

Project Design Phase-I
Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMID27393
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 crop protection system helps the farmers in protecting the crop from animals,birds and pest which destroys the crop.
2.	Idea / Solution description	This project is based on surveillance with an animal ward-off system employed in farmlands in order to prevent crop vandalization by wild animals. In addition to providing protection this system distinguishes between an intruder and an authorized person using RFID's, various PIR sensors are deployed in the area to detect any motion and hence turns ON a camera when movement is detected, thereby providing real time monitoring.
3.	Novelty / Uniqueness	Agriculture is the backbone of the economy but,because of the animals,birds and pest interference in the agricultural lands,there will be huge loss for the crops.
4.	Social Impact / Customer Satisfaction	With the use of Sound Trap,we can deliver environmental benefits in the form of safe,Healthy and affordable food.By using sound trap will probably maintain and even increase the yield.
5.	Business Model (Revenue Model)	We advocate for establishment of crop protection adequacy standards that would allow a market system to maximize efficiency.
6.	Scalability of the Solution	*This can be developed to a scalable product by using sensors and transmitting the data and analysing the data in cloud.