**Project Design Phase-I**

**Proposed Solution Template**

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| Date | 24 September 2022 |
| Team ID | PNT2022TMID44924 |
| Project Name | Project – Smart Farmer-IoT Enabled smart Farming Application |
| Maximum Marks | 2 Marks |

**Proposed Solution Template:**

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| **S.No.** | **Parameter** | **Description** |
|  | Problem Statement (Problem to be solved) | * monitering the field is often, very difficult for the formers. * Watering the field is a difficult process,farmers have to wait in the field until the water covers the whole farm field. * Continuous monitering the soil moiture level,temperature level,and humidity levels are need for farmers, because it affects growth in plant and crop yield. * Power supply is one of the problems ,because in village side ,available electricity is very low. |
|  | Idea / Solution description | * We can use sensors ,it collect the values of temperature,humidity and soil moiture.Through this increase the growth in plant and crop yield. * we can use time control systems for motor on&off . * To use drones ,it monitoring the crop condition. |
|  | Novelty / Uniqueness | **Remote access:**   * **It helps the farmers to monitor the field and operate the motor from anywhere.**   **Allert messages:**   * **IOT sensor nodes collect the information from the forming environment ,such as soil moiture, air humidity, temperature,pest images and water quality , then transmit collected data to IOT backhaul device.** |
|  | Social Impact / Customer Satisfaction | * It saves the lot of times. * It reduces the wages for labours in agriculture field. * IOT can help improve customer relationship by enhancing the custormers overall experience. * Iot can also helps in e-commerce business and increase sales. * It makes a wealthy society. |
|  | Business Model (Revenue Model) | Revenue (No. of Users vs Months)    User  Months |
|  | Scalability of the Solution | * Scalability in smart farming refers to the adaptability of a system to increase the capacity, for example, the number of technology devices such as sensors and actuators, while enabling timely analysis. |