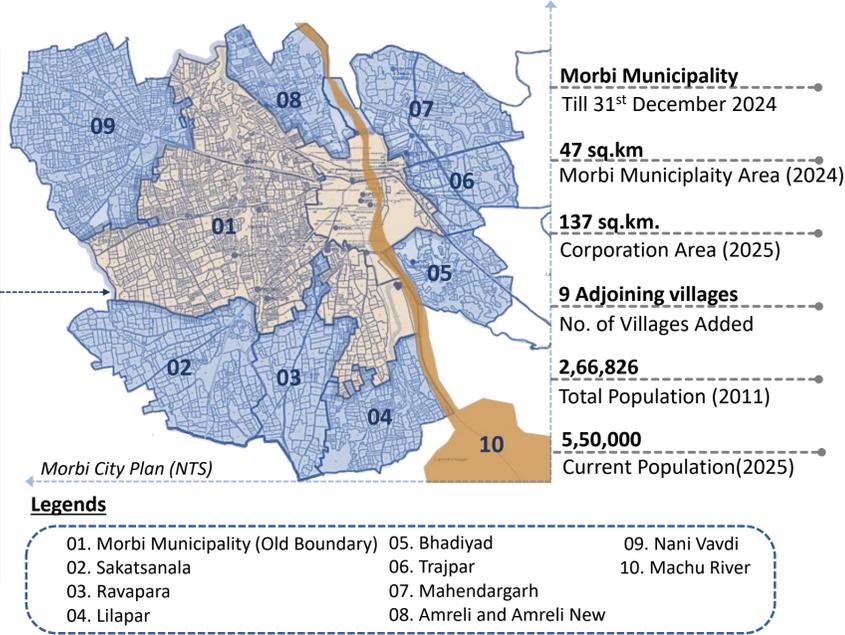
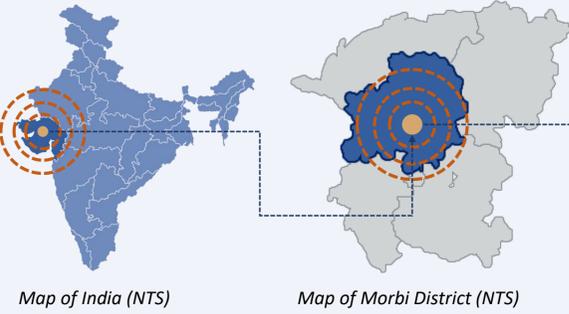


Transforming Urban Sanitation: A Water+ Strategy for Morbi's Sewerage and Drainage Network.

Pankaj Khandelwal, Dr. Mercy Samuel, Sarthak Tapasvi

Morbi City

Morbi, also known as the ceramic capital of India, plays a critical role in Gujarat's industrial economy through its ceramic, clock, and manufacturing clusters. Located in the western region of Gujarat, the city has witnessed rapid urban growth driven by industrial expansion, inward migration, and the spread of peri-urban areas. In response to this growth, Morbi was upgraded from a Municipality to a Municipal Corporation in 2025, significantly expanding its governance and service delivery responsibilities.



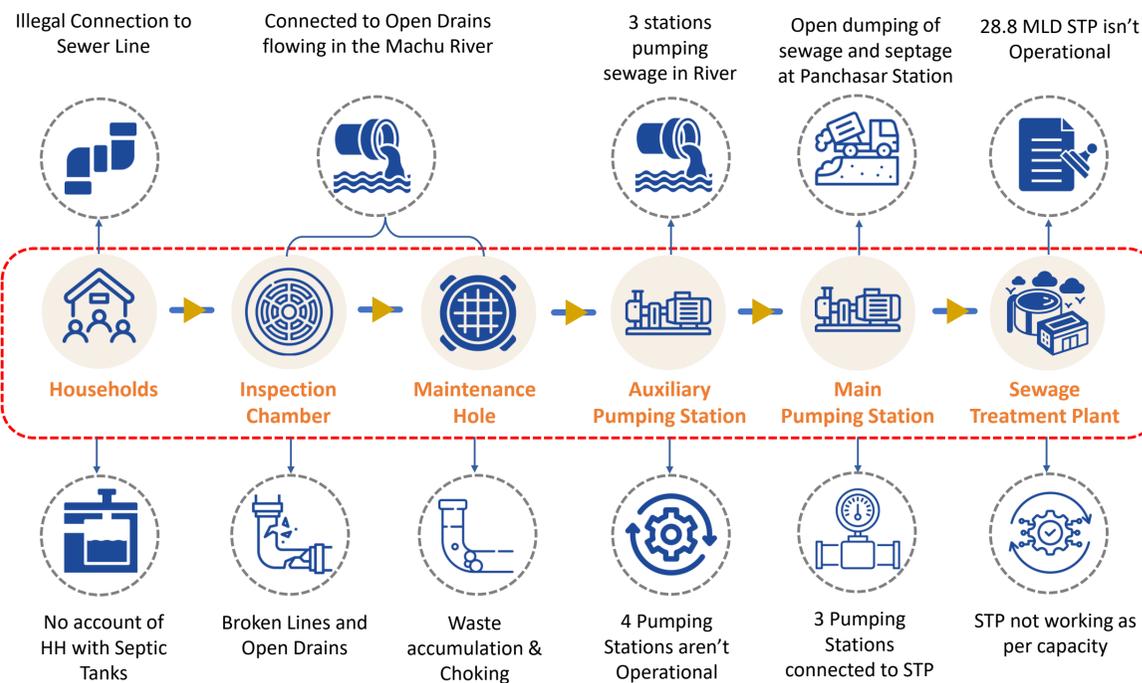
Departments Overview

Sewage and Drainage services are spread over four departments in Morbi Municipal Corporation as follows:

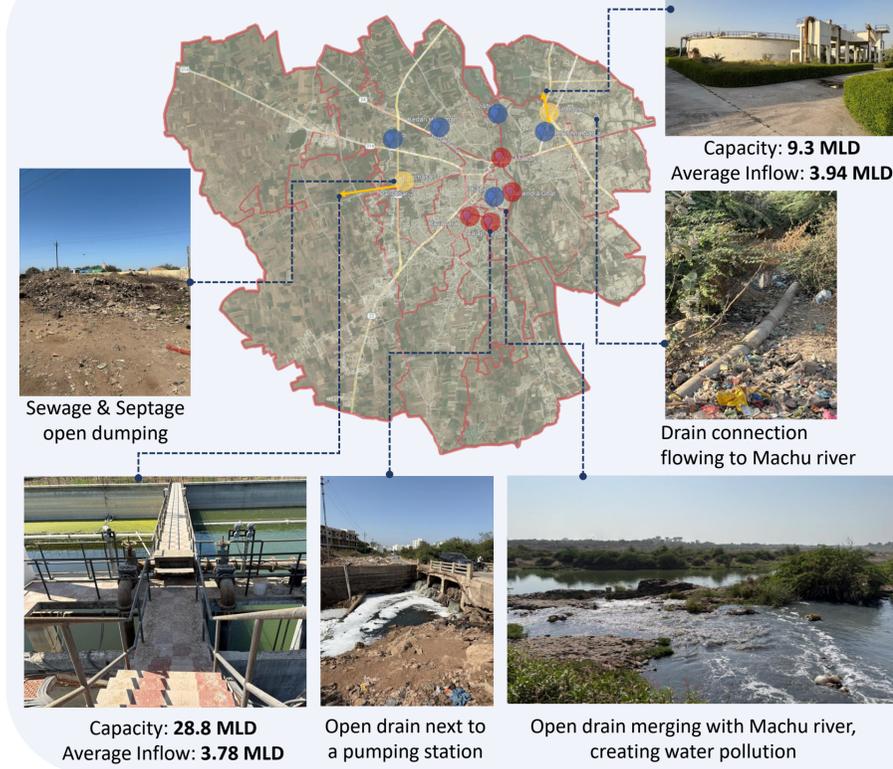
- Public Works Department**
Responsible for sewer network expansion, repairs, and STP/pumping station contracts.
- Tax Department**
Responsible for drainage tax collection. (45,849 residential and 22,242 non-residential properties as per 2008 data)
- Workshop Department**
Manages cleaning of septic tanks and maintenance of MMC vehicles and machinery.
- Sewage and Drainage Department**
Handles routine cleaning, desilting, and maintenance of sewer and drainage lines.

Assessment and Gap Analysis

"Out of 105.6 MLD of water supplied, only 7.72 MLD is treated and leaving 91% of Morbi's wastewater remains untreated"



STP and Pumping Stations



Assessment and Gap Analysis



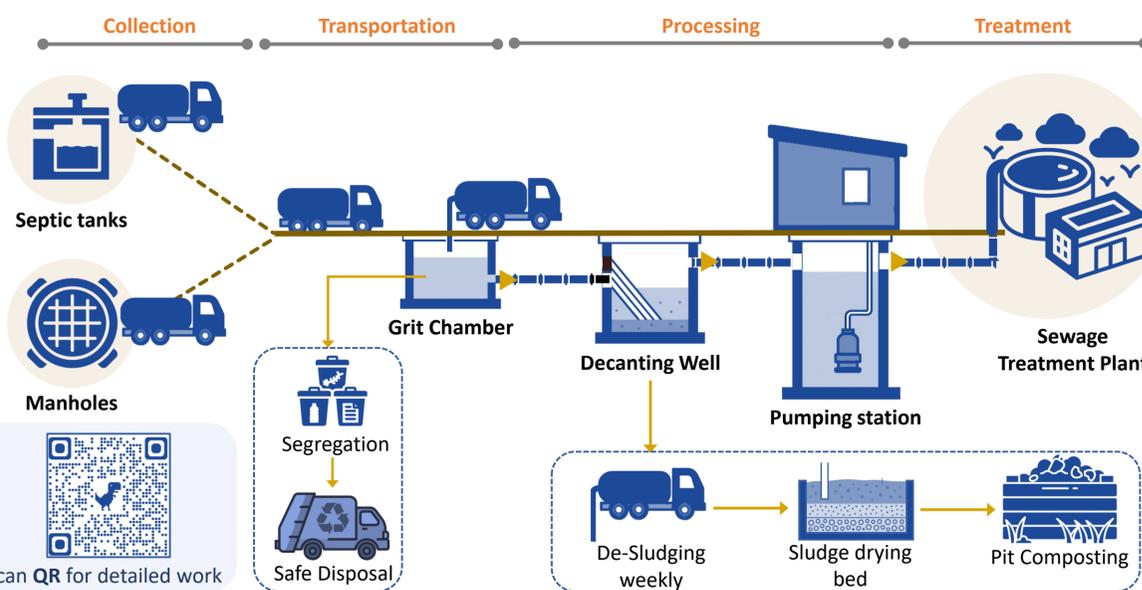
Service Level Benchmarking (as per CPHEEO)



Way Forward

A phased roadmap is proposed to address Morbi's sewage and septage challenges, combining GIS-based interventions with medium- and long-term infrastructure and governance reforms.

- GIS based database:** Develop a GIS system covering sewer lines, septic tanks, STPs, pumping stations, outfalls, and property-level connections to enable data-driven sewage and septage management.
- Decanting Station:** To address open dumping caused by the lack of co-treatment facilities, a decanting station is proposed at the final pumping station for safe disposal of sewage and septage to STPs.



- Privatization of Desludging services:** Formalize and regulate private desludging operators to ensure SOP compliance and a streamlined septage management value chain.

