## Ideation Phase Define the Problem Statements

Date	30 June 2025		
Team ID	LTVIP2025TMID35506		
Project Name	CleanTech:Transforming Waste Management		
	with Transfer Learning		
Maximum Marks	2 Marks		

## **Customer Problem Statement:**

Municipal waste management authorities and sanitation workers are struggling to manage the rising volume and complexity of urban waste. Current systems rely heavily on manual waste segregation, which is time-consuming, error-prone, and often unsafe for workers. These outdated methods lead to poor recycling rates, increased landfill usage, and environmental degradation.

Customers lack access to intelligent, scalable tools that can automate and optimize the classification of waste at the source. The absence of localized AI-driven solutions prevents accurate segregation of region-specific waste types, while also limiting their ability to meet sustainability goals and engage communities in responsible waste disposal practices.

l am	Describe customer with 3-4 key characteristics - who are they?	Describe the customer and their attributes here
I'm trying to	List their outcome or "Job" the care about - what are they trying to achieve?	List the thing they are trying to achieve here
but	Describe what problems or barriers stand in the way – what bothers them most?	Describe the problems or barriers that get in the way here
because	Enter the "root cause" of why the problem or barrier exists – what needs to be solved?	Describe the reason the problems or barriers exist
which makes me feel	Describe the emotions from the customer's point of view – how does it impact them emotionally?	Describe the emotions the result from experiencing the problems or barriers

Reference: <a href="https://miro.com/templates/customer-problem-statement/">https://miro.com/templates/customer-problem-statement/</a>

## **Example:**

Problem	I am	I'm trying to	But	Because	Which makes me feel
Statement (PS)	(Customer)				
PS-1	a municipal	implement an	the	we lack	frustrated, overwhelmed,
	waste	efficient, safe,	current	intelligent,	and unable to meet the
	manager	and accurate	process is	automated	city's sustainability goals
	responsible	waste	manual,	tools that can	or the expectations of
	for keeping	segregation	unreliable,	classify waste	our citizens.
	the city clean	system that	and	effectively	
		improves	doesn't	and support	

		1. 1			<u> </u>
	and	recycling and	adapt well	our workers	
	sustainable.	reduces	to diverse	in real-time.	
		environmental	or region-		
		harm.	specific		
			waste		
			types.		
PS-2	a frontline sanitation worker responsible for collecting and sorting municipal waste every day.	quickly identify and separate different types of waste to ensure proper disposal and recycling.	I often face mixed, unlabelled , or confusing waste items and lack tools or	the current system is manual, time- consuming, and offers no intelligent assistance or feedback.	uncertain, stressed, and worried that my work isn't helping the environment as much as it should.
			guidance to classify		
			them		
			correctly.		