Project Design Phase-I
Proposed Solution

Date	23 September 2022
Team ID	PNT2022TMID33489
Project Name	Smart Farmer-IOT Enabled Smart Farming Application.
Maximum Marks	2 Marks

PROPOSED SOLUTION :

S.No	Parameter	Description
1.	Problem Statement (Problem to be solved)	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	Wireless sensor network collects the data from different types of sensors and then it sends to main server using wireless protocol.
3.	Novelty / Uniqueness	Wireless sensors gather data about local conditions and share findings with other powerful components or platforms for further processing. Networks should be easy to scale. Developers must be able to grow their wireless sensor networks efficiently without having to invest significant capital to expand
4.	Social Impact / Customer Satisfaction	Wireless Sensor Network (WSN)is used to collect, monitor and analyse the data from the field of agriculture. This interdisciplinary technology will boost the crop productivity and maintain quality for example, monitoring the pest and disease control, animal tracking and strength of the crop.Farmers are generally

		unaware of the IoT solutions available to them with less than 5% admitting to having knowledge of the subject;68% of farmers were hearing the term for the first time yet after making them understand about IOT operations,customers are satisfactory.
5.	Business Model (Revenue Model)	Innovative Business Model (IBM)
6.	Scalability of the Solution	IoT scalability refers to the ability to go from prototype to production in a seamless way.The solution given is scalable.