## **Project Design Phase-I**

## **Problem Solution Fit**

Date	8 October 2022	
Team ID	PNT2022TMID27888	
Project Name	Smart Waste Management System For Metropolitan Cities	

Define CS, fit into CL	1. CUSTOMER SEGMENT(S)  Citizens of metropolitan cities.	Proper management of waste must be required     Fear of advanced technology.  CL  Proper management of waste must be required  Fear of advanced technology.	5. AVAILABLE SOLUTIONS PLUSES & MINUSES  A reduction in the number of waste collections needed by up to 80%, resulting in less manpower, emissions, fuel use and traffic congestion. A reduction in the number of waste bins needed.
Focus on PR, tap into BE, understand RC	<ul> <li>Causes pollution to the environment.</li> <li>Acts as a breeding ground to insects such as mosquitos which causes diseases.</li> </ul>	• Lack of public awareness and poor attitudes.  • Missed pick-ups.	Directly related: If any malfunction occurs the customers can report to the concerned department.      Indirectly related: citizens can volunteer.
Identify strong TR & EM	The heavy pollution or higher health issues due to the un-attended garbage triggers them to find out a solution.  4. EMOTIONS BEFORE / AFTER  Before: the customers feel unpleasant with the environment.  After: happy, pleasant and satisfied with the environment.	The proposed system will be able to monitor and supervise garbage collection management process using IoT (Internet of Things).	8. CHANNELS of BEHAVIOR  Create awareness through social media and share their views on issues.  OFFLINE  Create awareness through campaign.