

A Project Report Submitted to the  
VISVESVARAYA TECHNOLOGICAL UNIVERSITY BELGAUM-590 010.



Entitled

**“INDUCTION MOTOR AS WELDING TRANSFORMER”**

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In partial fulfillment of the award of the degree of  
Bachelor of Engineering in Electrical & Electronics.

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## **ABSTRACT**

We all are well familiar with induction motor, uses in many industrials as well as home appliances. Basically an induction motor is worked on the principle of electromagnetic induction & hence known as generalized transformers.

Now a day these motor are used as generators. The induction generators are available in the market. We are introducing here a new concept of using induction motor as a welding transformer. Basically we are using a simple concept of mutual induction which is also the basis for the theory of working of transformer. We just take a squirrel cage induction motor & change it's stator design.

A perfect balanced 3 phase, welding transforms is not available in market which is very essential to run on small 3 phase alternator (of same rating).

Basically the welding transformer is a single phase machine. Only few welding transformers are 3 phase.