

Project Design Phase-I
Proposed Solution Template

Date	24 September 2022
Team ID	PNT2022TMID34075
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)	Farmers are facing problem in protecting their crops from animals and birds and they are not aware of the soil moisture levels, temperature and humidity values.
2.	Idea / Solution description	To protect crop from animals and birds virtual fencing is developed. To monitor the soil moisture levels, temperature and humidity values various sensors are used. Smoke sensors are used to detect fire. Also an alert message is send to the farmers if any animals or birds or any unknown persons are detected around.
3.	Novelty / Uniqueness	Virtual fencing is the uniqueness of our project.
4.	Social Impact / Customer Satisfaction	The crops will be protected and it increases productivity. This makes the farmer so happy and he will get the profit too.
5.	Business Model (Revenue Model)	This proposed solution will be cost effective so its implementation cost will be less.
6.	Scalability of the Solution	Can scale well in all kinds of farm land areas.