Project Design Phase-I
Proposed Solution Template

Date	12 October 2022
Team ID	PNT2022TMID18233
Project Name	Smart Farmer- IoT enabled Smart farming
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)	• Farmers can monitor all the sensor parameters by using a web or mobile application even if the farmer is not near his field. • They can make the decision whether to water the crop or postpone it by monitoring the sensor parameters and controlling the motor pumps from the mobile application itself.
2.	Idea / Solution description	• IoT-based agricultural system helps the farmer in monitoring different parameters of his field like soil moisture, temperature and humidity using some sensors.
3.	Novelty / Uniqueness	• We are using some extra sensors like rain drop sensor. • By combining the results from soil moisture sensor and rain drop sensor , we fix a threshold to run the dc motor.
4.	Social Impact / Customer Satisfaction	• It will ease the work of farmer. • With this, they can handle multiple fields at the same time.
5.	Business Model (Revenue Model)	• By using low- cost sensors. • Farmer friendly applications.
6.	Scalability of the Solution	• Scalability in smart farming refers to the adaptability of a system to increase the capacity of technology devices such as sensors and actuators.