Project Design Phase-I
Proposed Solution

Date	17 October 2022
Team ID	PNT2022TMID12810
Project Name	SmartFarmer - IoT Enabled Smart FarmingApplication
Maximum Marks	2 Marks

Proposed Solution :

S.No	Parameter	Description
1.	Problem Statement (Problem to be solved)	✓ In order to irrigate the field, farmers must wait in the field until the water covers the entire field. ✓ Another problem is the power supply. It may vary from village to village. ✓ Lack of information, high adoption, cost and security concerns are some of the biggest challenges associated with loT in agriculture.
2.	Idea / Solution description	✓ Farmers can better monitor their fields and maintain the humidity levels with the use of Smart Farming Techniques just as they do with precision agriculture. ✓ In Farms, the data collected by sensors can be used to determine the weather pattern based on humidity, temperature, moisture, and dew detections.
3.	Novelty / Uniqueness	**NOTIFICATION -** Sensors in the Internet of Things collect data from the farming environment, including moisture in the soil, humidity in the air, temperature, soil nutrient content, pest images, and water quality. **REMOTE ACCESS -** It helps the farmer to operate the motor from anywhere.
4.	Social Impact / Customer Satisfaction	✓ Reduces the wages that is provided for labours working in the agricultural field. ✓ It saves a lot of time using remote access, ✓ Easily identify maintenance

		needs,build better products, send personalized communications, and a lot more. ✓ IoT can also help e-commerce businesses thrive and increase sales.
5.	Business Model (Revenue Model)	Model representing the number of users per month can be used to enhance from business perspective.
6.	Scalability of the Solution	• In smart farming, scalability refers to the ability of a system to adapt to changing conditions, such as an increase in the number of technologies, such as sensors and actuators.