Project Design Phase-I Proposed Solution Template

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| Date | 19 September 2022 |
| Team ID | PNT2022TMID23506 |
| Project Name | Project - SmartFarmer - IoT Enabled Smart Farming Application |
| 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** |
| 1. | Problem Statement (Problem to be  solved) | \* No proper water management system and climate analysis.  \* Reduce the workload of the consumer.  \* High cost of existing components |
| 2. | Idea / Solution description | \* The automated smart agriculture system monitors the moisture and temperature swings in the cultivated area, which provides a precise timing for the water pumping motor to switch on and off. As a result, automatic operation prevents human mistakes and monitors soil moisture levels.  \* Soil contents can also be measured. |
| 3. | Novelty / Uniqueness | \* Obtaining the established realtime status of crops and allowing the farmers to fully comprehend the improvement in agricultural methods, with a lot of additional attributes and functionality. |
| 4. | Social Impact / Customer Satisfaction | \* The main aim of this project is to make farming more efficient & easy for farmer’s supervision with the implementation of IoT device. |
| 5. | Business Model (Revenue Model) | \* Get approval from valid organization including government authorization.  \* Providing offers for the initial customers.  \* Based on the investment the further updates can be done. |
| 6. | Scalability of the Solution | \* High scalability as it is highly efficient and easy implementation. |