

INTEGRATED LABORATORY TRAINING ON

FAECAL SLUDGE ANALYSIS:
EXPERIMENTS, STANDARDS
AND REUSE READINESS FOR
FSM PRACTITIONERS

Dates of training:
**22nd to 25th
September, 2026**

Last Date to Apply:
**6th September,
2026**

Language:
English

Venue: **Anil Agarwal
Environment Training Institute
(AAETI), Nimli, Rajasthan**



ABOUT THE TRAINING

The management of sanitation systems has been in vogue, particularly in low and middle-income countries like India. However, Faecal Sludge Management (FSM) is a rapidly evolving field globally, with ongoing advancements in research and methodologies. As a result, developing skills for testing the quality of faecal sludge and treated wastewater has become a key priority. This course highlights both basic and recent advancements in laboratory analysis of the physico-chemical and biological parameters of faecal sludge, treated water and dried faecal sludge (biosolids). It is part of a collaboration between the Centre for Science and Environment (CSE) and the Gates Foundation on FSM in India. Experts and lab scientists from CSE’s Environment Monitoring Laboratory (EML) will lead the sessions, providing hands-on training in lab analysis using cutting-edge equipment and techniques. With a focus on practical learning, experiments in the laboratory will be conducted; participants will, gain valuable skills while working with the top-tier equipment and protocols. The training will take place at CSE’s residential campus in Nimli, near Alwar, Rajasthan.

WHAT YOU WILL LEARN

- Fecal sludge management and fecal sludge treatment approaches and technologies
- Sample collection, storage and transportation
- Safety measures to be taken during handling of faecal sludge and biosolids
- Physio-chemical analysis of faecal sludge and biosolids
- Biological analysis of faecal sludge and biosolids
- Analytical skill on the quality parameters of faecal sludge and biosolids
- Laboratory skills on the sophisticated instruments
- Analytical equipment calibration and methodology validation.
- Good laboratory practices

METHODODOGY

Highly interactive hands-on training:

- Interactive input presentations
- Analysis of physico-chemical parameters
- Microbial (Faecal coliform, E.coli and Salmonella) analysis by CFU/MPN methods
- Helminth eggs enumeration in biosolids by AmBic/ZnSO4 method
- Analytical equipment calibration (pH meter, Micropipette, Glassware’s, Centrifuge, Balance, ICP-OES etc.) and methodology validation
- Heavy metal analysis of biosolids using ICP-OES
- Quality analysis of biosolids using CHNS analyzer (Carbon: Nitrogen ratio)
- NPK analysis of biosolids (CHN analyser and ICP-OES)
- Analysis of physico-chemical parameters such as pH.Total solids, BOD, COD,TKN, Ammoniacal nitrogen, and Total phosphates
- Individual and Group Assignments

WHO CAN APPLY

- Working professionals in the WASH /FSM/ Waste Management Sector
- Managers or technicians in the Govt. and Pvt. Water / wastewater / FS testing laboratory
- Faecal treatment plant operators

BENEFITS

- A certification on successful completion of training
- Hands on experience of Analytical instrumentation

COURSE FEE AND FACILITIES

Eligible candidates will be provided with scholarship for this training by CSE. This support will also cover the cost of stay, including all meals.

TRANSPORTATION

- Participants shall only be provided ground transport for Delhi to AAETI (training venue) and back to Delhi.
- Participants need to bear the cost of their travel to reach Delhi and back to their hometown.

LAB TRAINING COORDINATORS

ARVIND SINGH SENER
Principal Scientist, CSE
arvindsingh.senger@cseindia.org
Phone: +91 8879948011

RAJARSHI BANERJEE
Director, Laboratory, CSE
rajarshi.banerjee@cseindia.org, CSE
Phone: +91 9903048060

REGISTER HERE