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VISVESVARAYA TECHNOLOGICAL UNIVERSITY,BELAGAVI-

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**A MICRO PROJECT REPORT ON
“DTMF Based Home Automation”**

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2020-2021

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CERTIFICATE

This is to certify that the Micro-Project entitled **"DTMF Based Home Automation"** has been Successfully Completed by

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The bonafide students of **Department of Basic Sciences, 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

In Mobile Controlled Home Automation using DTMF, a smart logic control based on embedded systems has been implemented. The DTMF based home automation is controlled by mobile signals.

Mobilecontrolled Home Automation system using DTMF technique is all about controlling a relay using DTMF decoder . The relay is controlled from a mobile phone even at a far away distance by making a call to the other mobile phone attached to the DTMF decoder in the home automation system. During the course of the call, if any button is pressed, the tone corresponding to the button pressed is heard at the other end. This tone is called "Dual Tone Multi Frequency tone (DTMF)". Using DTMF code, each relay corresponding to a particular code turns ON/OFF. The relay will be attached to a corresponding appliance at home. When each appliance needs to be turned ON , the corresponding relay needs to be ON as well. This circuit can also be used to control the water tank motor by setting the ontime.