

**Project Design Phase-
I Proposed Solution Template**

Date	19 September 2022
Team ID	PNT2022TMID08508
Project Name	Smart Farmer- IoT Enabled smart Farming Application
Maximum Marks	2 Marks

Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	<ul style="list-style-type: none"> Watering the field is a difficult process, Farmers have to wait in the field until the water covers the whole farm field. Power Supply is also one of the problems. In Village Side, the power supply may vary. The Biggest Challenges Faced by IoT in the Agricultural Sector are Lack of Information, High Adoption, Cost and Security Concerns, etc
2.	Idea/Solution description	<ul style="list-style-type: none"> As in 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	<p>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.</p> <p>REMOTE ACCESS – It helps the farmer to operate the motor from anywhere.</p>

4.	SocialImpact/Customersatisfaction	<ul style="list-style-type: none"> • Reducethewagesforlaborswhoworkint heagricultural field. • Itsavesalotof time. • IoT can help improve customerrelationshipsbyenhancingthecus tomer'soverall experience. • Easily identify maintenance needs, buildbetter products, send personalizedcommunications,and more. • IoTcanalsohelpe- commercebusinesses thriveand increasesales. • Itmakeawealthysociety
5.	BusinessModel (RevenueModel)	The project involvesThermography sensors which is cheaperthanthe existingideas
6.	ScalabilityoftheSolution	Scalability in smart farming refers to theadaptabilityofasystemtoincreasethecapacity,f or example, the number of technology devicessuch as sensors and actuators, while enablingtimelyanalysis.