VISVESVARAYA TECHNOLOGICAL UNIVERSITY,

BELAGAVI– 590 018

A MICRO PROJECT REPORT ON

"SIMPLE LOW POWER INVERTER"

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CERTIFICATE

This is to certify that the Micro-Project entitled **"SIMPLE LOW POWER INVERTER"** has been Successfully Completed By

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The bonafide students of **Department of Electronics and Communication Engineering, Alva's Institute of Engineering and Technology,** affiliated to **VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI** during the academic year 2020–2021. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of Micro-Project work prescribed for Bachelor of Engineering.

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ABSTRACT

Inverters are used for many applications, as in situations where low voltage DC sources such as batteries, solar panels or fuel cells not be converted so that devices can run off of AC power. One example of such a situation would be converting electrical power from a car battery to run a laptop, TV or cell phone. The method, in which the low voltage DC power is inverted, is completed in two steps. The first being the conversion of the low voltage DC power to a high voltage DC source, and the second step being the conversion of the high DC source to an AC waveform using pulse width modulation. Another method to complete the desired outcome would be to first convert the low voltage DC power to AC, and then use a transformer to boost the voltage to 120 volts. This project focused on the first method described and specifically the transformation of a high voltage DC source into an AC output.