

Project Design Phase-I

Proposed Solution Template

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| Date | 12 October 2022 |
| Team ID | PNT2022TMID31754 |
| Project Name | Project – IOT ENABLED SMART FARMING |
| 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) | Our project will be give the problem statement in Smart farming application using IOT. Historybased soil health parameters like soil moisture, pHlevel, temperature etc. |
| 2. | Idea / Solution description | The most frequently used applications of IoT in agriculture are drones for monitoring fields and spraying crops, health assessment of livestock and irrigation. |
| 3. | Novelty / Uniqueness | Smart farming, which involves the application of sensors and automated irrigation practices, can help monitor agricultural land, temperature, soil moisture, etc. This would enable farmers to monitor crops from anywhere |
| 4. | Social Impact / Customer Satisfaction | Increased production: the optimisation of all the processes related to agriculture and livestockrearing increases production rates. Water saving: weather forecasts and sensors that measure soil moisture mean watering only when necessary and for the right length of time |
| 5. | Business Model (Revenue Model) | Climate-smart agriculture is a pathway towards development and food security built on three pillars: increasing productivity and incomes, enhancing resilience of livelihoods and ecosystems and reducing and removing greenhouse gas emissions from the atmosphere |
| 6. | Scalability of the Solution | Smart Farming systems uses modern technology to increase the quantity and quality of agricultural products. Livestock tracking and Geo fencing. Smart logistics and warehousing. Smart pest management. Smart Greenhouses |