Project Design Phase-I
Proposed Solution Template

Date	24-September-2022
Project Name	IOT based smart crop protection system for agriculture
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)	• Protecting the crop field by continuous monitoring. • Realtime field report will be available in the user end via mobile application. • Efficient Alert system that intimates there if an issue occurred. • Our IoT based smart farming irrigation system will be securing the crop from damage.
2.	Idea / Solution description	• System that we built for monitoring the Crop. • Using the help of sensors to monitor temperature, soil moisture, crop health, etc. • Automating the irrigation system.
3.	Novelty / Uniqueness	• Intrusion can be prevented and thus it will prevent the crop field from external impair. • Automatic emergency alert system. • Ensures high yield crop protectivity using various sensor implemented in the field. • Process automation and competitive advantage.
4.	Social Impact / Customer Satisfaction	• Farmers can decrease the fertilizers and Pesticides. • Results in a lower impact on the Ecosystem. • Makes the irrigation process into a simple one and simplifies the irrigation process for farmers.

5.	Business Model (Revenue Model)	• Cop protection from intrusion is the most demanding requirement system in now a day. • So, IoT based Agri project will be solving the worldwide issues. • Hence, thus Agriculture IoT based projects are demanding in day by day in the market.
6.	Scalability of the Solution	• Crop protection from external injures will sustainably increase the crop yield & protectivity. • Improved work safety. • Reduce energy wastes.