**Project Design Phase-I**

**Proposed Solution Template**

|  |  |
| --- | --- |
| Date | 19 September 2022 |
| Team ID | PNT2022TMID08726 |
| Project Name | Smart farmer -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) | The biggest challenge faced by Iot in agriculture are lack of information, cost analysis and quantity of fertilizers/seeds needed at specifc time. Monitoring climate change and take any precautions to avoid the spoilage of yields. Analyze the growth and intimate any need of fertilizer or water for each area of farming. Indicate of irrigation periodically. Reduction of greenhouse gas is biggest challenges in IOT. |
| 2. | Idea / Solution description | The basic idea is to monitor the crop, weather, soil quality and irrigation control by using sensors. And through cloud publish the sensed data in web application to notify the farmer about their field. |
| 3. | Novelty / Uniqueness | It gives great support for farmer and farming related activities. It reduced man force and enhancement of automated irrigation provides healthy plant growth. |
| 4. | Social Impact / Customer Satisfaction | * Increases crop productivity * It makes crop pest free and control the irrigation for crops. * Constantly monitoring land and condition of crops. * It modernize farm management system |
| 5. | Business Model (Revenue Model) | Revenue is generated for smart farming and IOT supported irrigation system by farmers, land lords, green house, roof top farming, private agro organization and government. |
| 6. | Scalability of the Solution | Our system with modernized technology allows the farmers to upgrade from traditional agriculture to modern methods and also enhances the productivity of cultivation and efficiency in yield. |