Dehradun is the capital of the Indian state of Uttarakhand located near the Himalayan foothills. The city is governed by Municipal Corporation which comes under Dehradun Metropolitan Region, Uttarakhand.

**Overview of Septage Management**

- **34% of sewerage network** spread across 6 zones
- **Desludging frequency** 5 – 8 years
- **Average cost of desludging** for a household **₹ 3000**
- **On-site sanitation (OSS)** systems mainly comprising of septic tanks
- **Capacity of desludging vehicles** 4000 to 6000 litres
- **Wastewater treatment** through **7 STPs**
  (Total capacity: 150 MLD; 34% utilization)

As per Uttarakhand Peyjal Nigam and Jal Samiti data as on October 2020
Rationale behind Co-treatment at Kargi Chowk STP

- Available capacity for sewage 48 MLD
- Number of trucks discharging faecal sludge and septage* 25 to 30 (during weekdays) and 40 (during weekends)
- FSS collected 100 to 200 KLD

As per Jal Sansthan data on April 2020
*Seasonal variation in FSS collection - 6 to 7 average number of trucks

Issues faced during Co-treatment trials

- High SS concentration in aeration basin of STP
- Rise in odor nuisance within the STP premises
- Excess quantities of fat, oil, and grease

As per Jal Sansthan data on April 2020

Recommendations by NIUA

- Systematic manner of receiving faecal sludge and septage at the inlet of STP
- Solid-liquid separation of incoming FSS using spare units in the STP
- Liquid stream to be mixed with incoming sewage at the STP
- Solid stream to be dewatered using centrifuge and sludge drying

Report from NIUA giving the design recommendation for co-treatment and feasibility at Kargi Chowk STP, Dehradun

To access the above reports click the links below:
- FSS Co-treatment Design Guidebook
- Co-treatment feasibility in Dehradun Uttarakhand

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