## PROJECT DESIGN PHASE -1 PROPOSED SOLUTON

Date	24 September 2022
Team ID	PNT2022TMID01046
Project Name	SMART WASTE MANAGEMENT FOR
	METROPOLITAN CITIES

## **Proposed Solution:**

S. No	Parameter	Description
1.	Problem Statement (Problem to be solved)	<ul> <li>✓ The manual monitoring of wastes in trash cans is a laborious operation that requires additional time, money, and human labour</li> <li>✓ Unsafe trash disposal is generating problems for people.</li> <li>✓ Bad odour all around the place from</li> </ul>
2.	Idea / Solution description	uncollected trash or rubbish.  ✓ This procedure uses a cloud connection and an ultrasonic sensor to determine the level of a rubbish container  ✓ By developing an app, the company of a certain neighbourhood inside a large metropolis will be able to check the trash cans to see if they are full or not.
3.	Novelty / Uniqueness	<ul> <li>✓ In contrast to the traditional ways for collecting trash cans, this strategy instructs us to utilise the transportation only when necessary.</li> <li>✓ Keeping an eye on the trash cans easier and less labor-intensive for humans.</li> </ul>
4.	Social Impact / Customer Satisfaction	<ul> <li>✓ People can experience a clean atmosphere.</li> <li>✓ Reduces the amount of labour required from humans for waste disposal.</li> <li>✓ For a municipal corporation to monitor the cleanliness of different areas of the city, this proposal will be quite helpful.</li> </ul>
5.	Business Model (Revenue Model)	<ul> <li>✓ By cutting back on unneeded transportation costs to pointless locations, this lowers a significant amount of fuel costs for city businesses.</li> <li>✓ This initiative intends to assist municipal corporation.</li> <li>✓ Provide a sanitary atmosphere.</li> </ul>

6.	6. Scalability of the Solution	✓ The constant monitoring of trash cans
	by human labour saves a lot of time	
	✓ It may be modernised to utilise	
	automated rubbish pickup by trucks.	
	✓ There is no need to establish something	
	new.	
	✓ Existing trash cans are somewhat	
		changed.