Project Design Phase-I Proposed Solution

Date	19 September 2022
Team ID	PNT2022TMID30750
Project Name	Project – SmartFarmer - IoT Enabled Smart Farming Application
Maximum Marks	2 Marks

Proposed Solution:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	 Ideally, each field should get just the right amount of water at just the right time. Under-watering causes crop stress and yield reduction. Overwatering can also cause yield reduction and consumes more water and fuel than necessary and leads to soil erosion and fertilizer, herbicide, and pesticide runoff.
2.	Idea / Solution description	 Smart Farming systems uses modern technology to increase the quantity and quality of agricultural products. This enables the farmers better to monitor the fields and maintain the humidity level accordingly.
3.	Novelty / Uniqueness	 The development of lightweight and powerful hyperspectral snapshot cameras that can be used to calculate biomass development and fertilization status of crops. Moreover, decision-tree models are available now that allow farmers to differentiate between plant diseases based on optical information

		 Virtual fence technologies allow cattle herd management based on remote-sensing signals and sensors or actuators attached to the livestock.
4.	Social Impact / Customer Satisfaction	 Iot helps in improving customer relationships by enhancing customers overall performance It also saves a lot of Time This technology reduces the works to be done by the farmers
5.	Business Model (Revenue Model)	 The revenue model represents a gradual rise in both no of users and the income
6.	Scalability of the Solution	 Scalability in smart farming refers to the adaptability of a system to increase the capacity.