**Project Design Phase-I**

**Proposed Solution Template**

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| Date | 19 september 2022 |
| Team ID | PNT2022TMID41919 |
| Project Name | Smart Farmer - IoT |
| Maximum Marks | 2 Marks |

**Proposed Solution Template:**

Project team shall fill the following information in proposed solution template.

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| **S.No.** | **Parameter** | **Description** |
|  | Problem Statement (Problem to be solved) | Aids the farmer in regulating motor pumps from a mobile application and monitoring several field factors, such as soil moisture, temperature, and humidity, using sensors. |
|  | Idea / Solution description | As is the case of precision Agriculture Smart Farming Technique Enables Farmers better to monitor the fields and maintain the humidity level accordingly. The Data collected by sensors, In terms of humidity, temperature, moisture, and dew detections help in determining the weather pattern in Farms. So cultivation is done for suitable crops. |
|  | Novelty / Uniqueness | ALERT MESSAGE – IoT sensor nodes collect information from the farming environment, such as soil moisture, air humidity, temperature, nutrient ingredients of soil, pest images, and water quality, then transmit collected data to IoT backhaul devices.  REMOTE ACCESS – It helps the farmer to operate the motor from anywhere |
|  | Social Impact / Customer Satisfaction | The problems faced by the farmers in the process of irrigation gets solved and this full fillsand saves their crops from over irrigation |
|  | Business Model (Revenue Model) | Farmers may easily get information about light, temperature, soil moisture, crop health etc., with the help of sensors. So the revenue increases |
|  | Scalability of the Solution | The design scale of solution has been plannedin a compact manner. |