

Ideation Phase

Define the Problem Statements

Date	19 September 2022
Team ID	PNT2022TMID21789
Project Name	IOT based smart crop Protection System for Agriculture
Maximum Marks	4 Marks

Customer Problem Statement Template:

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
<p>PS-1 Develop a system for predicting cotton crop production and probable pest, disease, and insect attacks (before at least 15 days and more).</p> <p>(Technology Bucket: Satellite images, Cloud computing, Big Data, In-field sensor data, drone imagery,</p>	Cost effective, small size	To create an app-based forecasting system that can forecast potential pest, disease, and insect attacks on cotton crops.	More cost	Involves more requirements	Instead of using general recommendations, forecast the cotton crop yield production for farmers in the Vidarbha region using farm historical data, local terrain, weather scenarios, and numerous sensor inputs

and other IoT data					
PS-2 Wild animals like elephant, wild pig, deer, wild dogs, bison may enter into the field which in turn destroy the crop and reduce the yield in farming	Eco-friendly, customer satisfaction	1. Identify and evaluate risk possessed by wild and domestic animals. 2. Monitor and document animal activity on the farm. 3. Conduct field assessment before harvest	Implementation is harder	Coverage area is larger	Crop protection needs particularly cautious approach