

Faecal Sludge Management Devanahalli, Bangalore

First-of-its-kind town-scale Faecal
Sludge Treatment Plant in India



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Background

In coordination with Devanahalli's Town Municipal Cooperation (TMC), CDD Society built a faecal sludge treatment plant (FSTP). The plant is successfully handling 100% of the sludge collected in Devanahalli today.

The success of the FSTP motivated the TMC to pass resolutions in order to ensure the plant faces no operational or financial hurdles. The FSTP forms the heart of an end-to-end FSM solution for Devanahalli.

About Devanahalli

12 kms
from
Bangalore
Airport

Location

30,000

Population

6,400

Households

94%

Access
to toilets

0%

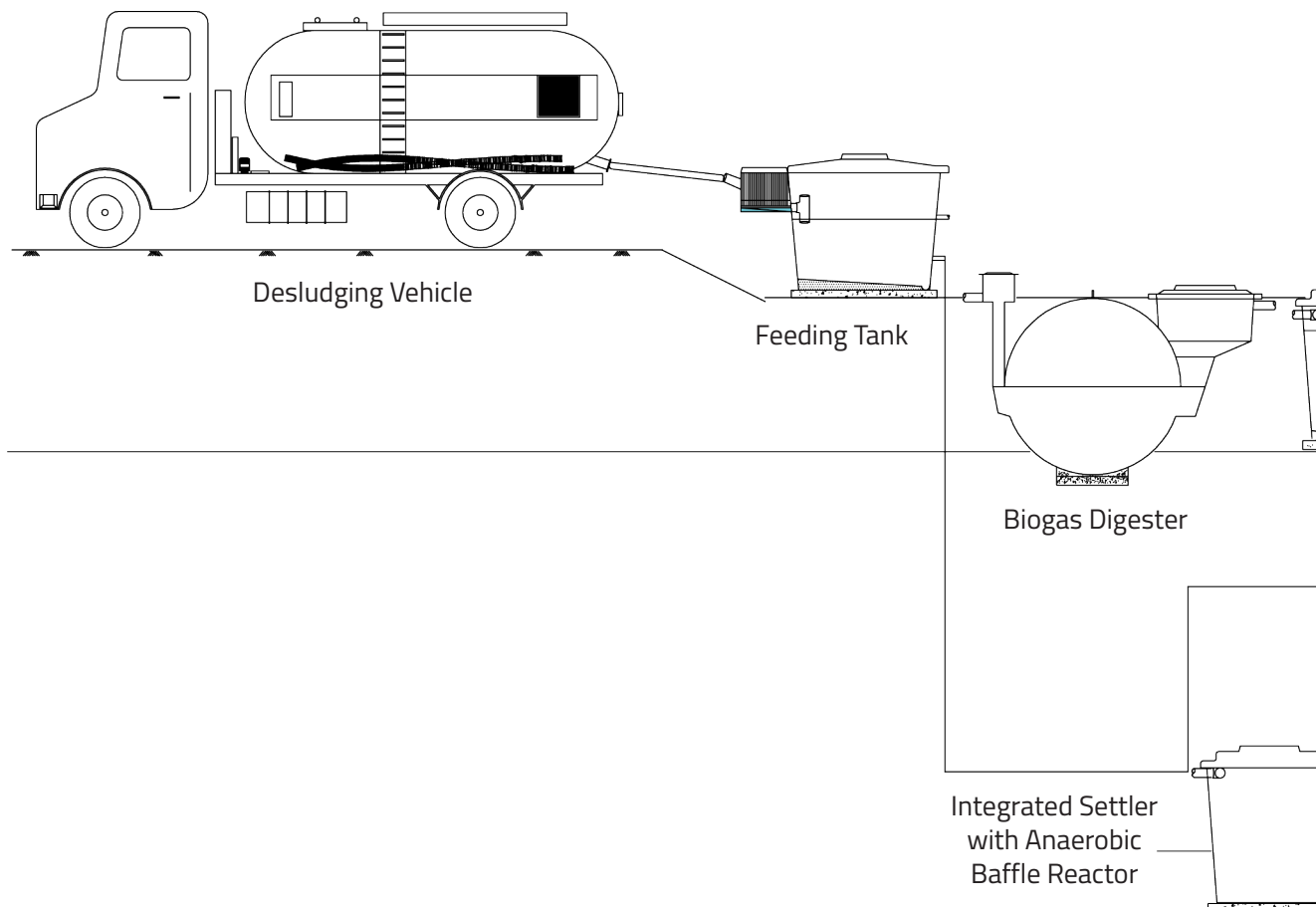
UGD
coverage

90%

Septic tanks/
pits coverage

Features-Benefits of the FSTP

Features	Benefits
No direct contact with faecal sludge	Allows for safe operations
Co-composting with Municipal solid waste	Allows for safe reuse
No odour; aesthetically-pleasing facility	Plant can be set up close to the city; reducing distance trucks need to travel
Gravity-based system; low electromechanical equipment	Keeps cost low making FSM affordable for the ULB
Biological treatment; no chemicals used	
Low operation and maintenance; no skilled labour required	



The FSTP at Devanahalli is spread over 615sqm and can treat upto 6,000 litres of faecal sludge a day.

FSM Business Plan

Costs to be incurred:

1. FSTP operations
2. Cesspool vehicle operations
3. Co-composting plant operations
4. Overheads

Possible sources of revenue:

1. Increase in property tax
2. Advertisement hoardings
3. Revenue from truck operations
4. Sale of compost (from treated sludge)

These sources of revenue do cover costs.

Devanahalli's Municipal Corporation has passed 4 resolutions

Regulating faecal sludge disposal

Outsourcing of O&M of plant and truck

Monitoring construction of pits & septic tanks

Property tax inclusion

Achievements

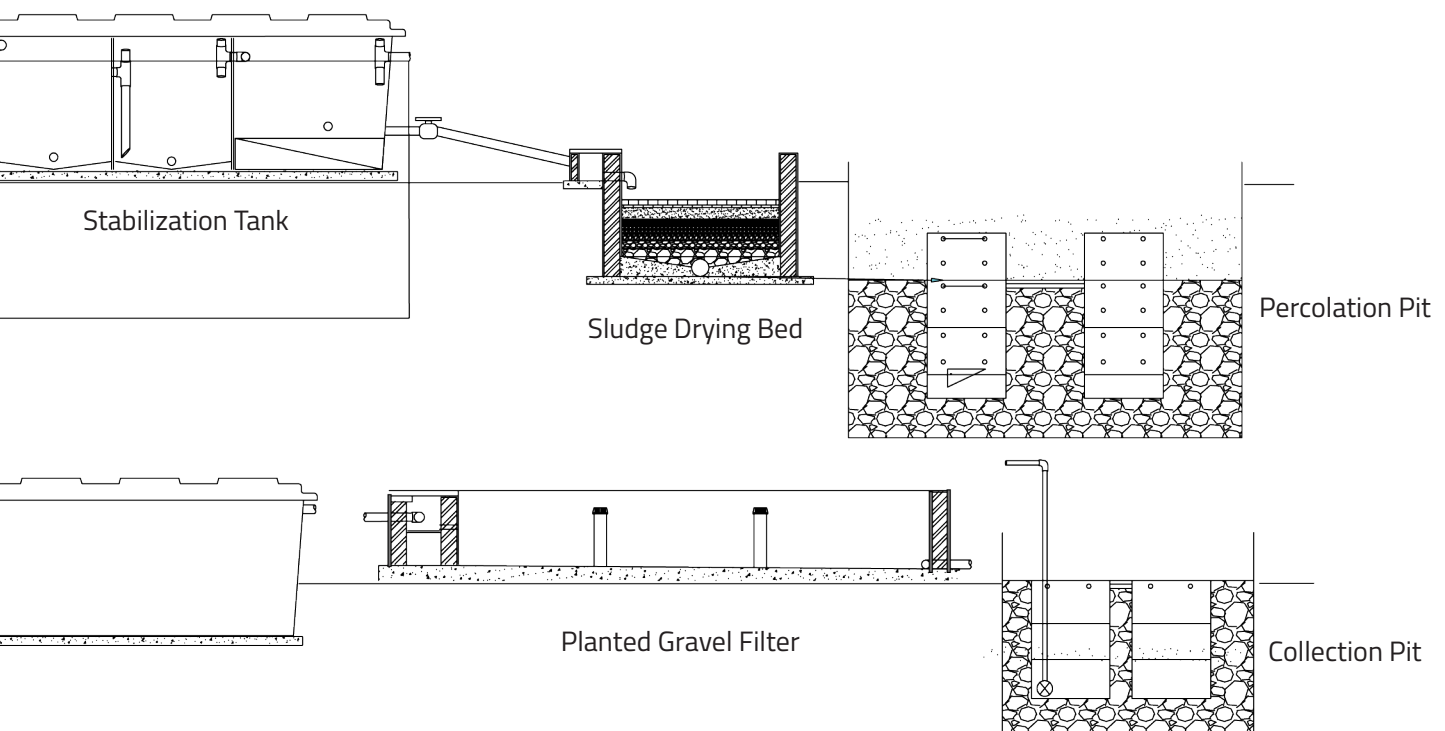
One-of-its-kind town-scale FSTP

First town in India to implement end-to-end FSM

Utilisation of cesspool vehicles increased 4x

IEC campaigns on FSM and sanitation on-going

A fully-replicable model for towns of this size





CDD Society: Survey No.205 ,Opp. Beedi Workers Colony, Kommaghatta Road, Bandemath, Kengeri Satellite Town, Bengaluru, Karnataka 560 060

P: +91 80 2848 6700/ 2194/ 2274/ 2262 | F: +91 80 2848 2144 | E: bangalore@cddindia.org

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