

Project Design Phase-I
Proposed Solution

Date	23 September 2022
Team ID	PNT2022TMID42737
Project Name	Project – Smart Farmer application using IoT
Maximum Marks	2 Marks

S. No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	IoT-based agriculture systems must assist the farmer in monitoring different parameters of his field with sensors controlled with the help of mobile applications. There should be a huge turnover for farmers in every aspect.
2.	Idea / Solution description	We have proposed a solution to the day-to-day problems faced by farmers, we will be controlling sensors and water supply with the help of a mobile phone without going to the field.
3.	Novelty / Uniqueness	Every sensor can be controlled with a mobile application, even if the land is uneven we can measure the soil moisture and water can be supplied.
4.	Social Impact / Customer Satisfaction	This creates a huge impact on agriculture. It increases work efficiency and better resource management.
5.	Business Model (Revenue Model)	We have to define first the business owner and main stakeholders. The farmer is the main customer in all business models. And the government is the major stakeholder. Farmers can purchase items at low cost on Pradhan Mantri Krishi Sinchai Yojana Scheme. And many companies are ready to provide sensors at low cost. Our mobile application will be free of cost so, farmers can attain the most benefit from this system.
6.	Scalability of the Solution	<p>This system can be connected to wireless networks and real-time data is stored in the cloud as well as displayed on mobile phones.</p> <p>Simplified and Robust Supply Chain, since sensors are abundant and it's a one-time investment.</p> <p>It increases revenue and reduces the workload of farmers.</p>