

## 1-Day National Workshop

# A Roadmap for Small-Scale STPs in India: Fulfilling their Potential for Healthy and Water-Secure Cities

**Date and Time:** 5 April 2018, 9:30 am to 5 pm

**Venue:** India Habitat Centre, New Delhi

Ever-growing Indian cities are facing enormous water and sanitation challenges, ranging from the supply of sufficient quantities and qualities of water, the treatment of used water and sludge, to the protection of aquatic environments. Besides underground drainage and large-scale sewage treatment plants (STPs) and the management of faecal sludge and septage from on-site systems, small-scale sanitation (SSS) systems are becoming increasingly important. Such systems consist of small-scale sewerage networks and STPs, allowing for treatment and recycling of used water near its point of generation. In order to protect the environment, improve public health and address water stress in urban India, small-scale sanitation systems have a key role to play.

Since 2016, Eawag, IIT Madras, BORDA, CDD Society and other partners have been working on the project “Small-Scale Sanitation Scaling-Up” (4S). The objective of the BMGF-funded research project is to develop policy recommendations for the implementation, operation, management and financing of SSS systems at scale. This was done through an evaluation of more than 300 existing systems and their enabling environment. The project ends in June 2018. Further information: [www.sandec.ch/4S](http://www.sandec.ch/4S)



This 1-day workshop aims to present the findings and conclusions from the 4S project and to discuss key questions on how to move forward with various stakeholders and experts. Discussion topics will include:

### **Morning Discussion:** How to Understand & Achieve Lasting Performance of SSS Systems?

- How to reliably assess the sustainability and performance of SSS systems?
- Are current discharge standards adapted for small-scale sanitation?
- Treatment technology: what can be recommended?
- What does it take to ensure good performance of SSS systems?

### **Afternoon Discussion:** How to Ensure Sustainable Scaling of Small-Scale Sanitation?

- The role of small-scale sanitation: how can different solutions for used water and sludge management best complement each other?
- How should private and public stakeholders best be involved?
- Which financial mechanisms could make SSS more sustainable?
- How to effectively manage and monitor SSS systems at scale?
- How do we move forward from here?

**Expected Participants:** Up to 120 representatives from Government, private sector, academia, think tanks, NGOs, associations and funding agencies



# Programme Outline

**Moderation:** Susmita Sinha, Senior Technical Advisor, BORDA & Prof. Absar A. Kazmi, IIT Roorkee

Time	Programme Item
09:00	<i>Registration and Welcome Tea &amp; Coffee</i>
09:30	<b>Welcome and Inauguration</b>
09:55	<b>Keynote Address by Chief Guest</b>  Shri Shiv Das Meena, Joint Secretary (AMRUT), Ministry of Housing and Urban Affairs (MoHUA)
10:15	<b>The 4S Project – Objectives and Approach</b>  Lukas Ulrich (Eawag)
10:30	<i>Tea &amp; Coffee</i>
11:00	Presentation of 4S Findings (Part 1)
10'	<b>1 – Status of Small-Scale Sanitation (SSS) in India: Landscape Overview and Key Statistics from the Assessment of 300 Systems</b>  Rohit Chandragiri & Marius Klinger (Eawag-BORDA)
20'	<b>2 – Performance of Systems: Evaluation Results</b>  Prof. Dr. Ligy Philip (IIT Madras)
15'	<b>3 – Sustainability of Systems: Conditions for Success and Failure</b>  Lukas Ulrich & Marius Klinger (Eawag-BORDA)
10'	<b>Common Mistakes in Planning of Sewer Networks and STPs</b>  Col Naresh Sharma, Director PHE (Military Engineering Service)
12:15	<b>Moderated Discussion with Panellists and Audience: How to Understand and Achieve Lasting Performance of SSS Systems?</b>
13:00	<i>Lunch</i>
<b>Moderation:</b> Ganapathy P. G., Senior Advisor, CDD	
14:00	Presentation of 4S Findings (Part 2)
20'	<b>4 – Governance of SSS in India: Strengths and Gaps in the Institutional and Regulatory Frameworks</b>  Philippe Reymond (Eawag) & Rohit Chandragiri (Eawag)
20'	<b>5 – Costs of Building and Operating Small-Scale STPs, and Implications for Urban Sewage Management and Reuse</b>  Manas Rath (BORDA)
14:50	<i>Tea &amp; Coffee</i>
15:15	<b>Executive Summary: Main Conclusions and Recommendations from 4S</b>  Prof. Dr. Ligy Philip (IIT Madras) & Dr. Christoph Lüthi (Eawag)
15:30	<b>Moderated Discussion with Panellists and Audience: How to Ensure Sustainable Scaling of Small-Scale Sanitation?</b>
16:30	<b>Synthesis and Discussion Take-Aways</b>  Stefan Reuter (BORDA)
16:45	<b>Conclusion and Closing Remarks</b>  Rohit Kakkar (CPHEEO, MoHUA) & Dr. Roshan Shrestha (BMGF)
17:00	<i>Hi-Tea &amp; Ending</i>