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Chapter

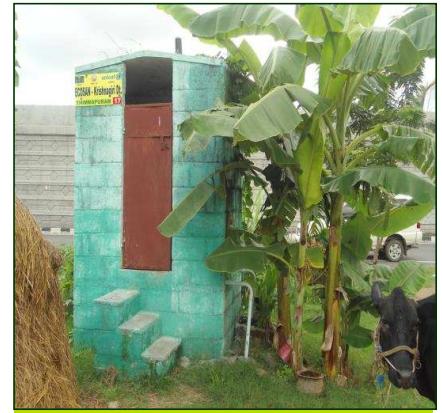
Society for Community Organisation  
and People's Education

***Ecological Sanitation for  
Fecal Sludge Management***

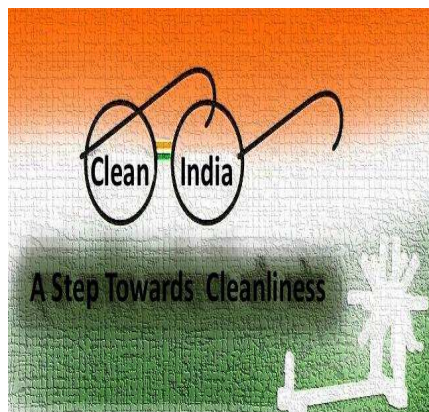
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17 February 2017  
Chennai, India**



- **Focus of work** - Sustainable Sanitation.
- **Location** - Trichy, TamilNadu, Other States in India
- **Partners** - UNICEF, Water.ORG, Waste Netherlands, DDWS, Rural Department Government of TamilNadu, State Planning Commission, Indian Oil Corporation (CSR) .
- **Additional information**
  - ECOSAN UDDT
  - Research on application of human - manure
  - Toilet linked Bio gas plant
  - ECOSAN Community Toilet with Sanitary Napkin Incinerator , Rain water Harvesting, Solar panels.
  - Girl friendly school toilets.
  - Key Resource Center of DDWS on Training capacity building awareness programme to different stakeholders on concept and construction.

❖ TWIN Chamber ECOSAN UDDT is the best solution for Faecal Sludge Management

❖ 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, the house owner, 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.



Mr Valentine Post, WASTE, Netherlands Opened the First Compost Chamber of Ecosan Community Compost Toilet, Saliyar Street, Musiri.

- ❖ ECOSAN UDDT Saves water one of the most precious finite Commodity in the World which is becoming more and more reduced due to climate change and increased demand from all sectors of users the world over.
- ❖ 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. Other forms of toilets like Twin leach pit toilet, septic tank toilet contaminate ground water and surface water and soil.
- ❖ It is cost effective and the environmental benefit 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 soli health.

## Participatory approach

❖ Awareness generation

❖ Concept dissemination

❖ Information before site selection in all sites. Most suitable for high water table, river banks, coastal areas as well as rocky water scarce and desert areas.



❖ Discussion with community during construction and after construction and after commissioning.

❖ Training on continuous monitoring from day one of the use of the toilet until the first chamber is closed, when second chamber use is commenced and until the compost from the first chamber removed (18 months).

❖ Training on the use of processed faeces and application of urine for farming

- ❖ To make policy makers, administrators, manufacturers householders NGO's accept a concept of onsite UDDT by sensitizing them on advantage of the most environment friendly sustainable toilet model by highlighting hazards of other models especially fecal sludge management.
  
- ❖ Toilet usage practice which is different from conventional toilets.
- ❖ Ensuring monitoring for a period of two years at regular intervals.
- ❖ Technology support to make UDDT pan more user friendly.

- ❖ Acceptance of UDDT toilets in high water table areas and rocky areas
- ❖ Design change 3-in – 1 squatting model
- ❖ First ECOSAN community compost toilet built 2005



functioning and patronized well.

- ❖ Research by TamilaNadu Agriculture university on paddy and vegetables National Research Center on Banana has established the efficacy use of humannure for increasing

- ❖ Community realizing importance of humannure as organic fertilizer, improving soil health and reducing use of harmful effect of chemical fertilizer.



- ❖ Pilot project struvite production from Urine

✓ **ECOSAN is one of the best models fecal sludge management and conversion of human waste into wealth.**



The Tamilnadu Honorable Chief Minister Ms. J. Jayalalitha has awarded SCOPE the Best NGO in the State in the field of Total Sanitation and Environment Management at Chennai on 15<sup>th</sup> August 2005



The **NIRMAL GRAM PURASKAR** awarded to SCOPE for its exemplary work on sanitation for the year 2006

The Tamil nadu Chief Minister has awarded SCOPE the Best NGO in the field of Sanitation and environment Management on 15<sup>th</sup> August, 2005



# Thank you!

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