Ideation Phase

Date	19 September 2022
Team ID	PTN2022TMID17561
Project Name	IOT Based Smart Crop Protection System for Agriculture
Maximum Marks	4 Marks

IDEATION

Idea 1:

By using sensors to collect data on weather, soil moisture, crop health, and real-time locational asset tracking (RTLAT), farmers can make more informed decisions about how to care for their crops. Farming management approach that uses digital technologies to enable farmers to make better decisions about where, when, and how much to fertilize, irrigate, and spray pesticides

Idea 2:

Crops in the farms are many times devasted by the wild as well as domestic animals and low productivity of crops is one of the reasons for this.It is not possible to stay 24 hours in farm to sentinel the crops .So to surmount this issues an automated perspicacious crop aegis system is proposed utilizing Internet of Things(IOT).The sysytem consist of esp8266 (nodeMCU), soil moisture sensor, dihydrogen monoxide sensor, GPRS and GSM module,servo motor, dihydrogen monoxide pump ,etc.To obtain the required output .As soon as any Kineticism is detected the system will engender an alarm to be taken and the lights will glow up implemented at every corner of the farm.This will not harm any animal and the crops will stay forfended.

Idea 3:

The samrt protection system define that this project help to farmer for the protection of a farm .We have designed this project for the only secure from animals but this project have the provisions to secure from the human beings also. This can be achieved by the help of the IOT device . The SCPS work on the battery so that this project can be easily portable and also we are added solar panels and converter modules .This can help the battery to charge from solar energy .The IOT device is used to indicate the farmer by a message while someone enter into the farm and we are used SD card module that helps to store a specified sound to fear the animals.

These are the idea finalize by our team and an idea will be implemented by our team.