B19

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI– 590 018

A MICRO PROJECT REPORT ON
"Plant Moisture Monitoring System"

Submitted By,

Nongmaithem Borish	4AL20CV013
Sashreeth H S	4AL20AI036
Varshini K L	4AL20EC058
Shridhar S	4AL20CS146

Under the Guidance of

Mr. Gopala Krishnna
Department of Mechanical
Engineering

ALVA'S
Education Foundation*

DEPARTMENT OF BASIC SCIENCES

ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

MOODBIDRI-574225, KARNATAKA

2020–2021

ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

MIJAR, MOODBIDRI D.K. -574225

KARNATAKA

ALVA'S
Education Foundation

DEPARTMENT OF BASIC SCIENCES

CERTIFICATE

This is to certify that the Micro-Project entitled **"Plant Moisture Monitoring System"** has been Successfully Completed by

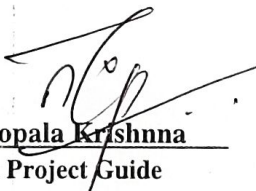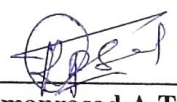|	
Nongmaithem Borish	**4AL20CV013**
Sashreeth H S	**4AL20AI036**
Varshini K L	**4AL20EC058**
Shridhar S	**4AL20CS146**

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.

_____
Mr. Gopala Krishnna
Mini Project Guide

_____
Dr. Ramaprasad A.T,
HOD Physics
H. O. D.
Dept. Of Physics
Alva's Institute of Engg. & Technology
Mijar, MOODBIDRI - 574 225

ABSTRACT

Planting a tree in an environment where the seed or plant would not receive adequate water from natural sources such as rain or ground water in its early stages has always been a cause of concern for tree planters. This is where a self-contained moisture monitoring system for plants can help. The technology keeps track of the soil's moisture level in real time. If it is discovered during monitoring that the soil moisture level is lower than recommended, an audible visual alarm will be triggered. This alarm is then received by the plant's caretaker. The alarm goes off when the plant is watered, and the monitoring cycle continues. We utilise a timer IC to clock the monitoring process in this system. The moisture level of the soil is detected using a moisture level sensor. A visual alarm is provided by an LED, while an auditory alarm is provided by a buzzer to the plant's caretaker. Thus, using a simple combinational circuit and a sensor, we can help save a plant by maintaining the moisture level of the plant's soil and thus keeping the plant healthy in this project.