

Project Design Phase-I
Proposed Solution Template

Date	3 November 2022
Team ID	PNT2022TMID15286
Project Name	IOT based Smart Waste Management System For Meteropolitan Cities
Maximum Marks	2 Marks

Proposed Solution :

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	In India we can see the waste that are disposed are not properly managed as it overflows all the time and need to be maintained inorder to provide a keen and safer environment. As sometimes the wastes which are stagnant may lead to major disease spreads.
2.	Idea / Solution description	<ul style="list-style-type: none"> ▪ Build smart bins ▪ Raise public awareness of utilizing renewable energy ▪ Improve street sanitation ▪ Encourage recycling ▪ Collect and analyze area-specific data on waste volumes for better planning
3.	Novelty / Uniqueness	<ul style="list-style-type: none"> ▪ Improve efficiency - using the resources available to us in a more focused and targeted way. ▪ Reduce the number of bins required - decluttering and improving the street scene. ▪ Drive down our carbon emissions - by doing away with the need to drive to bins that still have plenty of space in them.
4.	Social Impact / Customer Satisfaction	Clean cities Healthy environment Less manpower Less Emissions Fuel use Traffic congestion

5.	Business Model (Revenue Model)	Offering software as a servicemodel to government. Making use of useful wastes ,recycle and make profit
6.	Scalability of the Solution	It helps the government to maintain a clean environment.