CDD Society is one of the partner organizations collaborating with NIUA under the Sanitation Capacity Building Platform (SCBP) to mainstream FSM at the state and national levels on Sanitation. Under this programme, CDD Society aims to demonstrate FSM at the town of Unnao in the State of Uttar Pradesh.

Objective: To build capacity of cities and other stakeholders working in the Urban Sanitation sector to ensure improved delivery of sanitation services through Decentralized approaches.

Methodology for Planning FSM

1. Reconnaissance Survey of town
2. Sanitation Infrastructure Data Collection
3. Sanitation Situational Assessment
4. Conceptualization of FSM for town
5. Preparation and Submission of Detailed Project Report (DPR) for town

PROJECT SPECIFICATIONS

Name of town: Unnao
No of wards served by FSTP: 11
Population served: 100554
Area of FSTP: 6480 m²
Capacity of FSTP: 24 m³/day
Construction Cost of FSTP: ₹ 3.5 Crores

16.7% of households do not have access to toilets (Census survey 2011)
Poorly designed pits and Septic tanks
Irregular and Unscientific Desludging
No existing STP, Raw and partially digested sludge in onsite systems
Unscientific reuse or discharge of raw or partially digested faecal sludge on Agricultural lands/ Water bodies

Improve access to toilets
Capacity building on design of collection systems based on CPHEEO
Ensuring scientific disposal of sludge by Desludging Operators; Increased access to households in narrow lanes
Plan for Faecal Sludge Treatment Plant (FSTP)
Provide solutions for scientific disposal and reuse

Survey No. 205 | (Opp. Beed: Workers Colony) | Kommaghatta Road | Bandemath | Kengeri Satellite Town | Bengaluru 560060 | Phone: +91-(0)80-28486700 | www.cddindia.org | bangalore@cddindia.org
Process Flow Chart for Proposed FSTP

1. SCREEN CHAMBER
2. SLUDGE STABILIZATION REACTOR
3. UNPLANTED DRYING BEDS
   - SLUDGE LIQUID
4. A. INTEGRATED SETTLER
   - B. ANAEROBIC FILTER
   - C. VERTICAL PLANTED GRAVEL FILTER (VPGF)
5. SAND CARBON FILTER
6. TREATED EFFLUENT REUSE ON AGRICULTURAL LANDS/ DUMPSITE
7. BIOSOLIDS REUSE ON AGRICULTURAL LANDS/ DUMPSITE