

Project Design Phase-I
Proposed Solution Template

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| Date | 19 September 2022 |
| Team ID | PNT2022TMID48510 |
| Project Name | Smart Farmer – IOT Enabled Smart Farming Application |
| Maximum Marks | 2 Marks |

Proposed Solution :

| S.No. | Parameter | Description |
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| 1. | Problem Statement (Problem to be solved) | Difficulty in selecting suitable crop for the soil. |
| 2. | Idea / Solution description | A handheld Soil health profiler can solve these issues by giving the soil nutrient details and recommend suitable crops. |
| 3. | Novelty / Uniqueness | It takes the inputs like the geographical location, season of the year to make the recommender system. |
| 4. | Social Impact / Customer Satisfaction | It improves soil quality and soil fertility. It is a very time efficient process and gives more yields for the farmers. |
| 5. | Business Model (Revenue Model) | The project involves an NodeMCU and soil NPK sensor which is cheaper than the existing ideas. |
| 6. | Scalability of the Solution | Based on all the inputs from the system , it recommends the required crops and fertilizer to the soil. |