

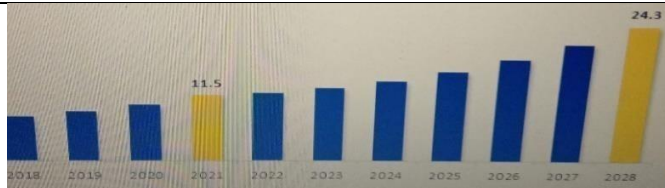
Project Design Phase-I

Proposed Solution Template

Date	19 October 2022
Team ID	PNT2022TMID08383
Project Name	Smart Farming-IOT Enabled Smart Farming Application
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)	Watering the plants and crops is the most important cultural practice and one of the labour intensive tasks in daily greenhouse operation. Watering system case the burden of getting water to plants when they need it.																								
2.	Idea / Solution description	Smart Farming has enabled farmers to reduce waste and enhance productivity with the help of sensors (light, humidity, temperature, soil moisture, etc..).																								
3.	Novelty / Uniqueness	Knowing when and how much to water is two important aspects of watering process. This project on “system of automatic irrigation “automated irrigation mechanisms which turns the pumping motor ON and OFF on detecting the moisture content of the earth.																								
4.	Social Impact / Customer Satisfaction	Water conservation . Saves lot of time . Increased quality of production. Real time data and production insight. Remote monitoring.																								
5.	Business Model (Revenue Model)	 <table><caption>Revenue Growth Data (2018-2028)</caption><tr><th>Year</th><th>Revenue</th></tr><tr><td>2018</td><td>~5.0</td></tr><tr><td>2019</td><td>~6.0</td></tr><tr><td>2020</td><td>~7.0</td></tr><tr><td>2021</td><td>11.5</td></tr><tr><td>2022</td><td>~8.0</td></tr><tr><td>2023</td><td>~9.0</td></tr><tr><td>2024</td><td>~10.0</td></tr><tr><td>2025</td><td>~11.0</td></tr><tr><td>2026</td><td>~12.0</td></tr><tr><td>2027</td><td>~13.0</td></tr><tr><td>2028</td><td>24.3</td></tr></table>	Year	Revenue	2018	~5.0	2019	~6.0	2020	~7.0	2021	11.5	2022	~8.0	2023	~9.0	2024	~10.0	2025	~11.0	2026	~12.0	2027	~13.0	2028	24.3
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6.	Scalability of the Solution	Scalability in smart farming refers to the adaptability of a system to increase the capacity , the number of technology devices such as sensors and fluctuators.																								

