

## Project Initialization and Planning Phase

Date	25 December 2025
Project Name	Predicting Plant Growth Stages with Environmental and Management Data Using Power BI.
Maximum Marks	3 Marks

### **Definition of the Problem Statement (Customer Problem Statement):**

Based on the customer, I have created a Problem Statement. The table given below helps to do the changes and understand the difficulties which takes place. Here's my Problem Statement.

<b>Problem Statement (PS)</b>	<b>PS-1</b>
I am (Customer)	Greenhouse Operator/Agricultural Manager.
I'm trying to	Maximize plant growth success rates and optimize resource usage (water, fertilizer, energy).
But	My current crop yields are inconsistent, with a failure rate of approximately 50%, and I am unsure which specific factors are causing these failures.
Because	I lack actionable data insights to determine the optimal combination of environmental controls (temperature, humidity) and care inputs (water frequency, fertilizer type) for different soil types.
Which makes me feel	Frustrated by the waste of expensive fertilizer and water, and uncertain about meeting production quotas.