

Project Design Phase-I Proposed Solutions

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| Date | 25 September 2022 |
| Team ID | PNT2022TMID44357 |
| Project Name | 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.

| S.No. | Parameter | Description |
|-------|--|--|
| 1. | Problem Statement (Problem to be solved) | Develop an app-based solution for guarding the crops from wild and domestic animals. |
| 2. | Idea / Solution description | <p>Crops in the fields are wrecked by the wild as well as domestic animals and this causes low productivity of crops. It is incredible to stay 24/7 in the farm to guard the crops.</p> <p>An intelligent crop protection system helps the farmers in protecting the crop from the animals and birds without destroying the crop. This system shall also include remote monitoring and control of pump to avoid the farmer to visit the farm in night time. And also prediction of crop growth is done by using the decision tree algorithm.</p> |
| 3. | Novelty / Uniqueness | By using this remote monitoring system the crops can be protected from domestic and wild animals. This work can be done only through the remote sensing technology rather than manpower. |
| 4. | Social Impact / Customer Satisfaction | Facilitate better utilization of land, Improve the productivity, Safeguard the crops, Save lives of farmers. |
| 5. | Business Model (Revenue Model) | Community based solution by FAO's Solution through contract farming. |
| 6. | Scalability of the Solution | By the proper usage of the Humidity and Temperature Sensor monitoring the field can be done which in turn increases the crop yield effectively and efficiently. |