**Project Design Phase-I** - **Solution Fit**

**Project Title: Smart Waste Management System for Metropolitan Cities Team ID:** PNT2022TMID54012

**Focus**

**on**

**J&P,**

**tap**

**into**

**BE,**

**understand**

**RC**

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| **Define**    **CS, fit**    **into CC** | **1. CUSTOMER SEGMENT(S)**    Municipality and Local authorities of Metropolitan cities of India are the customers. | **CS** | **6. CUSTOMER CC**  **CONSTRAINTS**     1. Lack of infrastructure 2. Cost 3. Limitation of technology 4. Lack of participation in waste segregation | **5. AVAILABLE SOLUTIONS AS** | | **Explore**    **AS,**    **differentiate** |
| 1. Central point for managing daily operations. 2. Identification, track & control the infrastructure of smart waste management. |  |

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| **Focus**    **on**    **J&P, tap**    **into BE,**    **understand RC** | **2. JOBS-TO-BE-DONE / PROBLEMS**       1. Avoid fixed routine for waste collection 2. Avoid overflowing of bins 3. Proper Segregation of wastes | **J&P** | **9. PROBLEM ROOT CAUSE RC**        1. Increased population growth and urbanization leads to escalation of wastes 2. Lack of waste disposal due to this the garbage end up in the roads and surroundings |

**7. BEHAVIOUR BE**

1. Sensors are used to sense the amount of waste in the trash
2. People must wait until the next day for the garbage to be cleared by the truck drivers

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| **Identify strong**    **TR &**    **EM** | **3. TRIGGERS TR**    To make the environment disaster free and clean and to save the people for some toxic wastes. | **10. YOUR SOLUTION SL**    1. Regular monitoring of waste disposals 2. Creating an app for monitoring the  location, weight, and level of garbage cans  3. Solar power usage | 1. **CHANNELS of BEHAVIOUR CH**     **8.1 ONLINE**   1. We can monitor in live 2. People can give complaints and feedback about the work     **8.2 OFFLINE**  Taking necessary action on collecting the garbage regularly |  |
| **4. EMOTIONS: BEFORE / AFTER EM**      Before:  People get irritated on seeing the wastes that end up on the roads After:  After the cleaning of trash people feel pleasant and secure |