

# **Faecal Sludge Management through Co-Treatment in Haryana**

**Presented By –**

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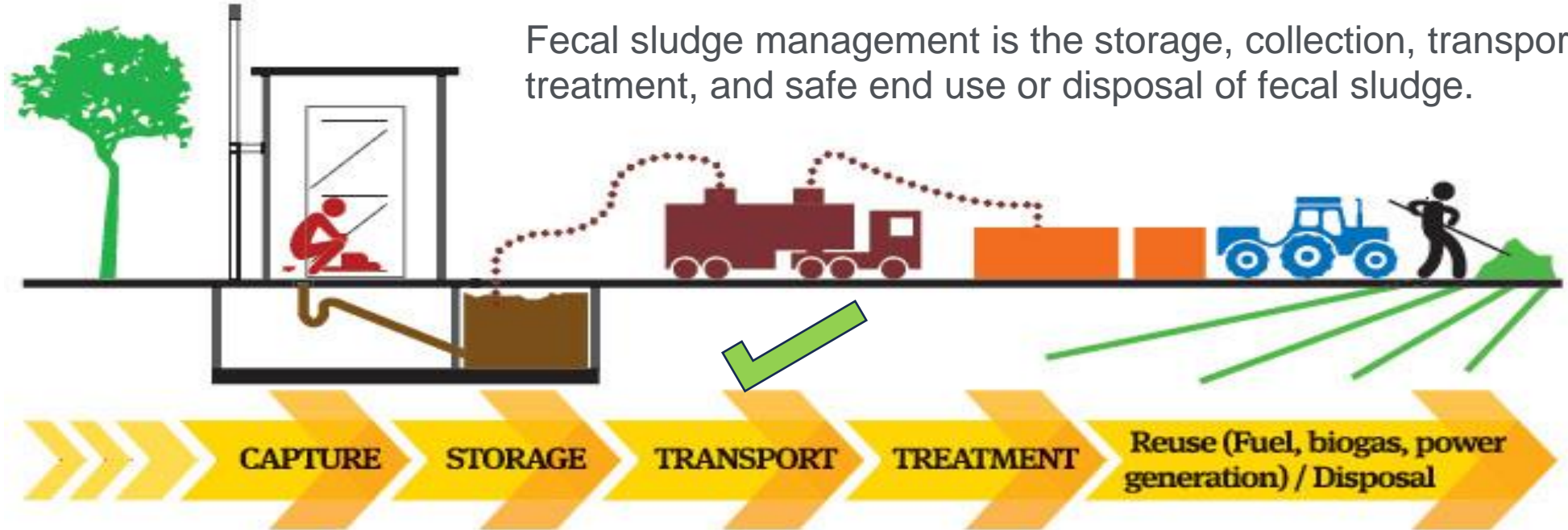
**Chief Engineer (PR), Development & Panchayats Department Haryana**

# BACKGROUND

- Co-treatment is a concept of treating Faecal Sludge along with domestic sewage at a Sewage Treatment Plant (STP).
- Haryana has total 26,87,780 rural Households, of which 11,31,430 (42%) are single leach pits and 6,90,968 (26%) are septic tanks those require regular desludging and emptying.
- Haryana state has more than 123 Urban Sewage Treatment Plants of Public Health and Engineering Department (PHED) of which 120 are currently identified as under-utilized with the possibility of co-treatment.
- Haryana has a network of unregistered and informal private de-sludgers/tankers/service providers who own desludging tanks of varying capacities (3KL to 5KL).
- On-demand service to empty the septic tanks to the households is provided at non-regularised rates by the private de-sludgers.
- There was a practice of emptying the faecal sludge tanks in the depressions, open lands, rivers, or in the outskirts of the habitations. This was a major health and environmental hazard.



## What We Want.....??



# State Policy on Co-Treatment of Faecal Sludge at Sewage Treatment Plants

- **State Policy for de-sludging for single pit /septic tanks and safe disposal of Faecal Sludge from rural areas into existing STPs of PHED dated 23.06.2023**

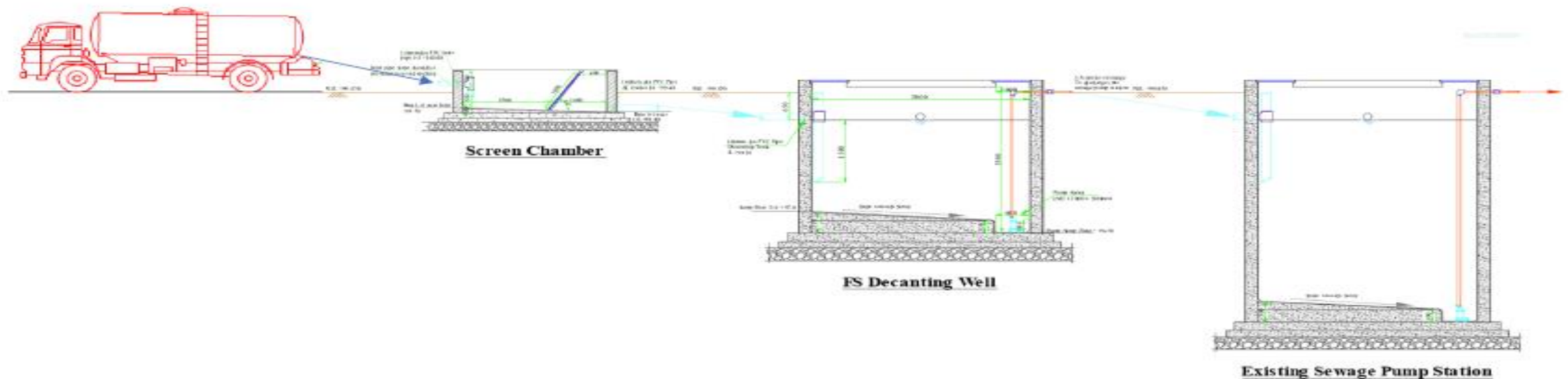
## Roles and Responsibilities of Stakeholders

CEO Zila Parishad / Nodal SBM(G)	Private Tankers Operative/ tanker holder	PHED
Identification & Registration of private de-sludgers	Register on-line and get licence from PHED	Provide Licence No., Identity Card
Fixing prices for providing de-sludging services	Display the logo and registration number on tankers	
Trainings and Capacity Building	Empty, Transport and Dispose the fecal sludge at assigned facility only	Information to tankers on timings
Common contact number/ 1800-180-5678 for households to provide on call de-sludging services	Maintain Record/logbook	
Awareness generation	Only mechanical desludging and use of PPE. Follow all other rules and regulations	Maintain Record
Vigilance/Penalty	ESI, PF, insurance	

# Co-Treatment Units at existing Sewage Treatment Plants

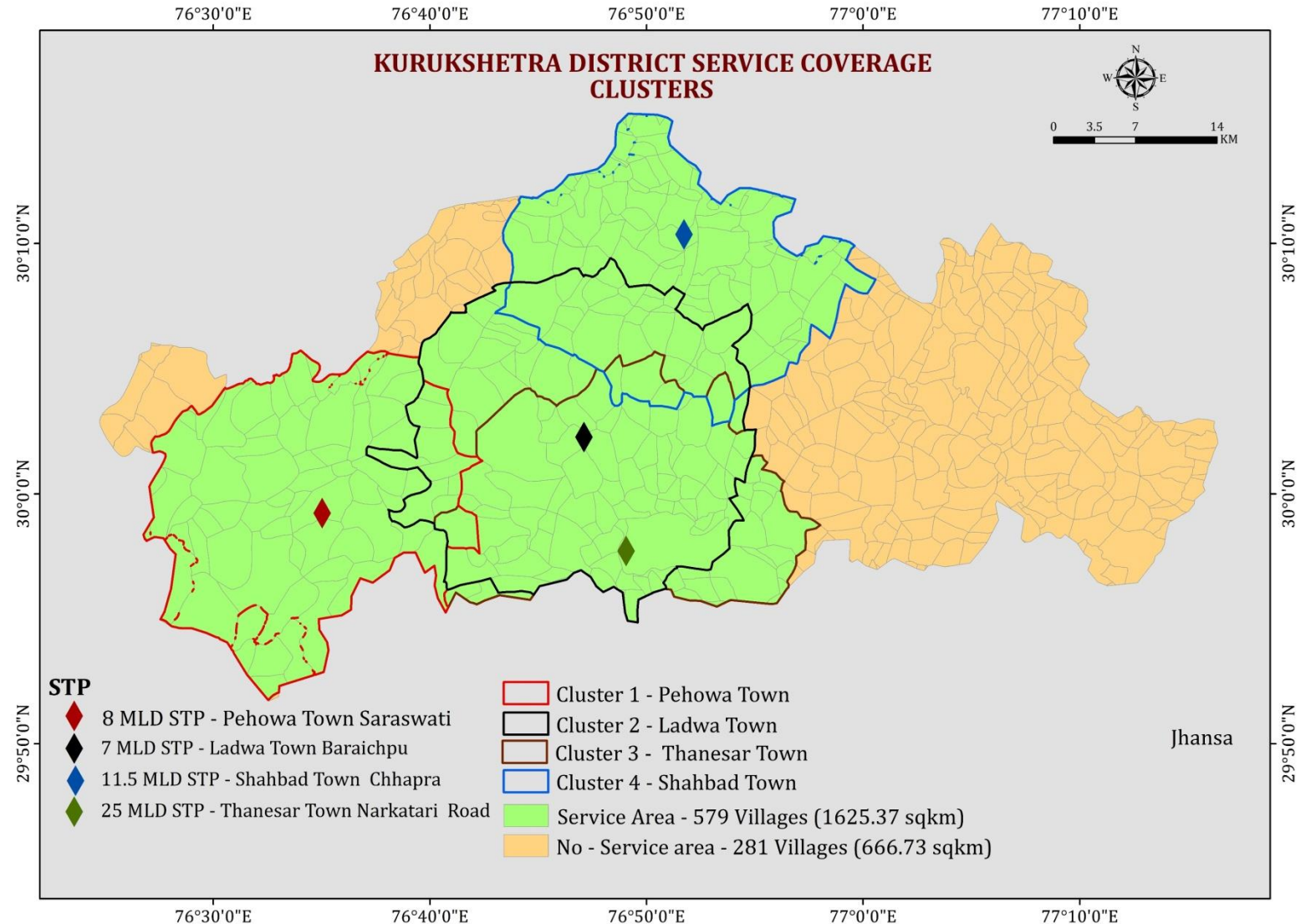
## Preparation for Co-treatment of Faecal Sludge (FS) in the existing or proposed (STPs)

- Co-treatment units at STPs were decided to be constructed. Drawings and designs were provided for dilution method to be adopted at every STP.
- These designs approved by the Chief Engineer PHED and circulated across the state.
- Each co-treatment unit costs approx. Rs 9-10 Lakh. **SBM (G) transferred Rs 10.8 Crore to PHED** for development of Co-treatment units.
- **Technical estimates has been sanctioned for 96 co-treatment units, tenders have been floated for 91 units and 68 co-treatment units are already under construction.**



# Mapping of all the villages with nearest STPs

- District wise all the villages of the state were mapped with the nearest STPs.
- Villages that are more than 25 KM from the closest STPs were also identified.



# Meeting and consensus on rates with private De-sludgers

- A series of workshops and meetings were organised with all the **existing private de-sludgers in each district** .
- Desludging operators and service owners were also trained on the ODF plus components and procedures to be followed during the desludging of Septic tanks.
- In consensus with the registered de-sludgers the rates to be charged from households are fixed ranging from **Rs 500 to 1000** for single trip for households within 5-10 Km from the closest STPs. In case of additional distance per Km charge ranging from Rs 20 to Rs 50 per KM is being fixed.



# Registration of Private De-sludging Operators

## Offline Registration Form

## Online Registration of De-sludgers

- Haryana state has developed an **online registration portal** for desludging operators available on PHED Haryana website.
- 465 desludging operators** are already identified by SBM (G) in Haryana out of which **343** are registered.

**Public Health Engineering Department, Haryana**  
**Performa for registration of Tankers (Service Providers) for Faecal Sludge Management**

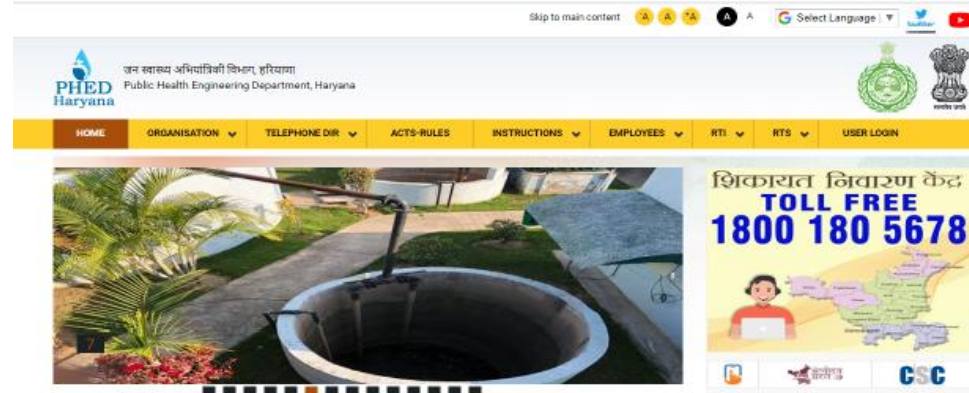
Sr. No.	Description	Detail
1.	Name of Company / Dealer / Firm	
2.	Name of Proprietor or partners	
3.	Permanent address of the company /Dealer / Firm / Proprietor	
4.	Name of authorized representative	
5.	Telephone No. Office: Residence	
6.	E-mail address	
7.	Vehicle number	
8.	Maximum Capacity of Vehicle to carry Sludge in Kiloliter	
9.	Type of Vehicle to be used as tanker: 1. Tractor with container and suction pump. 2. Truck with fixed container and suction pump. 3. Any other (please specify)	
10.	Registration fee of Rs. 500/- (non refundable) per vehicle	Deposited vide receipt no. dated _____
11.	Registration No. ( To Provided by PHED)	

## USERMANUAL FOR REGISTRATION OF DE-SLUDGING AGENCY

In  
Public Health Engineering Department, Haryana

I / We ..... as owner/ representative of the M/s..... certify and undertake work as under :-

- That I / We are working in ..... City/village (s) and are in possession of suction machine installed my/ our vehicle bearing Registration No. .... which is used for suction of waste from un-sewered areas/ and single pits/ septic tanks of rural areas.
- That I / We undertake that the waste will not be disposed off anywhere except the location (.....) identified by Executive Engineer, Public Health Engineering Division, .....







FGD with De-Sludge Operators- Sonipat

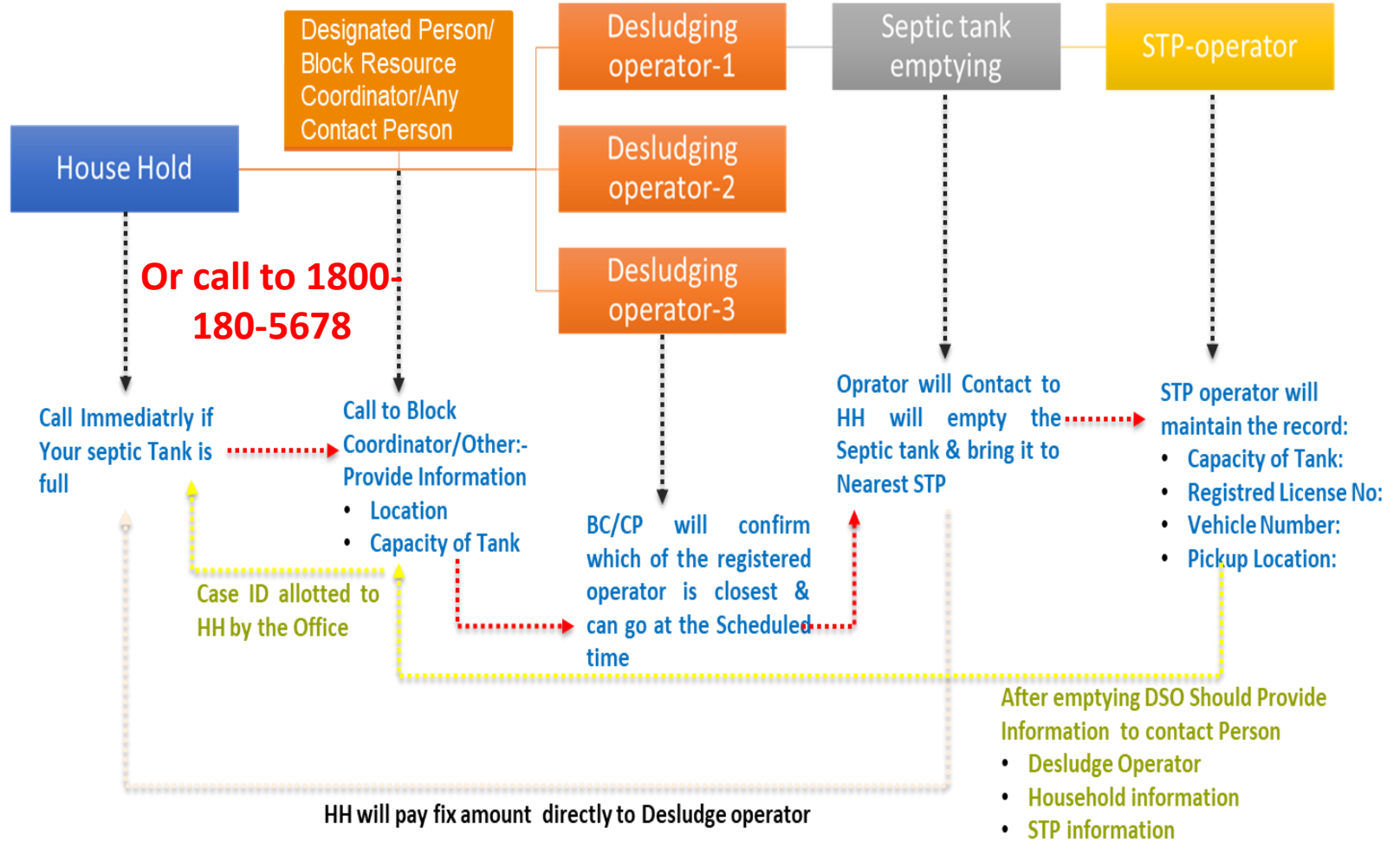


FGD with De-Sludge Operators- Faridabad & Hisar



# Flow-Chart of Cotreatment Process

- Haryana State is trying to popularise the toll-free number 1800-180-5678 among citizens for de-sludging services of toilet pits.
- The facility will connect households with licensed de-sludgers in the areas.
- These licensed de-sludgers will empty the pits at fixed charges and dispose of the collected fecal matter at designated locations STPs for treatment.



# State Fecal Sludge management plans for 2024-25



एक कदम स्वच्छता की ओर

- Successful implementation of De-sludging guidelines in the state and ensure registration of all the private de-sludgers working in the state.
- Construction of all 120 co-treatment units at STPs by June 2024.
- Plan to make the de-sludging vehicles **GPS enabled** for better monitoring.
- Prepare FSM Dashboard** of the state for better learning, monitoring and future planning on FSTPs.
- In 2024-25 the state is planning to establish 23 Faecal Sludge Treatment Plants in all the districts.
- Popularise the toll-free number for de-sludging services in the state.

**THANK YOU**