

# Checklist for Assessment of Pumping Stations to Use as Decanting Facilities

**Assessment objective:** This assessment aims to assess the feasibility of converting existing sewage pumping stations into decanting stations to allow FS addition into the sewer network. A separate assessment of STP capacity and performance is also being undertaken to understand the feasibility of co-treatment at each STP.

**Assessment Target:** Pumping Stations of Sewer Network in Cities/Towns. One questionnaire should be used for each sewage pumping station in the city/town. If there is more than one pumping station per town, please use separate checklist for each of the pumping station.

**Assessment Information:** The assessment will be carried out by the ULB officials, and findings from the same will be shared with ULB.

<b>I. CITY DETAILS</b>																		
1.	Name of Corporation/Municipality																	
2.	District Name																	
3.	Name of Assessor																	
4.	Designation of Assessor																	
5.	Name of Authorizing Officer																	
6.	Designation and Contact information of Authorizing Officer																	
7.	Mobile No.																	
8.	Email id																	
9.	Office address																	
10.	Date of Assessment	<table style="display: inline-table; border: none;"> <tr> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> </tr> <tr> <td colspan="2" style="text-align: center;">DD</td> <td colspan="2" style="text-align: center;">MM</td> <td colspan="4" style="text-align: center;">YY</td> </tr> </table>									DD		MM		YY			
DD		MM		YY														
<b>II. LOCATION AND ACCESS DETAILS</b>																		
1.	Name of the pumping station																	
2.	Type of pumping station (TICK IN THE BOX GIVEN AGAINST THE OPTIONS)	a) Main pumping station <input type="checkbox"/> b) Sub-pumping station <input type="checkbox"/> c) Lift Station <input type="checkbox"/> d) Others (Specify) <input type="checkbox"/> -----																
3.	Pumping station capacity																	
4.	Geo-coordinates of the SPS	a) Lat : b) Long :																

II. LOCATION AND ACCESS DETAILS		
5.	What are different types of influent mains/sewage lines discharging into the SPS?	
6.	Distance of the SPS from the STP? (in km)	<input type="checkbox"/> <input type="checkbox"/>
7.	Length of the sewer mains from the SPS to the STP? (in km)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
8.	What areas within the city are served by the SPS?	
9.	What type of neighbourhood is the SPS located in? (TICK IN THE BOX GIVEN AGAINST THE OPTIONS)	a) Largely residential <input type="checkbox"/> b) Densely populated <input type="checkbox"/> c) Near market area <input type="checkbox"/> d) Outskirt/periphery areas <input type="checkbox"/> e) Others (Specify) <input type="checkbox"/> -----
10.	What is the distance to the nearest residence from the SPS? (TICK IN THE BOX GIVEN AGAINST THE OPTIONS)	a) < 100 m <input type="checkbox"/> b) 100 – 300 m <input type="checkbox"/> c) 300 – 500 m <input type="checkbox"/> d) >500 m <input type="checkbox"/>
11.	Does the access road pass through areas of habitation? (TICK IN THE BOX GIVEN AGAINST THE OPTIONS)	a) Yes <input type="checkbox"/> (Continue) b) No <input type="checkbox"/> (Go to Q.13)
12.	Will there be challenges in passage of vehicle through residential areas / markets etc? (TICK IN THE BOX GIVEN AGAINST THE OPTIONS)	a) Yes <input type="checkbox"/> b) No <input type="checkbox"/>

II. LOCATION AND ACCESS DETAILS		
13.	Type of external access- roads to the pumping station (TICK IN THE BOX GIVEN AGAINST THE OPTIONS)	
	<b>a) Type</b>	<b>b) Width</b>
	i. Single lane <input type="checkbox"/>	i. <3 m <input type="checkbox"/>
	ii. Two lane-undivided <input type="checkbox"/>	ii. 3-4.5m <input type="checkbox"/>
	iii. Two lane-divided <input type="checkbox"/>	iii. 4-7m <input type="checkbox"/>
	iv. Multi-lane <input type="checkbox"/>	iv. >7m <input type="checkbox"/>
	v. Others (Specify) <input type="checkbox"/>	
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		i. Paved and in good condition <input type="checkbox"/> ii. Paved but road condition requires improvement (eroded / potholes) <input type="checkbox"/> iii. Unpaved road <input type="checkbox"/> iv. Others (Specify) <input type="checkbox"/> -----

III. AVAILABILITY OF SPACE AND EXISTING INFRASTRUCTURE	
1.	Does the SPS currently receive fecal sludge?
	a) Yes <input type="checkbox"/>
	b) No <input type="checkbox"/>
2.	If <b>YES</b> , since when (Year) has the SPS been receiving fecal sludge?
	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
3.	On an average, how many trucks empty fecal sludge in a day at the SPS?
	<input type="checkbox"/> <input type="checkbox"/>
4.	What is the average capacity of the trucks that empty fecal sludge at the SPS? (in litres)
	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

III. AVAILABILITY OF SPACE AND EXISTING INFRASTRUCTURE		
5.	Average volume of fecal sludge received in a week (in MLD)	<input type="checkbox"/> <input type="checkbox"/>
6.	What are challenges faced by the SPS in receiving fecal sludge? For example, poor external and internal access, odour, lack of human resource, etc	
7.	Is the internal access road to pumping station wide enough for the septage truck (3.5 m width, 9 m length, dimensions to be confirmed) movement? (TICK IN THE BOX GIVEN AGAINST THE OPTIONS)	a) Yes <input type="checkbox"/> b) No <input type="checkbox"/>
8.	Is there enough space within the pumping station premises for a septage truck (3.5 m width, 9 m length, dimensions to be confirmed) to enter, turn around and exit? (TICK IN THE BOX GIVEN AGAINST THE OPTIONS)	a) Yes <input type="checkbox"/> b) No <input type="checkbox"/>
9.	Is there a point such as collection well etc. in which the septage trucks can empty septage/ fecal sludge/ sewage from ground level (TICK IN THE BOX GIVEN AGAINST THE OPTIONS) – Refer to photo provided in Annexure 1	a) Yes <input type="checkbox"/> (Go to Q.11) b) No <input type="checkbox"/> (Continue)
10.	If the response ' <b>NO</b> ' to above question, can a simple ramp be constructed for the trucks to empty? (TICK IN THE BOX GIVEN AGAINST THE OPTIONS)	a) Yes <input type="checkbox"/> (Go to Q.12) b) No <input type="checkbox"/> (Go to Q.12)
11.	<b>(OPTIONAL)</b> If <b>YES</b> , approximate cost of the ramp in Rs. Lakhs:	

III. AVAILABILITY OF SPACE AND EXISTING INFRASTRUCTURE		
12.	Existing Infrastructure for Pre-treatment	
	<b>A. Type</b>	<b>B. Availability</b> <b>C. If Yes in 'B', current working condition</b>
	i. Coarse screen	Yes <input type="checkbox"/> Working <input type="checkbox"/> No <input type="checkbox"/> Needs major refurbishment <input type="checkbox"/>
	ii. Fine screen	Yes <input type="checkbox"/> Working <input type="checkbox"/> No <input type="checkbox"/> Needs major refurbishment <input type="checkbox"/>
	iii. Grit removal	Yes <input type="checkbox"/> Working <input type="checkbox"/> No <input type="checkbox"/> Needs major refurbishment <input type="checkbox"/>
	iv. Screening disposal arrangements	Yes <input type="checkbox"/> Working <input type="checkbox"/> No <input type="checkbox"/> Needs major refurbishment <input type="checkbox"/>
	v. Others (Specify) -----	Yes <input type="checkbox"/> Working <input type="checkbox"/> No <input type="checkbox"/> Needs major refurbishment <input type="checkbox"/>
13.	What is the total area of the SPS? (in m <sup>2</sup> )	<input type="checkbox"/> <input type="checkbox"/>
14.	What is the total built area available at the SPS? (in m <sup>2</sup> )	<input type="checkbox"/> <input type="checkbox"/>
15.	What is the total unbuilt area available at the SPS? (in m <sup>2</sup> )	i. Area covered by trees <input type="checkbox"/> <input type="checkbox"/> ii. Area covered by shrubs, grass <input type="checkbox"/> <input type="checkbox"/> iii. Parking space <input type="checkbox"/> <input type="checkbox"/> iv. Others (Specify) <input type="checkbox"/> <input type="checkbox"/> -----
16.	Attach plan of the pumping station. If plan is not available, hand sketch the layout approximately to scale (Layout of the site should include: Boundary, dimension of existing structure, open space, width of entry/exit points, roads, operator room) <b>Refer plan provided in Annexure 2</b>	

<b>III. AVAILABILITY OF SPACE AND EXISTING INFRASTRUCTURE</b>		
17.	What is the size of the discharge mains from the SPS?	<input type="checkbox"/> <input type="checkbox"/>
18.	Number of pumps at the SPS?	<input type="checkbox"/> <input type="checkbox"/>
19.	Is there existing room/space for operators? (TICK IN THE BOX GIVEN AGAINST THE OPTIONS)	a) Yes <input type="checkbox"/> b) No <input type="checkbox"/>
20.	Is there access to water supply at the pumping station? (TICK IN THE BOX GIVEN AGAINST THE OPTIONS)	a) Yes <input type="checkbox"/> b) No <input type="checkbox"/>
21.	Is there access to toilet and washroom facilities at the pumping station? (TICK IN THE BOX GIVEN AGAINST THE OPTIONS)	a) Yes <input type="checkbox"/> b) No <input type="checkbox"/>
22.	Feasibility for construction of additional infrastructure for pumping station	
	i. Is there space to construct an underground storage tank to receive fecal sludge? (TICK IN THE BOX GIVEN AGAINST THE OPTIONS)	a) Yes <input type="checkbox"/> b) No <input type="checkbox"/>
	ii. If an operator room does not exist, Is there space to construct one? (TICK IN THE BOX GIVEN AGAINST THE OPTIONS)	a) Yes <input type="checkbox"/> b) No <input type="checkbox"/>

<b>IV. PUMPS</b>		
1.	What type of pumps and pumping configuration are used at the pumping station?	
	<b>A. Type (TICK IN THE BOX GIVEN AGAINST THE OPTIONS)</b>	<b>B. No.</b>
	i. Horizontal Pumps in dry pit <input type="checkbox"/>	
	ii. Vertical pumps in dry pit <input type="checkbox"/>	
	iii. Vertical pumps in wet pit <input type="checkbox"/>	
	iv. Submersible sewage pumps in wet pit <input type="checkbox"/>	
2.	Flow meter present (TICK IN THE BOX GIVEN AGAINST THE OPTIONS)	a) Yes <input type="checkbox"/> (GO TO SECTION VI) b) No <input type="checkbox"/> (Continue)
3.	If yes, Flow Meter working (TICK IN THE BOX GIVEN AGAINST THE OPTIONS)	a) Yes <input type="checkbox"/> b) No <input type="checkbox"/>

V. STAFF		
1.	Staff working at the pumping station	
	<b>Designation</b>	<b>Role</b>
a.		
b.		
c.		
d.		
2.	Will there be concern of complaints from neighbourhood because of odour, movement of septage trucks etc. if the pumping station is converted to decanting station? (TICK IN THE BOX GIVEN AGAINST THE OPTIONS)	a) Yes <input type="checkbox"/> (Continue) b) No <input type="checkbox"/>
2a.	If <b>YES</b> , give details	

Signature of the Assessor:

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