LABORATORY TRAINING ON

ADVANCE TECHNIQUES TO ASSESS THE QUALITY OF BIOSOLIDS FOR THE WORKING PROFESSIONALS IN FAECAL SLUDGE MANAGEMENT

Dates of training: 5TH TO 9TH AUGUST, 2024
Last Date to Apply: 18TH JULY, 2024 | Language: ENGLISH
Venue: ANIL AGARWAL ENVIRONMENT TRAINING INSTITUTE (AAETI), NIMLI, RAJASTHAN

ABOUT THE TRAINING

Faecal Sludge Management (FSM) is an evolving field with continual development and improvement happening in research methodologies. The research on resource recovery from faecal sludge is actively taking place worldwide. Resource recovery from faecal sludge can take many forms, including as a 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 co-compost, bio-char and dry 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
- Resource recovery from faecal sludge
- Safety measures to be taken during handling of FS based Biosolids
- Analytical skill on the quality parameters of Biosolids
- Laboratory skills on the sophisticated instruments
- Analytical equipment calibration and methodology validation and Good laboratory practices

BENEFITS

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

WHO CAN APPLY

- Working professionals 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

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.

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.

REGISTRATION DETAILS

Lab training coordinator
Mr. Arvind Singh Senger
Principal Scientist,
Email: arvindsingh.senger@cseindia.org
Phone: +91 8879948011

Lab training management
Dr. Kalyana Chakravarthy Sama
Sr. Scientist,
Email: Sama.kalyana@cseindia.org
Phone: +91 9676672769

WHAT YOU WILL LEARN

- 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 dry faecal sludge by bomb calorimeter
- Hands on experiments and analytical equipment's; ICP-OES, CHNS, Bomb calorimeter, pH meter.
- Analytical equipment calibration (pH meter, Micropipette, Glassware’s, Centrifuge, Balance, ICP-OES etc.) and methodology validation.
- Individual and Group Assignments

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- Working professionals in the WASH / FSMW Waste Management Sector
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