



DISSEMINATION WORKSHOP ON

"ASSESSMENT OF TREATMENT BY FSTPs & STP CO-TREATMENT PLANT OF ODISHA FOR EVALUATION OF REUSE POTENTIAL FOR SUSTAINABLE SANITATION"



Date: August 8,
2025, Friday



Time: 10:00
AM to 5:30 PM



Venue: Odisha Urban Academy, Housing and Urban
Development Department, Bhubaneswar, Odisha

Organisers:

Jointly organized by Centre for Science and Environment, New Delhi & Odisha Urban Academy, Bhubaneswar

Odisha has been one of the pioneering states in improving its sanitation services through the faecal sludge and septage management (FSSM) since the advent of SBM in 2014. CSE has been involved in monitoring the faecal sludge treatment plants (FSTPs) in the state since 2019. Recently, a study was conducted by EML, CSE on the monitoring and evaluation of 15 FSTPs and 1 sewage treatment plant with co-treatment of faecal sludge (STP co-treatment plant) in Odisha, which also involved re-evaluation of plants to assess their sustenance. This study is first of its kind evaluation done for the state of Odisha. The study findings included:

- FSTPs and STP co-treatment plant are effective in reducing biochemical oxygen demand (BOD) and pathogens in the effluent, while they face challenges in reducing nitrogen, solids and chemical oxygen demand (COD). The compliance of effluent reduced when NGT standards are considered.
- The quality of biosolids from FSTPs and STP co-treatment plant is comparable to organic manure in terms of carbon, nitrogen, and nutrient (NPK) content, while having a moderate C:N ratio.
- Biosolids from majority of the treatment plants had moisture, faecal coliform and *E. coli* content within the FCO standard limit for organic manure; however, they contained a considerable amount of *Salmonella*, helminth eggs and heavy metals.
- Revaluation of 10 FSTPs and 1 STP co-treatment plant showed improvement as well as decline in the quality of effluent and biosolids and presented a link with operation and maintenance along with other factors for the decline.

CSE will be sharing the findings of its study and releasing the report at a workshop in Bhubaneswar jointly organised by CSE and OUA. The workshop will focus on elaborating the findings of the study to identify and discuss on the challenges associated with operation / treatment, providing recommendations for improvement and opportunities for the reuse of generated by-products, sharing good practices, and finally discussing on the outcome and the way forward.

Participation
only by
invitation

OBJECTIVES OF THE WORKSHOP

- 1 Dissemination of the report entitled "Monitoring and evaluation of FSTPs and STP co-treatment plant in Odisha"
- 2 Understand the technologies, treatment and sustenance of FSTPs and STP co-treatment plant in Odisha
- 3 Identify and resolve the potential issues associated with treatment of effluent and biosolids in the treatment plants
- 4 Providing guidance / recommendations to FSTP & STP co-treatment plant operators and respective ULB officials on improving the operations and management of FSTP / STP co-treatment plant.

FOR MORE DETAILS, CONTACT

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