

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

Date	01 October 2022
Team ID	PNT2022TMID10953
Project Name	IoT Based Smart Crop Protection System For Agriculture
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)	Develop affordable app-based solution for Soil health monitoring and suggest which crop to be sown based on it.
2.	Idea / Solution description	With the help of sensors/ imaginary input create crop health monitoring application which will provide various parameters related to cotton crop like moisture level, nutrient level, pest infection level, maturity/harvesting time etc. and create alert for remedial action.
3.	Novelty / Uniqueness	The IOT device is used to indicate the farmer by a message while someone enter into the farm and we are used SD card module that helps to store a specified sound to fear the animals.
4.	Social Impact / Customer Satisfaction	It saves time and water as the smart IoT will have a track on the water used and needed. So users can use it according to their need.
5.	Business Model (Revenue Model)	With the help of solution, farmer can plan which crop to take based on soil condition and plan quickly possible remedies for soil deficiencies.
6.	Scalability of the Solution	Scalability helps in Improved data collection on driving farming efficiency .