

SMAC CENTER (SMArt CITY CENTER) PART-1 -SMART SOLID WASTE MANAGEMENT VEHICAL TRACKING & RFID

1.Name of the Project: SMAC CENTER (SMArt CITY CENTER) PART-1 -SMART SOLID WASTE MANAGEMENT VEHICAL TRACKING & RFID

2.Background:

Surat Municipal Corporation is responsible for collection and disposal of Solid Waste Management across 326 sq.km city area. SMC has taken various initiatives in the field of Solid Waste Management to make the city clean. The efforts of SMC have been acknowledged at various levels and Surat is considered to be one of the cleanest cities of India. Surat has secured 6th position in the Swachh Sarvekshan-2016 and 4th position the Swachh Sarvekshan-2017 conducted by MoUD.

3. Vision:

Solid Waste Management comprising of solid waste collection, transportation and disposal is a very critical activity for any ULB. SMC intends to utilize the latest technology and IT system to further strengthen the Solid Waste Management practices.

4.Sector: Information Technology

5.Cost and financing: Cost 1.38 CR

6.Brief Description (Technical Details):

The goal of this project is to implement an Integrated and centralized Solid Waste Management monitoring and tracking solution (SWM Application). The solution will be monitored centrally from existing Smart City Center (Command & Control Center).

7. Speciality:

- a) Monitor the fleet involved in the Solid Waste Management activities in realtime, to improve per vehicle productivity, to reduce non-compliance and to optimize fleet utilization
- b) Real-time information with regards to waste collection activity
- c) Geocode and geofence stoppages/Point of Interest (POI) and routes
- d) Route planning and allocation

- e) Automate the transfer stations and disposal site for daily garbage inward and outward activities
- f) Utilize the technology to minimize human intervention and to improve the collection efficiency
- g) Full proof the system and prevent misuse of manual system and to induct transparency and accountability in operations
- h) Ensure complete coverage of waste collection across Surat city
- i) Monitor the performance and SLA for services
- j) Management with dashboard and detailed analysis reports for decision making

8. Implementation Plan:

- **Current status: Tender awarded, work in progress.**

9. Impact/ Envisaged Impact of the project:

Effective collection of garbage from door to door and automated data capturing at transfer stations.