

## Project Design Phase-I Proposed Solution Template

Date	24 September 2022
Team ID	PNT2022TMID44390
Project Name	Smart farmer- IOT enabled smart farming application
Maximum Marks	2 Marks

### Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	India is a Global agricultural powerhouse which is considered as the key for Human Progress. Farmers are usually involved in watering the crops at scheduled times which requires a lot of human intervention, they involve a high degree of guesswork and can be extremely wasteful.
2.	Idea / Solution description	We can use precision farming methodologies. They can make the decision whether to water the crop or postpone it by monitoring the sensor parameters and controlling the motor pumps from the mobile application itself. Automation of watering crops reduces human intervention.
3.	Novelty / Uniqueness	Smart agriculture farming system is a new idea of farming in agriculture, because which uses IOT technology to monitor the crop 24/7 and sends the information to the cloud. This emerging system increases the quality and quantity of agricultural products. IOT technology provides the information about farming fields and then takes action depending on the farmer input.
4.	Social Impact / Customer Satisfaction	Weather forecasts and sensors that measure soil moisture mean watering only when necessary and for the right length of time.
5.	Business Model (Revenue Model)	IOT in business can instruct systems to autonomously execute transactions in supply chains when certain conditions have been met. Increase productivity and reliability in real time environment
6.	Scalability of the Solution	The ability to increase available resources and system capability without the need to go through a major system redesign or implementation.