

sustainable  
sanitation  
alliance



ECOSAN  
SERVICES  
FOUNDATION

## Open Exchange Forum

at the 23rd SuSanA Meeting



17th February 2017  
Chennai, India

Dear participants of the SuSanA Open Exchange Forum,

We are glad to welcome you at the SuSanA Open Exchange Forum and look forward to your active participation. It is our pleasure to host the Open Exchange Forum as part of the 23rd SuSanA Meeting in Chennai – the second SuSanA Meeting held in India.

SuSanA is passionate about enabling **knowledge exchange** and **sharing ideas about sustainable sanitation**. The event today is manufactured for exactly this purpose! SuSanA partner organisations have the opportunity to present themselves and we all will get a glimpse of the diverse and manifold sanitation activities in India.

This leaflet makes it easy for you to get to know the work of others and connect. It compiles information about the presenting organisations and others, who did not get the chance to speak today. It is not a comprehensive list of sanitation activities in India, but a first step to connect with other actors working on sanitation in India.

In 2007, the Sustainable Sanitation Alliance (SuSanA) was formed with the aim of promoting and lobbying for sustainability in sanitation in the context of the Millennium Development Goals. SuSanA is an international network of organisations and individuals which has steadily grown in significance to become an important knowledge management platform and community of practice. It currently has a member base of more than 7600 people and more than 280 partner organisations ranging from local and international NGOs, research institutions, private and public sector actors to multilateral organisations. With the recently adopted global Agenda 2030 for sustainable development, SuSanA aims to contribute to the achievement of the Sustainable Development Goals (SDGs) by promoting a systems approach to sanitation provision taking in consideration all aspects of sustainability.

In light of the recent increased political and civil efforts to accelerate sanitation provision in India, the SuSanA secretariat, supported by the India Sanitation Coalition, has set-up its first regional chapter. The SuSanA Indian Chapter contributes to the Indian Government's Clean India Campaign "Swachh Bharat Abhiyan" by strengthening discussion on sanitation and by linking the Indian and the global discourse on sustainable sanitation. The SuSanA Indian Chapter fosters knowledge exchange, networking and cooperation in the region and increases the efficiency of the work of SuSanA members and partner organisations by combining their resources and avoiding duplication of efforts while using SuSanA as a sounding board and its global reach for dissemination.

Under the umbrella of the SuSanA Indian Chapter, today's event is organised by the India Sanitation Coalition, Ecosan Services Foundation and IIT Madras together with the SuSanA Secretariat to enable local and regional actors to engage and share their experiences of their daily work. The 23<sup>rd</sup> SuSanA Meeting provides an excellent opportunity to further shape the Indian Chapter and to build upon the feedback and ideas by our partners from India.

Let's have some fruitful days ahead in Chennai!

## SCOPE - Society for Community Organisation and People's Education

SuSanA Partner: yes



*"Ecosan UDDT for rural development"*



### Detailed Information

- **Location:** Trichy, Tamil Nadu
- **Short description of organization**
- **Areas working in:** Sustainable Sanitation and Ecosan UDDT
- **Description of project in sustainable sanitation**

SCOPE is an NGO based in Tiruchi, established in 1986 and concentrates on rural development, empowering the marginalized women in rural areas found out soon that open defecation due to inability to construct toilets was one of the basic problems that prevented their economic development.

TWIN Chamber ECOSAN UDDT is the best solution for FSM. It is an onsite model where collection of faeces, treatment process and harvesting of compost and urine take place in the same household preventing most of the problems of transport of faecal matter from toilet to the treatment to distant places. The owner of the toilet can harvest the processed faeces compost himself and apply the same for farming. The urine after dilution (1:10) is used as a liquid fertilizer in the family kitchen garden of the householders or for trees. UDDT requires 2 liters per use. Other forms of toilet require 10 liters per use. Underground drainage system requires minimum 40 LPCD. It is most environmentally friendly. It is cost effective and the environmental benefits are very high. ECOSAN UDDT is nutrient centered. All other forms of toilets are water centered. Both urine and processed faeces (Compost) are rich organic manure increasing soil health.

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## EcoPro – Boodheri EcoSan Program

SuSanA Partner: yes

EcoPro

towards  
ecological  
prosperity

*“We believe in an untapped potential of prosperity for all, or at least for many, emerging from studies of interconnectedness i.e. ecology, and, psychologically and spiritually, founded on a growing sense of oneness”*



### Detailed Information

- **Location:** Boodheri, Tamil Nadu
- **Short description of organization:**  
The EcoPro team wants to contribute to an ecologically sound management of natural resources, primarily of water and soil. We promote an integrated management of liquid and solid "wastes", eco-friendly approaches in environmental hygiene and sanitation, and sustainable methods and technologies in food production. This is our contribution to environmental health and public hygiene. EcoPro wants to contribute to the development of Auroville through its services and products as well as sharing economic success.
- **Areas working in:** Ecosan
- **Description of project in sustainable sanitation:**  
The Objectives are to introduce toilet sanitation without significant water needs. So far 54 UDDTs were constructed. EcoPro supports with building, monitoring usage, maintenance audit and user education. The goal is to change the mindset of the people and provide bathrooms instead of only toilets. The challenge is that people are in favor of open defecation and waste water is not treated. Therefore school activities and filmings are held since August 2016.

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## Small Scale Sanitation Scaling-up (4S) Project (by Sandec EAWAG, IIT Madras)

SuSanA Partner: yes

*“Scaling-up small-scale sanitation entails more than replicating a large number of discrete projects”*



### Detailed Information

- **Location:** India, Nepal, Pakistan
- **Short description:**

Comparative assessment study of small-scale sanitation systems in 3 countries (India, Nepal, Pakistan) in collaboration between Eawag, IIT Madras, Borda, CDD, NMBU and ENPHO. The objectives are, amongst many, to investigate technical, financial and management **performance of existing small-scale sanitation systems** to develop a **cause-impact framework** for the success and failure of small-scale sanitation systems to investigate the **management and institutional schemes** required for effectiveness, and how to include the private sector.

- **Description of project in sustainable sanitation**

Extensive research and data collection was done before the project started. 160 systems were covered for basic assessment, 18 stakeholder interviews held and 8500 systems reviewed. The project of 4S is carried out through landscape studies, assessment of cultural factors, financial and stakeholder analysis. The main challenges are getting information from government and interviews, contradictory observations were made, human resource changes and getting permission to discuss and share outcomes.

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## Sanitation Impact Solutions

SuSanA Partner: yes



*„Our vision is to change the face of Sanitation Systems by offering an ecosystem of innovative solutions for toilet management and related sanitation services”*



### Detailed Information

- **Location:** Mumbai, Chennai
- **Short description of organization**  
Sanitation Impact Solutions is a social enterprise dedicated to eradicating open defecation by improving the *access* and *quality* of public and community toilets and related sanitation services for the underserved low-income communities, such as urban slum dwellers and homeless populations as well as rural communities.
- **Areas working in**  
Urban and Rural Toilet Management, Refurbishment  
Research and Development  
Training and Skill Development  
Information Technology  
Behaviour Change Communication  
Building, Refurbishing and Provision of Toilets
- **Description of project in sustainable sanitation**  
comprehensive spectrum of toilet management services including water, electricity, cleaning and housekeeping, repair & construction, solid and faecal waste management, social safety

Contact Person at SuSanA Meeting:

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## Garfa Center for Sustainable Solutions in Social Welfare (CSS)

SuSanA Partner: no



*“CSS envisions a world without social, political or economic inequalities”*



### Detailed Information

- **Location:** Kolkata, West Bengal
- **Short description of organization**

CSS offers a commitment of cutting edge research and contextualized implementation and consulting services to its clients through working on a range of institutional, financial, economic, social and technical issues across diverse public systems, cultures and corporate formations in the rural and urban domains. CSS will through its team of experienced professionals, network of advisors, consultants, partner institutions and associations provide quality implementation and consulting services towards the achievement of the Sustainable Development Goals (SDGs). To achieve this CSS will work with the state and national government, national and international agencies, bilateral and multi-lateral organizations, corporate and communities.

- **Description of project in sustainable sanitation (approach, result, challenges)**

Founder members of CSS have pioneered the use of the Classical CLTS approach in West Bengal, having successfully institutionalised the approach in the districts of Malda and Cooch Behar. CSS is currently supporting the Bankura Zilla Parishad in the implementation of the SBM [G] using the classical CLTS approach. The district of Bankura, still records the highest rates of open defecation and CSS has been successfully able to demonstrate the potential of the CLTS approach to achieve sustainable sanitation and about 175 villages are expected to be declared ODF within the next few months.

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## Innovate Mediscience India Pvt. Ltd

SuSanA Partner: no



*“Optimization of pit and simplified sewage model for slums”*



### Detailed Information

- **Location:** Indore & Ujjain (7 employees)
- **Short description of organization:**
- **Areas working in:** Sanitation and fecal sludge management

- **Description of project in sustainable sanitation**

Current case studies sub divided into two groups rural and urban slums here each group having 4 slums so all together we included 8 slums having total 2000 people in the studies. Slums having average house size 10 \*12 feet and average 5 people living in each household. Slums having 95% open defecation; even slums have communal toilets but these toilets have broken toilet seats, broken doors and very unhygienic conditions. Both area slums people complain about prolong illness of kids and general population. Girls were stressed due to unavailability of toilet and bathroom. Women security is major concern since areas having high unemployment, alcoholism and drugs problem.

Initially we proposed single and dual pit model for such slums since such models are cheaper, but due to small house and most of the constructions were wood, soil and bricks we emphasized on simplified sewage. Clean India movement emphasizing toilet on each house thus having subsidy also in construction, but in grass root level when we checked the construction we found single pit having ring model that is base of pit is pours. We proposed hybrid simplified sewage model where 20 toilets connected with simplified sewage and ultimately stored in common tank and then transfer it to the treatment plant. Both cities have a poor sanitation management system

In concluding remark we have technology for advanced sewage treatment and septic tanks but due to financial limitations we are forcing to stay with cheaper models.

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## Tide Technocrats Private Limited

SuSanA Partner: no



*“Our vision is to enable and empower individuals and communities to lead an environmentally responsible and sustainable lifestyle”*



### Detailed Information

- **Location:** Bangalore (30 employees)

- **Short description of organization:**

Tide Technocrats is an empanelled consultant by Ministry of Urban Development, Government of India for the Swachh Bharat mission and a member of the NFSSM (National Fecal Sludge and Septage Management) alliance. Our mission is to provide sustainable solutions to 10 million people by 2018 through our projects and services. Biomass Controls has over 100 years of combined experience in the control technology and data analysis industry. Our vision is to pioneer biogenic control technology for thermal and power applications. Headquartered in Putnam, Connecticut, USA, our markets include woody biomass, biogenic waste, waste water, and sanitation solutions.

- **Areas working in:** Biomass control

- **Description of project in sustainable sanitation:**

A community-scale fecal sludge processor which consists of pasteurization, dewatering, drying, carbonizer, and waste water treatment units. This low-footprint scalable solution is useful for non-sewered small towns and provides rapid deployment, incremental modular growth, and remote electronic management. The fecal sludge and septage, after thermal treatment, provides reusable pathogen-free output products of biochar (used as a soil amendment and in dryer odor management among others), and treated water in a clean emission, environmentally safe manner.

Contact Person at SuSanA Meeting:

**Shriram Bharathan**

Lead – Ecosystem Engagement, Tide Technocrats

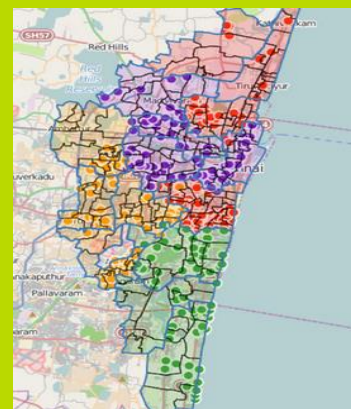
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## Citizen consumer and civic Action Group (CAG)

SuSanA Partner: no



*“To empower citizens, promote transparency and accountability, and harness new technologies to strengthen governance”*



### Detailed Information

- **Location:** Chennai (15 full-time employees)
- **Short description of organization:**  
CAG was founded in 1985, is a non-profit and non-political organisation. Making good governance a reality has been CAG's mission which is largely done by demanding transparency and accountability and by promoting participatory decision making. To achieve this CAG interacts with the government and provides inputs for better governance. CAG firmly believes in a bottom-up approach for decision making especially with regard to planning processes the government undertakes, and this requires involving stakeholders to achieve a participatory decision making process. CAG addresses various issues such as urban planning with regard to developmental activities in urban areas, safeguarding open spaces and public spaces, traffic regulation, trade related issues, citizen's charters etc.
- **Areas working in:** consumer protection, energy, water, sanitation, solid waste, land rights and housing, land use and planning, city governance
- **Description of project in sustainable sanitation:**  
CAG adopts a combination of methods to further our advocacy goals, including making policy representations to governments, legal and judicial interventions, and collaborations with state and municipal governments. We also work with citizens, consumer groups and civil society groups. Our work has informed policy and decision making on a wide range of issues, and strengthened the capacity of citizens to advocate for their rights and entitlements

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## Aga Khan Agency for Habitat India

SuSanA Partner: yes

A K D N

AGA KHAN DEVELOPMENT NETWORK

*“To establish AKAH as a lead agency in Habitat Development at Regional and National level”*



### Detailed Information

- **Location, size, branch:** Una, Gujarat; Rajula, Gujarat; Mahuva, Mumbai (65 employees)
- **Short description of organization:**

Aga Khan Agency for Habitat India is a not-for-profit network agency of the Aga Khan Development Network (AKDN), a group of private, international, non-denominational agencies working to improve living conditions and opportunities for people in specific regions of the developing world. The network's organizations have individual mandates that range from the health and education to architecture, rural development and the promotion of private-sector enterprise. Together they collaborate in working towards a common goal—to build institutions and programs that can respond to the challenges of social, economic, and cultural change on an ongoing basis.

- **Areas working in:** : Planning & Building and Emergency Management

- **Description of project in sustainable sanitation**

AKAHI has so far completed more than 4,429 sanitation units in 85 villages of Gujarat and 90 sanitation units across Palghar district, Maharashtra through the approach of community-led total sanitation; benefitting a population more than 18,000 people. In addition to creating sanitation units, other activities included are school awareness programmes, distribution of hygiene kits, village cleanliness drive. The programme is being implemented by mobilizing linkages of the Gram Panchayat with the government. Emphasis is given to creation of demand through Behavior Change Communication strategies. One of the challenges is the delayed release of toilet construction subsidy from the Government. A total of 24,000 sanitation units are expected to be completed by the year 2019.

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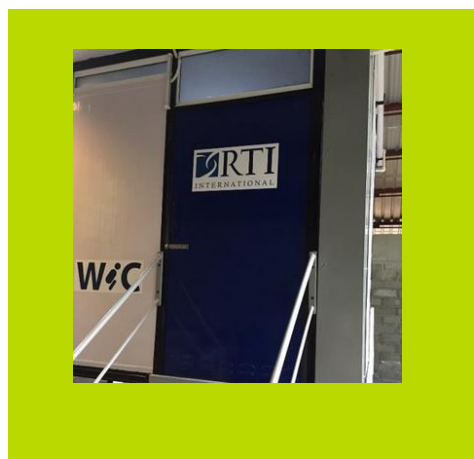
## Triangle Environmental Health Initiative (Tri-EHI)

SuSanA Partner: no



TRIANGLE ENVIRONMENTAL  
HEALTH INITIATIVE

*“provide water, sanitation and hygiene (WASH) to better the lives of the 2.6 Billion people without access to proper sanitation”*



### Detailed Information

- **Location: Durham (USA), Ahmedabad**
- **Short description of organization:**

The Triangle Environmental Health Initiative (Tri-EHI) was founded in North Carolina in 2016 with a mission to provide water, sanitation and hygiene (WASH) based solutions to better the lives of the 2.6 Billion people without access to proper sanitation. Tri-EHI will work to accomplish this mission through promoting collaboration and continued research and development of creative WASH solutions, focused in the developing world. Tri-EHI has established relationships with several institutions in the WASH sector and is working with them to design, develop, and implement technologies internationally including in South Africa, India, and Malawi.

- **Description of project in sustainable sanitation**

Tri-EHI is currently working with three institutions to implement and optimize their respective technologies in country. The first of these technologies is North Carolina State University's development of safer, more efficient pit emptying equipment. So far, we have tested over five prototypes in South Africa, India, and Malawi. Tri-EHI is also working with RTI International on the implementation, testing, and development of their reinvent the toilet (RTT) project currently installed in Ahmedabad, India. Tri-EHI's newest client is Biomass Controls who have developed the Biogenic Processor as part of the omni processor project. Tri-EHI will provide service management support including the field installation of the Biogenic Processor units (beginning in India), training of local personnel, quality control, and customer service.

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Group Picture at SuSanA's 10th Anniversary, 17th January 2017, Eschborn, Germany

The **Sustainable Sanitation Alliance (SuSanA)** is an open international alliance with members who share a common vision on sustainable sanitation and are dedicated to understanding viable and sustainable sanitation solutions.

It links on the ground experiences with an engaged community made up of practitioners, policy makers, researchers, and academics from different levels with the aim of promoting innovation and best practices in policy, programming and implementation.

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