**Project design phase-I**

**Proposed solution template**

|  |  |
| --- | --- |
| Date | 31-10-22 |
| **Team Id** | PNT2022TMID12291 |
| **Project Name** | Smart Farmer-IOT Enabled Smart Farming Application |
| **Maximum Marks** | 2 Marks |

**Proposed Solution Template:**

|  |  |  |
| --- | --- | --- |
| **s.no** | **Parameter** | **Description** |
| 1. | Problem statement (Problem to be solved) | Overuse of pesticides and Fertilizers in agricultural fields leads to destruction of the crops as well as reduces the efficiency of the field |
| 2. | Idea/ Solution description | Integrated pest management , sustainable agriculture techniques such as poly culture, Agronomic practices, use of less hazardous pesticides |
| 3. | Novelty/Uniqueness | Lots of new research in terms of smart IOT based products to facilitate smart farming in terms of pest management .It is developed for monitoring of pesticides level through sensors |
| 4. | Social Impact/customer satisfaction | Improving productivity , protection of crop losses and disease control |
| 5 | Business model (Revenue model) | The project involves Thermography sensors which is cheaper than the existing ideas |
| 6. | Scalability of the solution | Based on all the inputs from the system ,it recommends the good quality fertilizer to the soil |