

Training Outline

Design Training on Faecal Sludge Treatment Plant

LENGTH: 5 days (4 hours per day)

TRAINING DESCRIPTION

The pace of urbanization and population growth in Nepal has been rapid. With this rapid population growth and haphazard urbanization, increment in solid waste, faecal sludge and wastewater has posed huge impact. The unsafe disposal of these waste has polluted water bodies and environment posing the threat of many water-borne diseases to public health. In this context, Faecal Sludge Management (FSM) is a crucial intervention required for safe excreta management and sustainable sanitation. To this, lack of adequate information and knowledge on proper management of faecal sludge and waste water is one of the huge gap in the sector.

In same regards, ENPHO with ample knowledge and experience on FSM design and consultation has been providing technical support and organizing various capacity building training on FSM. As a continuation of the process of capacity building, ENPHO is organizing the Design Training on Faecal Sludge Treatment Plant. The training focuses on designing the technologies for FSM. It has included the basic understanding on global and local sanitation status, FSM value chain, characterization and quantification of FS, designing standard septic tank, bar screen chamber, biogas digester, sludge drying bed, anaerobic baffle reactor as well as co-composting technology.

To this all, as ENPHO has been actively engaged in research-based policy advocacy to address FSM issues and has significantly supported national and local government agencies in the formulation of FSM policies, plans, by-laws and guidelines, first hand experiences of rolling the FSM and FSTP will be shared in the training.

OBJECTIVES

Upon completion of the training, participants will be able to:

- Understand the global and local scenario on sanitation
- Explain sanitation value chain along with faecal sludge management
- Design the standard septic tank
- Design the technologies for Faecal Sludge Treatment Plant such as Bar Screen Chamber, Biogas Digester, Sludge Drying Bed, Anaerobic Baffle Reactor
- Design the composting technologies for reuse of FS

PARTICIPANTS

The training is focused for engineering practitioners from the Government, Private Sector, NGOs/ INGOs involved in designing and implementation of FSM. Background in engineering with the basic understanding on Faecal Sludge Management will be a huge benefit for the design training.

METHODS OF INSTRUCTION

This is online-based training and it is targeted to deliver with zoom applications. The training includes the activities like polling, small group discussion, questions and answers and virtual demonstration, video shows that make the virtual training interactive and participatory rather than one-way delivery. To this, experience sharing from the experts on issues and challenges faced during the implementation and ways to overcome will be an additional gain.

CONTENT

The following is a list of topics to be covered in the training.

- Urbanization and Urban Sanitation: Global and Local context
- Sanitation Value Chain, Faecal Sludge Management and Shit Flow Diagram
- FS Quantification and Characterization
- FS Treatment Technologies
- Design of Dewatering Technologies
- Design of Liquid Treatment Technologies
- Design of Tertiary Treatment Technologies

Training Fee: Rs.15000 + 13% VAT (per Individual)

For Further Detail

Training Centre

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