Project Design Phase
Proposed Solution Template

Date	15 February 2025
Team ID	PNT2025TMID03012
Project Name	
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in the proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Farmers and agricultural researchers struggle to accurately track and predict plant growth stages due to varying environmental conditions and management practices. A data-driven approach is needed to enhance decision-making and improve crop yield.
2.	Idea / Solution description	Our solution leverages Power BI to analyse environmental factors(temperature,humidity,soil moisture) And management data (fertilization, irrigation) to predict plant growth stages. The interactive dashboards providers insights for optimizing agricultural practices.
3.	Novelty / Uniqueness	Unlike traditional manual observation methods, our solution uses real-time data analytics and visualization to provide accurate, predictive insights. This reduces guesswork and enhances precision agriculture
4.	Social Impact / Customer Satisfaction	Farmers can make informed decisions on resource allocation, improving efficiency and sustainability
5.	Business Model (Revenue Model)	The model can be offered as a subscription based SaaS platform,where farmers, agribusiness , and researchers can access insights through a Power BI dashboards.
6.	Scalability of the Solution	The solution can be expanded to different crops and regions by integrating more datasets and AI models. It can also be integrated with IoT sensors and automated farm management systems for real-time monitoring.