

Project Design Phase-I
Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMID04699
Project Name	Smart Farmer – IOT Enabled Smart Farming Application
Maximum Marks	2 Marks

Proposed Solution :

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Difficulty in selecting suitable crop for the soil.
2.	Idea / Solution description	A handheld Soil health profiler can solve these issues by giving the soil nutrient details and recommend suitable crops.
3.	Novelty / Uniqueness	It takes the inputs like the geographical location, season of the year to make the recommender system.
4.	Social Impact / Customer Satisfaction	It improves soil quality and soil fertility. It is a very time efficient process and gives more yields for the farmers.
5.	Business Model (Revenue Model)	The project involves an NodeMCU and soil NPK sensor which is cheaper than the existing ideas.
6.	Scalability of the Solution	Based on all the inputs from the system , it recommends the required crops and fertilizer to the soil.