



# VIVEKANANDHA COLLEGE OF TECHNOLOGY FOR WOMEN-TIRUCHENGODE

**IBM PROJECT-TEAM ID:PNT2022TMID30647**

## **LITERATURE SURVEY OF IOT BASED SMART CROP PROTECTION SYSTEM FOR AGRICULTURE**

### **TEAM LEAD:**

S.MONIKA

### **TEAM MEMBERS:**

T.CHARU VIKASHINI

N.AKSHAYA

R.SOORYA PRIYA

### **ABSTRACT:**

Agriculture is the most important sectors of Indian economy. Farmers are the backbone of our country. It is important to access the resources that are important. Improvising the agricultural security has become a major threat. This projects is to implement the smart crop protection in the field. The aim of the project is to protect the field against animal attacks ,insect attacks and climatic changes to enrich the yield. This can be achieved by IOT. This enhances the standard of agriculture. The implementation of IOT field detects the intruders ,monitors suspicious activity and report to the proprietor of the field. It helps farmers for ensuring safety of the farmland and tress passing activities. This framework runs on an Arduino Uno and makes use of micro controller. This system uses a PIR sensor to detect intruders close to the field, along with smoke sensor to detect emission of smoke from fires and intrusions. Moisture sensor is introduced to detect the water content of the field

## **LITERATURE SURVEY:**

### **IOT based smart agriculture monitoring system.**

Rajalakshmi . P and S. Devi Mahalakshmi, "IoT Based Crop Field Monitoring and Irrigation Automation", 10th International conference on Intelligent systems and control (ISCO), 2016.

An IOT Based Crop-field monitoring and irrigation automation system describes how to monitor a crop field. A system is developed by using sensors and according to the decision from a server based on sensed data, the irrigation system is automated. Through wireless transmission the sensed data is forwarded to web server database. If the irrigation is automated then the moisture and temperature fields are decreased below the potential range. The user can monitor and control the system remotely with the help of application which provides a web interface to user .

The manual approach of verifying the parameters is one of the earliest methods in agriculture and is monitored by smart agriculture systems. Farmers use this method to independently calculate the reading and check every parameter. The system focuses on creating tools and devices to control, display, and notify users while taking advantage of wireless sensor network benefits system. It attempts to use automation and IoT technology to make agriculture smarter. The Devices that can form an entire computing system, such as cloud computing, are used at the system's conclusion .Systems that monitor data from the agricultural field, from sensors to implements. It offers a novel a method for smart farming that uses an intelligent irrigation system and smart sensing system using wireless communication technologies. This system is affordable for installation. One can access and control the agriculture system in laptop, cell phone or laptop.

### **LIMITATIONS:**

1. The weather conditions may have been incorrectly predicted.
2. Devices will need to be modified in accordance with the needs of the farmers; this will require expensive equipment.
- 3.If there are malfunctioning sensors or data processing hardware, a problem will result. where the wrong decisions are made