ABOUT THE TRAINING
Faecal Sludge Management (FSM) is an evolving field with continual development and improvement happening in research methodologies. Research on resource recovery from faecal sludge (FS) is actively taking place worldwide. Resource recovery from faecal sludge can take many forms, including fuel, soil amendment, compost, building material, protein, animal fodder, and water for irrigation. This course focuses on some of the recent advances in laboratory analysis of physico-chemical and biological parameters of biosolids derived from 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 to 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 Neemli, near Alwar, Rajasthan.

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

BENEFITS
• A certification on successful completion of training
• Hands-on experience in analytical instrumentation

COURSE FEE AND FACILITIES
Eligible candidates will be provided with a 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 from 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.

WHAT YOU WILL LEARN
• Introduction to faecal sludge management and faecal sludge treatment approaches and technologies
• Sample collection, storage, and transportation
• Resource recovery from faecal sludge
• Safety measures to be taken during handling of FS based biosolids
• Analytical skills on the quality parameters of biosolids
• Laboratory skills in the sophisticated instruments
• Analytical equipment calibration and methodology validation.
• Good laboratory practices

METHODOLOGY
Highly interactive hands-on training:
• Interactive input presentations
• Analysis of physico-chemical parameters
• Microbial (faecal coliform, E. coli and Salmonella) analysis of biosolids by CFU/MPN method
• Helminth eggs enumeration in biosolids by AmBic/ZnSO4 method
• Quality analysis of biosolids using CHNS analyser (Carbon: nitrogen ratio)
• Heavy metal analysis of biosolids using ICP-OES
• NPK analysis of biosolids (CHN analyser and ICP-OES)
• Calorific value estimation of biosolids by bomb calorimeter
• Hands-on experiments and analytical equipment; ICP-OES, CHNS, Bomb calorimeter, Spectrometer, pH meter, etc.
• Analytical equipment calibration (pH meter, Micropipette, Glassware, Centrifuge, Balance, ICP-OES, Spectrometer) and methodology validation
• Individual and group assignments

Apply at: https://bit.ly/488Ykv9 OR CLICK HERE

DATES: 15 - 19 January, 2024 | LAST DATE TO APPLY: 8 January, 2024 | LANGUAGE: English
VENUE: Anil Agarwal Environment Training Institute (AAETI), Neemli, Rajasthan