**Project Design Phase-I**

**Proposed Solution**

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| Team ID | PNT2022TMID14849 |
| Project Name | Smart Farmer- IoT Enabled Smart Farming Application |

**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) | 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. |