Project Design Phase-I
Proposed Solution Template

Date	20 October 2022
Team ID	PNT2022TMID38150
Project Name	Smart Farmer – IOT Enabled Smart FarmingApplication
Maximum Marks	4 Marks

Proposed Solution Template:

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

S.No.	Parameter	Description
1.	Problem Statement (Problem to besolved)	○ Most of the farmers use large portions of farming land and it becomes very difficult to reach and track each corner of large lands. Sometime there isa possibility of uneven water sprinkles. ○ Challenges faced by IOT in agriculuture are high adoption, security concerns, information lackness.
2.	Idea / Solution description	○ Smart Farming has enabled farmers to reduce waste and enhance productivity with the help ofsensors (light, humidity, temperature, soil moisture,etc..) ○ Further with the help of these sensors, farmers canmonitor the field conditions from anywhere.
3.	Novelty / Uniqueness	○ Role of SENSORS : IOT smart agriculture productsare designed to help monitor crop fields using sensors and by automating irrigation systems. ○ As a result, farmers and associated brands can easily monitor the field conditions from anywherewithout any hassle.
4.	Social Impact / CustomerSatisfaction	○ Water conservation ○ Saves lot of time ○ Increased quality of production ○ Real time dataand production insight. ○ Remote monitoring.
5.	Business Model (Revenue Model)	
6.	Scalability of the Solution	○ Scalability in smart farming refers to the adaptabilityof a system to increase the capacity , the number of technology devices such as sensors and actuators.