

# **“AUTOMATED METER READING”**

**SPONSERED BY  
KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY  
PROJECT REPORT**

**In partial fulfillment of the requirements for the  
Award of the degree of  
BACHELOR OF ENGINEERING  
in  
ELECTRICAL & ELECTRONICS ENGINEERING**

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## **ABSTRACT**

The objective of our project is to automatically collecting data from energy metering devices and transferring that data to a central database for billing and/or analyzing. This saves employee trips, and means that billing can be based on actual consumption rather than on an estimate based on previous consumption, giving customers better control of their use of electric energy. A trend towards replacing the electromechanical meters with new designs, that can transmit their reading without any human intervention is in progress. In spite of developing new systems, this project describes methodology that can modify existing electromechanical disc-type energy meters to AMR.

The main aim of the project is to design and develop a wire less automatic meter reader system in the real time environment using the ARM processor and the PIC micro controller.

In this project the client unit will calculate the number of units by using unit sensor and that will be stored in internal EEPROM, and displayed on the LCD, then it will send the electric units to central unit along with its ID through ZigBee. After receiving same data central unit will store electric units, this data can be processed to display number of units and to make the bill.