIGHTS

### Excerpts of the Act relating to Lighting Industry

1. Regulators should be encouraged to notify their DSM regulations and direct the DISCOMs to prepare their DSM action plan for the implementation of DSM measures.
2. The DISCOMs may be encouraged to study their load profile, load research and market survey, assessment of DSM potential, preparation of DSM action plan. The DISCOMs may be incentivized to implement DSM projects like lighting, air-conditioning, agricultural pumps, refrigerators and ceiling fans etc. for reduction in their peak demand.
3. Regulators & DISCOMs may be encouraged to establish and adopt ToD Tariffs for industries and commercial consumers to begin with and include domestic consumers as well subsequently.
4. Utilities may be encouraged to implement more and more demand response programme for flattening their Load curve, resulting in less purchase of expensive power during peak load conditions and improved consumer satisfaction by improving electricity supply.
5. DISCOMs may be advised to carry out annual audits of energy flow of their distribution system and should be submitted to the SERCs.
6. SERCs and DISCOMs may prepare and implement action plans for the following:
  - Replacement of incandescent bulbs and CFLs in all Industrial and commercial applications.
  - Availability of LED bulbs to the residential consumers at affordable price
7. All State & Central Govt. procurement including PSUs, Municipalities, and Hospitals should be required to procure LED lights and 5 star or super-efficient fans.
8. DISCOMs may consider for providing efficiency linked incentives for their staffs for their better performance.
9. SERCs may encourage the DISCOMs and provide appropriate support for DSM schemes for replacing inefficient pumps by Energy Efficient Pumps through ESCO mode and solar pumps where feasible.
10. State Water supply agencies may prepare detailed action plan relating to supply water so that individual pumping of water may be eliminated.
11. DISCOMs should prepare action plan for replacement of inefficient chillers with efficient chillers and may also encourage thermal storage to minimize peak demand.
12. The installation of roof-top solar PV by consumers should be encouraged and net metering tariffs may be notified by the states for implementation in respective DISCOMs.
13. BEE may make mandatory MEPS for more energy intensive appliances and Energy usage norms and standards may be notified for new industries.
14. More no. of states may notify the Energy Conservation Building Codes in their states.
15. SERCs/DISCOMs may consider launching outreach programmes for the public awareness on adoption of energy efficient measures in their routine life.
16. New laboratories may be set up and existing laboratories may be incentivized for up gradation existing technology and innovation of new energy efficiency technology.
17. Institutions like State Designated Agencies, Distribution Companies and Urban Local Bodies etc. may be strengthened to take up energy efficiency measures in their areas.
18. The old & inefficient units of thermal power stations more than 25 years old and operating with low efficiency may be considered for retirement and replaced with more efficient super critical power plants in a phased manner.
19. DISCOMs may take immediate actions to enhance quality of supply so that the need for voltage stabilizer may be eliminated.
20. Energy Intensive consumers may be encouraged to carry out annual energy audit and Govt. entities may put this on their public domain.
21. It should be endeavor to find an affordable replacement of incandescent lamp by 2020.

# LED BOOM IS HERE TO STAY FOR LONG

## ***The modestly-growing lighting industry will move at fast pace, riding on the government support and public distribution***

The domestic lighting industry – which so far was lamps and components - had been growing at the rate of around 12 to 14% per annum over the last 7 to 8 years, clocking an annual turnover of Rs 18,211 crores plus in 2015.

The new dynamic product – LED – has outperformed all estimates. The industry and government have opened new possibilities in achieving energy efficiency in lighting and illuminating wide variety of applications. LED being a versatile product that can be used for Domestic lighting, street lighting, down lights, landscaping, monument lighting, signage's, traffic signals, security lights and many more. LED range has grown by 50% in 2015 to Rs. 5092 crores.

Electric Lamp and Component Manufacturers Association of India (ELCOMA) had estimated a demand of Rs. 5,500 crores by 2016 estimate is revised to Rs. 8,000 crores in view of the government emphasis with new segment of LED tubelights for public distribution and long term payment schemes for Municipal sector for LED street lights.

After introduction of Compulsory Registration Order (CRO) by DeitY (Department of Electronics and Information Technology), the industry is expected to grow with renewed vigour. The LED retrofit lamps may penetrate into more than 700 million sockets in the next two to three years. The Street Light segment is going to play a very important role as Government has initiated that approx 30 million, will be replaced with LED Street Lights by 2018. The government has further decided that all future procurements for various projects, will be only with LED lighting. The product is replicating the CFL revolution over the next 2-3 years, as price reduction and government distribution plans are already taking place. The conventional lighting is already showing decline in all segments. CFL had de-grown by 15% and both fluorescent and incandescent lamps have de-grown by 5% each.

The vision document prepared by Elcoma in 2014 is in actual happening stage across the board and, as planned, is likely to reduce power consumption in lighting from 18% to less than 13% by year 2020.

**LED based lighting technologies provide the possibility of significant efficiencies in energy consumption and therefore can address this concern by focusing conventional lighting with LED in all segments.**

Shyam Sujan,  
Secretary General, ELCOMA



## DEVELOPMENT OF ROBUST LED DRIVER SUITABLE FOR INDIAN POWER CONDITIONS

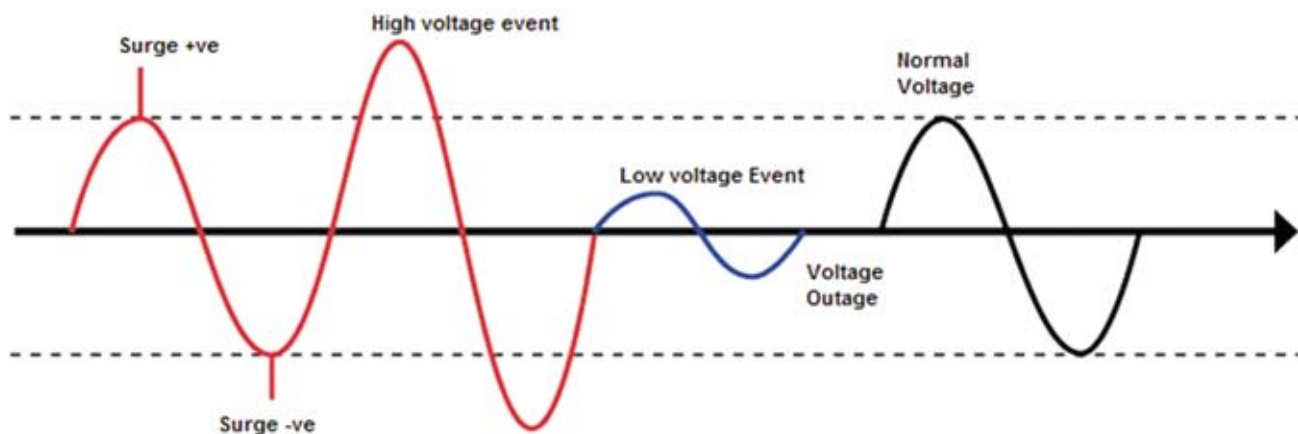
In year 2010, BAG electronics India, initiated market study for Indian market. The three main aspects are to understand wishes of an Indian customer, Indian environmental and power conditions and market trends. This was the first and most important step towards the new product design for Indian market. Indian customer is very choosy, value conscious and always welcoming new concepts and products, as long as they are within her spending capacity. Being one of the most populated country, and a developing nation getting customer for a product was not a big issue. The environmental conditions were generally known to us. The only challenge left was to know about Indian power conditions.

India is very large country compared to European nations. There is a significant variation observed in applications, operating conditions, environmental conditions, in the country itself. For example, different climatic situations, extreme dry deserts to extreme humid seashore areas. Ice cold “Himalaya” to burning hot “Thar”. Dense cities like Mumbai, Delhi to least populated villages. Industrial cities, commercial cities, Farms in villages, Hill stations. The electrical conditions at each place have its own blend. Rural areas are more known for low voltage and powercuts. While the urban areas have comparatively stable supply, the industrial zones are more prone for surges and impulses, while farms and Hill stations are known

for thunders and lightning related surges. BAG engineers took “Bhagirath efforts” to collect the actual data of electrical conditions, visiting various places and recording abnormalities in electrical conditions by means of a sophisticated data recorder. Data was then processed and analysed to form functional requirements for the new series to be developed specifically for Indian power conditions, because the products developed to global specifications did not meet the needs of the Indian power conditions.

The findings are quite interesting. The power fed to Indian consumer is full of fluctuation. We observe voltage events as low as 140V and as high as 300 Volts. There have been some incidences of power being more than 400VAC. This happens due to loose contact in Neutral wire connection causing Phase to Phase supply applied to driver. Such cases are generally observed at sites under commissioning, or older installations where preventive maintenance is not carried out. To handle such wide voltage fluctuation special care has to be taken in drivers. In some cases voltage outages are observed in other words they are also called voltage cuts. This can cause flicker for that instance.

Another big threat to the driver is presence of surges and fast transients on mains supply. Fast transients are very high voltage, in range of 3~4KV, low energy





superimpositions on mains supply, mainly responsible for causing malfunction in microcontrollers in driver. Controller IC controls function of driver and responsible for all critical parameters such as LED current control. Flicker free operation, THD, Power factor correction etc. Surges are high voltage, in range of 3~4KV, high energy superimpositions on mains supply. Surges do cause permanent damage to drivers, results in burning of controller IC, MOSFETs, and LEDs. This cause Luminaire non workable much before estimated lifetime causing huge loss in terms of loss of work due to non-availability of light and replacement cost of luminaire.

The root cause of the situation lies in the way of usage of electricity. Most of the heavy inductive loads installed without compensation capacitors generate electrical surges. In case there is no surge arrestor or filter is installed in between supply line and load the surge freely transmitted to power cables and affect nearby sensitive electrical devices such as LED drivers. Surges come through lightning and other natural events but occurrence of such events is comparatively negligible in Indian continent. Many low power electronic gadgets do not have active power factor correction. Presently, use of such product is significantly increased. In lighting a low cost lamp fitting typically below 25 Watt was generally without active power factor correction circuit had low Power factor of 0.5 & 150% Athd. Usage of such lamps

was restricted. When LED came in to market most of these lamps got replaced with LED with same electrical specs as well as Fluorescent lamp fittings upto 40 Watts got replaced with low cost Led fittings below 25Watt due to high efficiency of LED. This would cause heavy load on transmission lines as the wattage get reduced but the Power factor and THD get worse.

To overcome this situation, and protect the devices in such power conditions there are two ways, one is to make the product stronger and the other is to give add on protections to existing product. Both options have their own advantages and disadvantages. We have developed a product called SPD, A surge protector device which suppress the surge voltage and protect the device from getting damaged. SPD are to be connected as electrically close as possible with the driver. The other option is to design the driver with higher immunity to surge and fast transients. There are additional protection components added in input side to suppress surge. The side effect of the same is reduction in Power factor and deterioration of ATHD. A Power factor value of  $>0.9$  with ATHD  $<20\%$  should be a fairly acceptable limit for low wattage (upto 50W) LED drivers. Product should have low voltage and High voltage cut off to get protected from voltage fluctuations.

Kaushik Shendye  
Product Manager

## PROJECT SHOWCASE: KESELEC SCHRÉDER DOES SMART LIGHTING FOR AGAR ROAD, UJJAIN

Ujjain, near Indore, in Madhya Pradesh is an ancient and historical city that is 5000 years old. In addition to being the one of the largest holy cities in the country, Ujjain exerts a significant impact upon commerce, finance, media, art, fashion, research, technology, education, and entertainment. Ujjain has also been selected as one of the hundred Indian cities to be developed as a smart city under PM Narendra Modi's flagship Smart Cities Mission.

In the month of April, the city will host the Simhastha, KumbMela, a mass Hindu Pilgrimage held once in twelve years. With large number of people expected to visit the city, the authorities planned to improve and upgrade the road infrastructure including the street lighting.

Keselec Schreder was happy to have supplied and commissioned the Voltana 5 LED luminaires integrated with the OWLET light management system on one of the most prestigious Agar Road in heart of Ujjain city. The decision to adopt LED Technology with SMART Controls would reap substantial benefits as captured below.



Fig 1. Keselec Schreder's Voltana 5 LED Street Light Luminaire

### Quantitative Benefits:

- 1. Lighting Levels:** The Voltana 5 luminaire delivers and directs substantial light to achieve the lighting parameters of the A1 type road. (Avg. 30 Lux or more, Overall Uniformity of more than 40% and Transversal Uniformity of more than 33%).
- 2. Substantial Power savings:** As the installation was a Greenfield one (fresh installation), the energy savings below are arrived assuming the fact that if an equivalent HID luminaire would have been installed in place of the installed LED luminaire with controls.

- One on one basis the LED luminaire of 212 W provides the above lighting levels which otherwise would have taken a 400W HID luminaire, leading to an energy saving of over 52%.
- **Constant Lumen Output (CLO)** – To comply with required lighting levels, newly installed lamps emit more light than necessary in order to take into account the further depreciation of the flux. The Constant Light Output (CLO) feature eliminates over-lighting and autonomously compensates the depreciation. Thus, in the initial years the luminaires are dimmed to a level so that they emit just that amount of flux that meets the designed lighting levels. Here, an additional savings of 8 to 10% is likely over and above the basic power savings.
- **Dimming Profiles** – The Luminaires have a dimming profile as per the following schedule. From Sunset to 12:00 am: 80%, 12:00 am to 5:00 am : 60%, 5:00 am to sunrise: 80% of Luminaire Wattage. This has been enabled by the smart controls part of the luminaire which further leads to an additional saving of during non-peak traffic hours of 25%.



Fig 2.69% Power Savings against conventional HID Street Light Energy savings due to different features of LED Street Light enabled with SMART Control System Owlet

### Qualitative benefits:

The Owlet Interoperable network is a complete telemanagement system with user-friendly interface. It is a unique combination of future oriented technologies and an easy-to-use web interface. It provides advanced solutions to operate a lighting installation remotely from anywhere in the world.

- **Remote access:** The lighting network is managed through the internet via a simple web browser. Each individual light point can be controlled at any time. Thanks to bi-directional communication,

operating status, energy consumption and possible failures can be monitored remotely by the Municipal engineers

- **Security:** The advanced Owlet Nightshift system provides secured data storage and a back-up. The system uses bank grade security mechanisms to encrypt data while using standard web browsers.
- **Reporting & Ease of Maintenance:** Events are stored in the database with an exact time stamp and geographical location. The reports can be pre-defined or customized to focus on the most interesting information. This feature provides an efficient alarm and asset management to prevent small failures developing into major problems and to detect vandalism or theft.

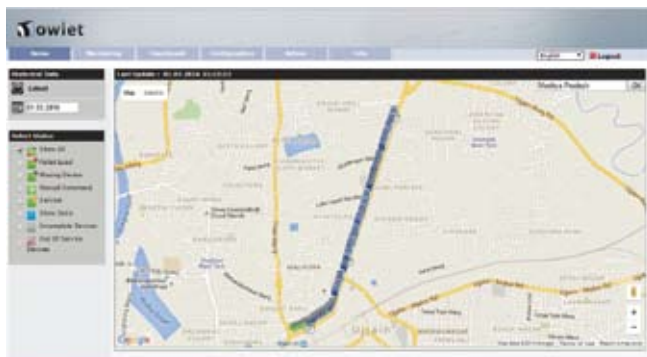


Fig 3. Google Map Integration Feature – Each luminaire has an address of its own on the street name with exact location.

- **Instant Alarm Management:** Failures are recorded, identified and localised in real-time. Information can be automatically sent to operators by a mobile telephone call, SMS or mail.



Fig 4. User Interface – Web portal for Laptop/PC and app for Phones & Tablets.

- **Data management:** All the feedback of the lighting scheme is stored in a MySQL database making the data available for long

term evaluations like energy analysis, lamp life time forecasting, problem detection,

- **Fall-back scenario:** In case of control issues, the system switches to a default program ensuring that the lighting installation does not turn off and continues to provide safety in the public space.
- **Third party integration:** Thanks to its open source Zigbee technology and its flexible MySQL workflow, the Nightshift system can easily be associated to third party Asset Management Systems (Scada, etc..) integrated through data bridges. This flexibility increases the functionalities far beyond lighting.

**In simple language – You always know what's happening with your system.**

The OWLET (a SMART Lighting Management System) has already been installed and running successfully in different cities like Berlin, Brussels; Madrid & San Jose etc. 50,000 + Light points are controlled over 375+ cities worldwide. In India, Cyber City, Kozhikode (LED Street Light) and Tambaram, Chennai (HID Street Light) are empowered with Smart Lighting Management system.

As Your Partner beyond Light, Keselec Schröder is committed to provide Cost-Effective lighting solutions for Safe, Comfortable and Sustainable environments. With the rapid progress and acceptance of LED technology for lighting applications, Keselec Schröder's focus would not only be to bring forth high performance outdoor lighting products but also smart solutions including intelligent control systems, security, Wi-Fi etc. which shall form integral part of tomorrow's Smart Cities.

Present in nearly 40 countries worldwide, the Schröder Group, experts in the design and development of outdoor lighting solutions counts Grand Place in Brussels, Champs Elysees in Paris, the Coliseum in Rome, the Square of the Three Powers in Brasilia and the Bund in Shanghai among its many references. The Indian Subsidiary, Keselec Schröder Private Limited is headquartered in Delhi and has a production plant in Faridabad. The company, which is a specialist in lighting of Public spaces has to its credit lighting of many prestigious and major installations in the country with a total installed base of more than 150,000 LED lighting points.





## MLS INDIA PRIVATE LIMITED

1021-1022, Dlf Tower- A, Dda District Centre,  
Jasola, New Delhi-110025

Tel: 011-41685700, Fax: 011-41685701, E-Mail Id- Info@Mlsindia.Net

**COMPANY PROFILE:** MLS INDIA is a completely owned subsidiary of MLS Co. Ltd. Which is one of the largest manufactures & Supplier of LM80 certified SMD & DIP LEDs.

MLS employs over 15,000 people around the world. We have a significant presence in over 20 countries spanning across Americas, Asia, Europe and the Middle East as well as Africa.

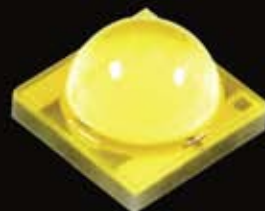
MLS INDIA is focused on delivering enhanced efficiency, optimal performance and flexibility with all of our products. We ensure that all of our products are rigorously tested for trying Indian conditions and meet and exceed all local and international certifications, standards and guidelines.

### ESTABLISHED:

1. Business Domain	LED LIGHTING
2. Product Brand	MLS, MLS INDIA, FOREST LIGHTING
3. Manufacturing Facilities	Guangdong Province in China
4. Products Manufactured	SMD LED's 2835, 3535, 2020, 3014, 4014, 5050, 5630
5. Other Products Traded	Luminaires, Led Products
6. Annual Lighting Turnover (Not mandatory)	Estimated Usd 6~7 Million In 2016
7. No. of employees	10
8. Directors and their contact details (phone, e-mail, location etc)	1. ITA LIN, CEO +91-9599309191 lta.lin@mlsindia.net  2. KRISHAN SUJAN, COO +91- 9871675599 Krishan.sujan@mlsindia.net
9. Contact Persons for a. Business Development  b. Exports  c. Production (With Names, Designation & Addresses)	a. IVAN HU, Chief Sales & Marketing Officer +91-9711097878 ivan.hu@mlsindia.net
10. Regional Offices – Contact person / address	New Delhi Krishan Sujjan, COO
11. E-mail	Info@mlsindia.net



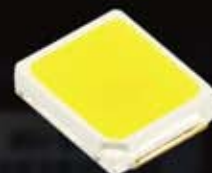
MLS INDIA is a subsidiary of MLS Co. Ltd. which was founded in 1997 and is one of the largest manufacturers & suppliers of SMD & DIP LEDs. MLS was one of the earliest LED manufacturers and light-source provider for various kinds of lighting products. Headquartered in Zhongshan City of China, with a workforce of more than 12000 employees, MLS has fully-integrated, world class facilities supported by the most advanced technologies. A wide choice of LM80 certified MLS LEDs are available in Warm white, Natural White and Cool White CCTs. Lamp manufacturers using MLS LEDs can bid for all BEE, EESL, Municipal Corporation and Government Tenders & BIS based LED projects with our 2835, 3030 and 3535 LEDs. MLS also has a wide range of Color LEDs available in 3014, 2835 and 5050 packages.



M3535



M3030



E2835 (CW)



E2835 (WW)



M2020



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Cynthia Thakkar +91 91672 10748

[cynthia.thakkar@india.messefrankfurt.com](mailto:cynthia.thakkar@india.messefrankfurt.com)

# light

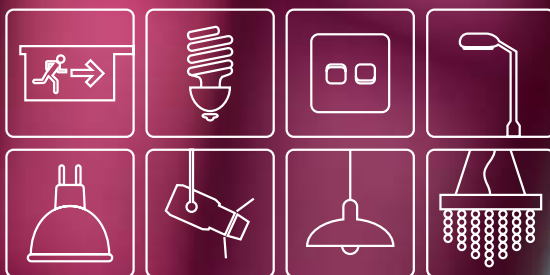
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[rasheed.anwaar@india.messefrankfurt.com](mailto:rasheed.anwaar@india.messefrankfurt.com)

**Himanshu Joshi +91 85869 26107**

[himanshu.joshi@india.messefrankfurt.com](mailto:himanshu.joshi@india.messefrankfurt.com)



# International Solid State Lighting Alliance



ISA is an international not-for-profit NGO, registered in Hong Kong, aiming to promote the sustainable development and application of Solid State Lighting (SSL) worldwide. ISA currently has 77 members with more than 4,000 associated members, representing 70% of the output of global SSL industry. ISA members consist of almost all the major players of the global SSL community, including leading industry, academic and application entities.

## The Committees of ISA

ISA Board of Advisors

Technical Committee on Standardization (TCS)

Municipal SSL Applications Committee (MSAC)

## The Working Groups of ISA

WG1 : SRA & Industrial Roadmap

WG2 : Global Showcases

WG3 : Ecosystem Development

WG4 : Dialogues on standards & Testing

WG5 : Public Relations & Membership

WG6 : Lighting Design and Application



## ISA 2013 General Assembly

## Board of Advisors

## President



Ling Wu (President)  
Secretary-General, China SSL  
Alliance (CSA)

## Council of Management



Frederic Quan  
Optoelectronics Industry  
Development Association  
(OIDA)



Warren Julian  
Illuminating Engineering  
Society of  
Australia and New Zealand  
(IESANZ), Professor,  
University of Sydney



Bing-Jye Lee  
Taiwan Optoelectronic  
Semiconductor Industry  
Association (TOSIA),  
CEO and President,  
Epistar Corporation

## Secretary-General



Ruisheng Yue  
International SSL Alliance (ISA)



Gulshan Aghi  
President of Indian Society of  
Lighting Engineers (ISLE)



Moo Whan Shin  
Professor, Yonsei University,  
President, Korea Association of  
Optoelectronics

(Chairman)

(Co-Chairmen)



Prof. Shuji Nakamura  
Inventor of Blue Laser and  
Blue, Green, and  
White LEDs



Prof. Guoqi Zhang  
Director DIMES  
Centre for SSL  
Technologies,  
Delft University of  
Technology, the  
Netherlands



George Craford  
Inventor of Yellow  
LED Fellow,  
Philips Lumileds



Prof. Ching Tang  
Inventor of OLED  
Chairman, ChE  
Department,  
University of  
Rochester



Prof. Bárony István  
Director of  
Research Centre for  
Natural Sciences,  
Hungarian Academy  
of Sciences



Russell Dean Dupuis  
School of Electrical  
and Computer  
Engineering  
Georgia Institute of  
Technology



Prof. Wolfgang Kowalsky  
Technical University  
Braunschweig



Dr. Patrick Mottier  
Director of SSL  
program, CEA-LETI



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



Yi-Jen Chan  
Director, Electronics  
& Optoelectronics  
Research, ITRI  
(Secretary-General,  
TOSIA)



Prof. Jinmin Li  
President, Institute  
of Semiconductors,  
Chinese Academy  
of Sciences



Bob Karlíček  
Director,  
Smart Lighting  
Center Rensselaer  
Polytechnic  
Institute, US

77 Members:



## Strategic Research Agenda



## Global SSL Outlook (GSO)



## Global SSL Top100

## Technology Transfer & Trade



[www.isa-world.org](http://www.isa-world.org)

Email: [yanghe@isa-world.org](mailto:yanghe@isa-world.org)

Tel: 86-10-62607585



ELCOMA — 2014 ISA Global Solid State Lighting Forum India co-organizer

The world of illumination is undergoing rapid transformation: from technology and innovation to energy efficiency and recycling. To most effectively address industry changes and establish a more proactive global presence, members concluded their organization needed to change as well. Originally founded in 2007 as the Global Lighting Forum (GLF), the new Global Lighting Association (GLA) represents the same members—but with a renewed focus and broader scope, and a willingness to be ever more active and influential participants in shaping how the world around us is lighted.

The Global Lighting Association promotes the use of sustainable, energy efficient lighting solutions while maintaining and improving the quality of lighting. The GLA unites on a global level the leading national and regional industry associations for lighting technology. GLA functions as a forum for exchange and formulation of technical and policy information and is a recognized authority on issues of concern to the global lighting industry.

**The Global Lighting Association, within the limits of national and EU competition law:**

- shares knowledge on global trends as well as legislative and regulatory developments and opportunities in lighting
- shares information on the activities of individual associations
- anticipates and initiates policies and actions on areas of common interest
- provides governments with relevant product and market information

## Mission

The Global Lighting Association is the voice of the lighting industry on a global basis. The primary mission of the GLA is to share information, within the limits of national and EU competition law, on political, scientific, business, social and environmental issues of relevance to the lighting industry and to develop, implement and publish the position of the global lighting industry to relevant stakeholders in the international sphere.

## GLA BOARD MEMBERS

Comprised of senior leadership from our member organizations, the Global Lighting Association's board collectively represents years of industry expertise and experience.



**Jan Denneman**  
President, Global Lighting Association (GLA)



**Michael Ng**  
Director Taiwan Lighting Fixture Export Association (TLFEA)



**Meeryoung Cho**  
Director of Strategy & Planning Korea Institute of Lighting Technology (KILT)



**Masanori Doro**  
Executive Managing Director, Japan Lighting Manufacturers Association (JLMA)



**Bryan Douglas**  
Chief Executive Officer Lighting Council Australia (LCA)



**Pekka Hakkarainen**  
Vice President, Lutron Electronics (NEMA)



**Isac Roizenblatt**  
Technical Director, Brazilian Lighting Industry Association (ABILUX)



**Shyam Sujat**  
Secretary General, Electric Lamp & Component Manufacturers' Association (ELCOMA)



**Chen Yangshen**  
Executive Vice President and Secretary General, China Association of Lighting Industry (CALI)



**Alfred G. Haas**  
Secretary General of Lighting Europe and the Global Lighting Association



**Anne Vick**  
Communications Director for Lighting Europe and the Global Lighting Association

## BUREAU OF ENERGY EFFICIENCY

Bureau of Energy Efficiency, a statutory body under Ministry of Power was established on 1st March, 2002 under the provisions of the Energy Conservation Act, 2001 to promote efficient use of energy & its conservation.

### 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.

### Role of BEE

Under the Energy Conservation Act, BEE manages with designated agencies and other organizations. It recognizes, identifies and utilizes the accessible resources and infrastructure, in performing the function of Energy Sector. The Energy Conservation Act provides for quasi regulatory and promotional functions.

### Quasi Regulatory Role

The quasi Regulatory role of BEE is to provide support to central and the state governments to develop the following:

- Minimum energy performance standards and label design for equipments and appliances.
- Specifying Energy Conservation Building Codes.
- Activities focusing on designated consumers.
- Certification of Energy Managers and Energy Auditors.
- Accreditation of Energy Auditors.
- Defining the manner and periodicity of mandatory energy audits.
- Developing reporting formats on energy consumption and action ensuring on the recommendations of the energy auditors.

### Promotional Role

The major promotional Roles of BEE include:

- Creating awareness and disseminate information on energy efficiency and conservation.
- Arranging and organizing training of personnel and specialists for efficient use of energy and its conservation.
- Strengthening consultancy services in the field of energy conservation.
- Promoting research and development.
- Developing testing and certification procedures and promote testing facilities.
- Formulating and facilitate implementations of pilot projects and demonstration projects.
- Promoting use of energy efficient processes, equipment, devices and systems.
- Take steps to encourage preferential treatment for use of energy efficient equipments or appliances.
- Promoting innovative financing of energy efficiency projects.
- Giving financial assistance to institutions for promoting efficient use of energy and its conservation.
- Preparing educational curriculum on efficient use of energy and its conservation.
- Implement international co-operation programs relating to efficient use of energy and its conservation.

# INDIAN SOCIETY OF LIGHTING ENGINEERS

Illrd Gumarnpuri Complex, 1513, Bhishma Pitamah Marg, Wazir Nagar, New Delhi 110003, Tel: 011 24624063, Website: [www.isleind.org](http://www.isleind.org)



The Indian Society of Lighting Engineers (ISLE) is a professional body in the field of illuminating engineering with a broad based membership of scientists, engineers, architects, academicians, researchers, designers and others interested in lighting issues. ISLE is affiliated to the CIE, the International Commission on Illumination. It is also a member of Lux Pacifica, a lighting body that represents 60% of the world's population. It is closely associated with the Bureau of Indian Standards, the Bureau of Energy Efficiency, the Department of Science and Technology, the Ministry of Power and the Ministry of New and Renewable Energy Sources.

## Objectives of ISLE

- Promoting the art, science and practice of illumination engineering services as associated with built and open environment for the benefit of the public in general.
- Advancing education and research in illumination engineering and publishing useful results of this research.
- Formulating lighting codes, guides and technical reports and publishing them along with newsletters, journals and books on "illumination".
- Maintaining liaison and technical interaction with national/international organisations concerned with matters related to the science, technology, standardisation and art in the fields of light and lighting.
- Co-operation with the Bureau of Indian Standards in their standardisation work in the field of lighting.
- Providing guidance to young engineers for career improvement in illumination engineering.
- Organizing exhibitions and trade fairs of lighting and allied industries.
- Supporting Educational Institutions and providing scholarships to deserving students.

## ISLE Organisation

**ISLE State Centres and Local Centres** - The ISLE Secretariat is located in Delhi. Besides, State Centres are currently located at Calcutta, Delhi, Mumbai, Chennai, Karnataka, Rajasthan and Madhya Pradesh.

There are local centres at Pune, Guwahati and Hyderabad.

**ISLE Governing Body** - All the countrywide activities of the Society are overseen by a Governing Body through its various committees, and the State and Local Centres. The Governing Body of ISLE comprises a President, Immediate Past-President, Vice-President, General Secretary, Treasurer, twelve members and one member from each of the State Centre. Chairmen of State Centres are ex-officio members of the Governing Body.

## ISLE Membership

The members of ISLE are represented on national bodies such as the Development Council of the Ministry of Industry, Confederation of Indian Industry, and Bureau of Indian Standards. They are also active participants in industry associations like the Electric Lamp and Component Manufacturers Association of India, the Glass Manufacturers Association and the Indian Electrical and Electronic Manufacturers Association. They belong to leading lighting companies and utilities and are associated with research organizations like the National Physical Laboratory, Central Building Research Institute, the Electric Research and Development Association and various universities.

## International Affiliations

ISLE has various International Affiliations to work together in exchange of technology innovation and understanding best practices adopted in various countries. ISLE is the Indian National Committee of the **CIE** - Commission International de l'Eclairage (International Commission on Illumination). It also has MOUs with, **IESNA** – Illuminating Engineering Society of North America, **ILE** – Institution of Lighting Engineers, **IESANZ** – Illuminating Engineering Society of Australia and New Zealand and **ISA** – International Solid State Lighting Alliance. ISLE holds joint educational programmes with the Lighting Research Center (USA).



# BUREAU OF INDIAN STANDARDS



## PURPOSE & OBJECTIVES

### PURPOSE

During the pre independence period, standardization activity was sporadic and confined mainly to a few Government purchasing organizations. However, immediately after independence, economic development through coordinated utilization of resources was called for and the government recognized the role for standardization in gearing industry to competitive efficiency and quality production. The Indian Standards Institution (ISI) was, therefore, set up in 1947 as a registered society, under a Government of India resolution.

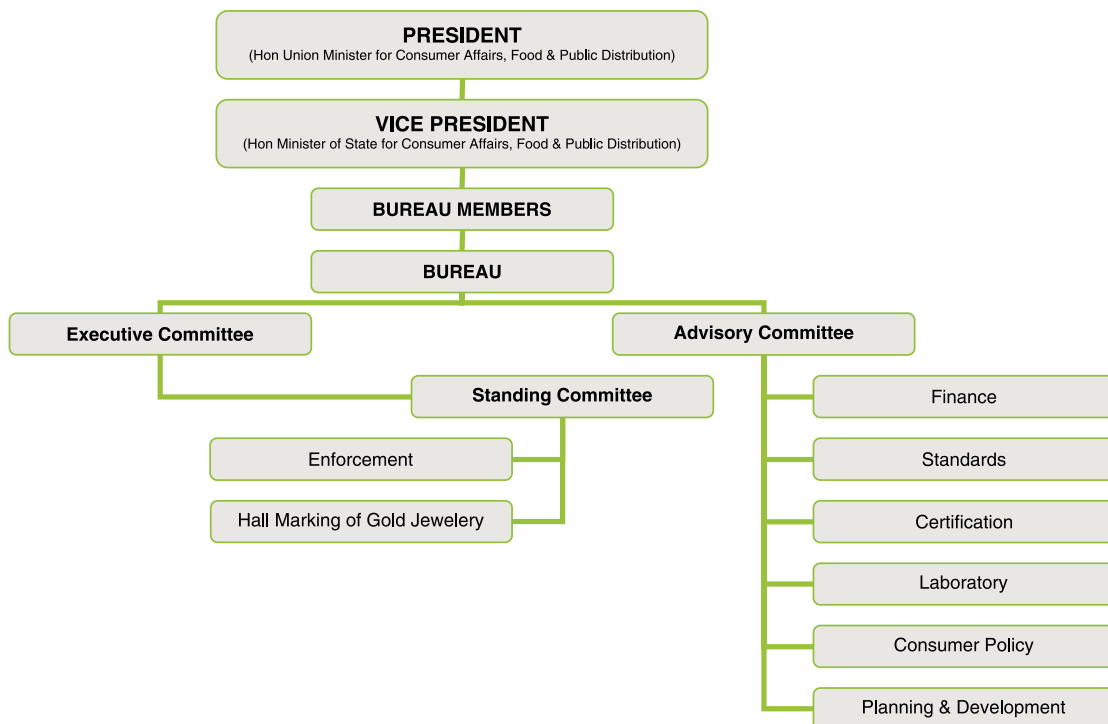
The Indian Standards Institution gave the nation the standards it needed for nationalization, orderly industrial and commercial growth, quality production and competitive efficiency. However, in 1986 the government recognized the need for strengthening this National Standards Body due to fast changing socio-economic scenario and according it a statutory status. Thus came the Bureau of Indian Standards Act 1986 and on 1 April 1987, newly formed BIS took over staff assets, liabilities and functions of erstwhile ISI. Through this change over, the Government envisaged building of the climate of quality culture and consciousness and greater participation of consumers in formulation and implementation of National Standards.

### OBJECTIVES

- Harmonious development of standardization, marking and quality certification
- To provide new thrust to standardization and quality control
- To evolve a national strategy for according recognition to standards and integrating them with growth and development of production and exports

## ADMINISTRATIVE OR EXECUTIVE ARMS FOR IMPLEMENTATION

### STRUCTURE OF B.I.S.



**COMPANY PROFILE:** Crompton lighting, is a part of Crompton Greaves Consumer Electricals Limited. The product range covers home lighting solutions, industrial lighting, street lighting, commercial lighting, infrastructure lighting, retail lighting etc.

### ESTABLISHED:

<b>1 Business Domain</b>	Integrated Lighting Products Manufacturer — LED and Conventional
<b>2. Product Brand</b>	CROMPTON
<b>3. Manufacturing Facilities</b>	Vadodara & Baddi
<b>4. Products Manufactured</b>	LED lamps, Incandescent Lamps, Fluorescent Lamps, Compact Fluorescent Lamps, Sodium Vapour Lamps, Mercury Vapour Lamps, Metal Halide Lamps
<b>5. Other Products Traded</b>	<ol style="list-style-type: none"> <li>LED Indoor and Outdoor lighting fixtures for home lighting, industrial lighting, street lighting, commercial lighting, infrastructure lighting and retail lighting etc.</li> <li>Conventional Fixtures for Incandescent lamps, Linear fluorescent lamps, Compact fluorescent lamps, sodium vapour lamps, mercury vapour lamps, metal halide lamps for indoor and outdoor applications.</li> </ol>
<b>6. Details of Exports (Products/countries/value etc.)</b>	Doing business in Sri Lanka, Nepal, Pakistan, UAE, Bahrain, Oman, Africa and Singapore
<b>7. Annual Lighting Turnover (Not mandatory)”</b>	1100 Crores
<b>8. No. of Employees</b>	1720 Nos.
<b>9. Directors and their contact details (phone, e-mail, location etc)”</b>	<ol style="list-style-type: none"> <li><b>Mr. Shantanu Khosla</b> (MD), Crompton Greaves Consumer Electricals Limited, Tower No. 3, First Floor, Equinox Business Park, Kuria (West), Mumbai 400 070. Landline: 022 61678302</li> </ol>
<b>10. Contact Persons for</b> <b>a. Business Development</b>  <b>b. Exports</b>  <b>c. Production</b> <b>(With Names, Designation &amp; Addresses)</b>	<ol style="list-style-type: none"> <li><b>Ms. Uma Lanka</b>, Associate Vice President, Lighting division, Crompton Greaves Consumer Electricals Limited, Tower No. 3, First Floor, Equinox Business Park, Kuria (West), Mumbai 400 070.</li> <li><b>Mr. Jaideep Patil</b>, Associate Vice President, Crompton Greaves Consumer Electricals Limited, Tower No. 3, First Floor, Equinox Business Park, Kuria (West), Mumbai 400 070.</li> <li><b>Mr. Christopher</b>, Vice President, Crompton Greaves Consumer Electricals Limited, Kural Village, Padra, Baroda, Gujarat 391 430.</li> </ol>
<b>11. Regional Offices — Contact Person / Address</b>	<p><b>North:</b> Mr. Prashant Saxena, Crompton Greaves Consumer Electricals Limited, 3rd Floor, Express Building, Near ITO Crossing, New Delhi 110 001.</p> <p><b>East:</b> Mr. Rajat Chopra, Crompton Greaves Consumer Electricals Limited, IISCO House, 6th Floor, 50, Chowringhee Road, Kolkata 700 071.</p> <p><b>West:</b> Mr. Ajit Kamath, Crompton Greaves Consumer Electricals Limited, 303 &amp; 304, 3rd Floor, Orbit Plaza, New Prabhadevi Road, Mumbai 400 025</p> <p><b>South :</b> Mr. Anandkumar N., Crompton Greaves Consumer Electricals Limited, Crompton Hose, No. 3, Dr. M.G.R. Salai, Kodambakkam High Road, P.B. No. 3316, Nungambakkam, Chennai 600 034.</p>
<b>12. E-mail</b>	Rajesh.naik@crompton.co.in

## EON Solar Lighting



Gone are the days when solar lights were just a novelty lighting item and were confined to yards and gardens to add to the ambience. Strong government push and recent advancements have made solar lights much more efficient and beneficial than the traditional 12V or 120V hardwired lights. Solar lights are now proving to be an important building block in achieving the Government's goal of energy efficiency.

India has one of the largest power generation portfolios worldwide. The country has been rapidly adding capacity over last few years, with the total installed capacity growing to over 258.7 GW from 105 GW. Economic growth and increasing prosperity, coupled with factors like rapid urbanization, rising per capita energy consumption and widening energy access to energy are likely to push energy demand further in the country.

Renewable energy has shown a steady growth during this period. The Ministry of New and Renewable Energy (MNRE) has set a capacity addition target of 29,800 MW from various renewable energy sources during 12th Plan period (2012-17). The target comprises of 15,000 MW from wind, 10,000 MW from solar, 2,100 MW from small hydro and 2,700 MW from bio-power.

The government has stepped up India's solar power capacity target under the Jawaharlal Nehru National Solar Mission (JNNSM) by five times, from 20,000 MW to 100,000 MW by 2022. The target comprises 40 GW Rooftop and 60 GW through Large and Medium Scale Grid Connected Solar Power Projects.

### Advantages of solar lights

Solar lights today are very versatile and can be used for a variety of reasons. Firstly, if you need lightning in places where electrical wiring is impossible to reach or there is no power source at all, a solar spot light can be very convenient. Because of its design, you can place the solar panel outside while you get illumination inside dark areas.

The Solar Security Light, can actually secure your home from intruders as these lights have motion detectors that can switch on the light at any intruder moment. Solar lights have rechargeable batteries that store solar power so they can actually be transported and used inside one's home.

Thanks to modern photovoltaic cells, LEDs (Light Emitting Diodes) and, essentially, a better understanding of solar energy, the next generation of solar-powered lights are able to absorb and utilize more power from the sun, giving off longer lasting illumination than your typical light bulb.

Due to the recent prominence of LED technology, solar lights are now long-lasting, brighter light at a much lower wattage.

Nowadays, most solar lights are wireless and that literally makes installing them in a snap. Basically, all you do is find a good place to put them (more specifically, somewhere where sunlight shines bright during the day) and that's about it. Some models even have a separate panel so you can collect solar power in an area that has more light.

Mr. V P Mahendru  
CMD, EON Electric Ltd

### COMPANY PROFILE:

#### ESTABLISHED:

<b>1. Business Domain</b>	Lighting
<b>2. Product Brand</b>	Philips
<b>3. Manufacturing Facilities</b>	Vadodara, Mohali
<b>4. Products Manufactured</b>	Lighting
<b>5. Other Products Traded</b>	Modular Switches, Lighting Controls
<b>6. Directors and their contact details (phone, e-mail, location etc)</b>	Harsh Chitale CEO, Philips Lighting South Asia
<b>7. Contact Persons for</b> a. <b>Business Development</b> b. <b>Exports</b> c. <b>Production</b> (With names, designation & Addresses)	Rothin Bhattacharyya Chief Marketing Officer, Philips Lighting South Asia
<b>8. E-mail</b>	lighting.india@philips.com



**COMPANY PROFILE:**

**ESTABLISHED:**

<b>1. Business Domain</b>	Manufacturing & marketing of light sources, Luminaires, High Mast, Streetlight Poles, Solar based applications, Illumination Projects as well.
<b>2. Product Brand</b>	Bajaj Lighting
<b>3. Manufacturing Facilities</b>	Kosi (UP) & Ranjangaon (Pune)
<b>4. Products Manufactured</b>	Lamps, Tube lights and HID lamps
<b>5. Other Products Traded</b>	Fans & Consumer Durables
<b>6. No. of Employees</b>	Over 2500
<b>7. Directors and their contact details (phone, e-mail, location etc)</b>	<ol style="list-style-type: none"> <li>Mr. R. Sundararajan President - Lighting Business Group</li> <li>Mr. Krishna Raman Executive Vice President &amp; Head – lighting BU</li> </ol>
<b>8. Contact persons for</b> <b>a. Business Development</b> <b>b. Exports</b> <b>c. Production</b> <b>(With Names, Designation &amp; Addresses)</b>	<ol style="list-style-type: none"> <li>Mr. R Baraneetharan – Lighting BU</li> <li>Mr. Mangesh Khisty – Luminaires BU</li> <li>Dr. Naveen – Solar Applications Address &amp; Phone numbers as above</li> </ol>
<b>9. E-mail</b>	krishna@bajajelectricals.com

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**85%<sup>\*</sup>  
POWER  
SAVING**



**2 YEAR  
WARRANTY**

**ECO-FRIENDLY  
LIGHTS**

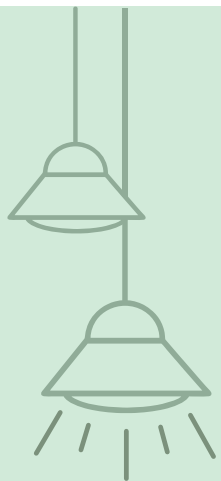
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The science of light

[www.bajajelectricals.com](http://www.bajajelectricals.com) | email: [lightingsupport@bajajelectricals.com](mailto:lightingsupport@bajajelectricals.com) | [f](#) | [t](#)

Terms and conditions apply. Colours shown are for representation purposes only. Actual colours may vary. \*Bajaj 7W LED Bulb delivers 700 lumen output as compared to a 60W GLS lamp giving similar light output. \*Hours mentioned is Mean Time Between Failure.

Lighting revolution into your home with Bajaj LEDs. Presenting the future in lighting. Bajaj LEDs are both practical and cost-effective. However, what will surprise you most is the value they add to your life – whether it is their longevity, aesthetic designs or energy-saving attributes. Discover the science of light with Bajaj LEDs.



Products that  
light up  
your world.



Crompton Greaves Consumer Electricals Limited

Lighting Division. Tower 3, 1st Floor, East Wing, Equinox Business Park, LBS Marg, Kurla (W), Mumbai 400 070

Tel.: +91 22 61678499

# Crompton

Embrace a well-lit future with Crompton Lighting. Our wide range of lighting products deliver performance, flexibility and control like never before. With the perfect blend of functionality and aesthetics, Crompton lights incorporate technological innovations and design sense for diverse applications. Whether you're looking for colour changing LED mood lighting, automated lighting solutions, efficient business lights or high-power industrial lights, Crompton's luminous expertise of more than 75 years will brighten up your surroundings.

Home



Offices



Industries



Street Lights



Robust Distribution Network



100% Service





*Inaugurated by*

**HONORABLE LATE DR. A. P. J. ABDUL KALAM  
FORMER PRESIDENT OF INDIA**

*Recognized by*

**BUREAU OF INDIAN STANDARDS (BIS)  
For Testing of Batteries, IT & Electronic Products  
under compulsory registration scheme and various other  
Electrical, Electronics and Photometric Products**

*Accredited by*



**NATIONAL ACCREDITATION BOARD  
FOR TESTING AND CALIBRATION  
LABORATORIES (NABL)  
DEPTT. OF SCIENCE & TECHNOLOGY,  
GOVERNMENT OF INDIA**

*Empanelled by*

**ENERGY EFFICIENCY SERVICES LIMITED (EESL)  
A JOINT VENTURE COMPANY OF  
PSUS OF MINISTRY OF POWER,  
GOVT. OF INDIA**

### OUR SERVICES AT A GLANCE

#### 1. ELECTRONICS TESTING:

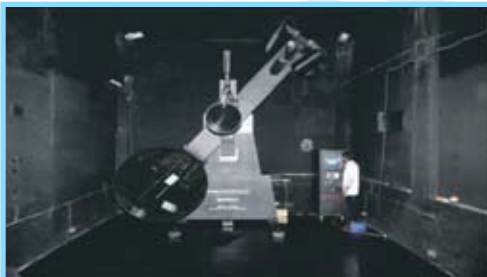
- IT & Audio Video Equipments
- Electric Toys
- Medical Equipments
- EMI / EMC as per CISPR Standards.

#### 2. OPTICAL/PHOTOMETRY TESTING:

- LED Lamps & Luminaires
- GLS, CFLs, TFLs, HPMV, HPSV etc.
- Streetlights & Floodlights

#### 3. ELECTRICAL TESTING:

- Cells & Batteries, UPS
- Energy Meters, Capacitors, Thermostats
- Ballast/Control gear & Starters
- Electrical Kitchen & Home Appliances
- Appliances for Skin & Hair Care
- Fan, Motors, Cable & Conduits
- Electrical Equipments for Lab. use
- Electrical Equipments of Machines
- Degree of Protection



### HI PHYSIX LABORATORY INDIA PVT. LTD. Complete Solution for Testing & Calibration

A-79, MIDC, Ranjangaon, Pune, Maharashtra, Pin-412220  
Email: info@hiphysix.com; infohplindia@gmail.com, Website : www.hiphysix.com  
Phone : 02138 - 232901, 232902, Fax : 02138 - 232903  
Mobile : +91 7768005400, +91 7768005411, +91 7768005422

### HI PHYSIX LABORATORY Complete Solution for Testing & Calibration

K-12, Sec.-2, D.S.I.D.C. Indl. Area, Bawana, Delhi-110039  
Phone : 91-11-27761801; E-mail : infohpldelhi@gmail.com  
Mobile 1: +91-9899550150

**COMPANY PROFILE:** Havells India Limited 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, Power Capacitors, CFL Lamps, Luminaires for Domestic, Commercial and industrial Applications.

Havells owns some of the most prestigious global brands like Havells, Crabtree, Sylvania, Concord, Luminance and Standard. Its global network constitutes of 6500 professionals across 91 branches & representative offices in over 50 countries. Its ten state-of-the-art manufacturing plants in India located at Haridwar, Baddi, Noida, Sahibabad, Faridabad, Alwar, Neemrana and seven world class manufacturing plants.

A 20000 strong global 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 400 plus 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 door step service via its initiative ‘Havells Connect’. Thanks to the quality of products and quicker service, it has minimum customer complaints and highest customer satisfaction.

Today, Havells alongwith its brands, have earned the distinction of being the preferred choice of electrical products for discerning individuals and industrial consumers both in India and abroad. Havells offers same quality products for both Indian and international markets. Havells products & processes have acquired a number of International quality certifications, like BASEC, CSA, KEMA, CB, CE, ASTA, CPA, SEMKO, SIRIUM (Malaysia), SPRING (Singapore), TSE (Turkey), SNI (Indonesia) and EDD (Bahrain) – thus complying with stringent quality norms at even the most testing markets, worldwide. It is committed to keep powering the world with its state-of-the-art innovations and energy-efficient solutions. Currently 70% of its product offering is energy efficient.

**ESTABLISHED:**

<b>1. Business Domain</b>	FMEG (Fast Moving Electrical Goods)
<b>2. Product Brand</b>	Crabtree, REO, Havells and Standard
<b>3. Manufacturing Facilities</b>	12 Manufacturing Facilities in Alwar, Neemrana, Faridabad, Sahibabad, Baddi and Haridwar
<b>4. Products Manufactured</b>	Fans, ACB, MCCB, LED and Lighting Fixtures, CFL, Motors, Waterheaters, Switches and Electrical accessories
<b>5. No. of Employees</b>	6500
<b>6. Directors and their contact details (phone, e-mail, location etc)</b>	1. anilrai.gupta@havells.com 2. ameen.gupta@havells.com 3. rajesh.gupta@havells.com
<b>7. Contact Persons for</b> <b>a. Business Development</b> <b>b. Exports</b> <b>c. Production</b> <b>(With Names, Designation &amp; Addresses)</b>	a. Girish Shrivastav b. Alok Gupta c.
<b>8. E-mail</b>	marketing@havells.com



## FIEM INDUSTRIES LTD.

Plot No. 1915, Rai Industrial Estate, Phase V, Rai, Sonapat - 131029, Haryana  
Tel: 0130-2367905 Fax: 0130-2367903,  
E-mail ID fiemunit7@fiemindustries.com

### COMPANY PROFILE

#### ESTABLISHED:

<b>1. Business Domain</b>	Automotive Components, LED Lamps & Luminaires
<b>2. Product Brand</b>	FIEM
<b>3. Manufacturing Facilities</b>	Kundli (Haryana), Rai (Haryana), Tapukara (Rajasthan), Nalagarh (Himachal Pradesh), Hosur (Tamil Nadu), Mysore (Karnataka), Ahmedabad (Gujarat)
<b>4. Products Manufactured</b>	Automotive Lighting, Rear View Mirror, Plastic & Sheet Metal Components, LED Lamps and Luminaires. LED based Integrated Passenger information system with software for Railways, State Transport, Metro and Airport.
<b>5. Details of Exports (Products/Countries/Value etc.) (2014-2015)</b>	Automotive Components, LED Lamps & LED Luminaires Total Export: 16.64 Crores. Austria, Japan, UK, Italy, Ireland, Columbia, Thailand, Indonesia
<b>6. No. of Employees</b>	6500
<b>7. Contact Persons for</b> <b>a. Business Development</b>  <b>b. Exports</b>  <b>c. Production</b> <b>(With Names, Designation &amp; Addresses)</b>	<b>a.</b> Mr. Piyush Gahalaut <b>b.</b> Mr. S. Narayanan <b>c.</b> Mr. Kashi Ram Yadav
<b>8. Regional Offices — Contact person / address</b>	<b>Mr. Devendra Sahu</b> Aria Commercial Towers, (Unit no 1A & 1C), 1st Floor, J.W. Marriott Hotel, Aerocity, New Delhi - 110037
<b>9. Any other information</b>	Nine Manufacturing Units. Government. Recognised R&D Centre at Rai (Haryana) Design Office at Japan Joint Venture for New Product Development and Design Activities at Italy
<b>10. E-mail</b>	fiemunit7@fiemindustries.com

**Fiem**

LED LUMINAIRES

# LED Lighting

## 100% INDIAN PROVEN

CONFORMING TO  
IS-16102 (PART I):2012-R-95000078

INDIA'S FIRST  
"BIS" APPROVED LED BULB

Long Life upto  
**25,000 hrs**



Cert. No. T - 3799  
NABL Accredited Lab.

for General Lighting Testing

### Light Up The World



### Certified Products

Energy Efficient Lighting | Energy Saving Trust  
Govt. approved R&D Center with Testing Facility

9 state-of-the-art manufacturing facilities

Innovative design • Superb performance  
Save Power • Save Money

#### New Product Range of Bulbs



LED Emergency Bulb



LED Smart Bulb



Low Carbon Emissions



Zero Mercury &amp; UV



Zero Maintenance



Eco-Friendly



LED Tube Light



Street Light



Hi-Bay Light



Flood Light



Slim Panel Light



Down Light



Post Top Garden Light



Solar Lantern

### Fiem Industries Ltd.

(AN ISO/TS 16949 : 2009, ISO 14001 : 2004, OHSAS 18001 : 2007 & ISO 9001 : 2008 CERTIFIED COMPANY)

#### CORPORATE OFFICE & LED MARKETING DIVISION

Aria Commercial Tower, (Unit No. 1A & 1C), 1st Floor, J.W. Marriott Hotel, Aerocity, New Delhi -110037 Tel.: 011-48450000/02

Factories: Haryana, Rajasthan, Himachal Pradesh, Tamil Nadu, Karnataka & Gujarat

R&D Centres: India (Rai, Haryana), Japan & Italy

Toll Free No. : 1800 11 5969

Email: [ledsales@fiemindustries.com](mailto:ledsales@fiemindustries.com)

[www.fiemindustries.com](http://www.fiemindustries.com)

Also Available at

[amazon.in](#)

[flipkart](#)

[pepperfry](#)

[paytm](#)

[snapdeal](#)

[SHOPCLUES](#)



## COMPANY PROFILE

**ESTABLISHED: 1937**

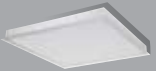
<b>1. Business Domain</b>	Electricals, Manufacturing & Marketing
<b>2. Product Brand</b>	Panasonic & Anchor
<b>3. Manufacturing Facilities</b>	Total 13 Manufacturing Facilities
<b>4. Products Manufactured</b>	Lighting, Fan, Wire & Cable, Switches, Circuit Breakers, Solar, Conduit Pipes.
<b>5. Other Products Traded</b>	Power tools, Voltage stabilizers etc.
<b>6. No. of Employees</b>	10,000 Plus
<b>7. Contact Persons for</b> <b>a. Business Development</b> <b>b. Exports</b> <b>c. Production</b> <b>(With Names, Designation &amp; Addresses)</b>	a. Rohit Patel (sr. Manager — Lighting RU) b. Rohit Patel (Sr. Manager — Lighting BU) c. Subarao Cheeday — Manager
<b>8. E-mail</b>	rohit.patel@anchor-world.com, subarao.cheeday@anchor-world.com

# Panasonic

A WIDE RANGE OF EXPERIENCES  
AWAIT TO BRIGHTEN YOUR LIFE.



## COMPLETE LED LIGHTING SOLUTIONS



### SAFETY



Surge Protection



Wide Voltage Range



Fire Resistance

### COMFORT



Low Glare



Uniform Lighting

### LONG LIFE



Consistent Light Output



Better Heat Dissipation

IEC Standards 60598 (Safety) & 61347 (Performance)

For more information visit : [panasonic.net/ecosolutions/lighting/in/](http://panasonic.net/ecosolutions/lighting/in/)



## HPL ELECTRIC & POWER LTD.

Corporate Office : 1/21, Asaf Ali Road, New Delhi 110 002

Tel: 011 23234411, 23236811, Fax: 011 23232639

Website: www.hplindia.com, E-mail: hpl@hplindia.com

### COMPANY PROFILE:

HPL Electric and Power Limited ("HPL"), a multi-product electric equipment company, is an established player 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 centres, with over 100 engineers for designing & developing modern products. The R&D Centres 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, Lighting Equipment and Wires & Cables. HPL has over 90 branch offices and representative offices spread across India with over 2,000 authorized dealers who sell our products to over 12,000 retailers. HPL has a manpower team comprising over 1,900 people and also has presence overseas. HPL's products have been certified to conform to Indian and International standards such as ISI, CE and KEMA.

### ESTABLISHED:

<b>1. Business Domain</b>	Low voltage switchgear & Protection Devices, Electronic Energy Meters & Energy Management Systems, CFL, LED Lighting, Indoor and Outdoor Luminaries, MHL Lamps etc....
<b>2. Product Brand</b>	HPL
<b>3. Manufacturing Facilities</b>	HPL has 6 manufacturing facilities, located at Gurgaon, Kundli, Sonapat, Gharaunda in Haryana, and Jabli in Himachal Pradesh. Factories are ISO 9001 certified and are well - equipped with latest technology to manufacture products conforming to the latest Indian and international standards
<b>4. No. of Employees</b>	Over 1900
<b>5. CMD / Directors</b>	This group is a family-managed group of companies and headed by Mr. Lalit Seth, CMD, Mr. Rishi Seth, JMD, and Mr. Gautam Seth, JMD.
<b>6. Contact Persons for</b> <b>a. Business Development</b> <b>b. Exports</b> <b>(With Names, Designation &amp; Addresses)</b>	<b>a.</b> Mr. Gautam Seth <b>b.</b> Mr. Rishi Seth
<b>7. Regional Offices –</b> <b>Contact person / address</b>	<b>West:</b> 2H, Rushabh Chambers, 2nd Floor, Off-Makwana Road, Near Rubi Hotel Marol, Andheri E, Mumbai - 400 059, Tel: 022 61830810/11/12/13/14, Fax: 022 28528181, E-mail: mumbai@hplindia.com  <b>South:</b> Amar Sindur, S-4, 2nd Floor, No 43, Pantheon Road, Egmore, Chennai - 600 008, Tel: 044 28551530, 28551537, Fax: 044 42638243, E-mail: chennai@hplindia.com  <b>East:</b> 69, Ganesh Chandra Avenue, India House, 7th Floor, Block C, Kolkata - 700 013, Tel: 033 65394379, Fax: 033 22252716 E-mail: calcutta@hplindia.com
<b>8. E-mail</b>	hpl@hplindia.com



# HPL GLO

## LED Bulb

Brightness that  
lasts on and on,  
illuminating every  
corner of your life.

Upto **20W** | **LOW HEAT**  
generation | **15,000hrs** \*\*  
*Extra long life*



LED Bulb



Downlighter



LED Panel



Highbay



Street Light

\*Nearest GLS equivalent/Guide only.

\*\*@2.7 hrs usage/day.



long life  
15,000hrs\*\*

ECO  
light  
solution



maintenance free



compact & sleek  
design

When it comes to LED lighting technology, there is no better alternative than HPL. The most elegant range of LEDs: low on power consumption, low on maintenance and with customer satisfaction.

### FEATURES:

- SMD LED's for good quality illumination and longer life
- Extruded aluminium heat sinks with specially designed fins
- Superior quality diffuser for glare free distribution
- Constant current drivers
- Highly efficient metal core PCB

**Ab roshan  
ho khushiyaan**



**LED  
Lighting**

hpl@hplindia.com | Ph.: +91-11-23234411, 23234811

www.hplindia.com



**COMPANY PROFILE**
**ESTABLISHED:**

<b>1. Business Domain</b>	LIGHTING
<b>2. Product Brand</b>	CEMA
<b>3. Manufacturing Facilities</b>	Factory At Limbasi, Gujarat
<b>4. Products Manufactured</b>	Incandescent Lamp, Fluorescent Tube Lights, Hid , Halogen, Ballasts & Luminaires, LED Lights
<b>5. Other Products Traded</b>	LED lamps, LED luminaires, commercial luminaires, CFL
<b>6. Details of Exports (Products/countries/value etc.)</b>	Export To European & South Asian Countries
<b>7. No. of Employees</b>	650
<b>8. Directors and their contact details (phone, e-mail, location etc)</b>	1. Mr. Sabu Krishnan 2. Mr. Nandakumar C 3. Mr. K N Devdas
<b>9. Contact Persons for</b> <b>a. Business Development</b>  <b>b. Exports</b>  <b>c. Production</b> <b>(With Names, Designation &amp; Addresses)</b>	<b>a &amp; b.</b> Mr. Nandakumar Mob: +91-9895759269 nandakumar@cemalighting.com  <b>c.</b> Mr. K N Devdas Mob: +91-9825600659 kn.devdas@cemalighting.com
<b>10. E-mail</b>	nandakumar@cemalighting.com

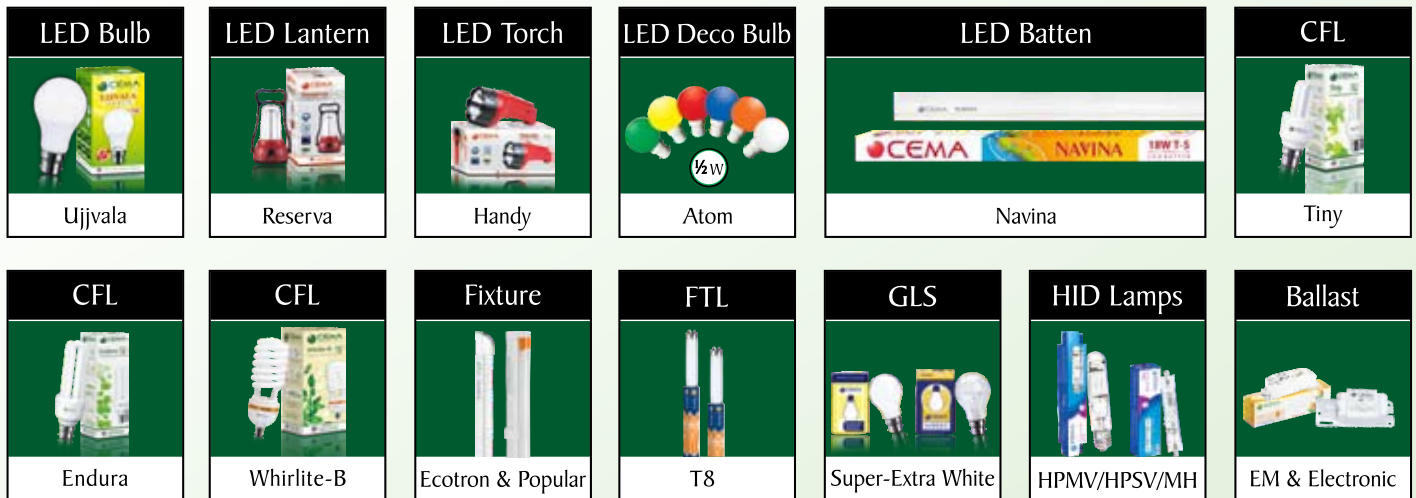


# CEMA

INSPIRING EXCELLENCE



A SARATOGA USA  
GROUP COMPANY



Compact Fluorescent Lamps | Fluorescent Tubular Lamps | Rechargeable LED Lantern & Torch | LED Batten | Light Fixtures  
Incandescent Lamps | Metal Halide Lamps | HID Lamps | Ballasts | Halogen Lamps | LED Lamps

## EPOCH™

PREMIUM LED LIGHTING



A SARATOGA  
USA BRAND

Brought to India by



Introducing EPOCH, a premium lighting brand brought to India by CEMA Lighting. Our lights are assembled in India using the best LED chips from around the globe. An EPOCH LED Light purchase today will translate into energy savings for years to come.

CEMA ELECTRIC LIGHTING PRODUCTS INDIA PVT. LTD.

Corp. Office : 34/389 B & C, Mullassery, Padivattom, Edappally PO, Cochin - 682 024, Phone : +91 484 2809 341/42.

South Asia Sale Office : #251, 2nd D Cross, Domlur 2nd Stage, Bangalore - 560 071, Phone : + 91 80 3248 9490, [www.cemalighting.com](http://www.cemalighting.com)

## ATCO CONTROLS (I) PVT. LTD.

38B, Nariman Bhavan, Nariman Point, Mumbai - 21  
Tel: +91-22-2202 5528, Fax: +91-22-2202 2304, E-mail: sales@atcocontrols.com

### COMPANY PROFILE

ESTABLISHED: 1996

<b>1. Business Domain</b>	Electrical and electronic components for the lighting industry viz. LED modules, LED Drivers, Electronic dimmable and non dimmable ballasts, lighting control systems, emergency lighting solutions, magnetic ballasts for HID
<b>2. Product Brand</b>	ATCO, TRIDONIC
<b>3. Products Manufactured</b>	Magnetic Ballasts in India, all other products produced in Austria, UK, China
<b>4. No. of Employees</b>	33
<b>5. Contact Persons for</b> <b>a. Exports</b> <b>b. Production</b> <b>(With Names, Designation &amp; Addresses)</b>	<b>a. Mr. Bhavin Soonderji</b> <b>b. Alok Singh</b>
<b>6. E-mail</b>	sales@atcocontrols.com

# OUR PRODUCT SELECTION IS AS BRIGHT AS THE SPECTRUM ITSELF.

[www.tridonicatco.com](http://www.tridonicatco.com)

Tridonic-Atco control gear and lighting management technology provide a colourful spectrum of solutions to our customers. A combination of reliable tried and tested products with a strong technical and service support provide a brilliant and dynamic solution for every kind of lighting. For our customers, this means durable products with safety and reliability in mind. For more products please visit our website [www.tridonicatco.com](http://www.tridonicatco.com)

a world of bright ideas®

**TRIDONIC.ATCO**

Power supply units



powerCONTROL PQI



OM PAK



D61



D96

Control gear for high pressure discharge lamps



powerCONTROL PQI



POWERIS



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EM PRO / SELFTEST



EM BASIC



PC COMBO



PC COMBO-CONNECT



Batteries

Emergency lighting modules for fluorescent lamps



PCA EXCEL one-tail



PCA ECO



DSI control gear



DALI control gear



w/DIMmerSet

Digital Dimming

Control gear for fluorescent lamps



PC PRO



PC INDUSTRY



PC PRO sr



PC BASIC



EC

LED modules and control gear



powerLED EOS



powerLED chains



powerLED strip modules



speedLED



powerLED control gear

Transformers



TE one-tail



TE speedy



TE-DC



TMDD



OMTA

Connection technology



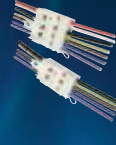
SKL 3/5



Concut



SDK 3/5/8



LBK



ZRM terminals

Atco Controls (India) Pvt. Ltd - 38B Nariman Bhavan - Nariman Point - Mumbai, 400 021, India

Tel. +91 22 2202 5528 - Fax +91 22 2203 2304 - E-Mail: [sales@atcocontrols.com](mailto:sales@atcocontrols.com)



## COMPANY PROFILE

ESTABLISHED: 1958

<b>1. Business Domain</b>	Manufacturer of Electrical, Lighting Products
<b>2. Product Brand</b>	EON
<b>3. Manufacturing Facilities</b>	State-of-the-art-plant for manufacture of Electrical and Lighting Products at Plot No. 10, Sector 4, SIDCUL Industrial Area, Haridwar
<b>4. Products Manufactured</b>	LED Lighting products including LED Street Lights, LED Bulbs, LED Tubes, LED Panels Lights etc., Lithium Ion Batteries, Fans, Geysers, Wires & Cables, Electrical Switchgear, MCBs etc.
<b>5. Other Products Traded</b>	Small quantity / variety of above mentioned products.
<b>6. Details of Exports (Products/countries/value etc.)</b>	Exports to Middle East and other South East Asian countries
<b>7. Annual Turnover (2015-16)</b>	Rs. 175 crores
<b>8. No. of Employees</b>	500 +
<b>9. Directors and their contact details (phone, e-mail, location etc)</b>	<ol style="list-style-type: none"> <li>Mr. V.P. Mahendru, Chairman – Managing Director Email: vpmahendru@eonelectric.com</li> <li>Mr. Vivek Mahendru, Executive Director, Email: vivekm@eonelectric.com</li> <li>Mr. Vinay Mahendru, Executive Director, Email: vinaym@eonelectric.com</li> </ol>
<b>10. Contact Persons for</b> <b>a. Business Development</b> <b>b. Exports</b> <b>c. Production</b>	<ol style="list-style-type: none"> <li>Mr. Anil Mujoo, VP, Sales &amp; Marketing B-88, Sector 83, Noida, Tel: 0120 - 3096700</li> <li>Mr. Anil Mujoo, VP, Sales &amp; Marketing B-88, Sector 83, Noida, Tel: 0120 - 3096700</li> <li>Mr. S.K. Manna, Operation Head Plot No. 10, Sector 4, IIE, SIDCUL, Haridwar, Tel: 01334 - 63207</li> </ol>
<b>11. Regional Offices – Contact person / address</b>	<p><b>Mr. Praveen Pareek</b>, 304, 3rd floor, Blue Cross Chamber, Infantry Cross Road, Bangalore – 560001, Mobile: 90351 97021</p> <p><b>Mr. Vinod Kurian</b>, 5th Floor, JB Manjooran Estate, Door No: 50/1107/A-13, Edappally, Railway Station Road, Edappally Bye Pass Junction, Kochi-682024 Mobile : 97450 31800</p> <p><b>Mr. M.V. Dani</b>, 709-710, Akik Towers, Opp:-Rajpath club, S.G. Highway, Ahmedabad – 380054, Mobile: 99090 08700</p> <p><b>Mr. Ankur Saraswat</b>, 529, 5th Floor Alankar Plaza, A -10, Central Spine, Vidhyadhar Nagar, Jaipur – 302023, Mobile: 99297 08140</p>
<b>12. Any other information</b>	Manufacturer, Exporter, Distributor and Trader of Electrical & Lighting Products
<b>13. E-mail</b>	corporate@eonelectric.com



Our  
Core  
Values

# WE

Innovate

Deliver  
Promise

Learn

Care

From an enterprise formed in 1958 by a young group of technocrats, **EON Electric Limited** (Formerly known as Indo Asian) has grown into a multi-product, multi-location company specializing in manufacturing and marketing a wide range of high-tech electrical products used for power distribution, protection, control and conservation of electrical energy ensuring their long life.

The foundation of the company's growth over the last 55 years is a deep understanding of economic stimuli and customer needs, and the ability to translate them into customer satisfaction through EON's leading edge R&D team, highly qualified technical Managers and strong workforce of quality conscious, superbly trained personnel. We strongly believe and adopt the technology for tomorrow & our products stand testimony to this. EON Electric Limited is all set to scale new heights of growth, excellence and worldwide acceptance.

**LED LIGHTING | FANS | MOBILE ACCESSORIES | WATER HEATERS | WIRES & CABLES**

**COMPANY PROFILE:** Halonix Technologies Pvt. Ltd. is amongst India's fastest growing residential and institutional lighting companies.

The products retail under the brand name *Halonix*. Over the years, this name has become synonymous with quality, thanks to the company's unwavering focus on research and development. At the core of the brand is an inherent responsibility towards both the consumer and the environment. Halonix products are the result of market intelligence, cutting-edge technology and innovation.

The company has fully integrated, state-of-the-art manufacturing facilities at Haridwar. Its product offering includes LED lamps, LED luminaires, CFL, FTL, Halogen lamps and High Intensity Discharge Lamps. Halonix has state-of-the-art manufacturing facilities and has been accredited with ISO 9001, ISO 14001. It is also OHSAS 18001 certified. It has dedicated R&D team with a fully equipped state-of-the-art laboratory that tests and develops products tailor-made for India. Products undergo stringent tests in its own NABL accredited test labs.

Halonix has a pan India presence and takes its relationship with the trade seriously. Our distribution network has the backing of 23 depots, 4 regional offices and a sales representative in almost every city in the country. Today dealers across the country are a part of the Halonix family and happy to put their weight behind the products. As a brand that stands for 'The Right Light', Halonix continues to push the boundaries to develop better solutions across the spectrum of home and commercial lighting.

#### ESTABLISHED:

1. Business Domain	Lighting
2. Product Brand	Halonix
3. Manufacturing Facilities	@Haridwar
4. Products Manufactured	CFL, HID, T5, LED, LED Luminaires
5. Other Products Traded	Raw material
6. No. of Employees	293 Nos.
7. Directors and their contact details (phone, e-mail, location etc)	Mr. Rakesh Zutshi, Tel: 0120-4756100, Email: rakesh.zutshi@halonix.co.in, B-31, Noida phase-2
8. Contact Persons for a. Business Development b. Exports c. Production (With Names, Designation & Addresses)	a. Mr. Sameer Jindal, Head-Institutional Sales, Tel: 09999159666, Email: sameer.jindal@halonix.co.in Mr. Manish Jha, Head-Trade Sales, Tel: 09999371861, Email: manish.jha@halonix.co.in b. NA c. Mr. Prabhakant Shukla, VP-Production, Tel: 09997297111, Email: prabhakant.shukla@halonix.co.in
9. Regional Offices – Contact person / address	<b>Mumbai:</b> Halonix Technologies Pvt. Ltd. B-403/404, Kemp Plaza, off link Road, Nnear Mind Space, Malad-West, Mumbai-400064, Tel: 022-31903472, 42646362 Mr. Chandan Kr Sharma, AGM – Retail Sales, Tel: 09694083175, Email: chandan.sharma@halonix.co.in Mr. Nehal Shah, Tel: 09820401711, Email: nehal.shah@halonix.co.in Mr. Wazir Alam, AGM – Institutional Sales, Tel: 8130497309, Email: wazir.alam@halonix.co.in <b>Bangalore:</b> No.6, "Legacy" 1st Floor, Convent Road, Richmond Town Bangalore – 560025, Karnataka Tel: +91-080-22113142, 080-41125296 Mr. Mukul Gupta, AGM – Retail Sales, Tel: 08884023838, Email: mukul.gupta@halonix.co.in Mr. Rajesh V, Tel: 099868333237, Email: rajesh.v@halonix.co.in Mr. Wazir Alam, AGM – Institutional Sales, Tel: 8130497309, Email: wazir.alam@halonix.co.in <b>Kolkata:</b> 67B Ballygunj, Circular Road, Ballygunj Park, Tower 9Th Floor, Kolkata – 700019 Mr. Sanjeev Mishra, AGM – Retail Sales, Tel: 08336923370, Email: sanjeev.mishra@halonix.co.in Mr. Sumit Mukherjee, Tel: 09830824118, Email: sumit.mukherjee@halonix.co.in
10. E-mail	customercare@halonix.co.in

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**CFL**



**HID**



**LED DOWNLIGHT**



**LED FLAT PANEL**



**LED STREET LIGHT**



**LED BATTEN**

### Halonix Technologies Pvt. Ltd.

B-31, Phase-II, Noida, Dist. Gautam Budh Nagar, (U.P), Pin Code - 201305 | Tel.: +91-120-4756100 | Fax: +91-120-4756101  
Toll Free No.: 1800-103-6564 | E-mail: [customer@halonix.co.in](mailto:customer@halonix.co.in) | Website: [www.halonix.co.in](http://www.halonix.co.in)



**JAQUAR**

Plot No.3, Sector – 11, Manesar, Gurgaon - 122050, INDIA  
Tel: 9810716904, Email: mohit.sharma@jaquar.com

**COMPANY PROFILE:****ESTABLISHED:**

<b>1. Business Domain</b>	LED Lighting
<b>2. Product Brand</b>	Jaquar
<b>3. Manufacturing Facilities</b>	Manesar, Chopanki
<b>4. Products Manufactured</b>	Decorative, LED bothers, Outdoor LED
<b>6. Details of Exports (Products/countries/value etc.)</b>	Chandiolers, Middle East
<b>8. No. of Employees</b>	150
<b>10. Contact Persons for</b> <b>a. Business Development</b> <b>b. Exports</b> <b>c. Production</b> <b>(With Names, Designation &amp; Addresses)</b>	a) Mohit Sharma, Business head b) - do - c) Salil Kulshrestha
<b>13. Email</b>	mohit.sharma@jaquar.com

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NEW DELHI | PUNE | RAIPUR | SILIGURI | SURAT**

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**E-mail: [ccare.lighting@jaquar.com](mailto:ccare.lighting@jaquar.com)**



## GE INDIA INDUSTRIAL PVT LTD (GE LIGHTING)

7th Floor, Summit B, 73/1, Brigade Metropolis, Whitefeild Road

Garudachar Palya, Mahadevapura Post, Bangalore 560048

Tel: 0804908023, Fax: 08049308800/8027, E-mail: gelighting.marketing@ge.com

### COMPANY PROFILE

ESTABLISHED: APRIL 15TH 1892

1. Business Domain	Lighting
2. Product Brand	GE Lighting
3. Manufacturing Facilities	India
4. Products Manufactured	Luminaire, lamps, drivers and ballast
5. No. of Employees	132
6. Directors and their contact details (phone, e-mail, location etc)	GE Lighting is a subsidiary of GE India Industrial Pvt Ltd
7. Contact Persons for a. Business Development b. Exports c. Production (With Names, Designation & Addresses)	Email: gelighting.marketing@ge.com
8. Regional Offices – Contact person / address	GE India Industrial Pvt. Ltd (Lighting) 7th Floor, Summit B, 73/1 Brigade Metropolis, Whitefeild Road Garudachar Palya, Mahadevapura Post, Bangalore 560048
9. E-mail	gelighting.marketing@ge.com

#### COMPANY PROFILE:

Keselec Schröder Private Limited, an Indo – Belgian Joint venture, is amongst the established brands in the lighting space with over six decades of experience in designing, manufacturing & offering a wide range of lighting solutions to its customers in the Indian subcontinent. The company is headquartered in Delhi and has a production plant in Faridabad. The company, which is a specialist in lighting of Public spaces has to its credit lighting of many prestigious and major installations in the country. The Schröder Group, which has presence in more than 40 countries, are experts in the design and development of outdoor lighting solutions counts Grand Place in Brussels, Champs Elysees in Paris, the Coliseum in Rome, the Square of the Three Powers in Brasilia and the Bund in Shanghai among its many references.

#### ESTABLISHED:

<b>1. Business Domain</b>	Lighting Solutions & Controls
<b>2. Product Brand</b>	Keselec Schröder
<b>3. Manufacturing Facilities</b>	55, Industrial Area, NIT, Faridabad 121001
<b>4. Products Manufactured</b>	LED & HID luminaires, Control Products, Poles & Brackets
<b>5. Details of Exports (Products/countries/value etc.)</b>	LED & HID luminaires, Control Products, Poles & Brackets
<b>6. No. of Employees</b>	60
<b>7. Directors and their contact details (phone, e-mail, location etc)</b>	Narayan Kumar, Marketing Director Amit Sen, Sales Director
<b>8. Contact Persons for a. Business Development b. Exports c. Production (With Names, Designation &amp; Addresses)</b>	a. Narayan Kumar, Marketing Director b. Amit Sen, Sales Director
<b>9. Regional Offices – Contact person / address</b>	<b>North:</b> 210 Charmwood Plaza, Eros Garden Colony, Charmwood Village, Surajkund Road, Faridabad 121 009 India. Tel: 0129 4117 388 <b>South:</b> Level 1A-18/36, Karpagambal Nagar, Mylapore Chennai 600 004 India. Tel: 9381090118 <b>West:</b> 101-104/135, GCP Business Centre, Opp Memnagar fire station, Vijay Cross Road, Ahmedabad 380001, Gujarat, India. Tel: 9376239433
<b>10. E-mail</b>	info@schreder.co.in



**COMPANY PROFILE:** Fulham is a leading global provider of intelligent, sustainable commercial lighting components and electronics for use in parking structure, signage, horticultural, uv and other applications. The company develops and manufactures a variety of award-winning led and emergency products, as well as legacy products across multiple lighting platforms. Fulham sells its lighting solutions worldwide through original equipment manufacturers (oems) and electrical equipment distribution channels. Headquartered in Hawthorne, California, the company has sales and/or manufacturing facilities in London, China, India and The United Arab Emirates.

**ESTABLISHED:** 2011

<b>1. Business Domain</b>	Manufacturing
<b>2. Product Brand</b>	Fulham
<b>3. Manufacturing Facilities</b>	Pune
<b>4. Products Manufactured</b>	Led Drivers, Led Modules, Electronic Ballasts & Induction Systems
<b>5. Details of Exports (Products/countries/value etc.)</b>	Led drivers, Electronic Ballasts & AC led modules to USA, Middle East & China
<b>6. No. of employees</b>	250
<b>7. Directors and their contact details (phone, e-mail, location etc)</b>	<ol style="list-style-type: none"> <li>Mr. Gautam Malkani, Email: gmalkani@fulham.com</li> <li>Mr. Subrata Ghose, Email: sghose@fulham.com</li> <li>Mr. Moti Malkani, Email: motibm@multilighting.in</li> <li>Mike Bauer, Email: mbauer@fulham.com</li> <li>Harry Libby, Email: hlibby@fulham.com</li> </ol>
<b>8. Contact Persons for a. Business Development b. Exports c. Production (With Names, Designation &amp; Addresses)</b>	<ol style="list-style-type: none"> <li>Biju John</li> <li>Gautam Malkani</li> <li>Subrata Ghose</li> </ol>
<b>9. Regional Offices — Contact person / address</b>	<p><b>West</b> - 343, Kaliandas Udyog Bhavan, Sadanand Tandel Marg, Century Bazaar Lane, Prabhadevi, Mumbai - 400025 Mr. Subhabrata Mukherjee, Tel: +91 9167608650</p> <p><b>North</b> - Office no. 610, T.C. Jaina Tower-1, Janakpuri District Center, Near Janakpuri west metro station, New Delhi - 110058 Mr. Rakesh Ranjan Kumar, Tel: +91 9811692428</p> <p><b>South</b> - F-11, Surya Mansion, Surva Layout, KR Puram, Bangalore - 560036. Mr. A.R. Seshagiri, Tel: +91 8971632092</p> <p><b>OEM Sales</b> - Survey No. 26/3, Village Narhe, Taluka - Haveli, Dist. Pune - 411041 Mr. Shekar Kapadne, Tel: +91 9823669269</p>
<b>10. E-mail</b>	sratti@fulham.com

## HARMILAP ROSHNI LIMITED

B-1, LGF, Vivek Vihar, Phase-II, Delhi-110095 (India)  
Tel: 011-22392299, E-mail: harmilaproshnilimited@rediffmail.com

**COMPANY PROFILE:** Harmilap Roshni group is one of the leading Manufacturer / Traders of Quality GLS Lamps & its components. Harmilap Roshni group is expanding under the leadership of Mr. Vijay Gupta, who is having vast experience of more than 35 years in the line of activity.

Our branch network spreads in states of Delhi, Uttar Pradesh, Haryana, Rajasthan & Gujarat.

The group is having its manufacturing plant under the name of its associate concern PHOTON LIGHTING INDUSTRIES at Nadiad, Gujarat. In the small scale sector we are the first who is having High Speed Hungarian/Taiwan Chains.

We are also manufacturing Quality GLS Lamps for some highly reputed Multi-national Companies in their brand name.

### ACHIEVEMENTS:

- 1) All our Units are ISO Conferred (ISO 9001 :2000).
- 2) Our key man and Managing Director Mr. Vijay Gupta was conferred with the award of "SELF MADE INDUSTRIALIST" in recognition of his Initiative, Hard Work & Self Reliance in June 2005, by The Institute of Trade & Industrial Development' by the Minister of Rural Development, GOVT. OF INDIA, at a public function.
- 3) We regularly participate in many Exhibitions in India, specially Light India International Exhibition organized by Indian Society of Lighting Engineers in NEW DELHI.
- 4) We have a full marketing setup in NORTH-EAST Region of India with our own branches.
- 5) Obtained the first allotment letter by Smt. Shiela Dixit the Hon'ble Chief Minister of DELHI & NCT under Relocation Division of Industrial Plot in 2006.

**ESTABLISHED:** 1982

1. Business Domain	GLS Lamps, FTL
2. Product Brand/License User	1. LAXMAN, 2. ECE, 3. LUXEM
3. Manufacturing Facilities	Four Hungarian/Taiwan GLS Lamp Chains having total production capacity 40 Lac lamps per month
4. Products Manufactured	GLS Lamps upto 200W
5. Directors	Mr. Vijay Gupta Mr. Ashwani Dewan
6. Contact Persons for business development & Exports	Mr. Vijay Gupta E-mail: vijayharmilap@hotmail.com
7. Any other information	Mr. Vijay Gupta, MD, started the business in a modest way and gradually achieved goals as set from time to time. With his abilities and confidence he obtained license from "Sylvania & Laxman" to produce and market "Laxman" brand lamp. The company, today manufactures good quality GLS Lamps which has resulted to getting ancillaries put for various brands in India. A new plant was put up in 2006 in Gujrat.
8. E-mail	harmilaproshnilimited@rediffmail.com

## MERCURY LAMPS (P) LTD.

Industrial Area, Dhalwala, Rishikesh-249201 (Uttarakhand)  
Corporate Office: 64, Laxman Jhoola Road, Rishikesh- 249201  
Tel: 0135-(O) 2430168, 2432168 Fax: 2432198

### COMPANY PROFILE

#### ESTABLISHED:

1. Business Domain	All India
2. Manufacturing Facilities	Fully automatic plant
3. Products Manufactured	GLS Lamps ranging 25W to 200W/LED Lamp
4. Details of Exports (Products/countries/value etc.)	GLS Lamps ranging 25W to 200W/LED Lamp
5. Annual Lighting Turnover	Rs. 7.00 crores (Approx.)
6. No. of Employees	100 nos.
7. Directors and their contact details (phone, email, location etc)	1. Sri. V.K. Agarwal, Director 2. Smt. Shobha Rani Agarwal, Director
8. Contact Persons for a. Business Development b. Exports c. Production (With Names, Designation & Addresses)	Mr. S.K. Bansal, Director -do- -do- 64 , Luxman Jhoola Road, Rishikesh-249201
9. Email	mlprishikesh@gmail.com; mercurylampspvtltd@gmail.com



(Consumer Care & Lighting Division)  
(ESTABLISHED : 1946)

**Wipro Enterprises Private Limited** comprises of two main business namely Wipro Consumer Care and Lighting which is into Personal Care products, Lighting Products, Office furniture and Wipro Infrastructure. Engineering business, which provides hydraulic Solutions for a wide range of applications including Aerospace & Defense and complete end to end solutions in Water & Waste water Treatment for industrial applications.

**Wipro Consumer Care and Lighting (WCCLG)**, a part of Wipro Enterprises Private Ltd, is among the fastest growing FMCG businesses in India. WCCLG's businesses include Personal Wash Product, Toiletries, Personal Care Products, Baby Care Products, Wellness Products, Domestic & Commercial Lighting, Electrical Wire Devices and Modular Furniture. It has a strong brand presence with significant market share across segments in India, South East Asia and the Middle East

The acquisition of Unza, Yardley and LD Waxsons has given WCCLG a global footprint. Its key brands include Santoor (a toilet soap brand with extensions in personal care), Chandrika, Glucovita Glucose powder, Northwest Switches, Enchanteur (a female toiletry brand), Romano (a male toiletry), Bio Essence (a skincare brand), Yardley (a luxury toiletry brand) and Garnet (Consumer LEDs). In the B2B segment in India, WCCLG has established itself as a leader in commercial lighting, indoor lighting, office modular furniture & modular switches.

<b>1. Business Domain</b>	Domestic Lighting Products, Commercial& Industrial Lighting including luminaries, LED's and Green Lighting, Electrical Wiring Accessories and Devices, Electronic Security Systems, lighting Control & Automation, Office Furniture & Seating
<b>2. Product Brand</b>	Garnet (LED), Wipro Smartlite Compact Fluorescent Lamps (CFL), Wipro Safelite (GLS lamps), North West (Electrical Wiring Accessories & Devices), Startline & I'M furniture, X-Bench, Pause & Elate seating
<b>3. Manufacturing Facilities</b>	Waluj (Maharastra), Mysore (Karnataka), Baddi (H.P), Haridwar (Uttaranchal)
<b>4. Products Manufactured</b>	Light Emitting Diode-LED, Energy Saving Light Sources-CFL- Retrofit and non-retrofit, Fluorescent Tube Light-FTL, General Lighting Service Lamps-GLS, Modular Switches, Miniature Circuit Breakers-MCB's and Modular Office Furniture & Seating
<b>5. Other Products Traded</b>	Consumer Luminaires, Electronic Ballasts, Industrial Luminaries and electronic security products
<b>6. Details of Exports (Products/countries/value etc.)</b>	Middle East – LED/FTL/CFL/Consumer Luminaires
<b>7. No. of Employees</b>	8300 (for WCCLG)
<b>8. Directors</b>	Mr. Azim Premji Mr. Vineet Agrawal Mr. Pratik Kumar Mr. Rishad Premji
<b>9. Contact Person for a. Business Development b. Exports c. Production (With Names, Designation &amp; Addresses)</b>	Mr. Sanjay Gupta, Vice-President, Wipro Enterprises Ltd. C Block, Doddanakannelli, Sarjapur Road, Bangalore – 560035
<b>10. Regional Offices – Contact person / address</b>	<b>North:</b> Wipro Enterprises Ltd., E-40/7 Okhla industrial area, Phase 2, New Delhi-110020 <b>North:</b> Wipro Enterprises Private Ltd., E-40/7 Okla industrial Area, Phase 2, New Delhi-110020 <b>South:</b> Wipro Enterprises Private Ltd., No139, #rd Cross N S Palya, off Bannerghata Road, Bangalore-560076 <b>East:</b> Wipro Enterprises Private Ltd., #3 Pretoria Street, 3rd Floor, Kolkata-700071 <b>West:</b> Wipro Enterprises Private Ltd., Unit No 611-615, 6th Floor Commodity Exchange, Sector-19, Vashi, New Mumbai-400705
<b>11. E-mail</b>	sanjay.gupta5@wipro.com

Wipro Enterprises Private Ltd.,C Block, 2nd Floor, Doddakannelli, Sarjapur Road, Bangalore - 560035  
Tel: 080 - 28440011, Email: sanjay.gupta5@wipro.com



# NTL LEMNIS INDIA PVT. LTD

A111, Sector 65, Noida 201301, INDIA,

Tel: +91-120-4008888 Fax: +91-120-4281822, E-mail: info@ntl-lemnis.com



**COMPANY PROFILE:** NTL Lemnis designs, manufactures and sells energy efficient LED lighting solutions for Indian as well as the global audience. NTL Lemnis produces a complete range of energy efficient LED lighting products under the umbrella of the globally acclaimed brand Pharox. Pharox product portfolio offers innovative solutions for Home, Indoor Commercial, Industrial & outdoor lighting applications and has over 250 types of LED lighting products to service all requirements.

NTL Lemnis exploits the global design, production and distribution strengths to deliver innovative solutions for Home & Commercial lighting globally. NTL Lemnis primarily focuses on the geographical markets of Europe, Africa and Asia with company offices in Netherlands, South Africa and India.

NTL Lemnis is credited with creating the first LED lamp in the world, a true replacement of an incandescent bulb, and also the 1st LED lamp for India which works perfectly on Indian Power conditions.

The company's USP is its ability to develop and manufacture products, which are direct replacements of traditional lighting solutions, at market acceptable prices, without compromising on the quality of light. The Company's primary focus is on the industries that are typical energy guzzlers.

NTL Lemnis is focused on creating an effective sales and distribution network across the country so that its entire range can be made available directly to the end consumer and is one of the major partners to Government initiatives to make mass adoption of LED bulbs possible.

ESTABLISHED: 2012

<b>1. Business Domain</b>	LED Lighting Products & Solutions
<b>2. Product Brand</b>	PHAROX
<b>3. Manufacturing Facilities</b>	6 manufacturing units located in Noida, Dehradun & Roorkee
<b>4. Products Manufactured</b>	LED lighting products: LED Lamps, LED Tube lights, LED Down Lights, LED Ceiling Lights, LED Bay Lights, LED Street lights, LED Flood Lights, LED Well Glass, LED spot lights, LED Flexible trip & LED Drivers
<b>5. Details of Exports (Products/countries/value etc.)</b>	LED lighting products to South Africa, Europe and Asia
<b>6. No. of Employees</b>	Over 3000 employees (part of the NTL Electronics Group)
<b>7. Directors and their contact details (phone, e-mail, location etc)</b>	1. Mr. Arun Gupta - Chairman & Managing Director 2. Mr. Praveen Gupta - Joint Managing Director 3. Mr. Tushar Gupta - Executive Director
<b>8. Contact persons for</b> <b>a) Business Development</b> <b>b) Exports</b> <b>c) Production</b> <b>(With Names, Designation &amp; Addresses)</b>	a. Mr. Tushar Gupta - Executive Director b. Mr. Tushar Gupta - Executive Director c. Mr. Vikas Agarwal, Associate Vice President
<b>9. Regional Offices</b>	<b>North:</b> Mr. Pramod Mehta A-111, Sector-65, Noida - 201301, India, Mobile: 9971127766  <b>West:</b> Mr. Vivek Tapsale Office No. 17, 18, 19, 20, 1st Floor, Satyam Arcade, Near Hotel Novotel, Nagar Road, Viman Nagar, Pune - 411014  <b>South:</b> Mr. D.K. Shaik No.2, Ground Floor, Nanjappa Road, Shanti nagar, Bengaluru - 560027, Mobile: 9743750731
<b>10. E-mail</b>	info@ntl-lemnis.com

**COMPANY PROFILE:** REIZ manufacturers Led Luminaires, Led Drivers and Led light engines in vertically integrated factories manufacturing for the past 27 years. At Reiz the core strength over the years has been a strong Electronic, Mechanical, Optical design team which is responsible for manufacturing world class Led Luminaires since the year 2004. Over the years Reiz has developed one of the largest range of Architectural Led Luminaires for Indoor and Outdoor usage backed with an un-questioned 5 year warranty.

The strong Reiz Electronic design team has lead to a wide portfolio of Led Control Gear like Analog, Phase Control, DMX Led drivers, Dc to Dc Convertors. The in house Optical, mechanical and thermal Laboratory enables the design of Led luminaires and retrofits with very high luminous efficacy and reliability, conforming to IEC norms.

Reiz supplies Led luminaries in India and abroad to Maldives, Sri Lanka, Nepal, Kuwait, Dubai, Australia, Germany, Mauritius etc.

**ESTABLISHED:**

<b>1. Business Domain</b>	LED Lighting & LED Control Gear
<b>2. Product Brand</b>	REIZ
<b>3. Manufacturing Facilities</b>	Gurgaon, Haryana
<b>4. Products Manufactured</b>	LED Indoor/Outdoor Luminaries, LED Tube Light, LED Street Light, LED Control Gear
<b>5. Details of Exports (Products/countries/value etc.)</b>	LED Luminaries- Maldives, Sri Lanka, Australia, Dubai, Kuwait
<b>6. No. of Employees</b>	100+ EMPLOYEES
<b>7. Directors and their contact details (phone, e-mail, location etc)</b>	<ol style="list-style-type: none"> <li>Mr. Atul Agarwal <a href="mailto:atul@reizindia.com">atul@reizindia.com</a></li> <li>Mr. Sidhartha Agarwal <a href="mailto:sidhartha@reizindia.com">sidhartha@reizindia.com</a></li> <li>Mr. Ravindra Agarwal <a href="mailto:ravindra@reizindia.com">ravindra@reizindia.com</a></li> </ol>
<b>8. Contact Persons for</b> <ol style="list-style-type: none"> <li><b>Business Development</b></li> <li><b>Exports</b></li> <li><b>Production</b></li> </ol>	<ol style="list-style-type: none"> <li>Mr. Ravindra Agarwal, Director Marketing</li> <li>Mr. Sidhartha Agarwal, Director Executive</li> </ol>
<b>9. Regional Offices – Contact person / address</b>	497, Udyog Vihar, Phase-III, Gurgaon, Haryana- 122016
<b>10. Any other information</b>	ISO – 9001-2008 REGISTERED IN- NSIC/MSME
<b>11. E-mail</b>	<a href="mailto:sidhartha@reizindia.com">sidhartha@reizindia.com</a>

## COMPANY PROFILE

### ESTABLISHED:

<b>1. Business Domain</b>	Manufacturing
<b>2. Product Brand</b>	b,a,g,
<b>3. Manufacturing Facilities</b>	PUNE
<b>4. Products Manufactured</b>	LED driver, LED Module, Electronic Ballast, HID, Ignitor, Light Management Systems
<b>5. Other Products Traded</b>	Luminaries, sensors, software's, HID, ignitor
<b>6. Details of Exports (Products/countries/value etc.)</b>	LED Driver, LED Module, Electronic Ballast, LED Modules Germany, Italy, Turkey, Srilanka, Honkong, Phillipines, Dubai, Singapore
<b>7. No. of Employees</b>	200
<b>8. Directors and their contact details (phone, email, location etc)</b>	1. B S Praveen, Pune b.praveen@gmail.com
<b>9. Contact Persons for</b> <b>a. Business Development</b>  <b>b. Exports</b>  <b>c. Production (With Names, Designation &amp; Addresses)</b>	a) Manoj Joshi m.joshi@gabelectronics.com b) Vitthal Hargude v.hargude@gabelectronics.com c) Sanjay Alavekar s.salavekar@gabelectronics.com
<b>10. Regional Offices - Contact person/address</b>	Manoj Joshi, Pune Survey no. 19, Yewlewadi Kondhwa Rd, Pune-44048
<b>11. Email</b>	b.praveen@gabelectronics.com

**EVEREADY INDUSTRIES INDIA LTD.**

2, Rainy Park, Kolkata- 700019

Tel: 033-24864961/30587822, Fax: 033-24864673

E-mail: lighting@eveready.co.in

**COMPANY PROFILE****ESTABLISHED:**

<b>1. Business Domain</b>	Electrical
<b>2. Product Brand</b>	Eveready
<b>3. Other Products Traded</b>	LED bulbs, battens, panels, CFL, GLS, Tubelight, Luminaires
<b>4. Contact Persons for Business Development (With Names, Designation &amp; Addresses)</b>	Chandra Bhal Rathour Product Manager-Lighting Products 2, Rainey Park, Kolkata-700019 Email: chandra.rathour@eveready.co.in
<b>5. E-mail</b>	lighting@eveready.co.in



**COMPANY PROFILE:**

DIXON is the largest EMS Company in India providing complete solutions in the field of consumer electronics, lighting, Home Appliances and mobile phones. Our capabilities include product design, sourcing, manufacturing, assembling, logistics and reverse logistics. We are also the only EMS company in India with full backward integration into plastic moulding and sheet metal. Our group companies today have employed more than 6000 people across factories in Uttaranchal and Uttar Pradesh. Our esteemed customers include big multinationals as well as Indian companies like Philips, Panasonic, Haier, Airtel, Tatasky and Godrej.

**ESTABLISHED: DECEMBER 1993**

<b>1. Business Domain</b>	www.dixoninfo.com
<b>2. Product Brand</b>	Electronics Manufacturing Services (EMS)
<b>3. Manufacturing Facilities</b>	Noida and Dehradun
<b>4. Products Manufactured</b>	LED bulbs, LED Tube lights, Down lighter ballasts, CFL bulbs, CFL Circuits, Electronic Ballasts, LED drivers & LED lamp
<b>5. Details of Exports (Products/countries/value etc.)</b>	CFL lamp to Middle East, Europe and African countries.
<b>6. Annual Lighting Turnover (Not mandatory)</b>	Rs. 500 Crores
<b>7. No of Employees</b>	600
<b>8. Directors and their contact details (phone, e-mail, location etc)</b>	<ol style="list-style-type: none"> <li>Mr. Sunil Vachani B-22, Mayfair Garden, New Delhi -110 016 Ph: +91 120-4737200, Email: sunilvachani@dixoninfo.com</li> <li>Mr. Atul Lall 405, Nilgiri Apartment, Alaknanda, Kalkaji, New Delhi - 110019 Ph: + 91 120-4737200, Email: atullall@dixoninfo.com</li> <li>Mr. Ramesh Chandra Chopra C-21, Tarang Apartments, I P Extension, Delhi-110092</li> <li>Mr. Vishal Kumar Gupta Apartment No C 303, Ashok Garden, Tokersey Jivraj Road, Sewai, Mumbai, 400015, Maharashtra</li> </ol>
<b>9. Contact persons for</b> <b>a. Business Development</b> <b>b. Exports</b> <b>c. Production</b> <b>(With Names, Designation &amp; Addresses)</b>	<ol style="list-style-type: none"> <li>Mr. Muneesh Dhawan, Vice President</li> <li>Mr. Muneesh Dhawan, Vice President</li> <li>Mr. Vineet Mishra, Chief Operating Officer – Lighting Division</li> </ol>
<b>10. Regional Offices – Contact person/address</b>	Mr. Pankaj Sharma, B-14/15, Phase –II, Noida – 201 305
<b>11. E-mail</b>	pankaj@dixoninfo.com, muneesh.dhawan@dixoninfo.com



# SKILLED RESOURCE ENABLED INDUSTRY

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ESSCI empowers the electronics industry by providing world class skills, our certified manpower is industry ready thereby reducing the need for in-house training. We standardize the training modules to global standards and assure skill fitment to the functional roles in the industry

### OUR SERVICES

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#### TRAINING

#### CERTIFICATION

### ESSCI ADVANTAGE

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- 2 National Occupation Standards (NOS) & Qualification Packs as per industry requirement
- 3 Assessment done as per Global Standards and Certification



“ ESSCI has become a formidable force in skill development for the Electronics Sector. It has a very talented and committed set of people managing its affairs, who work closely with all stakeholders to ensure that there is a steady pipeline of skilled workforce. ”

Shantanu Das Gupta, Vice President | Corporate Affairs and Strategy-Asia South, Whirlpool

## 14 Sub-Sectors

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- IT Hardware • Industrial Electronics • Medical Electronics
- Automotive Electronics • Strategic Electronics • LED Lighting
- Solar Electronics • Active Components • Passive Components
- PCB Design • PCB Manufacturing • PCB Assembly

Contact Mr. Saleem Ahmed to enquire on ESSCI services and skill training at [info@essc-india.org](mailto:info@essc-india.org) | +91.9873707007

Electronics Sector Skill Council of India (ESSCI) | Head office: 602,604, 606,608, 6th Floor, Ansal Chamber- 2, Bhikaji Cama Place, New Delhi- 110066 | Phone: +91.11.46035050 | [info@essc-india.org](mailto:info@essc-india.org) | Follow Us @



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They also enhance the saleability of products & improve its look and feel.

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## COMPANY PROFILE

### ESTABLISHED:

<b>1. Business Domain</b>	LEDVANCE Pvt Ltd deals in wide array of Lighting products. Combining traditional and LED bulbs, modern LED luminaires and connected lighting solutions (Smart Home), the LEDVANCE portfolio is aimed at professional users and private customers alike.
<b>2. Product Brand</b>	Osram – Lamps Ledvance Osram – Luminaires
<b>3. Manufacturing Facilities</b>	LEDVANCE Pvt Ltd No. 459-B, EPIP, HSIIDC Industrial Estate, Kundli-131028 Distt. Sonapat, Haryana, India Tel: +91 130 221 71 00, Fax: +91 130 221 71 13
<b>4. Products Manufactured</b>	Lamps
<b>5. Other Products Traded</b>	Traditional & LED Lamps, Luminaires, EC
<b>6. Details of Exports (Products/countries/value etc.)</b>	Exports to Srilanka, Bangladesh & Nepal are handled from India. LEDVANCE has global footprint with presence in over 120 countries, with over 50 direct sales offices
<b>7. No. of Employees</b>	Over 9000 employees worldwide
<b>8. Directors and their contact details (Phone, E-mail, Location etc)</b>	1. Gagan Mehra, MD & CEO 2. Atul Gupta, WTD & CFO 3. Sanjay Negi, WTD
<b>9. Contact Persons for</b> <b>a. Business Development</b> <b>b. Exports</b> <b>c. Production</b> <b>(With Names, Designation &amp; Addresses)</b>	a. Puneet Kumar, ARM, p.kumar2@ledvance.com b. Vijay Bhatt, Manager Exports, vijay.bhatt@ledvance.com c. Pankaj Gupta, GM, Industrialization, p.gupta@ledvance.com
<b>10. Regional Offices – Contact person / address</b>	<b>South &amp; East:</b> Raja Sandar, r.sandar@ledvance.com <b>North:</b> Praveen Sharma, praveen.shar@ledvance.com <b>West:</b> Puneet Kumar, p.kumar2@ledvance.com
<b>11. Any other information</b>	LEDVANCE is a worldwide leader in innovative lighting products as well as intelligent and connected lighting solutions (Smart Home). The company emerged from the classical lighting business of OSRAM and combines traditional general illumination with modern, forward-looking lighting technology. The name LEDVANCE itself is a combination of the terms “LED” and “Advance”. “LED” refers to the core lighting business and the future of lighting technology. “ADVANCE” represents progress and the ambition of the company to take a leading role around the future of light. LEDVANCE has very stable, long-standing customer relationships and a powerful distribution network with excellent market access around the globe. The company employs about 9,000 people, is active in more than 120 countries, and generated revenue of around • 2 billion. LEDVANCE acts responsibly towards its customers, employees, business partners, society and the environment – at all its locations around the world.
<b>12. E-mail</b>	sachi.chhabra@ledvance.com





## ORIENT ELECTRIC

(A Division of Orient Paper & Industries Ltd.)

C-130, Sector-63, Noida-201301, Tel: (0120) 4894900

HO Address: 82, Okhla Industrial Estate, Phase-III, ND-110020, Tel: 011-40507000

### COMPANY PROFILE:

ESTABLISHED: 1978

1. Business Domain	Lighting, Fans, Home Appliances & LT Switchgear
2. Product Brand	ORIENT
3. Manufacturing Facilities	Noida, Faridabad & Kolkata
4. Products Manufactured	LED Lamps, LED Luminaires, CFL, Consumer Luminaires, Electronic Ballast
5. Other Products Traded	LED Luminaires, CFL, LED Drivers, Consumer Luminaires
6. Details of Exports (Products/countries/value etc.)	Largest exporter of fans from India. Also export of LED Lamps, CFL and Consumer Luminaires
7. No. of employees	More Than 1000
8. Contact Persons for a. Business Development b. Exports c. Production (With Names, Designation & Addresses)	Puneet Dhawan Sr. Vice President & BU Head, Lighting ORIENT ELECTRIC C-130, Sector-63, Noida - 201301
9. Regional Offices – Contact person / address	Puneet Dhawan Sr. Vice President & BU Head, Lighting ORIENT ELECTRIC C-130, Sector-63, Noida - 201301
10. E-mail	puneet.dhawan@orientelectric.com

### COMPANY PROFILE:

Spearheading the technological revolution in the 21<sup>st</sup> century, Surya has indeed come a long way from being a small steel tube making unit back in 1973. Today, it has grown into a colossal Rs. 4,000 Crore (US\$ 650 million) Indian manufacturing company, exporting products to over 48 countries across the globe.

Initiated in the year 1985, Surya's lighting division was incepted with the dream of 'Lighting Every City Every Home'. Three decades down the line, it is recognized as one of the leading brands in the Lighting industry with a market share in excess of 25%. LED technology is widely acknowledged as the future of lighting technology. At Surya we understand this fact and manufacture LEDs which ensure energy savings, lower maintenance costs and assure an impressive lifespan – distinct advantages which propel the LED revolution forward. The group presently manufactures almost all the LED products in-house with a world-class manufacturing infrastructure, at its fully integrated plants in Kashipur (Uttarakhand) and Gwalior (M.P.), supported by Surya Technology & Innovation Centre (STIC) at Noida – an advanced state-of-the-art lighting laboratory and research centre with specific focus on LED.

Today, Surya is one of the most trusted and registered brands with various Govt. departments, institutions and international buyers. In order to deliver its commitment to quality systems and environmental issue, it's all manufacturing units have obtained ISO 9001:2008, ISO 14001:2004 & OHSAS 18001:2007 certifications and products are accredited with international performance of safety standards.

One of the potential market leaders in the Steel Tube Industry in India, Surya manufactures products for agriculture, infrastructure, oil & gas and construction sectors, out of which the products for oil & gas sector are approved by API (American Petroleum Institute).

Surya has also advanced in a commendable manner in other segments such as Fans and Home Appliances, carving a niche of its own in a very short period of time. Surya is riding the wave towards a bright future with government initiatives like building smart cities across India. With increasing popularity and structural shift towards LEDs, Surya is all aimed towards a colossal growth in the time to come.

#### ESTABLISHED: 1973

<b>1. Business Domain</b>	Lighting, Fans, Home Appliances, ERW steel pipes, Helical sub-merged arc welded pipes & cold rolled strips.
<b>2. Product Brand</b>	SURYA
<b>3. Manufacturing Facilities</b>	Two state-of-the-art plants at Gwalior, one each for Light Sources and High Mast Lighting Systems/Octagonal Poles. Other plant at Kashipur for Light Sources including HID Lamps.
<b>4. Products Manufactured</b>	LED Lamps, LED Street Lights, LED Downlighters, Electronic Ballasts, CFL, T-5 Lamps, FTL, GLS, Metal Halide, HPSV, HPMV, B22 Caps, Filaments, LGT, Glass Shells for GLS Lamps, Fluorescent Tube Lamps & CFL Tubings.
<b>5. Other Products Traded</b>	LEDs, Luminaires, Octagonal Poles, High Mast Lighting System and Electronic Lighting Controls
<b>6. Details of Exports</b>	Products– LED LAMP/LED DOWNLIGHTER/CFL/GLS/FTL/SHELLS/LGT/CAPS/FITTING Countries – Europe/Latin America/SAARC/Middle East/Africa Value: Rs. 6500 Lacs approx
<b>7. No. of employees</b>	3500
<b>8. Directors</b>	Mr. J.P. Agarwal - Chairman, Mr. Raju Bista - MD, Mr. Mukesh Tripathi - Director
<b>9. Contact Persons for: a Business Development b Exports c Luminaires &amp; High Mast</b>	Mr. Ramanjit Singh - CEO Mr. A. Ghosh, DGM - Exports Mr. V. Sen, VP – LBG
<b>10. Regd. Office- Contact person/address</b>	<b>Head Office:</b> Padma Tower -1, 2nd Floor, Rajendra Place, New Delhi- 110008 Tel: 011-47108000/25810093-96, Fax: 011-25789560 <b>Regd. Office:</b> Prakash Nagar, Sankhol, Bahadurgarh, Haryana – 124507, Tel: 01276-241540/41 <b>Contact Person:</b> R.K. Jaggi, President (Lighting)
<b>11. E-mail</b>	<a href="mailto:ramanjit.singh@surya.in">ramanjit.singh@surya.in</a> , <a href="mailto:aghosh@ho.surya.in">aghosh@ho.surya.in</a> , <a href="mailto:v.sen@ho.surya.in">v.sen@ho.surya.in</a> , <a href="mailto:rkjaggi@mlnl.surya.in">rkjaggi@mlnl.surya.in</a>



# What is the key to an intelligent city?

resource  
allocation

balancing  
budget

security

maintenance  
& operations

## Turn on intelligence to take on challenges

Cities face some tough and costly challenges. But intelligent solutions to those challenges are closer than you think. GE's solution uses LED street lighting with wireless processing with sensors built within-not bolted on-making these LEDs the aesthetically pleasing and future-proof gateway to city-changing technology



# Ready to be a Smart City?



## 4 REASONS to take control

### > GENERATE ENERGY SAVINGS OF UP TO 85%

The combination of LEDs and control systems makes it possible to achieve energy savings of up to 85%.

### > IMPROVE OPERATIONS MANAGEMENT

Modern tools to manage a lighting installation in the most efficient way.

### > PROVIDE LIGHT-ON-DEMAND

Control systems include motion detection sensors that can operate on individual lighting points or on a complete network.

### > ENSURE RELIABILITY

User-friendly asset management interface allowing an optimised operational management of costs and services.



SAFETY



WELL-BEING



SAVINGS



SUSTAINABILITY



SOLUTIONS

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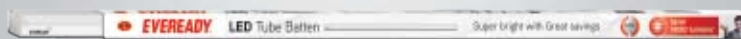
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