

Project Design Phase-I
Proposed Solution Template

Date	24 September 2022
Team ID	PNT2022TMID13941
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)	The biggest challenges faced by IOT in the agricultural sector are lack of information ,high adoption costs,and security concerns
2.	Idea / Solution description	IOT sensors to collect environmental and machines metrics,farmers can make informed decisions,and improve just about every aspect of work from livestock to crop farming.
3.	Novelty / Uniqueness	Sensors to monitor and track the status of crops and insects,machines for performing route operations and ensuring proper functioning of systems.
4.	Social Impact / Customer Satisfaction	With IOT ,Companies can enjoy benefits like better crop productivity and improved worker safety.then can use less fertilizer ,water ,and pesticides.because farmers can decrease the fertilizers and pesticides they use ,there is less runoff into groundwater and rivers
5.	Business Model (Revenue Model)	Systems can recommend calibrated doses of fertiliser,targeted irrigation and early identification of diseases or substandard conditions.software can make recommendations,tigger alarm and visualise data,report and insights using a web browser,mobile data,tablet device.
6.	Scalability of the Solution	The IOT scalability to refer the ability to go from prototype to production in a seamless way.