



Monitoring and Evaluation of Performance of FSM systems in various towns of India & Study on Optimization of nature based faecal sludge treatment system, India.

Access to toilets has improved by strides in India since Swachh Bharat Abhiyaan/Mission. With the rapid uptake of on-site sanitation systems and FSTP(s), the government has now shifted it's focus toward the sustenance of the entire FSM value chain. The study included desk review of performance of FSM systems across the sanitation value chain- from user interface to reuse in 10 towns in India and findings from site visit to two of the ten towns. The study concentrated on the aspects like implementation, political will, inclusivity, enforcement of rules, reuse etc. It was observed that the major challenge in the FSM value chain is at the containment units, as these are not built according to guidelines in most of the areas and pose a risk to groundwater/surface waterbodies. Another gap identified during the study was open dumping of FS is still practiced at few places and there is a need for strict implementation of rules against open dumping and reducing the distance between core areas and FSTP(s), for future FSTP(s). The study highlighted best approaches from few of the towns that can be adopted in order to make the value chain sustainable and safer in terms of public health.

Although nature-based treatment systems are cheaper and easy to operate with low OPEX, the land requirement is usually high, heat pumps have been installed in the sludge drying beds to try and reduce the drying time, there by the land requirement. The sunder trail and is expected to be published by the end of the year. The trail runs for reduction in drying time are still under study and will the experiment will be completed by the end of this year. The study was done under the guidance and supervision of Krishna K Swaroop. CDD Society, India.



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