

Project Design Phase-I
Proposed Solution Template

Date	29 September 2022
Team ID	PNT2022TMID16870
Project Name	SmartFarmer - 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)	To facilitate the ability of the farmer to increase productivity by effectively managing the resources and obtaining a greater harvest with the aid of the Internet of Things and AI/ML. By incorporating IoT sensors, including those needed for the automation process, such as moisture, temperature, light-dependent resistor, humidity, and air quality. The system has a special algorithm that compares sensor data in addition and adjusts the watering, usage of fertilizers and ventilation system as necessary. Real-time data are statistical measures that can be displayed graphically and provide a clear report on the cultivation.
2.	Idea / Solution description	IOT-based agricultural application
3.	Novelty / Uniqueness	Gather information on the various soil types and predict the yield for the targeted crop to be successfully grown.
4.	Social Impact / Customer Satisfaction	Reduce the workload—time management. Farmers can monitor the sensors' parameters through mobile applications.
5.	Business Model (Revenue Model)	Cost Efficient Fuel Efficient
6.	Scalability of the Solution	To increase efficiency, we may combine our current smart farming tools with new innovations.