**Project Design Phase-I**

**Proposed Solution**

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| Date | 17.11.22 |
| Team ID | PNT2022TMID45918 |
| 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) | Protecting the crops from wild animals and also monitor the soil moisture levels in the field. |
|  | Idea / Solution description | Monitoring the crops using IOT based technology by 24x7.Detecting animals and scared them away. The motors and sprinklers in the field can be controlled using the mobile application. |
|  | Novelty / Uniqueness | Accessibility due to the alarm system, being helpful to farmers.  Scalability. |
|  | Social Impact / Customer Satisfaction | User friendly.  It’s increase rate of good yield of crops. |
|  | Business Model (Revenue Model) | Cost efficient.  It’s reduce the anxiety and fear of losing crops meanwhile it’s help to increase the profit comparing to previous year. |
|  | Scalability of the Solution | In future it can be enhanced by sending message directly to the fire department in case there is a mass wild animals attacks the fields. The controlling and monitoring of the soil moisture level can be automated by taking care of the crops in case of low moisture level, without notifying the farmers. |