



R&D Fund Project

Assessment Of Performance Standard, Design And Maintenance Of TNB Street Lighting System



Maintenance team at site



Lux measurement at night

Project Overview

Street lighting in TNB has always been regarded as a social obligation to the community. Therefore, the philosophy in street lighting system has not been developed aggressively, and is still based on the designs, specifications and guidelines of CEB (LLN). The socio economics development in Malaysia since 1990s has increased the expectations of the individual consumers and Pihak Berkuasa Tempatan (PBT),

which resulted in increased attention on TNB's street lighting system quality. It is timely for the overall design, specification and practices of street lighting system and its components to be reviewed and updated, to fulfill the fundamental of the road lighting requirement that allows a secure and comfortable vision during the night. Although street lighting system performance has been acknowledged as one of the measurable services in TNB's CSI, it was not fully supported by TNB's current philosophy and practices. Customer Survey Index (CSI) conducted by TNB has identified two factors which can be further improved with respect to street lighting system; response time period and customer call services. It is directly and indirectly contributed by the low performance and reliability of the street lighting system and its components which can be further enhanced.

Deliverables

The project deliverable is a collection of measured data and polar curve profile for each type of lantern design that comes with different ratings. This database of information enables TNBD Engineering to plan for a cost-effective and right luminous level for future street lighting system.

Benefits

- TNBD Engineering and TNB Research Sdn. Bhd. are able to plan for any new street lighting system without the need to rely heavily on manufacturers to provide feedback on the technical know-how on lanterns.
- TNBD Engineering and TNB Research Sdn. Bhd. can have a team of expertise in the area of street lighting.
- A review of the specification according to the recommendations may result in higher reliability of street lighting system and reduce maintenance cost.