

**A
PROJECT REPORT
ON
“IMPLEMENTATION
OF
INTELLIGENT DIGITAL ENERGY METER”**

“KSCST” PROJECT PROPOSAL REFERENCE NO. : 33S0827

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**DIPLOMA IN
ELECTRICAL & ELECTRONICS ENGINEERING**

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ABSTRACT

In present scenario, electrical distribution utilities are facing problems due to high energy losses & reliability of power supply in India. The problem is mainly associated with sub transmission & distribution networks. Accurate & sufficient data is required to assist the day to day decision making activities. Automatic Meter Reading System (AMR system) collects data from remote substation metering device to analyses, provide daily usage, total usage and real time data, energy accounting & graphical representation of Electrical network. In addition to this, the system allows the utilities to provide a wide range of services especially in the area of energy theft in a power distribution system.

Developing flexible Substation Automatic Meter Reading System with the proposed hardware and GPRS communications will help to interface to collect the data from remote substations to a centralized location.

Added Features:

1. Power theft detection and control with theft location.
2. Automatic billing and cutoff system.
3. Power saving.
4. Power failure auto detection at consumer place and auto announcement system to feed back station.
5. Fault altering system in power line.
6. Provide information about the power usage through LCD display.
7. Real time clock.
8. Detection of high and low voltage condition of electricity & inform the office.