Project Design Phase-I
Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMID41919
Project Name	Smart Farmer – IoT Enabled Smart Farming Application
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Aids the farmer in regulating motor pumps from a mobile application and monitoring several field factors, such as soil moisture, temperature, and humidity, using sensors.
2.	Idea / Solution description	As is the case of precision Agriculture Smart Farming Technique Enables Farmers better to monitor the fields and maintain the humidity level accordingly. The Data collected by sensors, In terms of humidity, temperature, moisture, and dew detections help in determining the weather pattern in Farms. So cultivation is done for suitable crops.
3.	Novelty / Uniqueness	ALERT MESSAGE – IoT sensor nodes collect information from the farming environment, such as soil moisture, air humidity, temperature, nutrient ingredients of soil, pest images, and water quality, then transmit collected data to IoT backhaul devices. REMOTE ACCESS – It helps the farmer to operate the motor from anywhere
4.	Social Impact / Customer Satisfaction	The problems faced by the farmers in the process of irrigation gets solved and this full fills and saves their crops from over irrigation
5.	Business Model (Revenue Model)	Farmers may easily get information about light, temperature, soil moisture, crop health etc., with the help of sensors. So the revenue increases
6.	Scalability of the Solution	The design scale of solution has been planned in a compact manner.