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**How is HPL looking to address the opportunity offered by Intelligent lighting space?**

Intelligent lighting not only adds to interior and designing but is also becoming a necessity of modern times. HPL Electric & Power Ltd. has always been a manufacturer of innovative and advanced solutions and provides an entire range of intelligent lighting.

Intelligent streetlight solution (ISLS) is one such product which is uncomplicated and easy to setup and manage. Its design is robust and reliable and provides a wireless streetlight network solution with secure two way communication for remote monitoring, data collection and control.

In LED segment, HPL has recently launched few intelligent illumination products. Chameleon, the colour changing lamp, operates through remote control, has a hassle free operation, creates wonderful room lighting aura and gives wide operating input voltage range. Kasper, the Inverter Lamp, comes with high power backup, fast charging, in-built Li-ion rechargeable battery, over voltage and over charging protection, surge protection of 2.5KV, automatic switch on and a BIS approved battery.

**What in your opinion are the various benefits of connected applications?**

the expected demand. Another area of challenge to the industry is development of illumination technology as India lacks technology and capital infrastructure in comparison to the global competitors.

With the emergence of new challenges, there are also new innovative solutions. One such innovation we have witnessed towards energy conservation is being led by the LED lighting technology industry, which has rapidly made tremendous strides towards conservation of energy. LED technology is very versatile and can be used in any application.

**Do you think that intelligent Lighting affects illumination delivery? How?**

Lighting technology has seen vast innovation. We've seen the emergence of various light sources such as LEDs and OLEDs, but the development of intelligent control of lights, is the most innovative component that has been developed in recent times.

Intelligent lighting controls permit light to be automatically and individually adapted to changing situations and local requirements. These controls were previously implemented as external components connected to existing lighting via defined interfaces such as 0-10V or DALI.

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**What in your opinion are the various benefits of connected applications?**

Connected lighting is very beneficial for large installations specially streetlights and commercial projects. In streetlights, the performance of each fitting can be measured, besides switching can also be programmed. Similarly in larger commercial installations, the control room can monitor each fitting and can also manually or automatically use dimmer facility and provide different hues as per the requirement of place and mood of the event.

**What kind of obstacles do you see for intelligent products in India?**

Today, a major part of world's total electricity generation is consumed for illumination purposes and this is a critical area of concern as the power generation in India is less than

or DALI.

**Can you give some examples of Products/Services/Verticals where HPL would be focusing their intelligent lighting product portfolio?**

The demand for LED lighting systems is continuously rising across the country due to flourishing urbanization and backed by government initiatives that encourage the use of LED lights. Government projects and initiatives have promoted the investments in energy efficient lighting technologies and increased the applications of LED lights across various industrial, commercial and residential sectors.

HPL has various intelligent lighting products in its portfolio and has supplied illumination solutions to various cities of India with futuristic technology. HPL has also

**CAPTAIN SPEAKS**

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participated and completed few government projects. Bhopal Smart City is one such example where we had installed more than 21,000 LED street lights.

**What timeframe do you see these kind of applications becoming a reality in India?**

According to the latest report by IMARC Group, titled “Indian LED Lighting Market: Industry Trends, Share, Size, Growth, Opportunity and Forecast 2018-2023”, the Indian LED lighting market was worth US\$ 1.5 Billion in 2017. The Indian lighting industry is expected to grow at a higher rate per annum, ranging between 13% and 15% until 2020. However, with a population of around 1.2 billion people, India is yet to cater electricity to

around 0.3 billion people, which can be another catalyst for growth in the coming years as the government moves towards total electrification of each and every corner of the country by 2022.

India is the promised land with lot of opportunity in infrastructure development and urban town planning with Smart Cities, etc. New Metro rail, Airport and Highway projects will all add to vast demand in Lighting products in next at least 20 to 25 years.

**AUTHOR: ILLUMINATION EDITORIAL BOARD**