IOT BASED AGRO SENSE

A Project report submitted in partial fulfilment of the requirements for the award of degree

of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

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AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF

ELECTRONICS AND COMMUNICATION ENGINEERING

(NAAC Accredited, Accredited by NBA, Approved by A.I.C.T.E,

Permanently Affiliated to J.N.T.U.KAKINADA)

TAMARAM (P.O), MAKAVARAPALEM (M.O) , NARSIPATNAM (R.D)

VISAKHAPATNAM DISTRICT-531113

2018-2022

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CERTIFICATE

This is to certify that the project entitled "IOT BASED AGROSENSE" in partial fulfilment for the of degree of Bachelor of Technology in ELECTRONICS AND COMMUNICATION ENGINEERING, at AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, MAKAVARAPALEM, VISAKHAPATNAM is an bonafied work carried out by R.CHANDRALEKHA (19815A0421), V.SATYASRAVANI (18811A0433), N.MANOJ (18811A0420) under the guidance and supervision during 2018-2022.

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ABSTRACT

A mobile app is simply a "Farm in hand" for farmers. This system focuses on using Sensors technology to enhance the application and its benefits to the field of agriculture. Often, farmers have to keep watch on the farm in order to know the conditions there. In order to make his work efficient and optimized, we are developing an android application "Agro-Sense". The system is developed in such a way that farmer will get all the information of his farm on his Smartphone. Different sensors like light, temperature, moisture and humidity sensors will be used in the farm. Once the system is fitted in the field, the application has to be installed on Smartphone. Through the sensors and microcontroller kit, farmer can monitor and control his farm on his Smartphone using the application. When the water level in the field reduces, the farmer will get notification, so that he can switch ON the motor through his Smartphone. Besides this, the application gives facility of Post Scenario (database) where one can post his agricultural records. It includes parameters like name of farmer, crop, season and profit. All users using this system can view database of other users and access their own. This would help them for further decision making. This application tends to reduce manpower and saves the valuable time of farmers to increase productivity