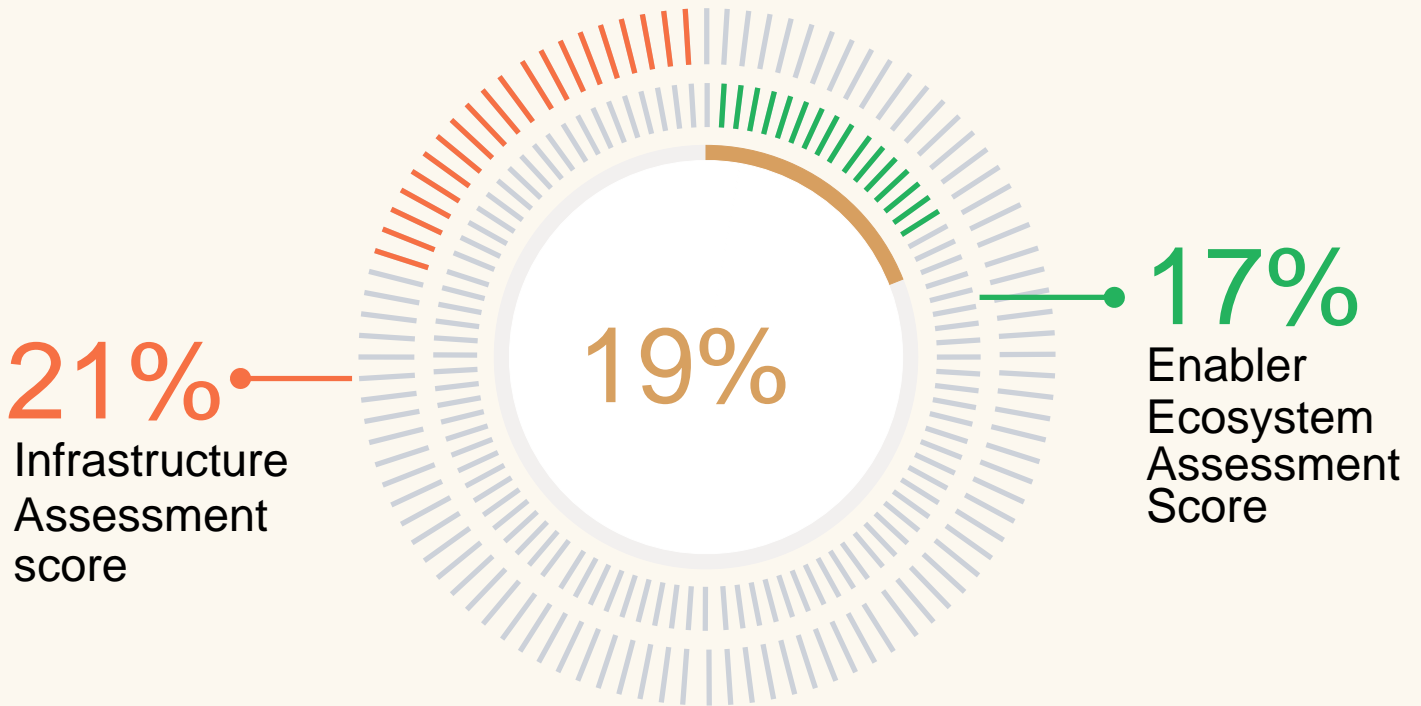


City Assessment Report

Shariatpur Municipality

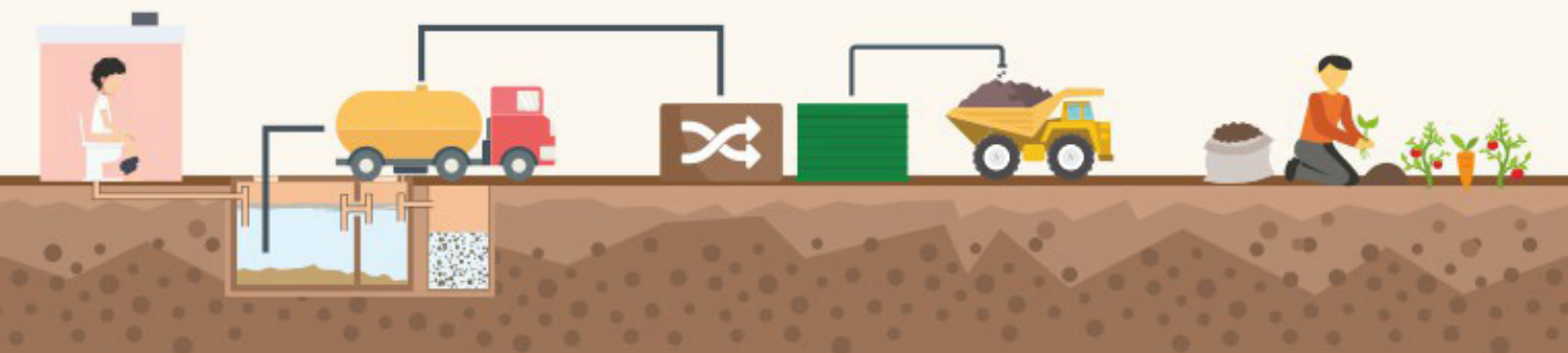


The FSM Index score indicates that the Overall FSM performance of the city is

Poor

Scale: Poor 0-33% | Developing 33-66% | Good 67-100%.

The FSM infrastructure of the city requires improvement with a focus on - containment systems, desludging and transportation services in the city. The enabler ecosystem assessment score indicates need for improvement in aspects of - defining service targets, public finance commitments, quality of FSM services, demand generation, programmes for sector development and overall quantity of FS safely managed across the value chain.



City Assessment Report: Shariatpur Municipality

25 April 2019

Produced By: Shahroz, Snv, Shariatpur Municipality, Shariatpur, Bangladesh.

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Source: The FSM Toolbox.

www.fsmttoolbox.com

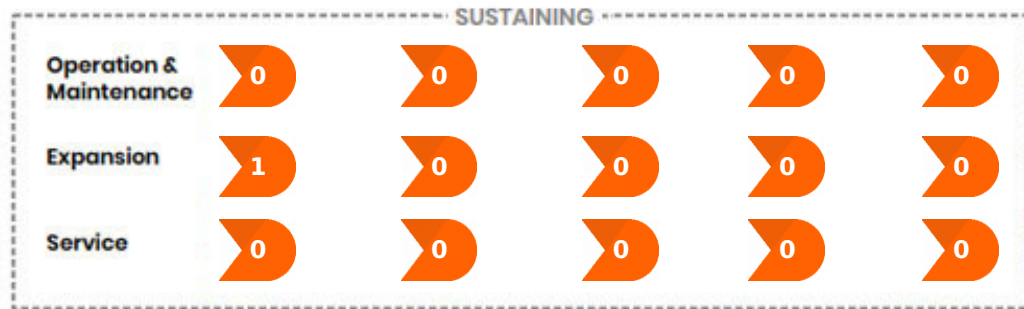
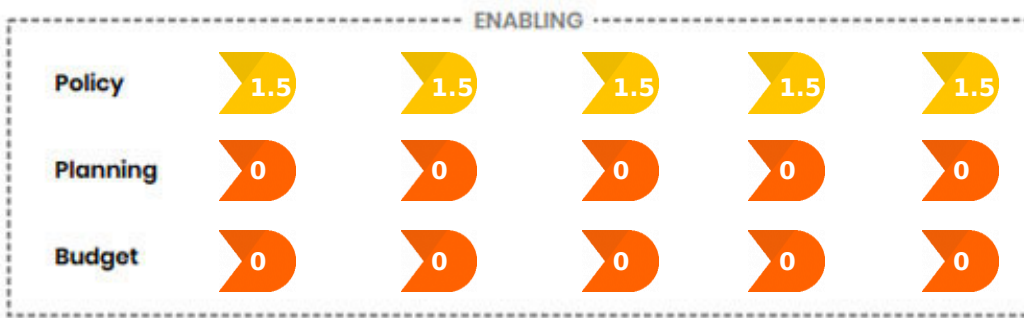
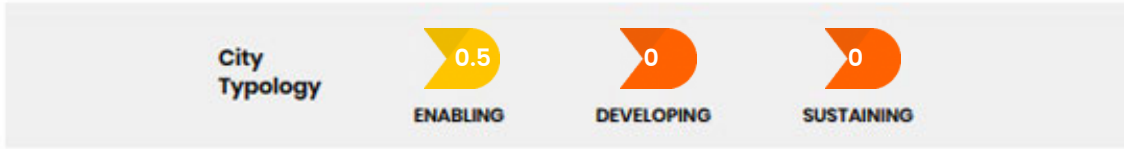


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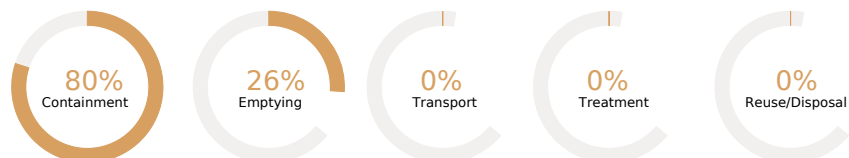
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Overall Assessment Output

Enabler Ecosystem Assessment



Infrastructure Assessment



Enabler Ecosystem Assessment



17/100

17%
Enabler
Ecosystem
Assessment
Score

City Typology






ENABLING



DEVELOPING



SUSTAINING

-  POOR
-  DEVELOPING
-  GOOD



CONTAINMENT



EMPTYING



TRANSPORT



TREATMENT



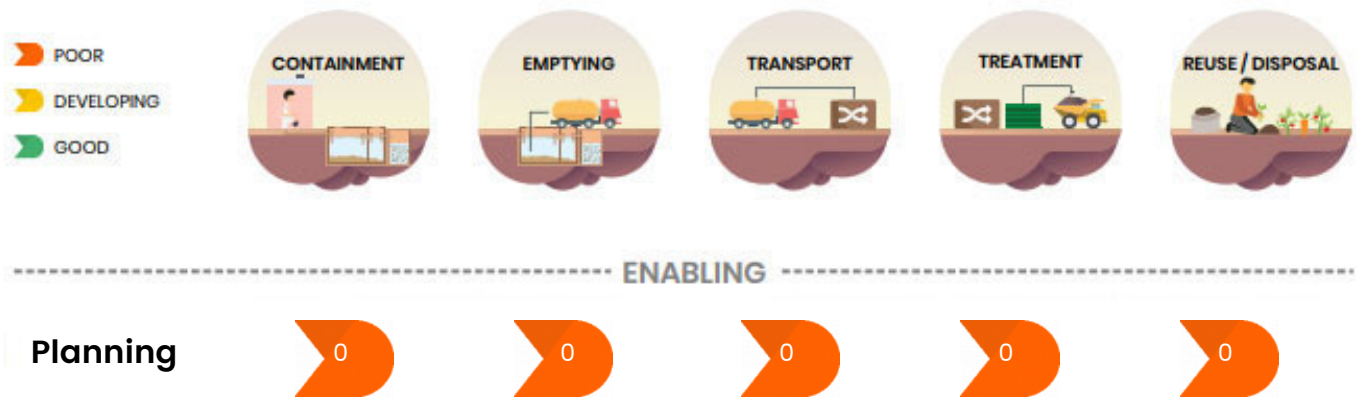
REUSE / DISPOSAL

ENABLING

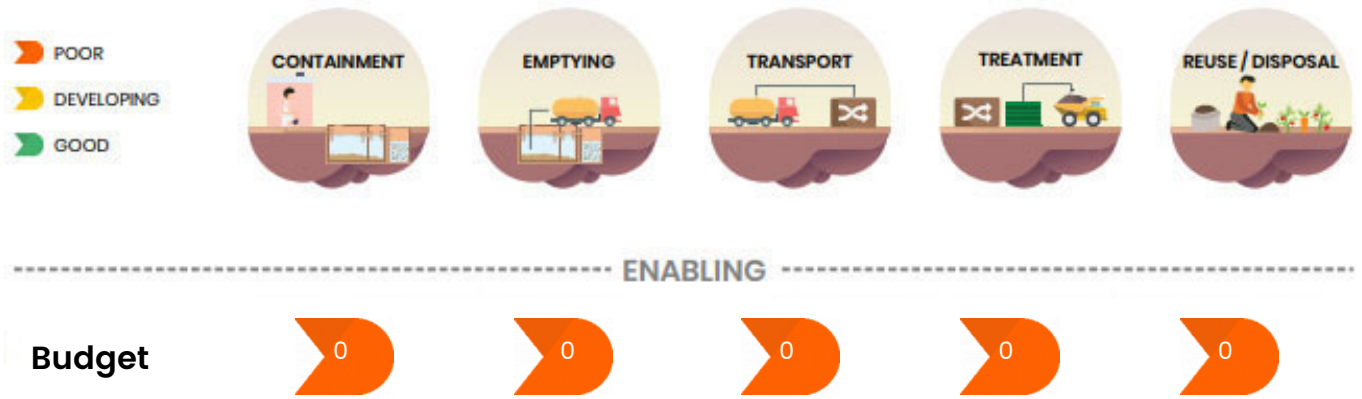
Policy



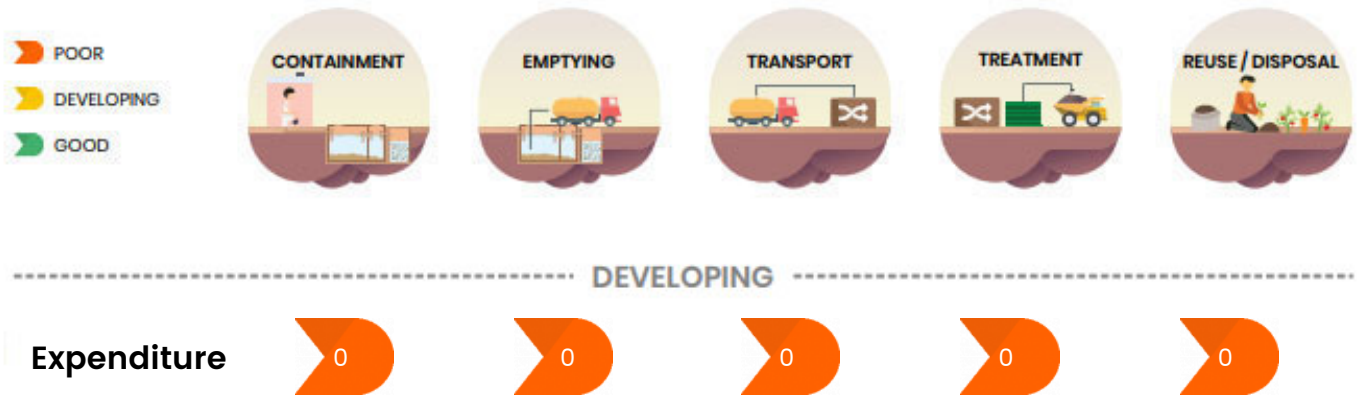
- Good that you have taken the first step towards development of the policy document. Present the draft policy document among the core stakeholder, solicit feedback from the core group, refine and publish the policy document widely.
(Containment|Emptying|Transport|Treatment|Reuse/Disposal)
- Encourage / enforce the stakeholders to operationalize defined institutional roles
(Containment|Emptying|Transport|Treatment|Reuse/Disposal)
- Though legal and regulatory mechanisms exist in your city, it is important to operationalize them effectively. Educate and encourage the ground officers about the pros of effectively operationalizing legal and regulatory systems in the city.
(Containment|Emptying|Transport|Treatment|Reuse/Disposal)



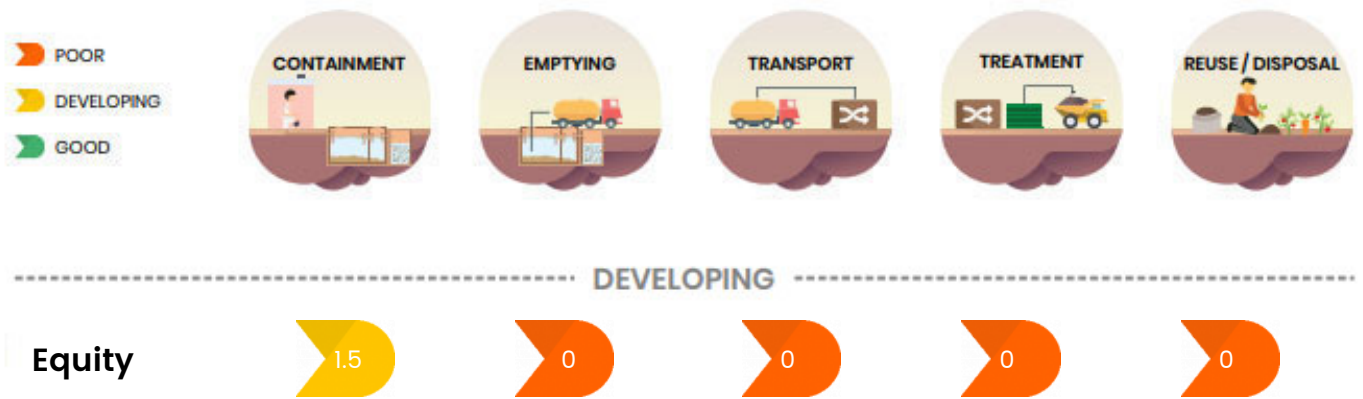
- No service targets are defined at the city level. Please engage with the relevant stakeholders and define service targets in a collaborative fashion.
(Containment|Emptying|Transport|Treatment|Reuse/Disposal)
- Cities must have a dedicated development and investment plan for improvement of FSM situation in the city. It is recommended to engage with relevant financial experts to develop investment plan inline with the overall city FSM development plan of the city
(Containment|Emptying|Transport|Treatment|Reuse/Disposal)



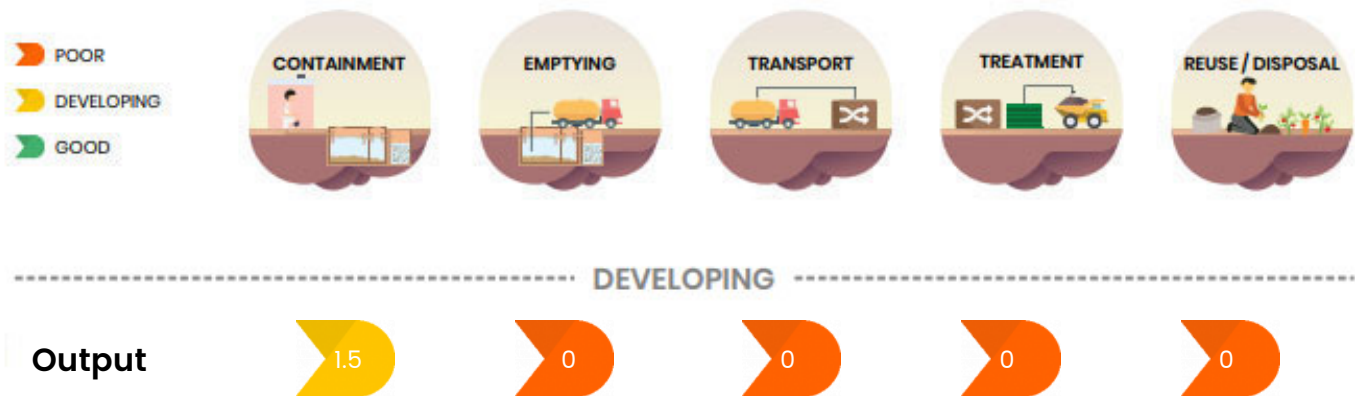
- The city must establish a process for coordinating investments from domestic and international donors, national grants, state budgets, donor loans, grants and others **(Containment|Emptying|Transport|Treatment|Reuse/Disposal)**



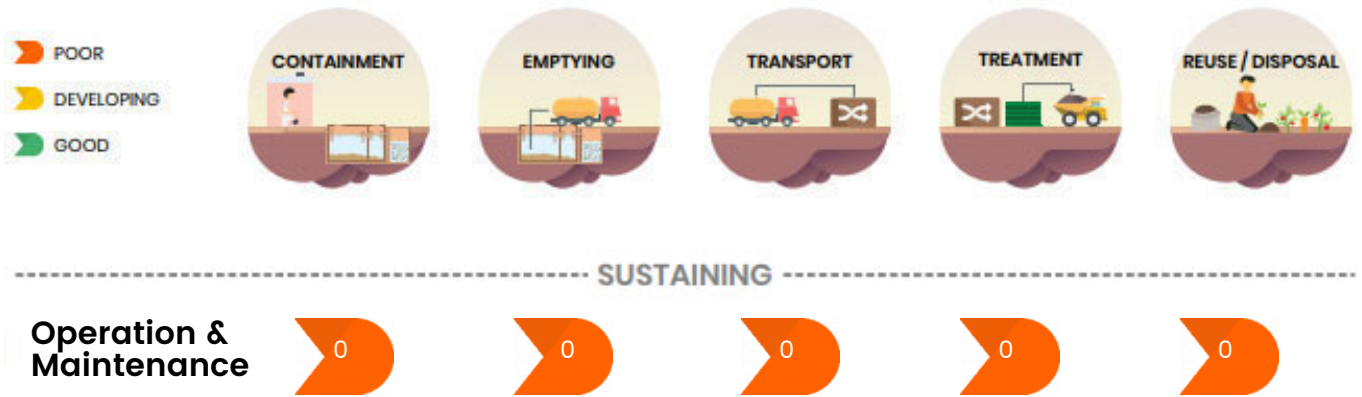
- The annual public financial commitments for fsm is insufficient to meet the service levels and needs for the city. The existing financial commitment meets less than 50% overall FSM requirement for the city. It is advised that the city attempts to mobilize funds from domestic and international donors, national grants, state budgets, donor loans, grants and others. **(Containment|Emptying|Transport|Treatment|Reuse/Disposal)**



- The technology options are not sufficiently available in the city. The city needs to encourage private sector to research / develop / make available technologies that meets the needs of the urban poor **(Containment)**
- The technology options are insufficient in the city. The city needs to engage with private sector extensively to encourage mobilization of affordable, appropriate, safe and adoptable technologies for FSM services in the city **(Emptying|Transport|Treatment|Reuse/Disposal)**
- Though there are adequate funds arranged according to the plan, measures must be taken to actually implement and reduce inequalities in the city, specifically for the urban poor **(Containment)**
- The city must take adequate efforts to reduce inequalities by ensuring adequate funds, plans and measures are in place to serve FSM for all users in the city **(Emptying|Transport|Treatment|Reuse/Disposal)**



- The capacity of the FSM players / infrastructure is partially growing at a decent pace (just over 50% growth) to meet the needs, demands and targets to protect the overall public and environmental health. The city must further encourage players to build capacities / mobilize investments / seek VGF / encourage PPP to improve the overall quality of FSM service delivery in the city. **(Containment)**
- The capacity of the FSM players / infrastructure is not growing at the pace required (Less than 50% growth) to meet the needs, demands and targets to protect the overall public and environmental health. The city must encourage players to build capacities / mobilize investments / seek VGF / encourage PPP to improve the overall quality of FSM service delivery in the city. **(Emptying|Transport|Treatment|Reuse/Disposal)**
- The quality of FSM is insufficient, just greater than 50% of services are adequate to meet the public health standards. It is recommended to engage with sanitation experts to improve the overall quality of service delivery. **(Containment)**
- The quality of FSM is insufficient, less than 50% of services are adequate to meet the public health standards. It is recommended to engage with sanitation experts to improve the overall quality of service delivery. **(Emptying|Transport|Treatment|Reuse/Disposal)**

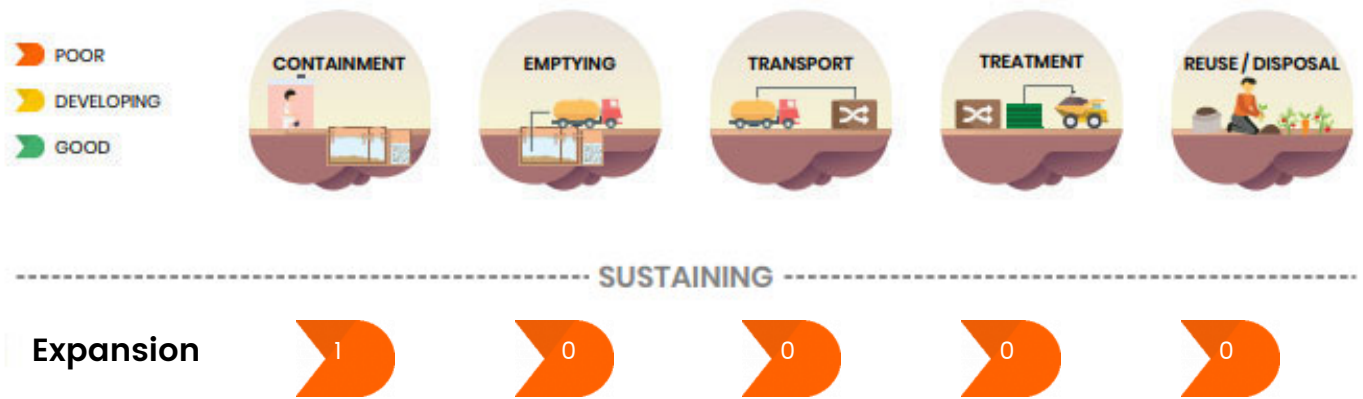


- Less than 50% of the city's overall operations and maintenance cost is met through user fees and/or local revenue or transfers. It is highly recommended that the city should revisit its cost to deliver services and revise its cost to the consumer such that 100% of the operational cost is covered through either user fees / local revenues.

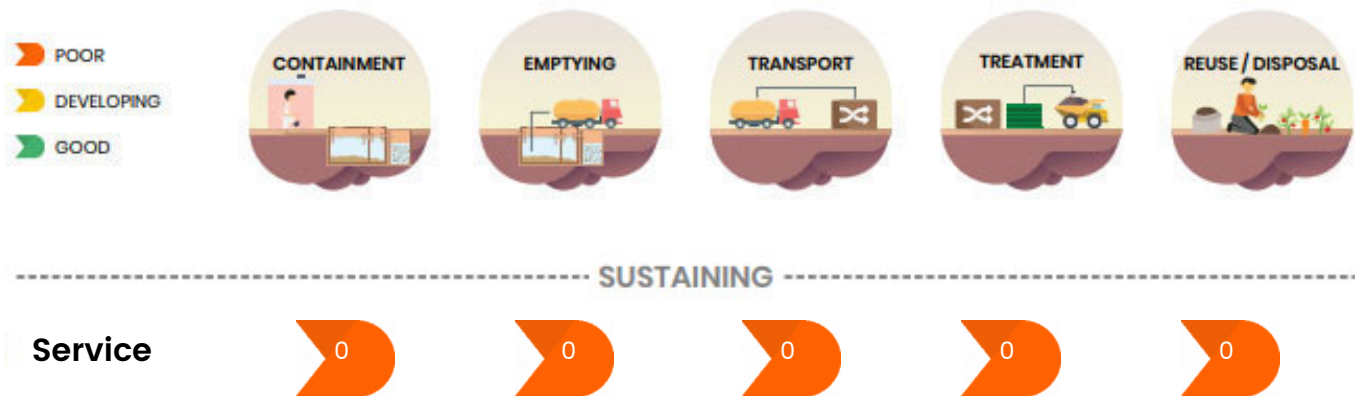
(Containment|Emptying|Transport|Treatment|Reuse/Disposal)

- Though norms and standards exist for systematic collection of the user fees, the collection efficiency is not being monitored at the city level. It is highly encouraged that the city should set collection targets for each year, monitor the overall collection progress and incentivize fees collectors for achieving individual service targets.

(Containment|Emptying|Transport|Treatment|Reuse/Disposal)

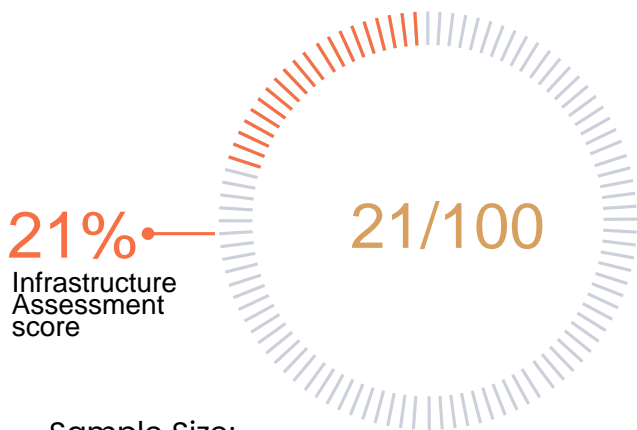


- Though city has taken effort to increase the overall FSM demand, it is learnt that the demand has not increased quite significantly. The city should build capacities of the service providers and develop targetted IEC strategies for improving the overall demand for FSM services in the city **(Containment)**
- The city should take adequate efforts to increase the overall FSM demand by creation of policies, procedures and plan programs to stimulate demand of FSM services, behavior of households and responses by service providers **(Emptying|Transport|Treatment|Reuse/Disposal)**
- The city should focus on overall sector development by establishing programs to strengthen the quality of service providers, structure in their day to day operations and develop a roadmap for comprehensive growth / expansion over years **(Containment|Emptying|Transport|Treatment|Reuse/Disposal)**



- Less than 50% of FS generated in the city is safely managed at the containment stage. The city should encourage households to improve the overall quality of containment systems in the city to meet environmental safety standards. **(Containment)**
- Less than 50% of FS generated in the city is safely managed at the emptying stage. The city should enforce the desludging operators to adhere to global safety standards and educate them about personal health and hygiene. **(Emptying)**
- Less than 50% of FS generated in the city is safely managed at the conveyance stage. The city should enforce the desludging operators to strictly adhere to conveyance and disposal standards. **(Transport)**
- Less than 50% of FS generated in the city is safely managed at the treatment stage. The city should ensure adherence of safe treatment standards in all treatment units installed in and around the city. **(Treatment)**
- Less than 50% of FS generated in the city is safely managed at the re-use/disposal stage. The city should educate / ensure safe disposal / re-use of treated byproducts produced from the treatment plants operating in and around the city **(Reuse/Disposal)**
- FSM systems and services are not available to any extent to low-income communities in the city. The city should take adequate effort to ensure inclusive coverage of hygienic FSM services to all low income communities in the city. **(Containment|Emptying|Transport|Treatment|Reuse/Disposal)**

Infrastructure Assessment



14,000 Households

255 Commercial

126 Institutional

0 Industrial

28 Community Toilets

8 Public Toilets

Sample Size:

The FSM Pro assessment was conducted in Shariatpur Municipality with a city level sampled population. The sample was calculated with a confidence level of 95%. The table shown below is the sample size that was covered for arriving at the assessment report.



Access to Toilets

Households

HHs with access to individual toilet



HHs with access to community toilet



HHs with no access to toilet

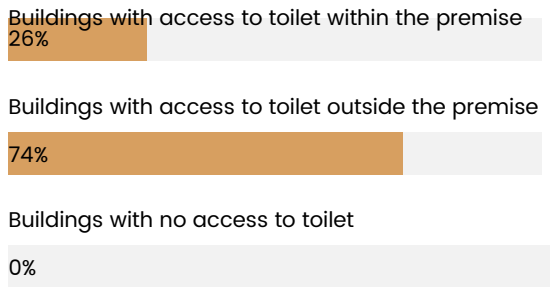


Access to toilet by households

Of the 14,000 households in the city, about 96.43% of households have access to household toilet facilities. The city has already taken adequate efforts to improve the overall coverage of toilet access in the city.

FSM Toolbox has dedicated planning modules to assist you in planning household and community toilet construction required by geography, type of toilet user interface and onsite sanitation system technology relevant by geography in your city. [Learn more.](#)

CII Buildings



Access to toilet by CII buildings in the city. The commercial establishments, institutions and industrial properties are together classified as CII buildings. There are a total of 126 properties in this category in the city of Shariatpur Municipality. It is great to learn that 26% of buildings have access to toilet facility within their premises and about 74% of buildings have access to toilet facility outside premises. The city has already taken adequate efforts to improve the overall access to toilets in CII buildings in the city.



Adequacy of Public Toilets (in the)



Public Toilets It is learnt that the city of Shariatpur Municipality do not have adequate toilet seats for men and women in public areas of the city. The coverage of public toilets for men is about 1% and 1 % for women respectively. It is important for city governments to take initiative to improve the coverage of public toilets across the public areas in city.

*It is to be noted that the rapid assessment is built to measure only the adequacy of toilets in terms of quantity while the actual geographical positioning of these toilets could vary in reality. In order to conduct an accurate assessment, we highly recommend you conduct FSMPro assessment to arrive at a comprehensive geospatial assessment of sanitation situation of your city.

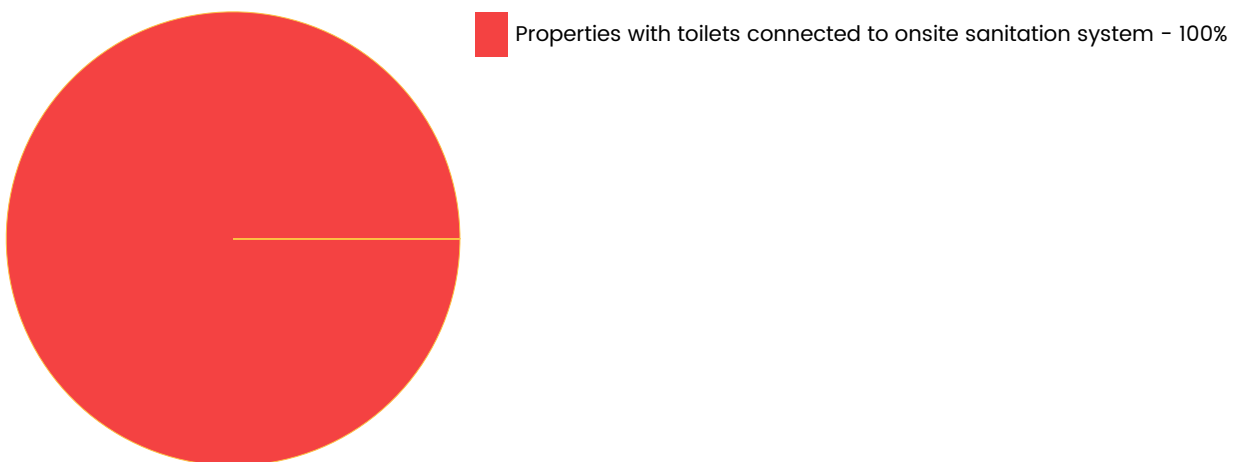
FSM Toolbox has dedicated planning modules to assist you in planning total number of public toilet seats required by geography, type of toilet user interface and onsite sanitation system technology relevant by geography in your city. [Learn More](#)

Onsite Vs Offsite Systems

Of all the existing properties in the city with toilet facilities (including public and community toilets), 100% of toilets are connected to onsite sanitation systems.

OSS Characteristics

The graph shown here describes the overall distribution of types of onsite sanitation systems (OSS) in the city.



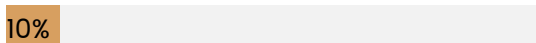


About 0% of Onsite Sanitation Systems in properties in the city have been emptied at least once. About 100% of OSS have not been emptied even once since the time of construction. These OSSs have a great risk of seepage over years and hence act as a risk factor, polluting the ground water table of the city. The local authority should take appropriate measures to ensure timely desludging of such OSSs in the city. [Learn more](#)

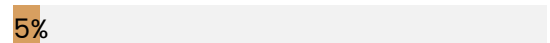


Accessibility of containment systems easily by road (greater than 3m)

HHs (with containment systems) that can be accessible by road of width greater than 3m - 10%



Community toilets (with containment systems) that can be accessible by road of width greater than - 5%



Commercial, institutional and industrial buildings (with containment systems) that can be accessible by road of width greater than 3m - 90%



What is the percentage of public toilets (with containment systems) that can be accessible by road of width greater than 3m? - 100%



The graph shown here describes the percentage distribution of properties in the Shariatpur Municipality that can be accessed by road of width greater than 3m only. It is to be noted that the desludging operators should have vehicle availability to cater to the needs of those properties located on roads with poor access.



Adequacy of desludging vehicles and operators in the city

Inadequate

After studying the existing desludging operators in the city, it is apparent that there are inadequate desludging vehicles in the city. The city should take efforts to encourage existing desludging operators / increase the desludging vehicles available in the city to meet the needs of the

The options should be

- building with pits
- building with septic tanks
- building with type OSS
- building with poor road access

FSM Toolbox has dedicated modules to assist you in developing vehicle procurement plan in order to meet the city's overall demand for conducting desludging services effectively. [Learn More](#).



It is to be noted that the emptied faecal sludge do not reach to any treatment plant and is possibly dumped into the environment. The desludging operators do not have any dedicated treatment unit in the neighbourhood for safe disposal of the collected faecal waste. The city government should take adequate steps to set up faecal sludge treatment unit in the neighbourhoods of the Shariatpur Municipality.



Presence of treatment systems in and around the city

It is to be noted that there is no treatment plant located in and around Shariatpur Municipality. It is important to ensure safe management of faecal sludge collected in the city. Hence the city should take appropriate steps towards the construction of a treatment plant each neighbourhood.

FSM Toolbox has dedicated modules to assist you in planning and implementation of faecal sludge treatment units in the neighbourhood. [Learn More](#)



0% of treated wastewater and 0% of treated faecal sludge is currently being re-used in the city. The remaining treated products are mixed with natural sources without being reused in the city. The city should take efforts to promote re-use of treated sanitation products among key stakeholders in the city neighbourhoods.