CWAS
CENTER FOR WATER
AND SANITATION
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CRDF CEPT RESEARCH AND DEVELOPMENT FOUNDATION

Innovative financing mechanisms for citywide sanitation



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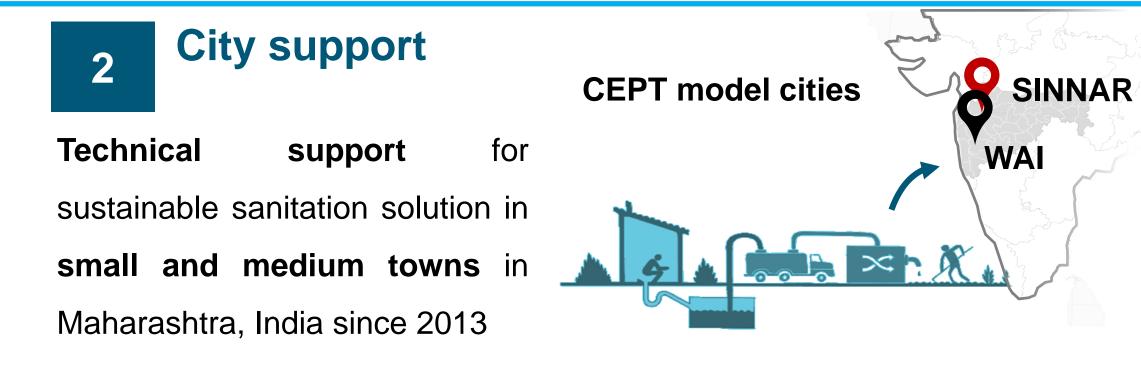
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SANITATION PLANNING SUPPORT TO GOVERNMNET

Action-research

C-WAS at CEPT University is established to focus on improving water and sanitation services in India.





State support for Swachh Bharat Mission

Partner to State Government of Maharashtra for implementation

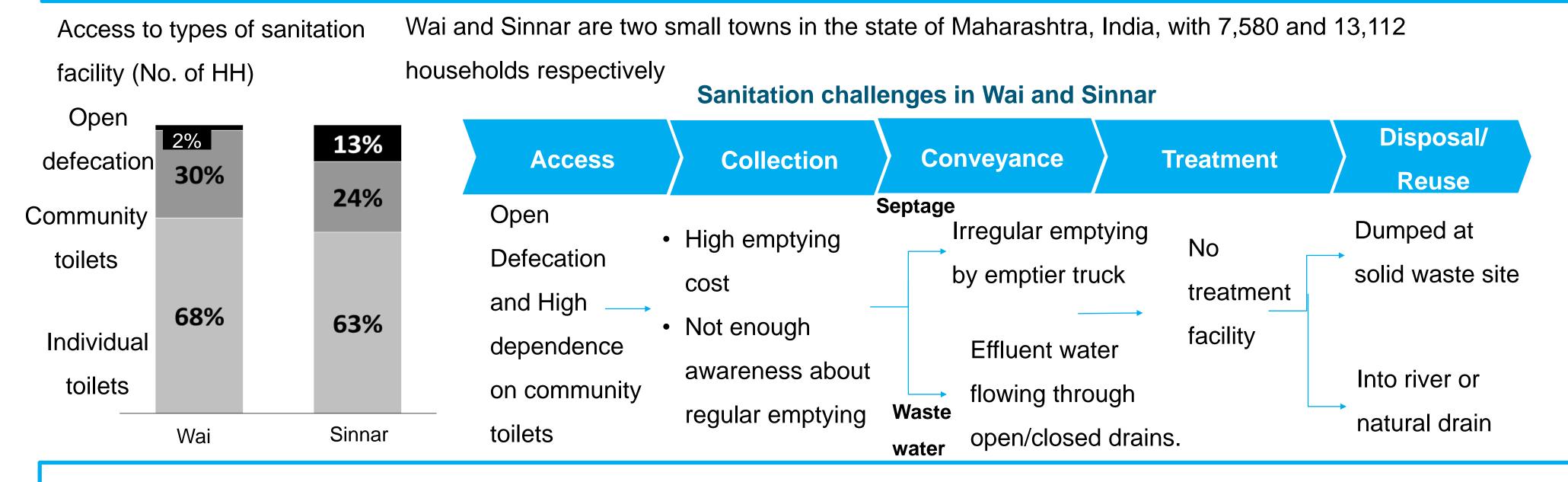
of Swachh Bharat Mission (Clean India Mission) in Maharashtra



3

Lessons from city level actions to State and National level

SANITATION SITUATION IN WAI AND SINNAR



Need for identifying innovative financing mechanisms

- Lack of ULB capacity; Technical and financial capacity
- To reduce financial and technical burden on ULB by...
 - o Involving private operators in feacal sludge septage management service provision
 - Leveraging private financing options for public services
- To improve financial viability of these services, while ensuring citywide coverage and affordable prices for services
- To enhance the quality of investments in the implementation of the sanitation programmes led by the urban local body,

INNOVATIVE FINANCING OPTIONS

2

Toilet incentive grant and sanitation loans for construction of household toilets

Citizens were not having toilets because of lack of space and fund availability.

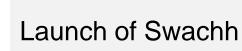
Funding issues were addressed through subsidy and space issue were addressed through group toilets

1. Announcement of 'Own Toilet/ Group Toilet Scheme' in Wai and Sinnar



Enabling sanitation credit Through toilet subsidy offered by city + through Swachh Bharat Mission **SINNAR**

(स्वच्छ) (भारत)



Swachh Bharat Mission

Performance linked annuity model (PLAM) for engaging private operators in scheduled desludging services

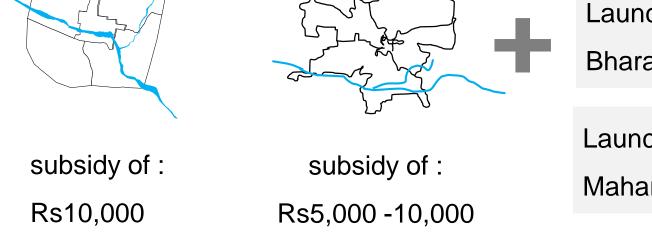
costs

Lack of ULB capacity to 1

implement scheduled desludging

- **Private sector involvement** 2
 - Economics of Scale encourages private operator to get involved
 - through private operator transparent bidding process wherein







Susbidy : INR 4,000 + Swachh Maharashtra Abhiyan 3 Susbidy : INR 8,000 =

Total = INR 22,000

2. To make citizens aware about the scheme and also to meet the financial demand - city officials with

CEPT's support have conducted various awareness generation activities through stakeholder consultation

and community participation and also have guided citizens to take sanitation loans- Continuous process



- Awareness generation activities
 - Day and night announcement in rickshaws
 - Community level and Ward level meetings
 - Movies and Jingles
 - SHG meeting
 - Toilet and lender fair
 - **Financial Lending** Institutions



Private operator need to bring in trucks and manpower

Finance through Sanitation Tax

- Tax collected as part of their property tax through a sanitation tax paid annually.
- Households paying small sanitation tax to finance operations instead of high emptying charges
- **Risk coverage through Escrow**

Mechanism

- Local government is supposed to keep 3 month payment in the account to mitigate private operator's payment risk.
- Deliver sludge Monthly payment as per to treatment performance based contract facility
- Risk coverage through performance linked Payment
- Payment on the bases of bills produced for septic tanks emptied by private operators per month.

Operational success in Wai – Sinnar

- 800+ scheduled emptying
- Rate of 56 septic tanks per month as compared to last year's 7-8 per month
- 88% acceptance rate from HHs for scheduled service
- Eliminated manual scavenging

Crowd funding for upgrading school toilets

To provide access to toilets to students of Sinnar, CEPT with Milaap platform decided to crowd fund the toilet.



Project Conceptualizer

 Assessment of school toilets and identifying infrastructure gaps and investment requirement

Crowd funding platform : Milaap:

• Bring together the project conceptualizer and the crowd

Capacity Building of Council's staff and toilet contractors



inspiring change

4 To achieve universal access to individual

istributing Handouts

toilets households of Sanitation technology Wai and Sinnar are providers guided to take "sanitation loans"

along with

commercial banks

Household Level Awareness for Group Toilet Scheme in Wai

and self-help groups

Sanitation ware providers **Residents and students**

Result: Wai and Sinnar became Open Defecation Free (ODF) with >80% HHs having individual toilets. Recently Wai and Sinnar has become ODF++



CWAS-CEPT University partnered with Wai Municipal Council and Sinnar Municipal Council to implement innovative financing mechanisms for citywide faecal sludge and septage management services with the support of government of Maharashtra.



Toilet condition: Before

Raised 4.28 lakhs from 70 donors in just two months

Formed a committee for efficient use of funds

Support Toilets for children in Zapwadi School

Result: Sinnar Council decided to take up the responsibility for O&M of the toilet facilities of all

the public schools using child and women welfare funds.

After



- State resolution-local bodies should use 50% 14th Finance Commission grants for sanitation-Sinnar has built FSTP using it
- Swachhata Kosh-part of Swachch Bharat Mission-Sinnar has formed a committee



Emerging experience of innovative financing in Wai and Sinnar can be scaled up to other 4000 small and medium cities (~40% of India's population), of India and emerging economies like India.

Center for water and sanitation-CEPT University. (2019). Performance based Contracts for Private Sector ir

Center for water and sanitation-CEPT University. (2019). Perspective of a Desludging Enterprise on Performance

FSSM services in Maharashtra, India: Presentation at FSM5 Retrieved from

Based Contract in Maharashtra. India: Presentation at FSM5 Retrieved from

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