Project Design Phase-I
Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMID04613
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)	Crops in farms are many times ravaged by local animals like buffaloes, cows, goats, birds etc.... This leads to huge losses for the farmer.
2.	Idea / Solution description	Farmers may now increase production and decrease waste thanks to sensors for light, humidity, temperature, soil moisture, etc. Furthermore, farmers may check on the state of their fields from anywhere with the aid of these sensors.
3.	Novelty / Uniqueness	Certain cultural practices can prevent or reduce insect crop damage. These include destination of crop residues, deep plowing, crop rotation, use of fertilizers, strip cropping, irrigation, and scheduled planting operation.
4.	Social Impact / Customer Satisfaction	conservation of water. greatly reduces time. a rise in production quality. Production intelligence and real-time data. remote observation.
5.	Business Model (Revenue Model)	Since everyone can understand how to utilise the product, it is simple for them to do so for their safest organisation. The product is heavily promoted across all mediums. Due of its affordability, it even protects small farms from natural calamities.
6.	Scalability of the Solution	Integration might be the use of crop residue to increase animal protection, and the use of manures to increase crop protection. Integration is a way of maximizing outputs (food for the family, farm protect for sale, ect.)and minimizing input(purchase, labour)