Project Design Phase-1

Proposed Solution Template

DATE	19 September 2022
TEAM ID	PNT2022TMID38550
PROJECT NAME	Smart Waste Management System For Metropolitan Cities
MAXIMUM MARKS	2 Marks

Proposed Solution Template:

S.No	Parameter	Description
1.	Problem Statement	Waste management suffers from a pervasive under-pricing, which means that the costs of waste management are not fully appreciated by consumers and industry, and waste disposal is preferred over other options. Few waste treatment options are available to manage waste and so they are more expensive than landfill costs
2.	Idea	1. Use a reusable bottle/cup for beverages on-the-go. 2. Use reusable grocery bags, and not just for groceries. 3. Purchase wisely and recycle 4. Compost it! 5. Avoid single-use food and drink containers and utensils. 6. Buy secondhand items and donate used goods.

		7. Shop local farmers markets and buy in bulk to reduce packaging. 8. Curb your use paper: mail,receipts,magazines
3.	Novelty	Bin-e is a smart waste bin that uses IoT technology to improve waste management. These smart bins use sensors, image-based trash recognition technology, and artificial intelligence, enabling them to automatically sort and categorize recycling litter into one of its smaller bins.
4.	Social Impact	Bin-e is an Iot-based smart waste bin, designed for public places, enabling them to simplify recycling. It sorts and compresses the waste automatically, controls the fill level and processes data for convenient waste management. let's sort out your waste problem Iot-based recognition Just throw the waste inside!
5.	Business Model	The Bin-e business model develops from the recycling industry working as per the rules and regulations of the country where it is established. In our country, such rules and regulations are coming from pollution control to pollution prevention, increasing the following of the Bin-e business model. It

		provides Smart Bin-e, an IoT device that provides solutions for recycling in eco-friendly workplace. The technology recognises, sorts and compresses the waste.
6.	Scalability of the Solution	To further enhance the capability of their application, we recommend these features Provides backup recovery of data Provide better user interface for user.