

**Project Design Phase-I**  
**Proposed Solution Template**

Date	19 September 2022
Team ID	PNT2022TMID23457
Project Name	Project - IoT Based Smart Crop Protection System For Agriculture
Maximum Marks	2 Marks

**Proposed Solution Template:**

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

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	To solve the problems faced by the farmers to protect the crops under various situations.
2.	Idea / Solution description	1. System that monitors weather condition 2. System to detect pest affected crops and weeds 3. Damage estimation to enhance the profit
3.	Novelty / Uniqueness	Proposed system is an integrated device which monitors weather, detects pests and estimates the damage. All the mentioned operations can be done in one device.
4.	Social Impact / Customer Satisfaction	1. Healthy and pest free crops can be produced 2. Damage estimation will rectify the cultivators to improve the production 3. Weather monitoring will help the farmers to take precaution to protect the crops
5.	Business Model (Revenue Model)	This prototype can be developed as a product with minimum cost of production and high performance.
6.	Scalability of the Solution	Scalability of the system is highly possible. The user can modify the device based on the crop harvested.