**A PROJECT REPORT**

**ON**

**PREPAID ENERGY METER AND THEFT DETECTION**

SUBMITTED TO THE SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE IN THE PARTIAL FULFILLMENT FOR THE AWARD OF THE DEGREE

**OF**

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ELECTRONICS AND TELECOMMUNICATION

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**2022– 2023**



**CERTIFICATE**

This is to certify that the project report entitled

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is a bonafide work carried out by them under the supervision of Ms. A.S.Deokate and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University for the award of the Degree of Bachelor of Engineering (Electronics and Telecommunication Engineering)

This project report has not been earlier submitted to any other Institute or University for the award of any degree or diploma*.*

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**ABSTRACT**

The Internet of Things (IoT) is interring communication of embedded devices using networking technologies. The IoT will be one of the important trends in future, can affect the networking, business and communication. In this paper, proposing a IoT based prepaid energy meter. Most of the energy meters are designed to bill as per the units of energy consumed. These meters need to be manually read by people in order to provide monthly/quarterly bills. We here propose a IoT based smart electricity meter. The system is designed to allow amount of energy to be used as long as the account has balance pending. It also allows the operator to recharge the user account using IoT. The system first accepts account recharge and allows to use only limited units of energy as per recharge and then cuts off the supply. The prepaid electricity billing meter could be widely used to provide a new more customized electricity billing system, where users may recharge when they intend to use that facility. It also consists of a ESP8266 module that allows the operator to recharge the meter remotely using email message service. This puts forward an innovative electricity billing and “use as needed” electricity usage scheme. It also eliminates the need for manual electricity meter reading tasks. This meter is digital meter with short circuit protection, Over voltage protection, Anti-Theft detection.

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