

**PROJECT DESIGN PHASE-I**  
**PROPOSED SOLUTION TEMPLATE**

Date	19 September 2022
Team ID	PNT2022TMID35809
Project Name	IOT based Smart Crop Protection System
Maximum Marks	2 Marks

**PROPOSED SOLUTION TEMPLATE:**

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Crops in farms are many times ravaged by local animals like buffaloes, cows, goats, birds etc. This leads to huge losses for the farmers. It is not possible for farmers to barricade entire fields or stay on field 24 hours and guard it.
2.	Idea / Solution description	Crop protection solutions use CNN technique to collect and analyze large amounts of data. It provides farmers with detailed culture and soil conditions for plant protection planning using sensors.
3.	Novelty / Uniqueness	The design system will not be dangerous to animal and human being, and it protects farm.
4.	Social Impact / Customer Satisfaction	User friendly and cost effective. Not much effort is required for the farmer to protect the field, and for crop irrigation.
5.	Business Model (Revenue Model)	We provide 24x7 crop protection and automatic sprinkler system. This model increases the yield and productivity, thereby increase the profit.
6.	Scalability of the Solution	This system is capable of continuously monitoring the soil conditions, also helps in farmers to increase the crop yield. This system can be further improved, so that the entire irrigation system becomes automatic.