

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

Date	03.11.2022
Team ID	PNT2022TMID42565
ProjectName	Smart waste management System for metropolitan cities
MaximumMarks	2 Marks

**ProposedSolutionTemplate:**

Projectteamshallfillthefollowinginformationinproposedsolutiontemplate.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	To Smart Waste Management System For metropolitan cities. Many cities in India are being expanded as smart cities. In such a way ,Waste Management is the big challenge in India. Researchers are working in so many ways. The following factors are Causing the problem. Growth of population density and existing congested infrastructure .The highly populated metropolitan cities generate tons of waste everyday . It makes unhygienic condition for the general population and makes awful smell around environment .This finally spreads some fatal infections and human ailment.
2.	Idea/Solutiondescription	To solution in classification and real time data monitoring, architecture of the waste management system based on deep learning ,the proposed model renders an astute way to sort digestible and indigestible . Waste using a convotional nerural network.IOT enables control of real time data from anywhere. The devices are wireless. The bin level with the existing GPS location. The significant advantage of the system is to collect waste material.
3.	Novelty/Uniqueness	The smart waste management System such as Smart bins , sensors,source areas, and vehicles. System work dynamically with respect to smart bins, collection vehicle, and routes.
4.	SocialImpact/ CustomerSatisfaction	The neat and clean surrounding .Smart transport System,smart grid,smart environment,and smart Thing.The Smart Waste Management is top priority in any smart city as directly affects the lifestyle,healthcare and environment.

5.	Business Model(RevenueModel)	User-Citizen Waste collectors-waste collection company Drivers Dispatcher Janitor Waste trucks owning company Authorities Government City administration Municipality Waste department Waste disposal Waste disposal organization Waste storage
6.	Scalability of the Solution	Efficient and effective Functioning Cleaner Environs Better health issues Pollution free and stinking free environs.