**Project Design Phase-I**

**Proposed Solution Template**

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| 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.

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| **S.No.** | **Parameter** | **Description** |
|  | 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. |
|  | 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. |
|  | 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. |
|  | 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. |
|  | 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. |
|  | Scalability of the Solution | Scalability helps in Improved data collection driving farming efficiency . |