

PROLOGUE

Greetings from CDD Society!

PICTURE OF THE MONTH

The India Today Safaigiri Summit and Awards 2016 announce Mr. Rajesh Pai as winner of 'Tech Icon' category

FOCUS ON FSM

Faecal Sludge Management Solutions for two cities in India-Unnao (Uttar Pradesh) and Bhagalpur (Bihar)

UPCOMING EVENTS

Nutrient Recovery and Re-use of Human Waste for food production training, Bangalore from 15th to 18th November 2016, CASS, Bangalore



Baseline survey for Faecal Sludge Management Solutions, Unnao (Uttar Pradesh) , October 2016

PROLOGUE

Greetings!

We are happy to bring to you this years last issue of e-Disha with updates on our latest accomplishments.

It gives CDD Society immense pleasure to inform that Mr. Rajesh Pai Technical Advisor, BORDA has been recognised as winner of the award in the 'Tech Icon' category for the second edition of the India Today Safaigiri Summit and Awards 2016. We acknowledge his contribution towards the planning, design and implementation of projects in liquid and solid waste management with focus on community based sanitation projects, decentralized wastewater treatment projects (DEWATS), public sanitation and faecal sludge management across South Asia.

CDD Society tied up with National Institute of Urban Affairs (NIUA), a premier institute for research, capacity building and dissemination of knowledge for the urban sector in India, for a project under their Sanitation Capacity Building Platform (SCBP). Supported by the Bill and Melinda Gates Foundation (BMGF), SCBP is a platform dedicated to capacity building activities.

CDD Society's role is to provide an overview of the sanitation situation in two towns and to suggest options for the identified sanitation problems. This includes a preliminary design for faecal sludge treatment along life cycle costs and management framework of the proposed technical approach across the sanitation value chain. We have shared experiences during the initial baseline survey for one of the towns.

For feedback and comments, write to us at knowledge-mgt@cddindia.org

e-Disha
Editorial Team



PICTURE OF THE MONTH



It gives CDD Society immense pleasure to inform that **Mr. Rajesh Pai** has been selected as winner of the award in the **'Tech Icon'** category for the second edition of the India Today Safaigiri Summit and Awards 2016.

India Today Safaigiri Summit and Awards is a culmination of our efforts in realizing the vision of Swachh Bharat and in recognizing Clean Champions across the country.

Rajesh Pai, Presently the Technical Advisor, BSA has been the Director (Infrastructure and Planning, CDD Society). He has more than 16 years of rich experience in the development sector mainly in the implementation of sanitation related project of various scales. His domain

An accomplishment reflects the potential, hard work and a deep concern to make the society a better place.

expertise is in the planning, design and implementation of projects in liquid and solid waste management with focus on community based sanitation projects, decentralized wastewater treatment projects (DEWATS), public sanitation and faecal sludge management in peri-urban areas. He is well experienced in handling technical designs, project management, research and development, capacity building and training workshops related to rural/urban sanitation, conservation of natural resources and environmental protection in coordination with beneficiary communities, private organizations, Non-Governmental Organizations and Governmental Organizations.

FOCUS ON FSM

"Faecal Sludge Management Solutions for two cities in India-Unnao (Uttar Pradesh) and Bhagalpur (Bihar)

In August 2016, we tied up with National Institute of Urban Affairs (NIUA), a premier institute for research, capacity building and dissemination of knowledge for the urban sector in India, for a project under their Sanitation Capacity Building Platform (SCBP). Supported by the Bill and Melinda Gates Foundation (BMGF), SCBP is a platform dedicated to capacity building activities.

CDD also met with Surendra Singh (District magistrate, Unnao) and presented experiences of FSTP in Devanhalli and upcoming Project in Trichy and Coimbatore.

Data Collection at Unnao, Uttar Pradesh

According to the 2011 Census, over 60% of households in Unnao have onsite sanitation facility and 16.7% do not have access to individual toilets. The town does not have any faecal sludge treatment facility to treat the total 23.9 MLD that the town generates (as per Control of Pollution Board data).

Swadha, CDD Society's project team member shares her experiences during the initial baseline survey for the town of Unnao.

Data Collection was done to gain overview and status on the sanitation situation in Unnao. Besides the focus area of wastewater management, the process included qualitative as well as quantitative elements of water supply and information about the toilet infrastructure.

Detailed information about the infrastructure of septic tanks and pits, the desludging and disposal methods as well as the reuse possibilities to identify the existing sanitation problems. Technical solutions for faecal sludge management shall be derived based on these statistics.

Sample Size and Sampling Plan

Residential/Households: Here stratifying variable being material of the house roof, the sample size would be grouped in the proportion of different roof types based on 2011 Census data. Once the number of samples for each household type was fixed, only households with accessible containment unit and user interface were selected for survey and observations

Non-residential: The sampling technique applied was judgmental sampling. A list of non-residential units was identified based on the judgement of the surveyor for sampling.

Cesspool Operators: The sampling technique applied was snowballing sampling. A list of cesspool operators were identified during interaction with the local community, and subsequent operators were identified for interview from the network or linkages from the list.

Sample size for survey in Unnao

Stakeholder	No of Samples
Residents	362
Non-residential	30
ULBs	1
Cesspool operator	2



Swadha Das Mohapatra, Project Engineer, CDD Society

Overall it was a great learning experience as it is my first time doing FSTP planning and design and conducting a baseline survey for a city

Initially identifying the ward boundaries in Unnao was a challenge which was discussed with elected representative and government officials by an exercise in which everybody participated in drawing the boundaries of the wards with the landmarks. Good way to involve the ULB in planning

The Unnao ULB was extremely enthusiastic and helpful and it made data collection easier. They also gave a office space to work during data collection.



UPCOMING EVENTS

Nutrient Recovery and Re-use of Human Waste for food production
(A Training Programme on closing Sanitation, Agriculture and Nutrient loops)

Dates : November 15-18, 2016
Venue : CASS, Bengaluru

CDD Society will be conducting 4-days training programme on 'Nutrient Recovery and Reuse of Human Waste for food production' in collaboration with BORDA and RGRHCL at CASS, Bangalore from 15th to 18th November 2016 at the Centre for Advanced Sanitation Solutions (CASS) in Kengeri, Bangalore.

Link for brochure :

<http://www.cddindia.org/downloads/P-Nexus-Trg-Brouchers-2016.pdf>

 2nd Annual National Summit
Sustainable Water & Sanitation
1 - 2 December 2016: Conference | 30 - November 2016: Workshop
New Delhi, India



A bi-monthly publication by

Supported by



CDD Society | Bangalore

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