

**Project Design Phase-I
Proposed Solution Template**

Date	19 September 2022
Team ID	PNT2022TMID15940
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)	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	It collects the data from different types of sensors and it sends the value to the main server. The Data collected by sensors, in terms of humidity, temperature, moisture, and dew detections help in determining the weather pattern in Farms. So cultivation is done for suitable crops.
3.	Novelty / Uniqueness	Collect the data about the different types of the soil and predict the yield about, in which soil the particular crop will be efficiently cultivated. It depends on IOT thus eliminating the need of physical work of farmers and thus increasing the productivity in every possible manner.
4.	Social Impact / Customer Satisfaction	Reduces the wages for labour who work in the agricultural field. It saves a lot of time. It makes a wealthy society.
5.	Business Model (Revenue Model)	For first one week we will give free access to this app then, after using this app they will come to know about the efficiency of this app. Then according to their convenience, they can make use of this application by using premium either a month or a year.
6.	Scalability of the Solution	Decrease farmer's burden. Easy to control and monitoring. Adopt and learn new technologies.