

The Faecal Sludge Field Lab

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Increased **NEED** for FS treatment because of increased number of disasters in urban environments and protracted crisis, but FS labs are often far away and

expensive.



→ no opportunity to monitor the treatment process TO ENSURE PUBLIC HEALTH!

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Picture source: *https://media.ifrc.org/ifrc/2018/04/06/bracing-crisis-within-crisis-bangladesh/*

What?

A readily available FS field lab that fulfills following design criteria:



- Appropriateness \rightarrow comparable results with a standard lab
- Applicability \rightarrow must work in the field
- ✓ Affordability \rightarrow cheaper than standard lab
- ✓ Mobility → must fit in a Toyota Landcruiser



The modules





Camping meets lab

- Total solid determination
- Sample digestion
- Manual centrifuge + metronome

Digital support

- Caddisfly
- Vernier

New methods

Helminth detection with Flotec













<u>Lessons learnt</u>

- Experienced and trained lab staff is needed to set-up and operate the lab
- Continuous refinement and contextualization required
- Lack of standard monitoring parameter
- Need for data management









- Joint set-up and operation of FS field lab with MWE, Uganda
- Operationalisation of FS field lab in Bangladesh
- Data collection to provide a basis for informed decision-making on FS treatment
- Collection of evidence for continuous refinement and contextualization of lab equipment/methods and training
- Providing a smaller suitcase version of the lab
- Development of lab documentation software
- Providing training to interested stakeholders



Thank you for your attention.

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