

Project Design Phase-I

Proposed Solution.

Project Name	IOT BASED SMART CROP PROTECTION SYSTEM FOR AGRICULTURE.
Team ID	PNT2022TNID44579
Date	16 Oct 2022
Max Marks	2 Marks

S.NO.	Parameter	Description
1.	Problem Statement. (Problem to be solved)	<ul style="list-style-type: none"> ✓ Crops are not irrigated properly due to insufficient labour forces. ✓ Requires protecting crops from wild animals attacks birds and pests.
2.	Idea /Solution Description.	<ul style="list-style-type: none"> ✓ Temperature sensor connected to microcontroller is used to monitor the temperature in the field. ✓ Image processing techniques with IOT is followed for crop protection against animal attack.
3.	Novelty / Uniqueness.	<ul style="list-style-type: none"> ✓ Automatic crop maintenance and protection using embedded and IOT Technology.
4.	Social Impact / Customer satisfaction.	<ul style="list-style-type: none"> ✓ This proposed system provides many facilities which helps the farmers to maintain the crop field without much loss.
5.	Business Model (Revenue Model).	<ul style="list-style-type: none"> ✓ This prototype can be developed as product with minimum cost with high performance.
6.	Scalability of the solution	<ul style="list-style-type: none"> ✓ This can be developed to a scalable product by using solution sensors and transmitting the data through Wireless Sensor Network and Analysing the data in cloud and operation is performed using robots.