

**Project Design Phase-I**  
**Proposed Solution Template**

Date	24 September 2022
Team ID	PNT2022TMID48397
Project Name	Project – Smart waste management system
Maximum Marks	2 Marks

**Proposed Solution Template:**

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	With the existing methods of collecting and disposal it is near impossible to manage such amount of waste in the future as around 30% of waste end up on the roads and public places due to ineffective disposing and collecting methods.
2.	Idea / Solution description	Using IOT based smart sensors we can utilise the smart bin sensor technology and can <ul style="list-style-type: none"> <li>Track the location with real time data</li> <li>Get the levels of the bin using ultrasonic sensor</li> <li>Get instant alerts incase of emergency</li> </ul>
3.	Novelty / Uniqueness	<ul style="list-style-type: none"> <li>❖ The proposed solution maintains the hygiene of the surrounding places and maintains sanity .</li> <li>❖ It saves time and very effective in waste disposal</li> </ul>
4.	Social Impact / Customer Satisfaction	<ol style="list-style-type: none"> <li>Healthy life</li> <li>Decrease in pollution</li> <li>Decrease in Soil contamination and Water contamination</li> <li>Decrease in Air contamination</li> </ol>
5.	Business Model (Revenue Model)	It reduces the expense on fuel and labour cost ,hence minimising the total expenditure than the usual
6.	Scalability of the Solution	The proposed solution can be implemented in most of the metropolitan cities with minimum constraints