

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

Date	19 September 2022
Team ID	PNT2022TMID51923
Project Name	Project - IOT Based Smart Crop Protection System for Agriculture
Maximum Marks	2 Marks

**Proposed Solution:**

Project team shall fill the following information in proposed solution.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Develop affordable app-based solution for Soil health monitoring and suggest which crop to be sown based on it. (Technology Bucket: IoT, AI, ML etc.)
2.	Idea / Solution description	Create app-based solution to detect soil parameters like moisture content, temperature, relative humidity, nutrient, Ph, CEC, and NPK etc. and provide crop suggestions to be produced based on soil parameters & environment values.
3.	Novelty / Uniqueness	Provide remedies & alerts on soil deficiencies like Watering for low Moisture level, Fertilizers for Nutrient deficiencies etc.
4.	Social Impact / Customer Satisfaction	Farmers can take immediate actions resulting better crop produces and farmers have better income. High Yield and prescriptive guidance.
5.	Business Model (Revenue Model)	GSM model
6.	Scalability of the Solution	soilarmor, minimizing soil disturbance, plant diversity, continual live plant/root, and livestock integration.