Project Design Phase-I Proposed Solution Template

Date Team ID

Project Name Maximum Marks

02/11/2022

PNT2022TMID22857

Project – Smart waste management system 2 Marks

# Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

# S.No. Parameter Description

1.

2. 002

Problem Statement (Problem to be solved)

Idea / Solution description

 Rubbish and waste can cause air and water pollution.

 Rotting garbage is also known to produce harmful gases mix with the air and cause breathing problem in people.

 Due to improper waste disposal, we may face several problems like unpleasant odour and health problems.

 To solve this problem of waste management for disposal using a smart refuse bin built with technologies like Sensors, Arduino Yun.

 Garbage truck Weighing Mechanisms.

 AI Recycling Robots.

1. Novelty / Uniqueness
2. Social Impact / Customer Satisfaction
3. Business Model (Revenue Model)

 Identify potential waste streams.

 Create a waste management-focused community outreach plane.

 Neighbourhood of landfills to communities, breeding of pests and loss in property values.

 The IOT solution uses the data and selects optimum routes for waste collection trucks.

 It generates revenue through the provision of various waste management and disposal services.

 Recycling solutions to residential,commercial,industrial,and municipal clients

6.

Scalability of the Solution

 Installing more bins fir collecting recyclables like paper, glass,plastice.

 Recycling not only save energy but also prevent the material from going to landfills & Incineration and

provides raw materials for new products.