

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

Team ID	PNT2022TMID12850
Project Name	Smart farmer - IoT Enabled Smart Farming Application

**Proposed Solution Template:**

S.No	Parameter	Description
1.	Problem Statement (Problem to be solved)	In agriculture, there are two major problems one is unpredictable climate change and another one is the yields of the crops that have been damaged by improper irrigation. Our project will give the solution to overcome these problems with help of IOT.
2.	Idea / Solution description	It collects the data from different types of sensors, and it sends the value to the main server. It also collects the weather data from the weather API. The ultimate decision, whether to water the crop or not is taken by the farmer using mobile application.
3.	Novelty / Uniqueness	It depends on IOT thus eliminating the need of physical work of farmers and thus increasing the productivity in every possible manner. The weather data are taken from the reliable source.
4.	Social Impact / Customer Satisfaction	The information collected are from reliable sources and hence the farmer could make more precise decision, thereby the productivity increases.
5.	Business Model (Revenue Model)	Smart farming is an advanced and innovative way to get maximum cultivation and minimize the human efforts.
6.	Scalability of the Solution	Automatic farming equipment adjustment is made feasible by integrating information such as crops/weather and equipment to automatically alter temperature, humidity, and so on. With the use of sensors, it has enabled farmers to reduce waste and increase output.