

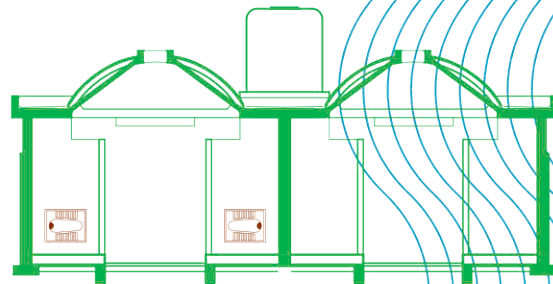
# Training Programme on EcoSan

14 - 16 July 2014



This training programme aims to communicate and promote:

- Specific benefits of the 'closed loop' approach
- Advantages of EcoSan over other available sanitation systems and approaches
- Alternative to 'business as usual'



Source: Google

Jointly organised by



Consortium for  
DEWATS  
Dissemination  
Society



ECOSAN  
SERVICES  
FOUNDATION

## BACKGROUND

Today, more than 2.5 billion people worldwide lack access to improved sanitation facilities. Lack of sanitation is one of the main causes of death among children.

Issues of safe sanitation are not only solved through the provision of toilets but also prevention of pollution of fresh water bodies. Though various public and private schemes that provide toilets address these problems, the larger issue of prevention of pollution and environmental conservation is not addressed. This gives rise to a major sanitation problem with pollution of ground and surface water exposed to domestic wastes. Since conventional sanitation systems fail to reach to these highly dense parts of the city, remote areas with no sewerage network and areas with lack of water, there is need for alternative sustainable sanitation systems to address the issues.

**Ecological Sanitation or EcoSan** is an approach that follows the principle of 'closing the loop'. The concept therefore comprises of the following tenets:

- Reducing water consumption and protecting the environment
- Recycling human wastes into resources and prevent diseases
- Re-using the resources in agriculture and horticulture

The EcoSan approach considers human waste and wastewater as a resource. Hence, instead of diluting the nutrient rich urine and feces with water, and thus polluting the water, the ecological sanitation approach chooses to recapture the nutrients safely at the source itself – the toilet. Urine and feces are collected and stored separately and reused after treatment and hygienisation. EcoSan can be applied both in the rural and urban sectors as per users' need.

EcoSan therefore offers a safe sanitation solution that prevents disease and promotes health by successfully and hygienically removing pathogen-rich excreta from the immediate environment.

Supported by



BORDA



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VENUE

**CASS**

CENTRE FOR ADVANCED  
SANITATION SOLUTIONS

Kengeri, Bangalore

## NEED FOR TRAINING

Though the EcoSan approach is becoming more and more known in India and several projects have raised awareness and acceptance of innovative sanitation systems, there is a significant lack of qualified personnel who can implement these systems at the grass root level. As of today, the knowledge about EcoSan is very limited and hardly any EcoSan experts are available to cater to this demand.

Many successful sanitation projects and large-scale implementations have created demand in the commercial, cooperative and public sector in India. This demand has to be met by qualified personnel, who are able to tailor innovative sanitation solutions. For successful implementations of innovative sanitation solutions, a broad understanding of the social, cultural as well as economic aspects are required including knowledge of the local climate, groundwater situation and soil condition. In co-operation with **CDD Society, EcoSan Services Foundation** is offering an EcoSan Executive Course for aspirant practitioners in the field.

### Training Objectives

- To increase awareness on alternative, sustainable sanitation systems among the key stakeholders
- Assess possible technical options and pilot them at the local level
- Training of trainers so the concept and knowledge on ecological sanitation are passed on to the grass root level

### Programme Overview

The course duration is **3 days** and it is scheduled from **14<sup>th</sup> to 16<sup>th</sup> July 2014**. On each of the training days, the sessions are timed from 9am to 6pm. Various training methods are involved for example:

- Mix of face-to-face lectures
- Group works
- Technical discussions
- Case studies and role plays

### Target Group

The participants should have a minimum of 1-2 years of work experience in the water, sanitation and/or waste management sector. English language skills are required as that will be the medium of instruction and teaching. Potential participants for this training course are from government and private organisations especially from the rural development department

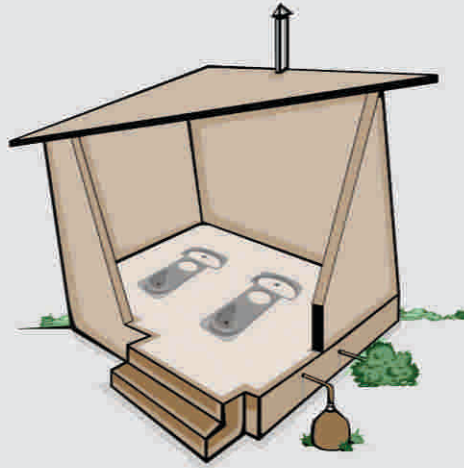
- Engineers (Sanitation, Environmental etc.)
- Waste Management Practitioners
- Sanitation enthusiasts from NGOs
- Sanitation consultants

### Training Venue

The training will be conducted at Centre for Advanced Sanitation Solutions (CASS), located in Kengeri, Bangalore. CASS has been jointly established by CDD Society, BORDA and RGRHCL, Karnataka.

### Attendee Benefits

The participants will be awarded a certificate on satisfactory completion of the training programme. Also each participant will be linked with CDD/BORDA's international Engineer's network which provides them with access to regular knowledge and skill upgradation. They will also be linked to ESF's network.



### Course Outline

- EcoSan Approach - Closing the loop
- Overview of EcoSan Technology Components: with case study examples in India
- Agricultural aspects of EcoSan - with case study examples
- Social and Stakeholder - Specific aspects in EcoSan
- Practical session on one EcoSan Technology - Urine-Diverting Dehydration Systems with integrated technical exercise
- Economics and Financing

### Travel & Insurance

- All expenses towards the onward and return travel to and from Bangalore are borne by the participants (or their organisations) individually
- All daily local travels during the programme will be provided by CDD Society
- The organisers and sponsors are not responsible for any risk of illness, accidents, loss of money, property, etc. incurred by participants
- The participants are strongly advised to insure themselves against such mentioned risks

### Registration

The programme is designed for a maximum of 20 participants. The registration form should be filled in all respects and returned to the contact address given below by 23<sup>rd</sup> June 2014. As seats are limited, CDD Society will screen and select the most eligible applicants.

### Programme Fee

The course fee is Rs.12,000/- (Rupees Twelve thousand only) for Indian residents and 200€ (Two hundred Euros only) for International participants. Extra Rs.3000/- (42€ for International participants) per night shall be charged if participant's accommodation is to be arranged by CDD Society.

The selected participants need to send DD/Cheque for the above amount in favour of CDD Society, payable at Bangalore to the address given below



EcoSan Services Foundation (ESF) is a section 25 non-profit company established in 2006 with the support of the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) and secon international, in association with the Innovative Ecological Sanitation Network of India (IESNI). EcoSan Services foundation aims to transform into a sustainable key resource centre as a leading knowledge hub in sustainable sanitation and water management. With a unique mix of knowledge and experience; ESF work closely with the public and private sectors. Since the conception of this company, ESF have gained extensive experience in capacity development, policy building, awareness raising, project implementation and consulting in the field of sustainable sanitation.



**Consortium for DEWATS Dissemination (CDD) Society** is a not-for-profit organisation comprising of like-minded network partners seeking to promote the provision of basic needs services in urban and rural environment through the promotion of decentralised solutions in

- Community Based Sanitation (CBS)
- Wastewater Treatment Systems (DEWATS)
- Solid Waste Management (DESWAM)
- Citywide DBNS Planning (CSP)



**Bremen Overseas Research & Development Association (BORDA)** is a German non-profit organisation with headquarters in Bremen. Since 1979, BORDA has been working in India with local partners to implement and disseminate sustainable solutions to the related problems of poverty and environmental degradation. Through the integration of appropriate eco-friendly technology into a holistic framework, including technical, social, economic and environmental components, BORDA facilitates the provision of basic needs services to urban, peri-urban and rural populations and technical support to small and medium sized enterprises, institutions, settlements and communities.



**Rajiv Gandhi Rural Housing Corporation Limited (RGRHCL)** is a Government of Karnataka Public Ltd. Company. It has set up diverse training infrastructures across the State of Karnataka. RGRHCL is experienced in the construction, coordination and facilitation of housing provision for the Economically Weaker Sections (EWS) of society under various State Government schemes.



### For any enquiries contact:

#### Consortium for DEWATS Dissemination (CDD) Society

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