

VISVESVARAYA TECHNOLOGICAL UNIVERSITY.

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**Project Report
On**

“SOLAR CHARGER KIT FOR E-BIKE”

(Sponsored by KSCST, IISc, Bangalore)

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

**BACHELOR OF ENGINEERING
IN
ELECTRICAL AND ELECTRONICS**

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS

SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY

(An Autonomous Institution under the ambit of Visvesvaraya Technological University. Belgaum)

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SYNOPSIS

All the successful achievements in science and technology in this world are due to human Endeavor and curiosity of new inventions and development.

In the present world the increasing demand for lighter traveling vehicles, with a point of extinction of fossil fuels and increasing level of air pollution, the electric bikes are in great demand. Electric vehicles have become one of the most popular vehicles used for transportation across the world.

Presently the electric bikes available in market are eco-friendly and highly economic when compared to existing fossil fuel bikes. But the problem with present electric bike is that it can be run only for a limited range of distance and needs to be charged with electrical source sockets once the battery is discharge.

Now a day's E-bikes are used for a short ride, that too only in small cities which gives shorter range of mileage. Let this range can be extended to another level by implementing the "Solar charger kit" so that we can ride it in metro city also. The principle applied in this case is the conversion of solar energy into electrical energy. The main intension is to charge the battery of electric vehicles using solar energy. It will be more use for the people working in the metro city. The employers can go to office with these vehicles, and charge the battery during parking condition such that it can refill the battery what they used. So again it can be rode further without interruption.