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VISVESVARAYA TECHNOLOGICAL UNIVERSITY
"JNANA SANGAMA", BELGAUM-590014
KARNATAKA



A Mini Project Report On
"AUTOMATIC SOLAR STREET LIGHT"
Submitted in partial fulfilment of the requirements for the award of degree of
BACHELOR OF ENGINEERING
IN
ELECTRICAL & ELECTRONICS ENGINEERING

Submitted By:

MANU S N (ISV19EE007)

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Under the Guidance of :-

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SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(An ISO 9001:2008 Certified Institution) Sira Road, Tumkur -572106,



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE

This is to Certified that the project work entitled " Automatic solar street light Project (18EEMP68)" Carried out by MANU S.N (ISV19EE007), NAGARAJ M (ISV19EE008) a bonafide student of SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY, TUMKUR 572106, in partial fulfillment for the award of degree Bachelor of Engineering in ELECTRICAL & ELECTRONICS ENGINEERING of VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the year 2021-2022. It is certified that all corrections / Suggestions indicated for Internal Assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of Automatic Solar Street Light Project work prescribed for the said Degree.

Signature of the Guide
Mrs. SHWETHA T.M
Assistant Professor
Dept of Electrical &
Electronics Engineering

Signature of the HOD
Mr. G H RAVIKUMAR
Professor & Head
Dept of Electrical &
Electronics Engineering

Signature of the Principal
Dr. NARENDRA VISWANATH
Principal
SIET, Tumkur

External viva-voce

Name of Examiners

- 1) Tanuja K.S
- 2) Shwetha T.M

Signature with Date

Tanuja K.S 28/7/22
Shwetha T.M 28/7/22

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DECLARATION:

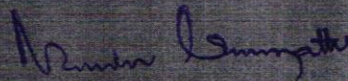
We are MANU S N(1SV19EE007), NAGARAJ M(1SV19EE008), students of VI Semester, Bachelor Of Engineering in Electrical & Electronics Engineering at Shridevi institute of Engineering and Technology, Tumkuru , Karnataka, hereby declare that, this Mini Project work titled "AUTOMATIC SOLAR STREET LIGHT" is an original and bonafide work carried by us at S.I.E.T Tumkuru, in partial fulfillment of Bachelor Of Engineering by the Visvesvaraya Technological University,Belagavi-590018 during the academic year 2021-22. We also declare that, to the best of our Knowledge and belief, the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion by any student.

Date:

Place: Tumakuru

MANU S N
(1SV19EE007)

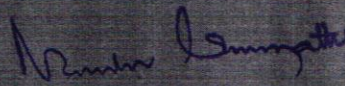
NAGARAJ M
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ABSTRACT:

The project is based on the idea of maintaining maximum utilization and minimum loss of available energy. The plenty of solar energy available during the day time is stored in a solar cell and the stored energy is used to glow the street lights during the whole night. Also the system provides a power saving mode of operation by adapting the method of automation. A dark sensor and a light sensor provides the automatic "ON"/"OFF" facility to the street lights, so that it will glow automatically when it is required(i.e. when the surrounding will be dark) and it will be turned "OFF" automatically if sufficient light is available in the surrounding. Again the auto intensity control mechanism has been applied by the help of a IC555 to control the light intensity of the luminaries as per the requirement. Hence the loss of energy due to unnecessary glow of the street lights can be avoided.



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