SAPTHAGIRI COLLEGE OF ENGINEERING

14/5, Chikkasandra, Hesaraghatta Main Road, Bangalore-560057

Department of Computer Science and Engineering

Certificate

Certified that the project work entitled "**GARBAGE, TRAFFIC LIGHTS AND STREET LIGHTS MONITORING USING IOT**" carried out by **CHETHAN S HUGAR (1SG13CS031), DARSHAN I SWAMY (1SG13CS034), DEEPAK M (1SG13CS037), G N SRIRANGA (1SG13CS044),** bonafide student of **this institute,** in partial fulfillment for the award of **Bachelor of Engineering** in **Computer Science an Engineering** of **Visvesvaraya Technological University, Belgaum** during the academic year **2016-17.** It certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the rep deposited in the department library. The project report has been approved as it satisfies the academic requireme in respect of Project Work (10CS85) prescribed for the said degree.

Signature of the Guide	Signature of the HOD	Signature of the Principal
Mrs. Ragini Krishna	**Dr. Prashanth C.M**	**Dr. Aswatha Kumar M**
Assistant Professor	Professor & Head	Principal

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Name of the Examiners	Signature with date
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ABSTRACT

Continuous monitoring of garbage bins will help to keep environment clean and safe. Smart dustbins update the need of garbage collection regularly by sensing the bin filled level, the amount of garbage collected, to the nearest waste management department for collection. This ensures clean and healthy society.

The traffic lights monitoring, helps in reducing the waiting and travel time of vehicles passing at a given point and thus reducing the traffic congestion at main roads and junctions, this will be done by sending the vehicles density on the road using sensors and automatic switching of the traffic lights accordingly.

The street light monitoring, helps automatically manage street lights switching when required, by sensing daylight.

The overall sensors data is updated to a cloud server for monitoring and future use.

Hence this project will help to reduce power consumption and manpower and can be further enhanced to meet more social demands with extended functionalities and features.