Project Design Phase-I
Proposed Solution Template

Date	25 October 2022
Team ID	PNT2022TMID22393
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)	✓ Supplying water to the land is one of the challenging tasks for the farmers. ✓ Getting proper internet connection at every area in village is a difficult task. ✓ The biggest challenge in smart farming toward farmers is lack of information, cost and illiterate.
2.	Idea / Solution description	✓ Smart Farming enables farmers to monitor and maintain the temperature and humidity level accordingly. ✓ Giving a free knowledge session to the farmers get aware of do's and don'ts in the smart farming application.
3.	Novelty / Uniqueness	✓ IoT sensors collect data from the farming environment such as humidity, temperature, soil moisture, pest images, and then transmit data to the cloud services. ✓ So the farmers can operate the motor from anywhere.
4.	Social Impact / Customer Satisfaction	✓ It makes the labours jobless. ✓ It saves a lot of time. ✓ Damage to the crops can be avoided. ✓ It makes wealthy society. ✓ Maintenance needs can be easily identified. ✓ Reduces the wages for the labours working in the agricultural field.

5.	Business Model (Revenue Model)	✓ By collecting the fair amount of money from the person who crossed the barrier which was used to protect the crops. ✓ By making use of the mobile applications for tracking the information on soil, water and air.
6.	Scalability of the Solution	✓ Scalability in smart farming refers to the adaptability of a system to increase the capacity. Eg, the number of technology devices such as sensors and actuators, while enabling timely analysis.