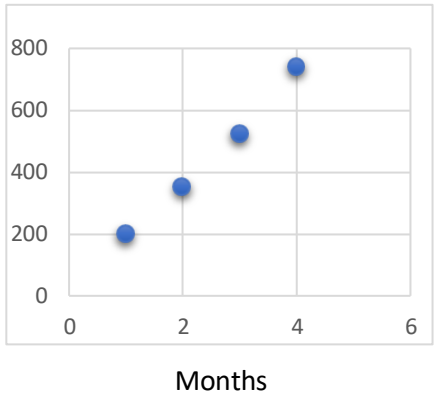
Project Design Phase-I
Proposed Solution

Date	29 October 2022
Team ID	PNT2022TMID22120
Project Name	Project – Smart Farmer-IoT Enabled smart Farming Application
Maximum Marks	2 Marks

Proposed Solution :

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	• Farmers often find it difficult to do their personal tasks while monitoring the field. • Farmers spend extra time watering their fields because they have to wait for the water to completely cover the entire area. • Farmers also need to be aware of the soil's moisture, temperature, and humidity levels because these factors have an impact on plant development and crop yield. • The motor's power consumption procedure. Only occasionally is electricity available in communities.
2.	Idea / Solution description	• Description of an idea or solution • By using sensors to gather data on temperature, humidity, soil moisture, and other variables and providing that data to farmers, we can simply improve plant productivity. • Precision farming uses drones to monitor crop status and identify which crops need nutrients and water, among other things. We can use time control systems to turn on and off motors and irrigation systems.
3.	Novelty / Uniqueness	Remote access: • It enables farmers to remotely turn on and off irrigation systems and motors. Allert messages; • IOT sensors, such as those that measure temperature, humidity, soil moisture, and motion, gather **data** from the farming environment and pass it to a controller unit (such as

		an Arduino UNO) so that it can be sent to a communication device to reach the farmers (customer).
4.	Social Impact / Customer Satisfaction	• It frequently saves time. • It lessens the requirement for additional labour. • It has the potential to boost production efficiency. • Offer healthy, organic foods. • IoT can also boost sales in e-commerce businesses. • It creates a prosperous society.
5.	Business Model (Revenue Model)	Revenue (No. of Users vs Months) 
6.	Scalability of the Solution	• Scalability in smart farming refers to a system's ability to expand its capacity, such as the amount of technological components like sensors and actuators, while allowing for prompt analysis.