VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama" Belagavi – 590 010

PROJECT REPORT ON

"AGRICULTURAL DROUGHT AND CROP FAILURES DATA ACQUISITION AND TRANSMISSION SYSTEM BASED ON IoT"

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

BACHELOR OF ENGINEERING
IN
ELECTRONICS & COMMUNICATION ENGINEERING

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

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(Affiliated to VTU, BELAGAVI)

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

CERTIFICATE

Certified that the project work entitled **"AGRICULTURAL DROUGHT AND CROP FAILURES DATA ACQUISITION AND TRANSMISSION SYSTEM BASED ON IoT"** *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 2018–2019. 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.

13/5/19	D.V.T 13.05.19	
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ABSTRACT

Agriculture, the backbone of Indian economy, contributes to the overall economic growth of the country and determines the standard of life for more than 50% of the Indian population. Crop failure is simply be defined as a situation whereby all crops on a farm are lost. For the situation to be considered a crop failure, it has to be severe enough to adversely affect the farmers, consumers, and the economy. The result of crop failure tends to affect farmers' income, decrease the amount of food available for consumption, and also negatively affect the economy of a country, especially if it is an agriculture dependent economy. The failure of crop is one of main problem to agricultural field which is usually situated due to no proper water supply and adverse weather condition were two major reasons for crop failure.

Unpredicted rain fall is the one of the unsolved problems in the field of agriculture and to the farmers. Proposed system will consider the weather forecast details of the crop field region to make decision of water supply to the crop field with respective to reference value of particular crop in the field and system will maintain a record and transmit the water level data of crop field to the farmer by displaying on webpage were farmer can analyze the previous crop data which will be stored in cloud.

Automation or automatic control is the use of various control systems for operating equipment's with minimal or reduced human intervention. This project is solely based on using technology and automation. Smart farming based on IoT technologies will enable growers and farmers to reduce waste and enhance productivity. The farmers can monitor the field conditions from anywhere. IoT-based smart farming is highly efficient when compared with the conventional approach.