HANDS-ON LABORATORY TRAINING FOR WORKING PROFESSIONALS IN FAECAL SLUDGE MANAGEMENT

DATES OF TRAINING: 24TH JUNE, 2024 TO 28TH JUNE, 2024

LANGUAGE: ENGLISH

Last date to apply: 5TH JUNE, 2024

Venue: ANIL AGARWAL ENVIRONMENT TRAINING INSTITUTE (AAETI), NIMLI, RAJASTHAN

ABOUT THE TRAINING

Management of sanitation system has been a long term challenge, explicitly for low and middle income countries like India. Nevertheless, Faecal Sludge Management (FSM) is an evolving field worldwide with continual development and improvement happening in research methodologies. Therefore, skill development for testing the quality of faecal sludge and treated wastewater becomes the primary objective. This course focuses on some of the basic and recent advances in laboratory analysis of physico-chemical and biological parameters of faecal sludge. This training is part of the Centre for Science and Environment and Bill & Melinda Gates Foundation collaboration on FSM in India. In-house experts and lab scientists from CSE’s Environment Monitoring Laboratory (EML) will guide participants through the sessions and help them learn lab analysis using state-of-the-art equipment and methods. The hands-on approach for the program means that participants get to perform the lab experiments on their own and can enhance their skills while working on some of the best equipment and protocols in their class. The training will be held in CSE’s residential campus in Nimli, near Alwar, Rajasthan.

WHAT YOU WILL LEARN

- Introduction to faecal sludge management and Fecal sludge treatment approaches and technologies
- Sample collection, storage and transportation
- Safety measures to be taken during handling of faecal sludge
- Physio-chemical analysis of faecal sludge
- Biological (Helminth eggs, faecal coliform, E.coli) analysis of faecal sludge
- Analytical equipment calibration and methodology validation.
- Good laboratory practices

WHO CAN APPLY

- A minimum of 1 year experience in the WASH /FSM/ Waste Management Sector
- University/College researchers/professors /scientists working in the area of wastewater or FSM
- Managers or technicians in the Govt. and Pvt. Water / wastewater / FS testing laboratory

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.

METHODOLOGY

Highly interactive hands-on training:

- Interactive input presentations
- Field visit to faecal sludge treatment plant for technology demonstration.
- Analysis of physico-chemical parameters such as pH, Total solids, BOD, COD, TKN, Ammoniacal nitrogen, and Total phosphate
- Analysis of microbial parameters such as faecal coliform and E. coli in faecal sludge
- A hands-on testing of Helminths egg enumeration in fecal sludge
- Analytical equipment calibration (pH meter, Micropipette, Glassware’s, Centrifuge, Balance, Spectrometer) and methodology validation.

BENEFITS

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

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.

FOR FURTHER DETAILS, PLEASE CONTACT

TRAINED COORDINATOR

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LAB TRAINING MANAGEMENT

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