

Training of Trainers on Faecal Sludge and Wastewater

| Part 1 (Nov.2016) | Part 2 (March 2017) | Part 3 (May 2017) |
|--|--|---|
| <p>Approach : 40% - Interactive sessions 20 % - Practical Demonstrations 40% - Site Visit</p> | <p>Approach : 10% - Interactive Sessions 50% - Practical demonstrations 30% - Practical exercises 10% - Site Visit</p> | <p>Approach: 20% - Theory 50% - Practical Demonstration 20% - Practical exercise 10% - Site Visit</p> |
| <p>Thematic objective: Sensitization and need assessment for setting up of a wastewater/ faecal sludge laboratory and sampling</p> <p>Learning outcome: Participants are able to identify various decentralised/ faecal sludge treatment facilities and understand the needs to organize their laboratory to enhance safety and productivity for a wastewater/ faecal sludge monitoring laboratory</p> | <p>Thematic objective: Gaining knowledge and skills for testing wastewater/ faecal sludge</p> <p>Learning outcome: Participants demonstrate competency in characterization of inlet/ outlet wastewater and faecal sludge parameters and prepare standard operating procedures.</p> | <p>Thematic objective: Improvising and preparing of SOPs for monitoring various decentralized wastewater/ faecal sludge treatment facilities</p> <p>Learning outcome: Participants gain knowledge and skills for monitoring decentralised wastewater/ faecal sludge treatment facilities.</p> |
| KEY SESSIONS – DAY 1 | | |
| <ul style="list-style-type: none"> • Need for setting up a wastewater/ faecal sludge laboratory – existing scenario, policy and practice, compliance and CPCB standards etc. • Introduction to Decentralised Wastewater and faecal sludge treatment systems • Basic Concepts – Wastewater and faecal sludge characterization and importance | <ul style="list-style-type: none"> • Demonstration - Field Visit for Sample Collection and on-site analysis of samples for Temperature, pH, Conductivity and TDS • Demonstration - Total Coliform and Faecal Coliform | <ul style="list-style-type: none"> • Planning for monitoring – Understanding the need and deciding which parameters are to be tested • Demonstration - Advanced biological parameters – Ascaris eggs |

| TRAINING 1 | TRAINING 2 | TRAINING 3 |
|---|---|---|
| KEY SESSIONS – DAY 2 | | |
| <ul style="list-style-type: none"> • Sampling process and associated documentation • Personal protective equipments for sampling and safety precautions • Demonstration: Sample Collection, Preservation, Storage and Transportation and on-site analysis of samples for Temperature, pH, Conductivity and TDS | <ul style="list-style-type: none"> • Demonstration - Analysis as per standard protocols – Total Ammonia, Total Phosphorus, Total Kjeldahl Nitrogen and COD | <ul style="list-style-type: none"> • Lab safety practices – Chemical safety and biological safety • Documentation • Demonstration - Analysis as per standard protocols – Heavy Metals |
| KEY SESSIONS – DAY 3 | | |
| <ul style="list-style-type: none"> • Site visits – showcasing various decentralised wastewater/ faecal sludge treatment facilities highlighting physical appearance of samples, probable sampling points | <ul style="list-style-type: none"> • Demonstration - Analysis as per standard protocols – BOD • Practical exercise – In groups of 4-5 (depending upon the number of participants), for physical or chemical parameters. | <ul style="list-style-type: none"> • Understanding the decentralised wastewater/ on-site system/ faecal sludge treatment facility to be monitored and accordingly streamlining the Standard Operating Procedures for sampling, storage, transportation and testing. • Practical exercise - Identification of Ascaris eggs |