Product Description

A Light Emitting Diode Motorcycle (LEDiM) is developed to replace the motorcycle normal bulb lighting system. The main idea is to develop a motorcycle lighting system using Light Emitting Diode (LED).

A simple analysis on the performance of both LED and Bulb lighting system has been performed. Results showed that LEDiM offers several advantages such as equivalent brightness, low power consumption, longer lifetime, as well as less maintenance comparable to the existing motorcycle bulb lighting system.

Problem & Causes

The normal bulb motorcycle lighting system has high power consumption, shorter lifetime, and required regular maintenance. A new efficient system is needed to replace this system. Hence, Light Emitting Diode is one of the solutions.

Originality & Novelty

- No research has been done for motorcycle LED headlamp.
- No product has been developed for motorcycle LED headlamp.

Eco- Friendly Aspect

LED consumes less power, thus it brings less harm to the environment.

- able to reduce energy-used
- able to reduce heat generated

Eventually, LED helps to reduce global warming.

Application & Market Potential

This system is suitable for any application that requires focus light, low power, and sustainable technology:

- transportation
- domestic lighting
- medical equipment
- measurement tools

90% Low Power Consumption
100% Return of Investment

PROTOTYPE