PROJECT DESIGN PHASE-1
PROPOSED SOLUTION

TEAM ID: PNT2022TMID17561

Date	12 october 2022
Team ID	PNT2022TMID17561
Project Name	IOT based Smart Crop Protection For Agriculture
Maximum Marks	2 Marks

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Farmers can protect their crops from animals and birds that might otherwise damage them with the use of an intelligent crop protection system. This method aids farmers in keeping track of the temperature and humidity levels nearby the field, as well as the levels of soil moisture within the field. The mobile application can be used to control the field's motors and sprinklers.
2.	Idea / Solution description	**Main Solution:** ❖ Our project's primary goal is to create an intruder alert system for the farm in order to prevent animal and fire losses. ❖ Agricultural fences are a very successful technology for protecting wild animals. ❖ Utilize AGRVI's intelligent pest alarms to improve crop protection.
3.	Novelty / Uniqueness	With the use of GPS technology, this intelligent crop protection system uses cloud DB data to save crop information and alerts the owner around-the-clock without their physical presence.

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4.	Social Impact / Customer Satisfaction	❖ Assists farmers in understanding key elements like water, topography, aspect, vegetation, and soil kinds. ❖ By integrating data along the supply chain, it also enables verification efforts, allowing manufacturing claims to be verified. ❖ Control of weeds and integrated management.
5.	Business Model (Revenue Model)	❖ Community based solution. ❖ Increase the proper products cost. ❖ Canvas a business model.
6.	Scalability of the Solution	Farmers can make significant profits with fully automated, limited resources thanks to smart agricultural systems. Animals and humans won't be harmed or injured by the developed system. Low cost fix, less need on electricity Simple fix that will work for the farming community.