

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

BELGAUM 590 014



A REPORT ON PROJECT WORK

SOLAR CHARGER FOR DUSK TO DAWN USE WITH INTELLIGENT LIGHTING SYSTEM

(Sponsored by Karnataka State Council for Science & Technology)

Submitted in the partial fulfillment of the requirements for the award of the degree of

BACHELOR OF ENGINEERING

in

ELECTRONICS AND COMMUNICATION

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PROJECT GUIDE

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2011-2012



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ABSTRACT

As the sources of conventional energy deplete day by day, resorting to alternative sources of energy like solar and wind energy has become need of the hour. Solar energy is rapidly gaining notoriety as an important means of expanding renewable Energy resources. As such, it is vital that those in engineering fields understanding associated with this area. Solar-powered lighting systems are already available in rural as well as urban areas. These include solar lanterns, solar home lighting systems, solar streetlights, solar garden lights and solar power packs. All of them consist of four components: solar photovoltaic module, rechargeable battery, solar charge controller and load.

In the solar-powered lighting system, the solar charge controller plays an important role as the system's overall success depends mainly on it.