## **Project Design Phase-I**

## **Proposed Solution Template**

Date	14 October 2022	
Team ID	PNT2022TMID26000	
Project Name	Smart Waste Management for Metropolitan Cities	
Maximum Marks	2 Marks	

## Proposed Solution Template: Project team shall fill the following information in proposed solution template

S.No.	Parameter	Description	
1.	Problem Statement (Problem to		
1.	be solved)	A historical backlog of waste services	
	be solved)	for, especially, urban informal areas,	
		tribal areas and rural formal areas.	
		Although 61%10 of all South African	
		households had access to kerbside	
		domestic waste collection services in	
		2007, this access remains highly	
		skewed in favour of more affluent	
		and urban communities. Inadequate	
		waste services lead to unpleasant	
		living conditions and a polluted,	
		unhealthy environment	
2.	Idea / Solution description	The Proposed system consists of	
		main subsystems namely Smart Trash	
		System(STS) and Smart Monitoring	
		and Controlling Hut(SMCH). In the	
		proposed system, whenever the	
		waste bin gets filled this is	
		acknowledged by placing the circuit	
		at the waste bin, which transmits it	
		to the receiver at the desired place in	
		the area or spot.	
3.	Novelty / Uniqueness	In mega cities due to comparatively	
		more population along with the rapid	
		urbanization the collection of	
		garbage is becoming a big task.	
		Waste management is a matter of	
		concern, equal involvement of the	
		Government and the citizens is a	
		must to manage and overcome waste	
		management issues.	

Social Impact / Customer Satisfaction  Public and social health at paramount not only to incompose governments in the world United Nations (UN) as we would had a paid to see	
governments in the world United Nations (UN) as w	Isubivik
United Nations (UN) as w	
world body, in a bid to acl	
Millennium Development	
(MDGs), encourages gove	
implement social interver	
programs that lead to imp	
in basic services for healtl	
education, water and san	•
September 2015, Heads of	
Governments adopted the	e 2030
Agenda for Sustainable De	evelopment
which includes the 17 Sus	tainable
Development Goals (SDG:	s). The SDGs
builds on the success of the	ne MDGs.
The Goal 6 of the SDGs is	to ensure
availability and sustainabl	
management of water and	d
sanitation.	
5. Business Model (Revenue Waste Management gene	
Model) revenue through the prov	
various waste manageme	
disposal services and recy	_
solutions to residential, co	
industrial, and municipal	
Company derives its reve	
form of various fees associate continue offerings	nated with
<ul><li>its service offerings.</li><li>Scalability of the Solution</li><li>Sensoneo's smart waste</li></ul>	
management solution em	nowers
cities to manage and batt	•
evergrowing volumes of u	
municipal waste. The grow	
volumes of waste are larg	_
by two factors: large-scale	-
urbanization and industry	
The modern lifestyle arou	-
globe produces much mo	
per citizen than only a dec	
The United Nations project	_
the world's population wi	
cities by 2050. To sustain	
factors, problems and cha	illenges,
cities need a sophisticated	d and
efficient tool to manage v	vaste,
monitor bins with sensors	s, and
optimize capacity and col	lection
routes.	