

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

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**PROJECT REPORT**

On

**“AUTOMATED ENERGY METER READING AND THEFT  
DETECTION”**

Submitted by

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**In partial fulfilment of the requirements for the degree of**

**BACHELOR OF ENGINEERING**

**In**

**INFORMATION SCIENCE AND ENGINEERING**

**Under the Guidance of**

**Mrs. SWAPNALAXMI K.**

**Assistant Professor**



**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING  
ALVAS INSTITUTE OF ENGINEERING AND TECHNOLOGY**

**Moodbidri-574225, Karnataka**

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**ALVAS INSTITUTE OF ENGINEERING AND TECHNOLOGY**  
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**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**  
**CERTIFICATE**

*Certified that the project work entitled "AUTOMATED ENERGY METER READING AND THEFT DETECTION" is a bonafide work carried out by*

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in partial fulfilment for the award of BACHELOR OF ENGINEERING in **INFORMATION SCIENCE AND ENGINEERING** of the **VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM** during the year 2017-2018. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the Bachelor of Engineering Degree.

  
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## ABSTRACT

The proposed system design eliminates the human involvement in Electricity maintenance. The Buyer needs to pay for the usage of electricity on schedule, in case that he couldn't pay, the electricity transmission can be turned off autonomously from the distant host. The Existing domestic Energy meter reading systems universally exist problems, such as difficulty in construction, too narrow bandwidth, poor real time, not two way communication quickly etc. To solve above problems, this framework uses the wireless technology for Automatic Meter Reading system. The proposed method provides communication between the Electricity Board section and the consumer section using Global System for Mobile Communication (GSM) for transmitting the customer's electricity consumption and calculating the bill information. Depending on the power consumption, the information regarding the bill amount and payment are communicated to the consumer via SMS. The power and billing information is transmitted by the use of GSM modem and monitored by the Electricity Board section. Whenever there is power theft identified, the energy supply can be cut from the electricity board section by a distant host wirelessly.