VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama" Belagavi – 590 010

PROJECT REPORT ON

"DESIGN AND IMPLEMENTATION OF NOVEL DRIP IRRIGATION SYSTEM USING PANI"

Submitted in partial fulfillment of the requirements for the award of degree

BACHELOR OF ENGINEERING
IN
ELECTRONICS & COMMUNICATION ENGINEERING

Submitted By

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ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

MOODBIDRI – 574 225.
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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

CERTIFICATE

Certified that the project work entitled "DESIGN AND IMPLEMENTATION OF NOVEL DRIP IRRIGATION SYSTEM USING PANI" *is a bona fide work carried out by*

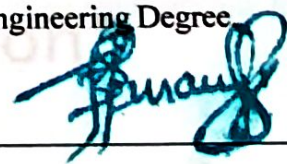|	
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in partial fulfillment for the award of **BACHELOR OF ENGINEERING** in **ELECTRONICS & COMMUNICATION ENGINEERING** of the **VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI** during the year 2020–2021. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.

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ABSTRACT

Drip Irrigation proposes a mobile incorporated, smart irrigation system that uses raspberry pi and polyaniline-based polymer humidity sensor and IoT supported application monitoring system. The foremost goal of this project is to control the installation and monitor the plants via a smartphone. The sensor is often used for controlling the water contained within the soil and so the irrigation of plants automatically where the need for human intervention reduced.

The main goal targeted the wattage of water, which can be a concern of the stylish generation. It is costs effectiveness, low maintenance, time-saving, environmental protection, disbursal, and efficient irrigation service. Raspberry pi is within the planning of the prototype model in making the system compact and sustainable. The system contains a sensor that measures the moisture of the soil and switches which control solenoid valves to keep with the requirement. The model demonstrated expected results at the diverse moisture tiers. This project discussed the strategy used for the spotting of plants diseases using their leaves images. Recognition of plants diseases is the key to preventing the losses within the yield and amount of the agricultural product. It is hard to observe plants diseases manually. Hence, image processing is for the discovery of plants diseases. Disease recognition involves image segmentation, feature extraction. After image-processing, if the plants is found infected, this tool activates the valves, which medicine supply is enabled or disabled automatically to the plant place via a sprinkler or drip irrigation technique.