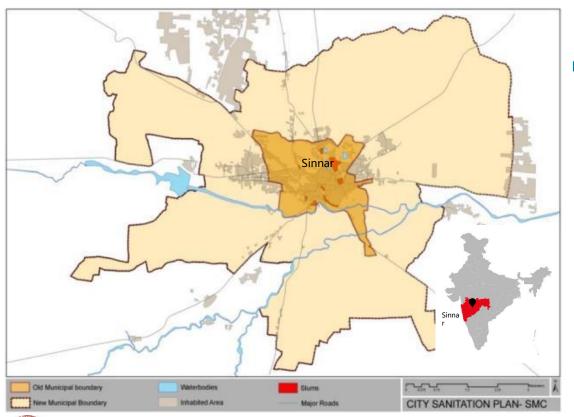




Sinnar – a city with inclusive sanitation for all





82,000 Population



20,775
Households



Area (sq. Km)



14

Election Wards



5,280 Slum Population



1058 Slum Households (2021)

Sinnar is a city in Nashik District Indian state of Maharashtra, governed by a Municipal Council.



Sinnar – a city with inclusive sanitation for all



- A medium sized city in Maharashtra, India with a population of 82,000
- Representative of 4000+ small and medium cities of India`

Improved FSSM in Sinnar



90% access to own toilets with safe onsite containment



Scheduled emptying of septic tanks supported by Sanitation tax



Solar powered **Fecal Sludge Treatment Plant** and **Grey Water Treatment Plant**



100% Reuse of the treated used water and the sludge at **garden and urban forest**







Access Collection Conveyance Treatment Disposal / Reuse Pour flush toilets Septic tanks Suction emptier truck facility Disposed off on dumping site

- 13% open defecation in Sinnar
- High dependency on community toilets
- Community toilets nonfunctional

- Majority of toilets are connected to septic tank
- Septic tanks 2-3 chambered
- Septic tanks had proper access covers

- Only 4 % of septic tanks
 cleaned annually
- ULB provided the emptying services on demand basis
- Levy user charges from
 400 800 / trip for

- No facility dumping site

 Septage disposed off
 - on dumping site







sludge treatment



Access Collection Conveyance Treatment Disposal / Reuse Pour flush toilets Septic tanks Suction emptier truck facility Disposed/reused post treatment

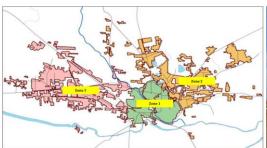
- City has attained ODF++ status and sustained the same
- Improved access to Individual toilet and toilet credit has been explored
- All Community toilet seats have been made functional,
 O&M assigned to private sector
- · Toilet and septic tank database has been generated
- · OD spot is being developed into a public space

- Scheduled emptying of septic tanks at an interval of 3 years through private sector
- Sanitation tax levied for financing O&M of emptying services
- Payment to contractor through local taxes using escrow mechanisms

- Septage **treatment plant** has been **set** up in Sinnar
- Sinnar FSTP 14h FC funds
- Reuse of treated water in agriculture/urban forestry.











Improved citywide Fecal Slude and Septage Management in Sinnar

Till the date, **4723 septic tanks have been desludged** covering 8583 properties and **3.4 Cr liters + of septage has been treated** at the FSTP (including CT/PT)

- Since the implementation of scheduled desludging...
 - ✓ 5-7 septic tanks desludged per day as compared to 7-8 per month in
 2017 when demand desludging was happening
 - √ 80%+ acceptance rate from HHs for scheduled service
- Sanitation workers now wear safety gear regularly
- Households pay sanitation tax instead of high user charges for desludging
- All the fecal sludge collected from the households and the community and public toilets is transported and treated at the FSTP.
- The FSTP is being operated and maintained by engaging private operator.







All the treated used water and septage is efficiently reused by engaging SHGs

- 8000 square meters of urban forest and landscaped area in midst of barren land.
- More than 1400 trees of 16+ species are planted
- All treated water is used for watering the plants through a drip irrigation system
- The treated sludge is used as fertilizers at the urban forest or taken away by farmers.
- The quality of the treated products are regularly monitored through testing the samples.
- Meaningful livelihood generation for SHG's by formally
 engaging them to maintain the garden and urban forest







Environmental and Socio-economical impacts of the project

Reuse of treated water contributing to carbon mitigation





- ~ 46 Million+ Litres of fresh water has been saved due to reuse of treated used water
- 10,000 sqm of land developed in the form of urban forest and garden by reusing treated water
- CO2 equivalent to 2268 metric ton sequestered over 25
 years through the urban forest and garden at the FSTP
- CO2 equivalent to 231 metric ton to be mitigated over 25
 years through solar units at the FSTP and GWTP

Empowering women through provision of livelihood and safe sanitation







- Formal engagement of women SHGs at the FSTP and SGWTP leading to financial empowerment
- Training and handholding support has helped to build their confidence and performance
- Improved access, safe conveyance, treatment and reuse of fecal sludge has helped in reducing pollution, thereby improving health and overall, well being



IT enabled monitoring systems for FSSM, especially to monitor safe and inclusive service delivery . . .

Real time" monitoring



Easy to Operate



Monitors performance









SaniTab





SaniTrack







SanQ



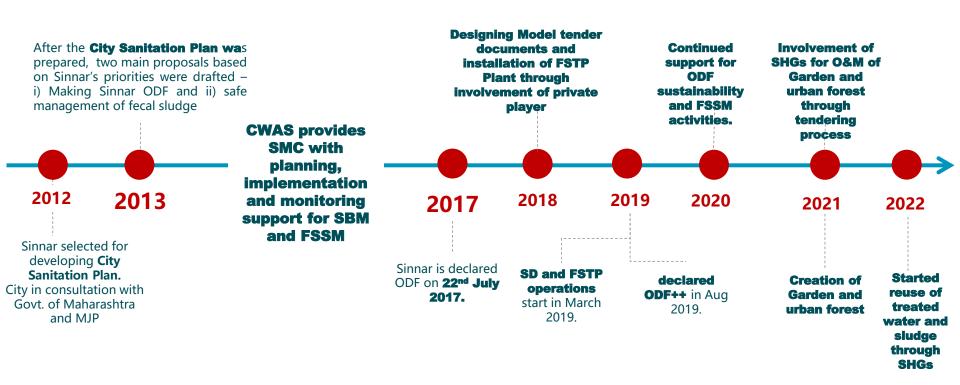




Through these systems, we are able to map whether the vulnerable areas have been serviced and whether the FS is safely discharged and treated at FSTP . . .



Sinnar Municipal Council (SMC) - CWAS, CEPT Partnership

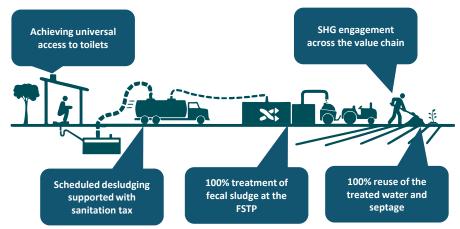


CWAS has an MoU with SMC to support Sinnar for sanitation improvement activities

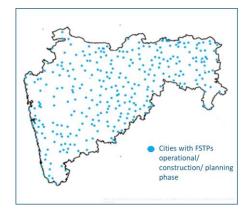


Learnings from Sinnar are being scaled up in Maharashtra and other states of India

- Experiences and lessons from Sinnar have been translated into policies and guidelines at State and National level
- National level initiatives such as 'Swachha Bharat Mission 2.0'
 mandates provision of scheduled desludging service as a part of
 ODF++ protocol
- 1000+ FSTPs in planning or implementation phase in India, 300+ FSTPs alone coming up in Maharashtra.
- Resource recovery and use of clean energy if adopted in these cities would contribute towards achieving SDG 6.
- **SBM-NULM convergence** initiative launched at the national level is also being implemented in Maharashtra.









Awards and achievements

Documentations: all the initiatives from sinnar have been extensively documented in the form of <u>movies</u>, <u>reports</u>, <u>e-flip book</u>, papers etc and are widely disseminated at various **national and international platforms**. The learnings from Sinnar have also guided the policy development at the state and national level









FICCI WATER AWARDS
2021

Second Prize
in

Urban Wastewater Management
Category

Center for Water and Sanitation (CWAS)
at CRDF, CEPT University

Water Little Water Company
Water Little Water Company
Water Little Water Company
Water Compan

WATER

2nd prize in 9th FICCI water awards

9th Edition of

FICCI

Sinnar was a part of CWAS's entry for the which received 2nd prize in the urban wastewater management category



AVPN constellations awards

Sinnar was a part of CWAS's entry for the which won the prize in the 'climate action category'.



(An initiative of CSRBOX with support from Dalmia Bharat Foundation) under the WASH small project category.



Partnerships and collaborations

































