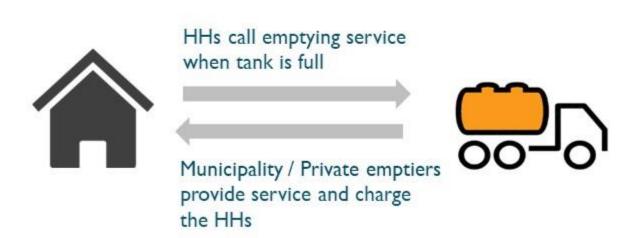
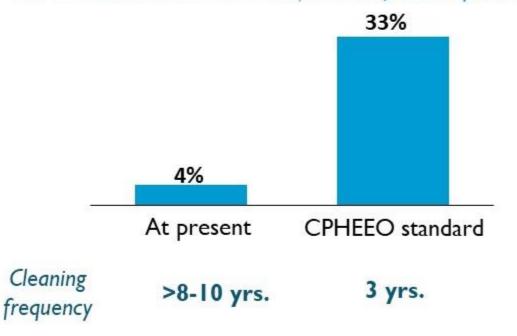


Current practice of desludging in Indian cities is of complaint redressal and NOT a public service the way sewerage and Solid Waste Management are!

Common practice is of on-call demand based services as complaint redressal in India



Number of septic tanks cleaned annually by a small/medium ULB in India (As a % of total septic tanks)





Environmental and social impacts



Low desludging frequency

- = poor efficiency of septic tank
- = poor quality of supernatant / effluent
- = Hardened sludge requires manual labour



With no designated sites for safe disposal, truck operators often have to resort to dumping on open ground or in water bodies



What is Scheduled Desludging?

Under a scheduled desludging service...

all septic tanks in the city are visited once during a fixed cycle

and mandatory desludging is done...

according to a predetermined schedule...

by one or more licenced service providers...

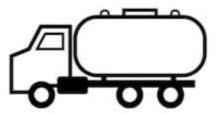
Who are paid through annuity payment backed by ULB revenues

and deliver sludge safely to a designated disposal site for treatment

and reuse













Benefits of Scheduled Emptying



Equitable and inclusive services - all households / properties are covered by services. The payment is linked to property tax.



No manual labour - Removal of need for manual labour due to regular emptying



Pricing – Services are offered at lower prices, due to efficiency gains and the pricing is much less than the distress fee that households had to pay previously



Infrastructure optimization –
Planned schedule and frequency for all.
Clustered service visits. More
predictable loads for treatment facility
and route optimization of trucks



Behavior change - Contribution to ODF sustainability as toilet usage can increase



Environmental benefits - Likely reduction in BOD in septic tank effluent, as well as lower likelihood of septic tank overflows

Wai and Sinnar council decided to involve private sector for Scheduled desludging

Preliminary discussions with potential private providers to assess interest, concerns

Ownership of assets

The private party brings their own trucks for emptying and operate them for 3 years.

Performance linked payments

Payments based on achieving agreed targets of septic tanks emptied

Clauses to ensure safety standards - use of PPE and vigilance against manual scavenging

Fines on non-achievement of targets

Escrow mechanism – reducing late payment risk

An Escrow account is held by a third party bank.

ULB needs to maintain a fixed balance in it = 3 months of payment

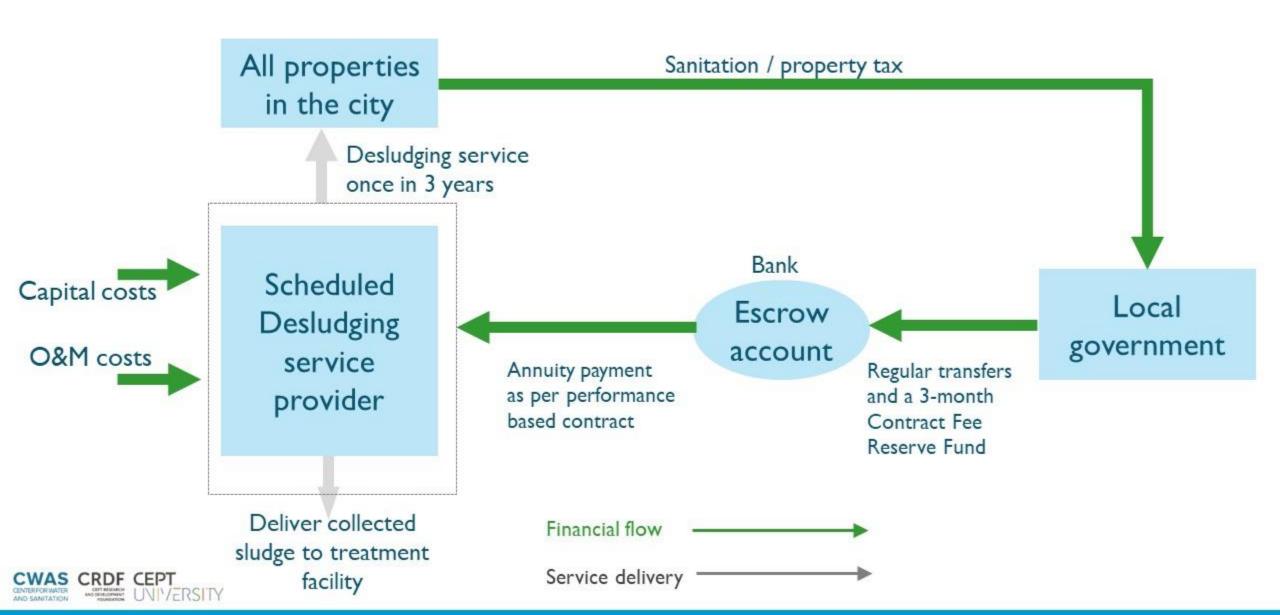
Transparent bidding process through government approved process and websites

Awareness activities to be done by private contractor

Emergency emptying also included in contract



Performance Linked Annuity Model (PLAM) for scheduled desludging



Planning for Scheduled desludging in WAI and SINNAR

I. Zones of Emptying cycle

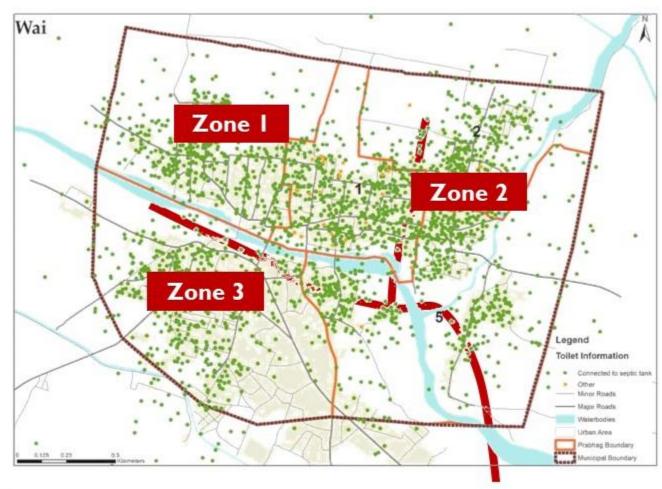
 The city was divided into 3 zones as per the citywide database on toilets and septic tanks.

2. Emptying Truck: Number and capacity

 Determine number and capacity of vehicles required for desludging operations.

3. Route planning

 Deciding the truck movement within the zone





Awareness generation and communication



Paintings / banners in the city by SMC and WMC





Household visits by desludger with info. leaflets



WMC circulated small videos



Intimation through SMS







Wai Nagarpalika

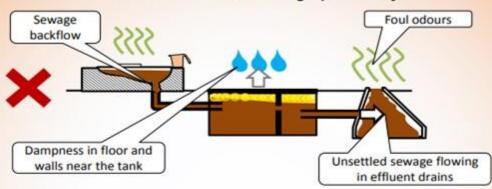
has devised a unique



"Scheduled Emptying of Septic Tanks scheme"

A first of its kind in the country, under which septic tanks of each and every property of the municipal council will be emptied at least once in every 3 years

You clean your septic tanks only when it overflows...But are you aware of the side effects of not cleaning it periodically?



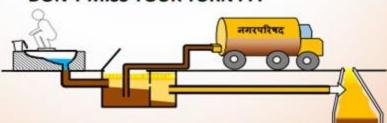
Septic tank should be emptied every 3 years Avail Nagarpalika services to empty!

And the good news is...

Nagarpalika will get in touch with your regarding your turn for emptying as per schedule and you do not have to pay for this.



DON'T MISS YOUR TURN . . .



Remember!



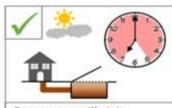


Service is available to each household once every 3 years





Contractor will call 2 days before scheduled visit



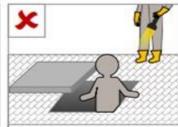
Contractor will visit between 7 am and 5 pm. Be present at home and ready! Keep Septic tank cover open for visit



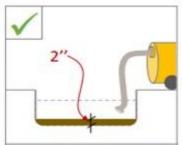
When constructing new septic tank, do not seal cover and give proper access



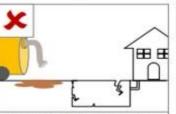
Cleaner should be wearing proper safety gear



No one should enter tank! Manual scavenging is prohibited by law



Leave 2 inches of sludge when emptying



There should not be any spillage or damage to septic tank



After emptying sign the receipt given by contractor



No payment is to be done to the contractor



Do not put acid/harsh chemicals, or solid waste in you septic tanks



There should not be any spillage in the city or disposal in drains



Septage should only be disposed at designated treatment plant



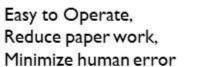
IT enabled monitoring and database creation

"Real time" monitoring No need to process data for results















Can view progress easily and process payments





Photo stamping, Geo stamping, Signatures



Unique database

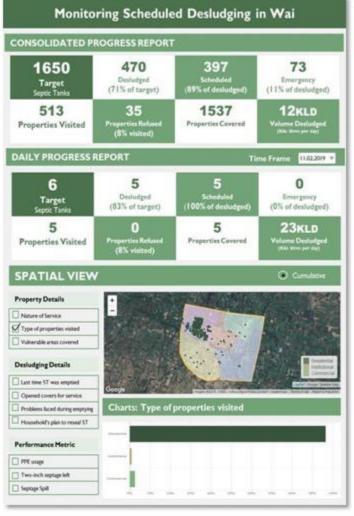












What has been achieved by scheduled desludging in Wai

Results after I year of scheduled emptying

645 service visits

1921
properties in the city covered

89% properties serviced

11% properties refused

Unique database of 572 septic tanks in the city

464 scheduled desludgings

108 emergency desludgings

28 Community toilets serviced weekly

85%
prepared
with access covers open

~5.5 Million litres of septage delivered safely to treatment facility

Scaling up in Maharashtra

- Model Tenders for Scheduled emptying and DBO tender for FSTP is ready and other cities in Maharashtra are using it.
- Model city Sinnar and Wai have begun on scheduled emptying
- Based on Sinnar and Wai experience, training of 130 ULBs selected from Maharashtra for developing FSSM plans – 90% report plans to take up same model to become ODF++
- Learnings from Sinnar and Wai have been translated into policies and guidelines at State and National level
- Resource materials available for cities
 - Model tender documents
 - Case studies of Wai and Sinnar
 - Awareness materials
 - · Monitoring tools developed

