

**Project Design Phase-I**  
**Proposed Solution**

|               |   |
|---------------|---|
| Date          | 13 October 2022                                     |
| Team ID       | PNT2022TMID40641                                    |
| 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) | Overuse of pesticides and fertilizer in agricultural fields leads to destruction of the crop as well as reduces the efficiency of the field increasing the soil vulnerability towards pest. |
| 2.     | Idea / Solution description              | We can provide a solution by Smart Farming Application system that is built for monitoring the crop field with help of sensors and automating the irrigation system.                        |
| 3.     | Novelty / Uniqueness                     | We can use IoT devices to provide solutions for the problem in a efficient way. We use Soil moisture level sensor to get the actual moisture content present in the soil.                   |
| 4.     | Social Impact / Customer Satisfaction    | This Application will help customers/farmers to better understand the important factors of farming such as water, vegetation and soil types.  |
| 5.     | Business Model (Revenue Model)           | This application will give a revenue or profit about 40% of yearly expenditure.   |
| 6.     | Scalability of the Solution              | Our project is capable to grow in the market as smart farming is an emerging technology now a days.   |