Project Design Phase-I
Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMID35659
Project Name	SmartFarmer - IoT Enabled Smart Farming Application
Maximum Marks	2 Marks

Proposed Solution :

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	• Remote irrigation considering various parameters like temperature, soil moisture and humidity. • Efficient usage of water such as to maximise the yield.
2.	Idea / Solution description	• IoT enabled Smart Farming using various sensors which helps to make the decision more precise.
3.	Novelty / Uniqueness	• Considering weather forecast and making accurate decision. • Using solar energy to power IoT device and sensors. • Alert farmers when attention is required and also notify if any fault occurs in the motor.
4.	Social Impact / Customer Satisfaction	• Reduces Human effort and almost saves seventy percent of time of farmers. • Eco-friendly and reduces the water wastage. • Automate the process and makes the farmers to get used to technology.
5.	Business Model (Revenue Model)	• Subscription based model, charges for predicting and suggesting precise decision. • Charging for installation and replacement of sensors and other hardware.
6.	Scalability of the Solution	• Easily scalable even for huge farms just by increasing the number of sensor and changing the communication medium. • Analysis of data is also scalable and different decisions can be made for different regions of the same farm. • System is dynamic and can be customised for each crop accordingly.