

LED'S ENCAPSULATING ROYALTY



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The concept of replacing normal lights with LED lights have grown leaps and bounds owing to their vast application areas and important qualities like energy conservation, zero maintenance and environment friendliness. Over years, multinational companies have started undertaking projects to convert conventional lighting into LED lighting in urban as well as rural areas. These lights conserve a huge amount of energy and possess high durability. As LED lights come in various colors, they are a perfect source to add aura to a place.

With the similar concept in mind, Trishul Green Light (TGL) has been



Mysore Palace



Garden Light-Green



Fountain Light-amber



Fountain Light-amber

involved in various projects for illuminating several places with their hi-end LED lighting products. TGL's major projects includes Mysore palace, Ch. Devi Lal University, Ambuja cements, Batinda, Bangalore International Airport, Bank of India, AXON mobiles, BBMP, Altrateck cements, Moenvpick-a five star business class hotel and many more.

The Project-The Heritage Mysore Palace

The Palace in the garden city of Mysore attracts thousands of tourists every day. The city has a natural artistic backdrop in the form of Chamundi Hills wherein the presiding deity of Mysore and its royal family resides. The main three storied building is made up of massive grey granite and is dominated by a five storied tower covered by a gilded dome. The palace is known world over for its marvelous illumination. The entire building is lined with rows of bulbs following the contours of the structure and when it is lit up, it looks like a palace of lights. No wonder, the visitors exclaim that the palace is unique and has no comparison in the world.

Conceptualization

In order to restore the grandeur of the Mysore palace, her highness, the Maharani Vanivilasa Sannidhana, C.I., then regent, decided to build a new palace on the foundation of the old palace. In the same direction, the Mysore palace board decided to replace the sodium vapor lamps and other electric lamps with LED lamps in order to save energy consumption on a daily basis.

The process

An exhaustive process was followed to select LED lighting manufacturers and assess their capabilities. Pre qualification tenders were called to meet the exact requirement of golden hue color, which is a vital specification



of this great heritage palace. Sample luminaries of different manufactures were obtained by the Mysore palace board for testing. Rigorous trials were conducted by the specially appointed expert committee of professors and engineers to maintain high standards and to keep the archeological heritage intact. As the R and D efforts put in by Trishul green lights (TGL) got through this test and samples were accepted in all respects, TGL was shortlisted for commercial bidding. The expert committee and palace board officials inspected the facility of TGL in Bangalore and finally issued work orders.

Execution

TGL kept the trust placed on the company and executed the project to the delight of all the officials and engineers. Some of the products installed to match the aesthetics of

the palace by Trishul green lights are streets lights, dome lights and fountain lights (Color-blue, green, red, amber).

Result

- **Energy Conservation:** This is one of the biggest energy saving project done by Trishul Green Lights, Bangalore. There was a drastic reduction in the energy consumption after using TGL LED lights. Earlier the power consumed by Mysore palace was 92858 KWh per month and after installing TGL LED lights it was about 14436 KWh per month. A total of 78422 KWh energy was saved in a month by switching over to LED Lights.
- **Cost Saving:** Switching on to LED reduced the cost in a big way. The expenditure on electricity using conventional bulbs was INR 464290 and on LED lights was INR 101052. Thus saving a huge amount of money i.e. INR 548954.

This project was done with a view to reduce electricity consumption, global warming, and add on to environment benefits by reducing carbon footprints. Today, the LED lighting industry has reached a progressive stage in the country and has proved its excellence once again in energy conservation.

Trishul Green Lights (TGL) is an ISO 9001:2008 certified, LED lights manufacturing company with a vast experience in indigenously designing and manufacturing LED lighting and allied products. The TGL products are used in architectural lighting, automotive lighting, building lighting, casino bar & disco lighting, commercial lighting, decorative landscape & garden lighting, exterior lighting, floor lighting, street lighting, tunnel lighting, underwater & fountain lighting. ■