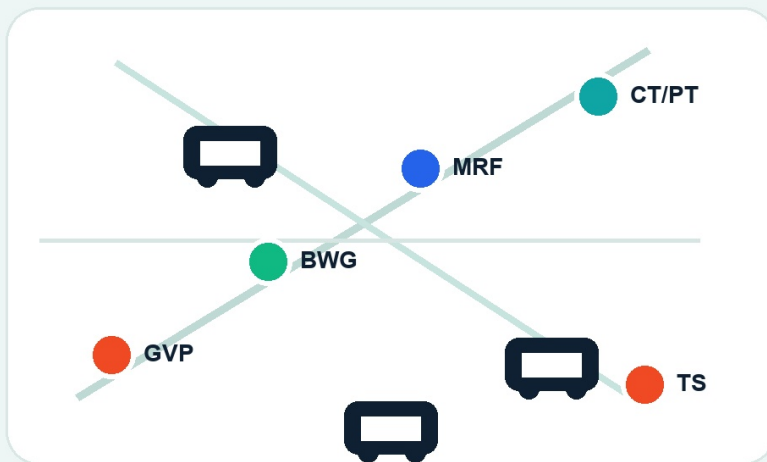


# SWM Digital Monitoring Portal

A role-based municipal technology platform for BWG, GIS assets, GVP, UCC, complaints, attendance and field operations.



## SWM Digital Monitoring Portal

GIS + BWG + GVP + UCC + Field O

Prepared for: Urban Local Body / Executive Officer

Prepared by: Technical Implementation Partner

Date: June 2026



# Executive Summary

Centralized SWM monitoring and role-based field governance.

The proposed SWM Digital Monitoring Portal helps ULB leadership monitor sanitation operations, field activity, user charge collection, SWM assets, complaints and compliance from one centralized platform.

- **Purpose:** Real-time operational visibility for field teams, assets, complaints and revenue activity.
- **Data backbone:** A single digital record for households, BWG, GVP and SWM infrastructure.
- **Outcome:** Cleaner reporting, faster review and improved accountability across ward-level operations.

## Core platform modules

One portal for SWM monitoring, field governance and revenue operations.



### BWG

Registration and compliance tracking

Status: Role based, dashboard ready



### GIS

Assets and map-based monitoring

Status: Role based, dashboard ready



### GVP

Hotspot reporting and closure

Status: Role based, dashboard ready



### MRF

Facility capacity and operations

Status: Role based, dashboard ready



### UCC

Collection, receipt and recovery

Status: Role based, dashboard ready



### Field

Attendance, vehicles and verification

Status: Role based, dashboard ready

# SWM Coverage



## BWG

Registration, listing, location record and compliance monitoring for bulk waste generators.

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## GIS

Map-ready asset registry for vehicles, GVP, BWG, MRF, CT/PT, processing sites and transfer stations.



## GVP

Geo-tagged reporting and resolution tracking for garbage vulnerable points.



## MRF

Facility capacity, operator, status and processing-readiness records.



## UCC

Household survey, collection entry, receipts and period-wise collection reports.



## Attendance

Geo-based field attendance with configurable distance control by user.

# Role-Based Access



## Super Admin

ULB setup, module access, global monitoring and cross-ULB control.

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## Admin

Ward, staff, assets, complaints, reports, command center and configuration.



## Supervisor

Field team monitoring, survey verification, complaints and route-level review.



## Field User

Household survey, UCC collection, GVP reporting, attendance and field operations.



## Sanitary Worker

Assigned sanitation tasks, vehicles, GVP updates and role-specific work.



## Citizen Touchpoints

Complaint reporting and public-facing verification workflows where enabled.



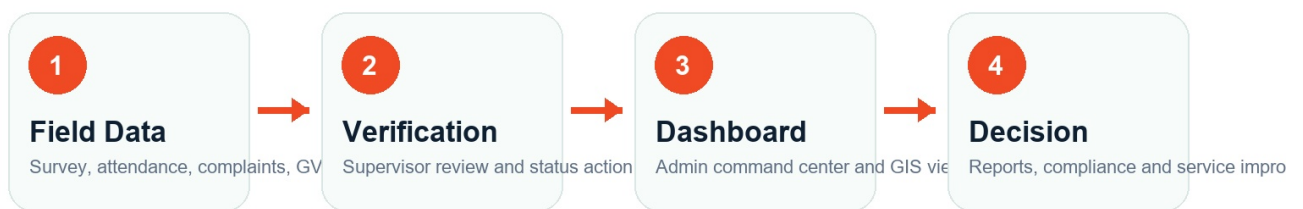
# GIS and Asset Registry

Separate asset records with one combined map layer view.

- **Registry:** All Assets overview with search, filters and location readiness.
- **Asset pages:** BWG, GVP, Vehicles, MRF, CT/PT, Processing Sites and Transfer Stations as focused pages.
- **Map view:** Layer-based GIS view for faster planning, inspection and review.
- **Geo-tagging:** Latitude and longitude fields to support accurate map visibility.

## Operational workflow

From ground activity to accountable municipal decision-making.





### **Command Center**

One-screen summary for surveys, revenue, complaints, attendance, vehicles and assets.

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ons.



### **Date Range Filters**

Period-wise tracking for dashboards, complaints, evidence, attendance and reports.



### **Reports Hub**

Survey, collection, complaint and operational reporting for administrative review.



### **Professional UI**

Consistent sidebar, header, cards, compact forms and clean page layout.



# Implementation Approach

Recommended rollout for ULB adoption.

- **Step 1:** Review ULB requirements, wards, users and module access.
- **Step 2:** Configure ULB, staff, wards, assets and permissions.
- **Step 3:** Train admin, supervisors and field staff on daily workflows.
- **Step 4:** Run pilot ward, validate reports, then expand to all wards.

## Expected Benefits

- Better field supervision and faster corrective action.
- Structured records for BWG, GIS assets, GVP and processing infrastructure.
- Transparent UCC collection tracking with receipts and reports.
- Improved complaint response discipline and public trust.
- Future-ready structure for multi-ULB deployment.



## Proposed Next Step

Short role-wise demo for EO and concerned ULB team.

A short product demonstration can be arranged for the Executive Officer and concerned ULB team. During the demo, the portal can be shown role-wise, including Admin, Supervisor, Field User and Sanitary Worker workflows.



### Recommended Demo Agenda

Dashboard overview, BWG and GVP workflow, GIS asset map, UCC receipt process, complaint handling, geo-attendance and reports.

**Contact for demo and discussion**

**9555526823**

**SWM Digital Monitoring Portal**