


## Project Design Phase-I Proposed Solution Template

Date	26-09-2022
Team ID	PNT2022TMID40860
Project Name	Smart Farmer – IOT Enabled Smart Farming Application
Maximum Marks	4 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)	<ul style="list-style-type: none"><li>Most of the farmers use large portions of farming land and it becomes very difficult to reach and track each corner of large lands. Sometime there is a possibility of uneven water sprinkles.</li><li>Challenges faced by IOT in agriculture are high adoption, security concerns, information lackness.</li></ul>																								
2.	Idea / Solution description	<ul style="list-style-type: none"><li>Smart Farming has enabled farmers to reduce waste and enhance productivity with the help of sensors (light, humidity, temperature, soil moisture,etc..)</li><li>Further with the help of these sensors, farmers can monitor the field conditions from anywhere.</li></ul>																								
3.	Novelty / Uniqueness	<ul style="list-style-type: none"><li>Role of SENSORS : IOT smart agriculture products are designed to help monitor crop fields using sensors and by automating irrigation systems.</li><li>As a result, farmers and associated brands can easily monitor the field conditions from anywhere without any hassle.</li></ul>																								
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"><li>Water conservation</li><li>Saves lot of time</li><li>Increased quality of production</li><li>Real time data and production insight.</li><li>Remote monitoring.</li></ul>																								
5.	Business Model (Revenue Model)	 <table><caption>Revenue Growth Data (2018-2028)</caption><thead><tr><th>Year</th><th>Revenue</th></tr></thead><tbody><tr><td>2018</td><td>~2.5</td></tr><tr><td>2019</td><td>~3.0</td></tr><tr><td>2020</td><td>~3.5</td></tr><tr><td>2021</td><td>11.5</td></tr><tr><td>2022</td><td>~4.0</td></tr><tr><td>2023</td><td>~4.5</td></tr><tr><td>2024</td><td>~5.0</td></tr><tr><td>2025</td><td>~5.5</td></tr><tr><td>2026</td><td>~6.0</td></tr><tr><td>2027</td><td>~6.5</td></tr><tr><td>2028</td><td>24.3</td></tr></tbody></table>	Year	Revenue	2018	~2.5	2019	~3.0	2020	~3.5	2021	11.5	2022	~4.0	2023	~4.5	2024	~5.0	2025	~5.5	2026	~6.0	2027	~6.5	2028	24.3
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6.	Scalability of the Solution	<ul style="list-style-type: none"><li>Scalability in smart farming refers to the adaptability of a system to increase the</li></ul>																								

		capacity , the number of technology devices such as sensors and actuators.
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