Visvesvaraya Technological University, Belgaum –590010

PROJECT REPORT

ON

"GSM BASED REAL TIME VOLTAGE AND CURRENT MONITORING SYSTEM"

(SPONSORED BY KSCST, BANGALORE)

Submitted in partial fulfillment of the requirements for the award of

BACHELOR OF ENGINEERING
IN
ELECTRICAL & ELECTRONICS ENGINEERING

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ABSTRACT

The main aim of the project is to develop current and voltage monitoring system, which can be used for real time voltage monitoring applications. Monitoring supply voltages can highlight areas of excessive over voltage levels for the electrical or electronic devices at home or industries and once the problem has been identified ideas can be implemented to reduce this excess. This will help reduce bills, increasing profits and in turn help the environment. Alarms can be set to warn of higher or lower than normal current consumption of machinery. This can be used to highlight problems, which if sustained may incur expensive servicing costs.

The real time current and voltage monitoring system can be used to alert the concerned person or department in an industry when over voltage are detected depending on the predefined maximum values. The transmission of the information is achieved through the popular GSM Communication. The GSM Modem which is interfaced with the MCU sends an SMS to the mobile. The content about the over voltage and the number to which the message needs to be sent is decided by the Microcontroller.