

PERFORMANCE IMPROVEMENT OF CNC MACHINES

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**A Project Report
submitted in partial fulfillment of the requirements
for the award of the Degree of Bachelor of
Engineering in Electrical & Electronics Engineering
of the Visvesvaraya Technological University, Belgaum.**

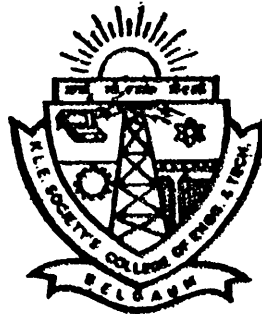
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Abstract

CNC machines are used almost in every industry which require quality power for its working. Generally the board power what we get is not as per the specification requirement of the machine manufacturer and it varies time to time. This affects the working of the CNC machine and many times the machine either trips for safety cut-offs or some of the components get burnt.

Our project work here-in includes a device, which gives total protection to the unit, which includes protection against harmonic distortion & the power factor correction. The harmonic distortion control not only gives power at required specifications but also reduces the energy consumption and electrical bills.

Our objective: To improve power factor of the system and harmonic mitigation thereby enhancing the power quality.