**Project Design Phase-I**

Problem Solution Fit

|  |  |
| --- | --- |
| DATE | 20 OCTOBER 2022 |
| TEAM ID | PNT2022TMID52274 |
| PROJECT NAME | SMART WASTE MANAGEMENT SYSTEM FOR METEROPOLITAN CITIES |
| MAX.MARK | 4 marks |

Problem Solutiom Fit:

|  |  |  |
| --- | --- | --- |
| s.no | TITLE | DESCRIPTION |
| 1 | Customer Segments | The primary goals are to improve resources location,lower operating costs,and increase stability of waste management. |
| 2 | Jobs to be Done/Problems | To send a notification to trash collector department in the areas where the trash can is about to get filled. |
| 3 | Emotions:Before/After | A smart waste management system aids in keeping the city tidy,hygenic, and diseasfree. |
| 4 | Customer Constraints | People are unsure about where to dump their trash once the bins are full.Additionally , it’s a necessory to maintain separate garbage bins for biodegradable and non-biodegradable waste. |
| 5 | Available Solutions | This project IOT Garbage Monitoring system is very innovative system which will help to keep the cities clean.This system monitors the garbage bins and informs about the of garbage collected in the garbage bins. |
| 6 | Problem Root Cause | One of the biggest issues in the modern period is the detection,monitoring and management of garbage.The old-fashioned method of physically checking the contents of trash cans requires more human workers,takes longer and costs. |
| 7 | Behaviour | Up to 80% fewer waste pickups are required,using less people ,fuel,and causing less traffic congestion.Data analysis is used to better manage collection routes and bin placement. |