Project Design Phase 1
Proposed Solution Document

Date	9 October, 2022
Team ID	PNT2022TMID33206
Project Name	IoT Based Smart Crop Protection System for Agriculture
Maximum Marks	2 Marks

S. No	Parameter	Description
1.	Problem Statement (Problem to be solved)	Low productiveness is due to crop ruined by means of untamed weather conditions untamed animal attacks, small types of species, insects, some hazardous snakes and weather circumstances.
2.	Idea/Solution description	To implement crop protection in agriculture based on IOT using Arduino board with DHT 11 Humidity & Temperature Sensor, PIR sensor, LDR sensor, HC-SR04 Ultrasonic. All the sensors and camera are link-up with ARM Cortex-A.
3.	Novelty/Uniqueness	A message shall be produced robotically to the recorded cellular quantity making use of a SIM900A to the admin.
4.	Social Impact/Customer Satisfaction	It early prevents the crop and field from animal attacks, small types of species, insects, some hazardous snakes and weather circumstances.
5.	Business Model (Revenue Model)	This product can be utilized by farmers and is a productive and helpful item in agriculture for preventing crop from animal attacks, small types of species, insects, some hazardous snakes and weather circumstances.

6.	Scalability of the Solution	It is trying to execute this technique as we need to introduce on Arduino gadget which was modified with an Arduino that takes received signals from sensors. Easy maintenance. Cost is very low