**Project Design Phase-I**

**Proposed Solution Template**

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| Date | 19 September 2022 |
| Team ID | PNT2022TMID50823 |
| 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.

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| **S.No.** | **Parameter** | **Description** |
|  | Problem Statement (Problem to be solved) | Overuse of pesticides and fertilizer in agricultural fields leads to destruction of the crop as well as reduces the efficiency of the field increasing the soil vulnerability toward pest. |
|  | Idea / Solution description | Safety of people@animal  Low cost solutions,lower dependency on power  Simple solution to suite the farmer |
|  | Novelty / Uniqueness | destruction of crop residues, deep plowing, crop rotation, use of fertilizers, strip-cropping, irrigation, and scheduled planting operations. |
|  | Social Impact / Customer Satisfaction | Improve the productivity save lives of farmers. |
|  | Business Model (Revenue Model) | Community based solution by FAOs solution through contract farming. |
|  | Scalability of the Solution | As the advance of information and digital technology, the cost of developing and implementation of smart farming technologies become more affordable. In addition, smart farming technologies are extended to small-scale farming |