

A Project Report Submitted to the
VISWESWARAIAH TECHNOLOGICAL UNIVERSITY, BELGAUM



Entitled

“MICROCONTROLLER BASED SUBSTATION PROTECTION”

In partial fulfillment of the award of the degree of the
Bachelor of Engineering in Electrical & Electronics Engineering
[SPONSORED BY KSTET, BANGALORE]
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ABSTRACT

Substation apparatus are valuable assets in power delivery systems. The high importance and cost of transformers make it crucial to maintain these assets. Microcontrollers applications has developed a wide variety of advanced transformer protection systems for all your transformer applications, providing good protection and control. The aim of the proposed project is to provide an alternative solution to the present day problems associated with the substation or similar power distribution transformers.

Here we are going to Monitor and Record the parameters like over voltage, under voltage, over current, phase unbalanced, coolant level (oil) and over temperature of oil. On exceeding these parameters beyond normal values, this gadget disconnects the transformer from the load. This project also alerts the person in charge by giving alarm signals. In comparison with the present systems used, this is economical, fully automatic & maintenance free.