

Project Design Phase-I
Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMID14876
Project Name	Project - Smart farmer -lot based smart farming application
Maximum Marks	2 Marks

Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	To enable farmers to remotely monitor the crops and field using smart devices.
2.	Idea / Solution description	We propose a solution using sensors and cloud data storage and an mobile application which helps farmers monitor the crops condition like temperature,soil moisture,humidity.
3.	Novelty / Uniqueness	Precision agriculture is a farming management concept where we apply precision measurements based on soil variations,whereas smart farming focuses on accessing and applying data.But digital data from smart farming can be used for informing precision farming.
4.	Social Impact / Customer Satisfaction	Farmers state that it gives them a picture of what's happening on the ground with constant data sent to connected devices 24/7.It helps them track,recover,monitor,gives notification when anything is out of range.
5.	Business Model (Revenue Model)	It is estimated globally smart agriculture market revenue in 2019 is USD 11.9 Billion. It is estimated that new smart frams will feed our population which may explode to 9.6 billion by 2050. Global smart agriculture market review is predicted as 25.3 Billion USD by 2027. The compound annual growth rate over this forecasted period is 11.4%.
6.	Scalability of the Solution	Can helps to monitor giving five kilometer tracking range. Can be done with continuous readings on temperature,gas,humdity,pH,smoke detection,water and fuel levels.