**Project Design Phase-I**

**Proposed Solution Template**

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| Date | 24 September 2022 |
| Team ID | PNT2022TMID13971 |
| Project Name | 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.

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| **S.No.** | **Parameter** | **Description** |
| 1. | Problem Statement (Problem to be solved) | The biggest challenges faced by IOT in the agricultural sector are lack of information ,high  adoption costs,and security concerns |
| 2. | Idea / Solution description | IOT sensors to collect environmental and machines metrics,farmers can make informed decisions,and improve just about every ascept of work from livestock to crop farming. |
| 3. | Novelty / Uniqueness | Sensors to monitor and track the status of crops and insects,machines for performing route operations and ensuring proper functioning of systems. |
| 4. | Social Impact / Customer Satisfaction | With IOT ,Companies can enjoy benefits like better crop productivity and improved worker safety.then can use less fertilizer ,water ,and pesticides.because farmers can decreases the fretilizers and pesticides they use ,there is less runoff into groundwater and rivers |
| 5. | Business Model (Revenue Model) | Systems can recommend calibrated doses of  fertiliser,targeted irrigation and early identification of diseases or substandard conditios.software can make  recommendations,tigger alarm and visualise data,report and insights using a web browser,mobile data,tablet device. |
| 6. | Scalability of the Solution | The IOT scalability to refer the ability to go form prototype to production in a seamless way. |