WIRED AND WIRELESS SENSOR FOR ENERGY EFFICIENT STREET LIGHT

A PROJECT REPORT

Submitted by

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In partial fulfilment for the award of the degree

of

BACHELOR OF ENGINEERING

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ELECTRONICS AND COMMUNICATION ENGINEERING

T.J.S. ENGINEERING COLLEGE, PERUVOYAL, CHENNAI

ANNA UNIVERSITY: CHENNAI 600 025
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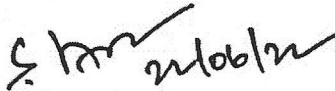Gummidipoondi Taluk,
Thiruvallur Dist - 601 206.

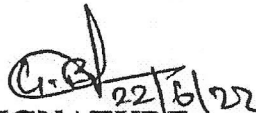# ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "WIRED AND WIRELESS SENSOR FOR ENERGY EFFICIENT STREET LIGHT" is the bonafide work of the following students

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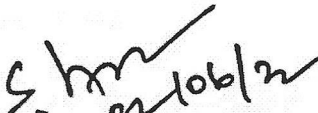who carried out the project work under my supervision.

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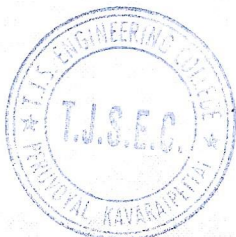
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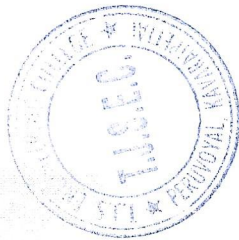
INTERNAL EXAMINER

EXTERNAL EXAMINER

II

ABSTRACT

The aim of the project is to save power by controlling the street light automatically. The street light is split or divided into two pair's odd pair and even pair load. When it is dark the street lights odd pair and even pair will lights. The even pair load will be controlled by Real Time Clock (RTC). It interfaces with the Second Microcontroller controlled with an off/on timer by using a 7segment display. During mid-night time the flow of vehicles will be less. When there is a flow of vehicles the even pair light will be normally dim. There will be two at89s52 microcontroller are interfaces in this project. The first microcontroller is interface with the driver IC, opto-coupler, even a pair of lights. By changing the firing angle of the voltage will be dropped to dim the even pair light. This project will save power.

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