Project Design Phase-I Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMID11082
Project Name	Project – 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)	The Farmer wants to monitor the environmental conditions so that he can improve the yield of the efficient crops
2.	Idea / Solution description	Successful crop production demands a thorough understanding of your soil. Analysis and insights gleaned over the years will help you plan your field rotation and fertilizing needs. Nutrients, hours of sunlight, and growing degree days all come into play as you schedule the care of your crops. Planting, irrigation, and fertilizer or pesticide application will rely on soil conditions during the growing season.
3.	Novelty / Uniqueness	IoT based Smart Farming improves the entire Agriculture system by monitoring the field in real-time. With the help of sensors and sending the notifications , the Internet of Things in Agriculture has not only saved the time of the farmers but has also reduced the extravagant use of resources such as Water and Electricity.
4.	Social Impact / Customer Satisfaction	The main ideology is to help the agriculture has not only saved the time of the farmers but has also reduced the extravagant use of resources such as Water and Electricity.
5.	Business Model (Revenue Model)	IoT smart farming solutions is a system that is built for monitoring the crop field with the help of sensors (light, humidity, temperature, soil moisture, crop health, etc.) and automating the irrigation system. The farmers can monitor the field conditions from anywhere.
6.	Scalability of the Solution	Our system can operated over various network providing a received signal strength indication and without any modification.