

A
Project Report
On
SMART IRRIGATION SYSTEM
Submitted to
Department of
ELECTRONICS & COMMUNICATION ENGINEERING

By

BALLE ANUSHA	206Y1A0407
EMMADI SATHWIK	206Y1A0418
SANITHA PASHIKANTI	206Y1A0442
KALERU SAI SRUTHI	206Y1A0430

Under the Esteemed Supervision of

Dr.M.Gopal
Assistant Professor



DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
SUMATHI REDDY INSTITUTE OF TECHNOLOGY FOR WOMEN

(Approved by AICTE, New Delhi, Affiliated to JNTUH, Accredited by NBA)

Ananthasagar (Vill), Hasanparthy (M), Warangal.

2022-23



Rajam
PRINCIPAL
Sumathi Reddy Institute of Technology for Women
Ananthasagar (V), Hasanparthy (M)
WARANGAL - 506 371 (T.S.)



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the project entitled "SMART IRRIGATION SYSTEM" carried out by the following students of III Year B.Tech in Electronics and Communication Engineering during the academic year 2022-23.

BALLE ANUSHA 206Y1A0407

EMMADI SATHWIKA 206Y1A0418

SANITHA PASHIKANTI 206Y1A0442

KALERU SAI SRUTHI 206Y1A0430


Dr. M. Gopal
Supervisor




Dr. K. Mahender
Head of Department


PRINCIPAL
Sumathi Reddy Institute of Technology for Women
Ananthasagar (V), Hasanparthy (M)
WARANGAL - 506 371 (T.S.)

ABSTRACT

As agriculture is the backbone of Indian economy, it deserves to be modernized. To overcome backwardness of traditional methods of agriculture and to enhance the crop production, to avoid the risk of damaging crops, and to do efficient use of water resources, the latest technology of Internet of things (IoT) is playing a crucial role nowadays. So, this paper “smart irrigation system” is proposed where the soil sensor is used to collect large number of real-time data from the agricultural fields. The sensors interact with each other through Internet connection. The data collected from the sensors sent to the Web server using wireless sensor network. IoT framework analyzes and processes the sensed data. Then, notifications are sent to the farmer’s smartphone application periodically. The farmer can track changes in soil moisture. In this way, unnecessary wastage of water can be avoided. This paper discusses the various experiments done in this context and a comparatively low cost system module with sensors and wireless networks for modernized irrigation is represented.



Rijan

Principal

Sumathi Reddy Institute of Technology for Women
Ananthasagar (V), Hasanparthy (M)
WARANGAL - 506 371 (TS)