LITERATURE SURVEY

IOT BASED SMART CROP PROTECTION FOR AGRICULTURE

[1] Abhiram MSD, Jyothsnavi Kuppili, N.Alivelu Manga-- "Smart Farming System using IoT for Efficient Crop Growth"[2020]-In this paper IoT technology is used to sense and analyze the temperature, humidity level, soil moisture level and the rain condition and DC motor is controlled using NodeMCU. All these values are sent to the smart phone using Wi-Fi. Due to the usage of this system, adequate water is pumped and rain is also utilized efficiently. This system is very much helpful to farmers as they need to regularly pump water and check the status of each crop. From anywhere in the world, farmers can know the values of humidity, temperature and soil moisture and if the DC motor is ON through the blynk app present in their smartphones.

[2] Mohit Korche, Sarthak Tokse, Shubham Shirbhate, Vaibhav Thakre, S. P. Jolhe—"Smart Crop Protection System"[2021]- In this paper,the project carries a great social relevance as it aims to address this problem. This project will help farmers in protecting their or-chards and fields and save them from significant financial losses and will save them from the unproductive efforts that they endure for the protection their fields. This will also help them in achieving better crop yields thus leading to their economic wellbeing.

[3] K.B. Pavan Kumar, T. Bhavitha, S. Karishma, M. Pavithra, M. Prashanth Kumar—"IOT BASED CROP MONITORING FROM ANIMALS"[2019]- The proposed design is an automatic system that aids the user in irrigation process. It keeps notifying the farmer through an on-board LCD display and messages that is sent to the User PC. This proposed design is also helpful for the Users who are facing power failure issues to maintain a uniform water supply due to power failure or inadequate and non-uniform water supply. The automatic irrigation system also keeps the Users too updated with all the background activities through a Node MCU. This device can be a turning point for our society. The device is easily affordable by the Users of the country. This proposed design is helpful for reducing the human labor. This is a low budget system with an essential social application.

[4] Mr.D.Meganathan, S.Arunkumar, R.Balaji, S.Bhuvaneswar—"SMART CROP PROTECTION SYSTEM FROM ANIMALS USING PIC"[2020]-This paper designed a system in which sound is played and by using LDR it detects light intensity, if it is less, it will focus the light. So that wild animals will not enter into the farm. It will run away. GSM module sends message to the farmer to alert him. From this it is concluded that the design system is very useful and affordable to the farmer. The design system will not be dangerous to animal and human being, and it protects farm.

[5] Khampheth Bounnady, Poutthasone Sibounnavong, Khampasith Chanthavong, Savath Saypadith—"Smart Crop Cultivation Monitoring System by Using IoT"[2019]- In this research paper was propose the system for efficient crop monitoring for the agricultural fields. The system monitoring of soil moisture, temperature and water control has been proposed by using NodeMCU ESP8266, sensors and Cloud Computing. The proposed system was effective with growth rate, productivity and water saving, also farmer can monitoring and adjust some value in the system through the app. The proposed system is useful for a farmer who works on agriculture.