

Technology Transfer

Area of Technology: Electronics & Communication Engineering

Title of the Innovation: SMART AUTOMATIC STREET LIGHT WITH WOMAN PROTECTION SYSTEM

Brief About Innovation

Women's safety is one of the big issues of the country right now due to the rising of crimes against women. In India, every 15-20 minutes, a woman gets molested or raped whether it is a crowded area or a damp area. According to records, in 2011, there are 228,650 crimes were recorded against women's while in 2015, there were over 300,000 reported incidents, which is 35% increases. Although the list of crimes is very long, still some several measures should be taken to ensure women's safety. The present invention discloses a device that provides reduction in the power consumption up to 50% from street lights and it embeds a women safety system that helps to minimize the crimes in society.

Salient Features:

- The present invention provides an outdoor lighting system with reduced power consumption. The system includes at least one light source, at least two microcontrollers, at least one camera unit with communication system, and a switch.
- The communication system of the present invention is ESP32 webcam, PIR sensor, Tiva microcontroller, LDR sensor, GSM Module.
- The Street lights are controlled automatically to minimize power consumption and reduce man work by Switching ON/OFF the street lights and in certain toggling conditions as well as switching OFF of some lights concerning the motion observed on the roads.
- The primary object of the present invention is to provide an outdoor lighting system with reduced power consumption through automatic controlling system.

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