**Project Title**: Smart Waste Management System **Project Design Phase-I** - **Solution Fit Template Team ID:** PNT2022TMID043251

# 1. CUSTOMER SEGMENT(S)

**CS**

# CUSTOMER CONSTRAINTS CC

1. **AVAILABLE SOLUTIONS**

**CC**

* 1. Our target is Public.

**Define CS, fit into CC**

* 1. Municipality and Local authorities of Metropolitan cities of India

1. Recycling is expensive
2. Network issue
3. More energy
4. Cost
5. Size of the bin and separationof various wastes
   1. Reduce running cost
   2. Solar power

**Explore AS, differentiate**

* 1. Increases the sustainabilityof waste services
  2. Review compliance guidelines

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Focus on J&P, tap into BE, understand RC** | **2. JOBS-TO-BE-DONE / PROBLEMS** | **J&P** | **9. PROBLEM ROOT CAUSE** | **RC** | **7. BEHAVIOUR BE** | **Focus on J&P, tap into BE, understand RC** |
| 1. Germ spreading 2. Avoid overflow bins & maintenance 3. Perform regular audits on waste management & disposal 4. Reduce number of bins & replace smart bins 5. Proper Segregating & Minimizing Waste. |  | 1. Lack of waste disposal: If any network issues occurred then the message will not received by the workers, so the waste disposal get delayed. 2. Due to lack of proper systems for disposal and collections, wastes & garbage’s end up in the roads and surrounding |  | 1. Ai-based smart waste bin, designed for public places, enabling them to Monitor and Manage. 2. Sensor sense the amount of waste in trash can. 3. The device sends the notification to the agent and they collect the trash. |

* + 1. **TRIGGERS J&P**



* + - 1. People want to make their environment cleaner and also prevent the spread of health hazards in their community

-waste tend to decay faster, and if not carefully managed.

# EMOTIONS:

**BEFORE / AFTER EM**

BEFORE:

a. More negative

# YOUR SOLUTION RC

* 1. Network issue: Create an emergency

readiness plan

* 1. Spending power: solar power usage
  2. Waste disposal: Perform regular audit onwaste management & disposal
  3. Shop Eco-Friendly with reusable bags and

say know to disposable to water bottle

# CHANNELS OF BEHAVIOUR

**CH**

ONLINE:

* 1. It reaches the customers quickly.

1. We can monitor in live
2. Information about the level of trashes filled isindicated and the data is transferred to the control room for each bin including its specifications (GSM module).

OFFLINE:

a. Placement of bins in the main hubs of the cities,

taking necessary action

AFTER:

emotion associated with increased intention to reduce waste management

1. The solution mainly involves in collecting, sorting, recycling and

when properly facilitated providing a source of

of discharging wastes by the municipals

* 1. People may feel

good and comfortable once all project is set

energy andresources