

Project Design Phase-I
Proposed Solution

Date	4 October 2022
Project Name	IoT Based Smart Crop Protection System for Agriculture
Team Leader	Santhosh M
Team Members	Pavithran M Ranjith A Sanjay Kumar R
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Develop smart & affordable solution to protect crops from insects
2.	Idea / Solution description	Using drone, we can monitor plant health. Using drone for spraying pesticides in an effective manner.
3.	Novelty / Uniqueness	Drone can spray crops more precisely. Because, they can be programmed to spray an even amount of liquid in all necessary sections
4.	Social Impact / Customer Satisfaction	Drones can help farmers to optimize the use of inputs (seed, fertilizers, water), to react more quickly to threats (weeds, pests, fungi), to save time crop scouting (validate treatment/actions taken), to improve variable-rate prescriptions in real time and estimate yield from a field.
5.	Business Model (Revenue Model)	Using drones require less man power and time
6.	Scalability of the Solution	Drone sprayer is more effective when compared to normal spray machine