

Project Design Phase-I
Proposed Solution Template

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| Date | 20 September 2022 |
| TeamID | PNT2022TMID17351 |
| Project Name | IOT Based Smart Crop Protection System For Agriculture. |
| MaximumMarks | 2Marks |

ProposedSolutionTemplate:

| S.No. | Parameter | Description |
|-------|---------------------------------------|---|
| 1. | ProblemStatement(Problemto be solved) | Develop an efficient system and an application to monitor and alert the farmers. |
| 2. | Idea/Solution description | <ul style="list-style-type: none">➤ Access all the sensor remotely and change the sensors➤ In several areas, the temperature sensors will be integrated to monitor the temperature & humidity➤ If in any area feel dry or wetless is detected by admins, will be notified along with the location in the web application➤ This product helps the field in monitoring the animals other disturbance |
| 3. | Novelty/Uniqueness | <ul style="list-style-type: none">➤ The increasing high demand for quality food➤ Providing good quality product for customer.➤ Avoid all the unwanted products and crops➤ Fastest alerts to the farmers |
| 4. | Social Impact/Customer Satisfaction | <ul style="list-style-type: none">➤ Users can easily operate➤ the optimisation of all the processes related to agriculture and livestocking increases production rates.➤ The parameters that has to be exact monitored to enhance the yield are soil characteristics, weather conditions, moisture, temperature |

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| 5. | Business Model(Revenue Model) | ➤ IoT smart agriculture products are designed to help monitor crop fields using sensors and by automating irrigation systems |
| 6. | Scalability of the Solution | ➤ The role of crop protection in an Integrated system is, additional to all the other methods, to efficiently control the residual harmful species. |
| | | ➤ Reduce waste,improve productivity and enable management of a greater number of resources through remote sensing |