

Project Design Phase-I
Proposed Solution Template

Date	25 September 2022
Team ID	PNT2022TMID35924
Project Name	Project - 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)	Farmers are trying to overcome problems related to agriculture such as loss of crops due to fire accidents, improper growth of crops due to nutrition deficiency in soil and drying up of plants due to lack of moisture in agriculture field.
2.	Idea / Solution description	To design a self- reliant system that provides solution for above mentioned problems with the use of IoT technologies such as flame sensor, soil NPK sensor and soil moisture sensor.
3.	Novelty / Uniqueness	Integration flame sensor, NPK sensor and soil moisture sensor into a single unit, voice alert given to farmer when the farm catches fire and also when the fire gets extinguished in the farm.
4.	Social Impact / Customer Satisfaction	Remote monitoring of farm land, reduction in loss of crops, reduction in financial risk, increasing in crop yield, efficient utilization of available resources.
5.	Business Model (Revenue Model)	Maintenance cost of sensors collected from farmers occasionally, installation cost, cost for app usage.
6.	Scalability of the Solution	Increase in accuracy of sensors and reduction in delay of data transfers while accommodating large number of users.