

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

Date	7 October 2022
Team ID	PNT2022TMID25834
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)	IoT has been making deep inroads into sectors such as manufacturing, health-care and automotive. When it comes to food production, transport and storage, it offers a breadth of options that can improve India's per capita food availability. Sensors that offer information on soil nutrient status, pest infestation, moisture conditions etc. which can be used to improve crop yields over time.
2.	Idea / Solution description	Smart Farming has enabled farmers to reduce waste and enhance productivity with the help of sensors (light, humidity, temperature, soil moisture, etc.) and automation of irrigation systems. Further with the help of these sensors, farmers can monitor the field conditions from anywhere. Internet of Things based Advanced Farming is highly efficient when compared with the conventional approach.
3.	Novelty / Uniqueness	The advent of the GPS has created breakthrough advances in many fields of science and technology. The GPS provides the most important parameters for locating a device, such as location and time. GPS systems have been successfully deployed in many fields, such as smartphones, vehicles, and IoT ecosystems.
4.	Social Impact / Customer Satisfaction	Smart agriculture with the help of automation and sensor technology, benefits the society in the following ways: Conservation of water, Optimization of energy resources, better crop yield the volunteer for further use.
5.	Business Model (Revenue Model)	The farm is the main customer in all business model. The government could play the role of the business owner but also is a customer for the framework.

6.	Scalability of the Solution	The adaptability of the system to increase the capacity ,for example, the number of technology devices such as sensors and actuators while enabling timely analysis.
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