

Evaluation and Monitoring of Faecal Sludge Treatment Plant (eFSTP)

Status: Completed

Project Partner: BMGF, EAWAG, 500B Solutions

Project Area: 10 FSTPs in Nepal, India and Bangladesh

Project Duration: October 2018 to June 2019

Aim:

- To analyse the design assumptions of the FSTPs in regards to the actual quantities and qualities (Q&Q) of faecal sludge discharged.
- To develop an understanding of the cause-effect relationships of faecal sludge Q&Q fluctuation and treatment performance.
- To translate field observations into recommendations for loading of drying beds, as well as for future FSTP design, management and operation procedures.
- To develop long-term systematic monitoring of FSTP treatment performance.
- To understand the operational dynamics (i.e. technical, financial, management and social aspects) of existing FSTPs.

Project Description:

With the increased number of on-site sanitation systems, the proper management of Faecal Sludge is becoming challenging issues in the urban areas. Over the last years, there is increasing acknowledgment of the importance of FSM in South Asia and Sub-Saharan Africa. As a result, the construction of FSTPs are rapidly growing in the regions. However, there is a lack of information on operating FSTPs, upon which to base this scaling up. This BMGF supported project has been designed to evaluate and learn from the failures and successes of existing FSTPs, so that future designs and scaling up can be sustainably. ENPHO and 500B Solutions are responsible to perform evaluation of 10 FSTPs from Nepal, India and Bangladesh.



Project Outputs:

- Performed field-based assessment of 10 FSTPs in Nepal, India and Bangladesh

Major Achievements:

- Prepared the assessment report including factsheets of each FSTPs;
- Provided major recommendations in scaling-up such systems in South Asia.