

**VISVESVARAYA TECHNOLOGICAL
UNIVERSITY BELGAUM-590002**



**A Project Report
On**

**“TRANSFORMER FAULT DETECTION WITH WIRELESS INDICATION
AND SOLAR BASED TRANSFORMER COOLING SYSTEM”**

Sponsored by KSCST under 36th series, IISC Bangalore

Dissertation submitted in partial fulfillment of the requirements

for the award of degree of

**Bachelor of Engineering
In
Electrical and Electronics Engineering**

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ABSTRACT

Today developed technology in power system the most important equipment is used to transformer the power to the consumer is transformer. To give proper supply to the consumer from transformer maintenance is necessary.

In order to maximize the life time and efficiency of transformer awareness of possible fault that occurs and to know how they are detected. If regularly maintenance and monitoring is done we can avoid damage of the transformer.

In our project we are concentrating on abnormal condition of transformer like temperature rise, over current and oil level indicator using microcontroller and electronic circuits. We have also used GSM technology for sending fault message and solar energy for cooling transformer.

In this project we are using two zone transformer to identify abnormalities occurring in the transformer there by considering over all maintenance of the transformer.