**Project Design Phase-I**

**Proposed Solution**

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| Date | 25 September 2022 |
| Team ID | PNT2022TMID49462 |
| Project Name | IOT based smart crop protection system for agriculture |
| Team Leader | **A.Karthikeyan** |
| Team Members | K.Abeesh,A.Pandiyarajan,P.Suriyaprakash |
| 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)** | A centralizing method in the area of IIoT (Industrial Internet of Things) contrived for understanding agriculture which is preceding the arrangements low-power devices. This paper yields a monitoring procedure for farm safety against animal attacks. IIOT advances are frequently used in smart farming to emphasize the standard of agriculture |
|  | **Idea / Solution description** | Animals are some concepts. This system is microcontroller- IOT-Based Crop Protection System Against Birds and Wild based and uses a microcontroller from the PIC family. To identify wild animals entering the field, this device employs a motion sensor. using Arduino, be frequently found in mobile devices. |
|  | **Novelty / Uniqueness** | Object detection using **Artificial intelligence** |
|  | **Social Impact / Customer Satisfaction** | Currently, there is a significant social issue with wild animals and fires damaging crops. Since there hasn't yet been a good answer to this issue, it needs urgent attention. In light of its intent to address this issue, this project has significant social significance. With the aid of this project, farmers will be able to safeguard their orchards and fields, preventing them from suffering major monetary losses and needless labour costs in the process. Additionally, this will aid in increasing crop yields, which will benefit their ability to support themselves financially. |
|  | **Business Model (Revenue Model)** | D:\Project\New folder\bussiness.jpg |
|  | **Scalability of the Solution** | **IOT Sensor, Camera led monitoring & assessment of the soil and crop**  This permits prompt preventive action to ensure crop spoiling is reduced and production is improved without intensive input of synthetic ingredients or fertilisers, increasing the farmers' income. |