## Project Design Phase-I Proposed Solution

Date	19 September 2022
Team ID	PNT2022TMID34125
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)	Farmers are under pressure to produce more food and use less energy and water in the process. A remote monitoring and control system will help farmers deal effectively with these pressures.
2.	Idea / Solution description	It involves using various smart farming technologies, the internet of things (IoT) devices, big data analytics, remote sensing and robotics. It is scientifically proven that using these technologies increase profit, minimizes waste and maintains the environment's quality.
3.	Novelty / Uniqueness	<ul> <li>Remote Management with farms         located in far-off areas and distant lands,         farmers are seeking a better solution to         their management issues.</li> <li>Real-Time Crop Monitoring</li> <li>Crop Protection</li> <li>Soil Testing &amp; its Quality</li> <li>Management with farmers being Remote         Real-Time Analysis of Soil Demand</li> <li>Smart Greenhouses</li> </ul>

	Social Impact / Customer	The important of direct marketing for highqualit
	Satisfaction	farm products has increased during the past few
		years. This analyzes the impact of customer
		satisfaction and its driving forces for farmer-to-
		customer direct marketing. The result emphasize
		the role of store atmosphere, customer service
		and product quality as the main factors which
		influence customer satisfaction.
5.	Business Model (Revenue	Models have been developed for many
	Model)	dimensions of the agricultural enterprise.
		Incorporating pertinent models whilst managing
		the trade-offs between complexity and usability
		is a key challenge for enabling a Smart Farm.
		Smart farming envisages the harnessing of
		Information and Communication Technologies a
		an enabler of more efficient, productive, and
		profitable farming enterprises. Such technologie
		do not suffice on their own; rather they must be
		judiciously combined to deliver meaningful
		information in near real-time.
6.	Scalability of the Solution	Scalability in smart farming refers to the
		adaptability of a system to increase the capacity
		Scalability and scaling approach of a good
		solution will depend very much on the economic
		benefit and on the increased welfare of the farn
		inhabitants.