



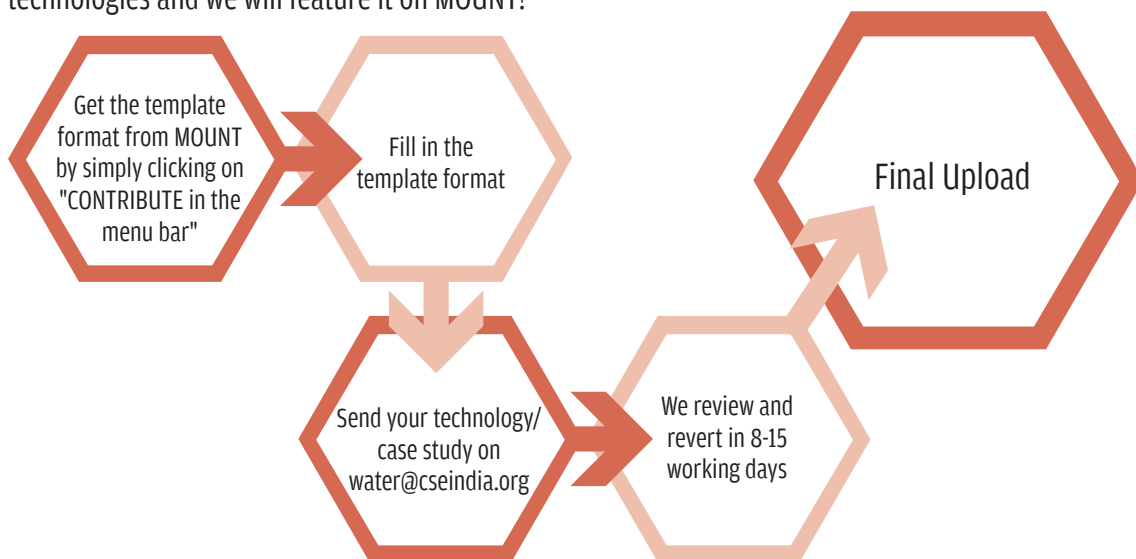
# Menu on Un-Networked Technologies

For sewage and septage management

## How to use MOUNT

The website updates every 3 months, and you can contribute too!

Share innovative technology which you think fit the categories, or a case study for existing technologies and we will feature it on MOUNT!



To visit mount click on below link:

<https://www.cseindia.org/mount/home>

or scan the QR code



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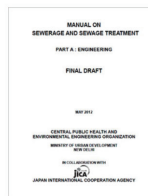
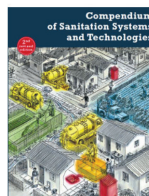
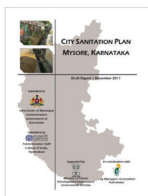
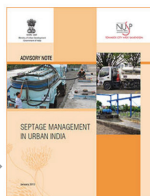
### SUPPORTING RESOURCES ON MOUNT

#### RESOURCES ▼

Glossary

FAQ

Recommended readings



+ What is the difference between technology and a sub-technology?

+ What do you mean by- search by location?

- What is the procedure if someone wants to get his/her technology or case-study uploaded on the menu?

We encourage everyone who works on sanitation or individuals who have implemented sustainable technologies. If it is a case study please send it in the format ([link for template for case study](#)), if it is a technology, please send it in the format ([template for technology](#)). If it clears CSE's review process then it would get uploaded on the web.

+ Do I need to pay for getting a technology uploaded?

+ In-situ treatment

- Onsite system

A facility (it may include user interface as well) that, in absence of sewerage network, collects and fully/partially treats the black water to allow for safe reuse or disposal of generated effluent.

+ Septage

+ Septic tank

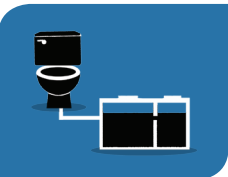
There are three ways of searching technologies on MOUNT:

1. SEARCH BY TECHNOLOGY

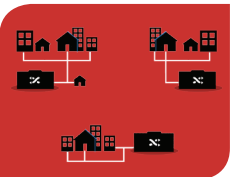
The technologies have been divided as per the installation of components, so if the technology is installed at the site of defecation it is categorized under the onsite treatment and defined accordingly. Similarly if the treatment technology treats wastewater treated close to site, it is categorized under the Decentralised treatment

STEP 1

Onsite treatment



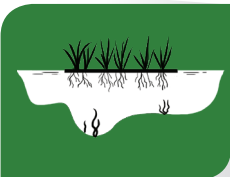
Decentralised treatment



Faecal sludge treatment



In-situ treatment



Search by

Sub Type of Technology

Area of each unit (Sq. ft.)

Cost (INR) per unit

Capacity (In Litres)

- 0-15000
- 15000-30000
- 30000-45000

Septic tank



Septic tank

Source: Source: Report on Technology and Storage Systems...  
Perk, Engineering (2015-2016)

Overview

SBT provides a scale of evidence for evaluation of septic tanks (ST) and STs. It includes design criteria, construction details, and a list of case studies. The system is designed to be installed in rural areas where sewerage is not available. The system is designed to be installed in rural areas where sewerage is not available. The system is designed to be installed in rural areas where sewerage is not available.

Selected features

- The system is the most widely used method of sanitation in India.
- The installation of the system has to be done by experts.
- It is fully compatible with the equipment of local sanitation systems.

Click on search by, here you will see a sub menu with parameters. These parameters can be used for further filtering down to the technology which fits the users criteria

For Example: A user wants to find an onsite technology under the cost bracket of Rupees 15,000-30,000, the user should:

- Click on the search button under Onsite Treatment box, a sub-menu with different parameters will pop on the screen
- Select capital cost (INR per unit)
- Select capital cost: 15,000-30,000
- The user is finally displayed with the technology as per requirement: Septic tank

2. SEARCH BY LOCATION

Under this option of searching a case study, a map is provided

The map is for users who are searching for implemented case studies

STEP 1

Select on the the type of technology, all the available case studies under that categorization pop up in the form of location markers on the map



STEP2

Select case study, the description of the same pops on the location marker



STEP3

Click on the description of the technology, from here the user is redirected to the landing page of the case study

FSTP at Leh, India

Scale of service: City (Population: 0.03 Million)

Area of the site: 0.15 acres

inlet

Faecal sludge

Outlet/end products

Treated water + manure

See also

- May 01, 2018  
DUSIB night shelter at Yamuna bazaar old bridge (Lohapul)
- May 01, 2018  
DUSIB night shelter at KudesiaGhat
- May 01, 2018  
DUSIB night shelter at Geetachhat
- February 06, 2018  
Soil Biotechnology based Decentralised Wastewater Treatment for local reuse at Lodi Gardens
- January 03, 2019  
Waste to Energy Plant, Nashik, Maharashtra
- January 03, 2019  
Phytolite based DWTs at Rainbow Drive Society, Bangalore
- January 03, 2019  
Green Bio-compost and Animal Farming for Faecal Sludge treatment

3. SEARCH BY SUB TECHNOLOGY

STEP 1

Under this option, a set of flipping pictures is provided

The front side is the photograph of the technology



STEP 2

Upon clicking the technology, a dialog box with the selected technology will pop up

DECENTRALISED TREATMENT

Capital cost/KLD: 10000-20000

Soil Bio Technology (SBT)

Soil Bio-technology is a sustainable system for wastewater treatment which is based on the principle of trickling filter. In the system, combination of physical processes like sedimentation, infiltration and microbial processes are carried out to remove the suspended solids, organic and inorganic contents of the wastewater.

Suitable mineral constitution, culture containing native micro flora and bio-indicator plants are the key components of the system. It is also known as Constructed Soil Filter (CSF). SBT systems are constructed from RCC, stone, masonry or soil bunds. It consists of raw water tank, bio-reactor containment, treated water tank, piping and pumps.

Salient features

- The process can be run on batch or continuous mode.
- No sludge production
- Mechanical aeration is not required.
- The overall time of operation is 6-7 hours per day. The soil biotechnology system bed is dried prior to next cycle of use.

CASE STUDY

- SBT plant at Lovegrove pumping station, Mumbai Municipal Corporation
- Soil Biotechnology Treatment at Naval Dockyard Housing Society, Mumbai
- SBT plant at Vastu Sultan Tobacco (VST), Hyderabad

STEP 3

On the dialog box the user can see the description of the technology and case studies under the selected technology

SBT plant at Lovegrove pumping station, Mumbai Municipal Corporation

Source: Sagar parvati Vaidya, Mumbai

Location: West, Mumbai, Maharashtra

Scale: Municipal

Implementing organisation: Mumbai Municipal Corporation, IT Mumbai

Designed Capacity: 1 MLD

Area: 2500 sqm

Operational since: 2006

Capital cost: Rs. 1.2 crore

OM: Rs. 40-45 Lacs per year

Case Studies

- January 13, 2018  
SBT plant at Lovegrove pumping station, Mumbai Municipal Corporation
- January 01, 2018  
Soil Biotechnology Treatment at Naval Dockyard Housing Society, Mumbai
- January 03, 2019  
SBT plant at Vastu Sultan Tobacco (VST), Hyderabad
- January 03, 2019  
Decentralised/Sustainable Wastewater Treatment Technologies

See also

- May 01, 2018  
DUSIB night shelter at Yamuna bazaar old bridge (Lohapul)