**Project Design Phase-I**

**Proposed Solution Template**

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| Date | 24 September 2022 |
| Team ID | PNT2022TMID30018 |
| Project Name | Project – SMART CROP PROTECTION SYSTEM IN 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) | Crops in farms are many times ravaged by local animals like buffaloes, cows, goats, birds etc.... This leads to huge losses for the farmer. |
|  | Idea / Solution description | Here we propose automatic crop protection system from animals. This is the microcontroller-based system using PIC family microcontroller. These system use a motion sensor to detect wild animal approaching near the field. |
|  | Novelty / Uniqueness | Certain cultural practices can prevent or reduce insect crop damage. These include destination of crop residues, deep plowing, crop rotation , use of fertilizers, strip-cropping, irrigation, and scheduled planting operation. |
|  | Social Impact / Customer Satisfaction | They is steady increase in smart phone apps available to improve farmer’s decision making with respect to crop protection . While current studies have focused on smart phone adoption in general and farmer’s general willingness to pay for crop protection smart phone apps, none have focused on the initial adoption decision.  In traditional farming methods , it was a mainstay for the farmer to be out in the field, constantly monitoring the land and condition of crop. |
|  | Business Model (Revenue Model) | Smart crop protection system is the International Journal of Latest Engineering Science(IJLES)  DOI:10.51386/25816659/ijles-v4i4101  E-ISSN:2581-6659  Volume:04 Issue:04 |
|  | Scalability of the Solution | Integration might be the use of crop residue to increase animal protection , and the use of manures to increase crop protection.  Integration is a way of maximizing outputs (food for the family, farm protect for sale , ect.)and minimizing input(purchase, labour) |