**Project Design Phase-I**

**Proposed Solution Template**

|  |  |
| --- | --- |
| Date | 21.09.2022 |
| Team ID | PNT2022TMID41951 |
| Project Name | SmartFarmer - IOT Enabled Smart Farming Application |
| 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) | To facilitate the ability of the farmer to increase productivity by effectively managing the resources and obtaining a greater harvest with the aid of the Internet of Things and AI/ML. By incorporating IoT sensors, including those needed for the automation process, such as moisture, temperature, light-dependent resistor, humidity, and air quality. The system has a special algorithm that compares sensor data in addition and adjusts the watering, usage of fertilizers and ventilation system as necessary. Real-time data are statistical measures that can be displayed graphically and provide a clear report on the cultivation. |
| 2. | Idea / Solution description | IOT-based agricultural application |
| 3. | Novelty / Uniqueness | Gather information on the various soil types and predict the yield for the targeted crop to be successfully grown. |
| 4. | Social Impact / Customer Satisfaction | Reduce the workload—time management. Farmers can monitor the sensors' parameters through mobile applications. |
| 5. | Business Model (Revenue Model) | Cost Efficient Fuel Efficient |
| 6. | Scalability of the Solution | To increase efficiency, we may combine our current smart farming tools with new innovations. |