Project Design Phase-I
Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMID33604
Project Name	Project - SmartFarmer - IoT Enabled Smart Farming Application
Maximum Marks	2 Marks

Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Farmers are under pressure to produce more food and use less energy and water in the process. A remote monitoring and control system will help farmers deal effectively with these pressures. Irrigated farms typically deploy a single pump to irrigate 80 to 100 acres of land.
2.	Idea / Solution description	Smart farming is an emerging concept that refers to managing farms using technologies like IoT, robotics, drones and AI to increase the quantity and quality of products while optimizing the human labour required by production.
3.	Novelty / Uniqueness	Unlike genetic resources found in the natural world, agricultural crops are truly a human mediated form of biodiversity. Through the process of domestication, human beings have for over 10,000 years been selecting and breeding plant species from the wild and creating new diversity adapted specifically for cultivation
4.	Social Impact / Customer Satisfaction	It determines how happy customers are with a company's products, services, and capabilities. Customer satisfaction information, including surveys and ratings, can help a company determine how to best improve or changes its products and services.
5.	Business Model (Revenue Model)	The smart farming devices designed in such a way that should be profitable compared to traditional farming methods and the device should be reusable . The cost of the devices should be less compared to cost required for

		traditional farming. Hence the product must be profitable it does not make losses in any cases.
6.	Scalability of the Solution	The ability of the device's to increase or decrease in performance and cost in response to changes in application. The property of a device to handle a growing amount of works by adding resource to system.