

## **Project Design Phase-1**

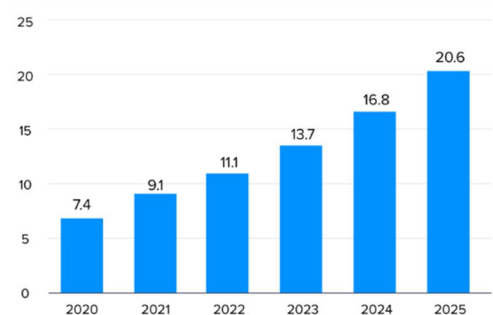
### **Proposed Solution** **Template**

Date	15-10-2022
Team ID	PNT2022TMID20250
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>○ Challenges faced by IOT in agriculture are high adoption, security concerns, information lackness.</li><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></ul>
2.	Idea / Solution	<ul style="list-style-type: none"><li>○ Further with the help of these sensors, farmers can monitor the field conditions from anywhere.</li><li>○ Smart Farming has enabled farmers to reduce waste and enhance productivity with the help of sensors (light, humidity, temperature, soil moisture, etc..)</li></ul>
3.	Novelty / Uniqueness	<ul style="list-style-type: none"><li>○ As a result, farmers and associated brands can easily monitor the field conditions from anywhere without any hassle</li><li>○ IOT smart agriculture products are designed to help monitor crop fields using sensors and by automating irrigation systems.</li></ul>
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"><li>○ Increased production</li><li>○ Real time data and production insight.</li><li>○ Pests detection</li><li>○ Water conservation</li><li>○ Saves lot of time</li></ul>

5.	Business Model (Revenue Model)	 <table><tr><th>Year</th><th>Revenue</th></tr><tr><td>2020</td><td>7.4</td></tr><tr><td>2021</td><td>9.1</td></tr><tr><td>2022</td><td>11.1</td></tr><tr><td>2023</td><td>13.7</td></tr><tr><td>2024</td><td>16.8</td></tr><tr><td>2025</td><td>20.6</td></tr></table>	Year	Revenue	2020	7.4	2021	9.1	2022	11.1	2023	13.7	2024	16.8	2025	20.6
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6.	Scalability of the Solution	<ul style="list-style-type: none"><li>o Scalability in smart farming refers to the adaptability of a system to increase the growth of farming.</li></ul>														

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