IOT BASED SMART CROP PROTECTION SYSTEM FOR AGRICULTURE

TEAM MEMBERS:

1.Akash Selvin.S

2.Joffin.V

3.Derish Kenimer.K

4.Rana Prathap.J

FACULTY MENTOR:

Mr.Raja Mohamed.N

INDEX

PROBLEM STATEMENT:

As new technologies has been introduced and utilized in modern world, there is a need to bring advancement in the field of agriculture also. Various Researches have been undergone to improve crop cultivation and have been widely used. In order to improve the crop productivity efficiently, it is necessary to monitor the environmental conditions in and around the field. The parameters that has to be properly monitored to enhance the yield are soil characteristics, weather conditions, moisture, temperature, etc.,Internet of Things (IOT) is being used in several real time applications.The introduction of IOT along with the sensor network in agriculture refurbish the traditional way of farming.Online crop monitoring using IOT helps the farmers to stay connected to his field from anywhere and anytime. Various sensors are used to monitor and collect information about the field conditions. Collectively the about the farm condition is sent to the farmer through GSM technology.Various sensor nodes are deployed at special locations in the greenhouse. Controlling those parameters are through any remote device or internet services and the operations are completed by means of interfacing sensors, with microcontroller. Power generation and supply is usually a massive problem. This project is also consisting of solar power generation and rainwater harvesting as technology method is implemented along with crop safety.

REFERENCE:

1.IoT based smart crop protection and irrigation system by Ipseeta Nanda, Chadalavada Sahithi, Medepalli Swath, Suman Maloji, Vinod Kumar Shukla

2.IoT-Based Smart Crop Field Monitoring and Protection System from Heavy Rainfall Utilizing by G.Dhanalakshmi. M.Anil & P.Madhavi

3.Smart Crop Protection System from Animals and Fire using Arduino by N.Srikanth, Aishwarya, Kavitha.H.M, Rashmi Reddy.K, Soumya.D.B

4.Smart Crop Protection System from Wild Animals Using IoT by Priyanka Deotale, Prasad Lokulwar