PROJECT DESIGN PHASE – I
PROPOSED SOLUTION

Date	19 September 2022
Team ID	PNT2022TMID35844
Project Name	IoT Based Smart Crop Protection System for Agriculture
Maximum Marks	2 Marks

Proposed Solution :

S.No	Parameter	Description
	Problem Statement (Problem to be solved)	➢ Low productivity of crops due to wild animals attacking the cultivation field and bad weather condition. ➢ Time consumption and energy spent being high still lead to less productivity. ➢ Financial and production loss is high. ➢ Loss in productivity leads to food scarcity for the growing population.
	Idea / Solution description	➢ An intelligent crop protection system helps the farmers in protecting the crop from the animals and birds which destroy the crop. ➢ This system also helps farmers to monitor the soil moisture levels in the field and also the temperature and humidity values near the field. ➢ The motors and sprinklers in the field can be controlled using the mobile
	Novelty / Uniqueness	Responsible Consumption and production. End of poverty increasing access to natural resources and new technology. Climate-related negative and positive aspects should be investigated utilizing IoT based sensors.

	Social Impact / Customer Satisfaction	Double the agriculture productivity and incomes of small scale food producers
	Business Model (Revenue Model)	The business model will be a freemium model with an add-on subscription. The Freemium model brings in customers who get used to basic services like tracking personnel diet which lures them to join subscriptions and gives valuable suggestions
	Scalability of the Solution	Upgrading technological capabilities across industrial sectors