**Project Design Phase-I**

**Proposed Solution Template**

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| Date | 19 September 2022 |
| Team ID | PNT2022TMID45633 |
| Project Name | Smart crop production system |
| Maximum Marks | 2 Marks |

**Proposed Solution Template:**

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| **S.No.** | **Parameter** | **Description** |
| 1. | Problem Statement (Problem to be solved) | In addition, irrigation of agricultural crops comprises 70% of global water use, and agriculture directly contributes to around 11% of global greenhouse gas (GHG) emissions (mostly through cattle). Expanding agricultural land can also lead to deforestation, additional GHG emissions, and a loss of biodiversity. |
| 2. | Idea / Solution description | Crop production is a common agricultural practice followed by worldwide farmers to grow and produce crops to use as food and fibre. This practice includes all the feed sources that are required to maintain and produce crops. Listed below are few practices used during crop production. Preparation of Soil. To build a crop safety system using IOT devices with cloud services. |
| 3. | Novelty / Uniqueness | IOT devices are able to collect huge information for farmers.  -waste reduction  -animal monitoring  -competitive advantage |
| 4. | Social Impact / Customer Satisfaction | Customers can enjoy benefits like  -better crop productivity  -improved of workers safety  - reduces wastage |
| 5. | Business Model (Revenue Model) | - advertisement the present needs.  - believe the product in lack of information and using safe and secure |
| 6. | Scalability of the Solution | Others involve improvements in farm practices, irrigation, drainage, and herbicide, pesticide and fertilizer use. Better food storage and transportation to reduce waste can also play their part in securing a reliable supply of foodstuffs |

Project team shall fill the following information in proposed solution template.