**Project Design Phase-I**

**Proposed Solution**

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| Date | 25 September 2022 |
| Team ID | PNT2022TMID49497 |
| Project Name | Smart Farmer – IoT Enabled Smart Farming Application |
| Team Lead | T.VarunPandiyan |
| Team Members | S.Gunaseelan, M.SuryaPrakash, R.Rajadurai |
| 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)** | Smart Farmer – IoT Enabled Smart Farming Application |
|  | **Idea / Solution description** | This system is Arduino Microcontroller-IOT based smart farming application and this is help to increase Production using a microcontroller from PIC family. To increasing the production and prevent plants from unnecessary disease, we use Humidity & Temperature, PH level sensor etc ,. Notify the collected data to Mobile device with the help of Arduino & Sensors. |
|  | **Novelty / Uniqueness** | Prevent plant prior from disease and abnormal growth we need to find NPK level and Monitoring water Quality. |
|  | **Social Impact / Customer Satisfaction** | In order to meet the needs of consumers and increase proﬁt value, farms need to demonstrate that products offered to the market are clean products also, it helps to track and trace agrifood supply chains production process and trace the origin of agricultural products. This solution has successfully supported the tracing of food and agricultural products through QR codes, improving product quality and ensuring the clear traceability of products, thereby allowing consumers to know the product’s entire history. |
|  | **Business Model (Revenue Model)** | C:\Users\T.VARUN PANDIYAN\AppData\Local\Microsoft\Windows\INetCache\Content.Word\project.jfif |
|  | **Scalability of the Solution** | Using IoT sensors, prevent the plants from abnormal growth and unnecessary disease & Monitoring the air humidity and temperature to Improve quality and production of the crop, its beneficial for both Consumers and Farmers. |