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**VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI-**

**590 018**



**A MICRO PROJECT REPORT ON  
“Automatic Road Reflector Light”**

**Submitted By,**

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**CERTIFICATE**

This is to certify that the Micro-Project entitled “Automatic Road Reflector Light” has been Successfully Completed by

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The bonafide students of Department of Basic Sciences, Alva's Institute of Engineering and Technology, affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI, during the academic year 2020–2021. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of Micro-Project work prescribed for Bachelor of Engineering.

**Mrs. Nisha Kumari**  
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## ABSTRACT

The Automatic Road Reflector is a basic yet effective solution that will assist us in automating traditional road reflectors. A raised pavement marker is a safety item that is used on the road at night to guide vehicles down the path. The Automatic Road Reflector system is intended to take the place of the current safety equipment. The suggested system is intended to detect and respond to the intensity of ambient light. When the ambient light is reduced during low light, the system detects this and turns on the reflector. When there is bright light, on the other hand, the system will go into power conservation mode and save energy. A photoresistor, also known as a light-dependent resistor, is used to detect light intensity. The Light Dependent Resistor is used in light sensing because it works on the basic principle of photoconductivity. The word photoconductivity refers to a phenomena in which a substance's conductivity increases when it comes into contact with light. In general, the LDR is made up of a substance that has low conductivity in darkness and enhances its conductive property when it comes into contact with light. A typical light-dependent resistor has a resistance of 1M $\Omega$  in the dark and a resistance of a few K $\Omega$  in the light. The Automatic Road Reflector can be quite useful in guiding cars on their way at night. The colour of the LED can be adjusted to meet a variety of requirements. They can be used to split the road, indicate a curve, or indicate a road exit. They're especially beneficial in places like airports and airport hangers, where many colours of road reflectors are employed for diverse functions