Project Design Phase-I

Proposed Solution

Date	17 October 2022
Team ID	PNT2022TMID34698
Project Name	IOT Based Smart Crop Protection System
Maximum Marks	2 Marks

Proposed Solution:

S.No.	Parameter	Description
•	Problem Statement (Problem to be solved)	Crops in farms are ravaged by local animals like buffaloes, cows, goats, birds etc. This leads to huge losses for the farmers. It is not possible for farmers to barricade entire fields or stay on field 24 hours and guard it.
•	Idea / Solution description	Here we propose an automatic crop protection system from animals. This system uses a motion sensor to detect wild animals approaching near the field.
•	Novelty / Uniqueness	Motion sensor, Temperature sensor, Humidity sensor, Moisture sensor, Alarm, GSM.
•	Social Impact / Customer Satisfaction	Crop protection combines strategies, tools, and products that protect against various pests. These include diseases, viruses, weeds, and insects. All of them can significantly lower or even kill plants. The best decision is to control the situation by reducing the risks rather than deal with the problem's consequences.
•	Business Model (Revenue Model)	Monitor the crop 24/7, Avoid animals, Check the weather condition, Alert the farmer.

•	Scalability of the Solution	Scalability is an aspect or rather a functional quality of a system, software or solution.