**Project Design Phase-I**

**Proposed Solution Template**

|  |  |
| --- | --- |
| Date | 1 November 2022 |
| Team ID | PNT2022TMID22832 |
| Project Name | Project – IoT Based Smart Crop Protection System for Agriculture |
| Maximum Marks | 2 Marks |

**Proposed Solution Template:**

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

|  |  |  |
| --- | --- | --- |
| **S.No.** | **Parameter** | **Description** |
|  | Problem Statement (Problem to be solved) | Usually crops in the fields are protected against birds and other unknown disturbances by humans. This take an enormous amount of time.Creating a smart automatic system will benefit the farmers in many different ways. |
|  | Idea / Solution description | Smart Farming has enabled farmers to reduce waste and enhance productivity with the help of sensors (light, humidity, temperature, soil moisture,etc..) . Further with the help of these sensors, farmers can monitor the field conditions from anywhere. |
|  | Novelty / Uniqueness | Role of SENSORS : IOT smart agriculture products are designed to help monitor crop fields using sensors and by automating irrigation systems. As a result, farmers and associated brands can easily monitor the field conditions from anywhere without any hassle. |
|  | Social Impact / Customer Satisfaction | Water conservation . Saves lot of time . Increased quality of production. Real time data and production insight. Remote monitoring. |
|  | Business Model (Revenue Model) |  |
|  | Scalability of the Solution | Scalability in smart farming refers to the adaptability of a system to increase the capacity , the number of technology devices such as sensors and fluctuators. |