

# **The SFD Preparation: On-Field Experience & Challenges**

**Presented by:**

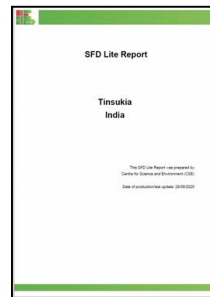
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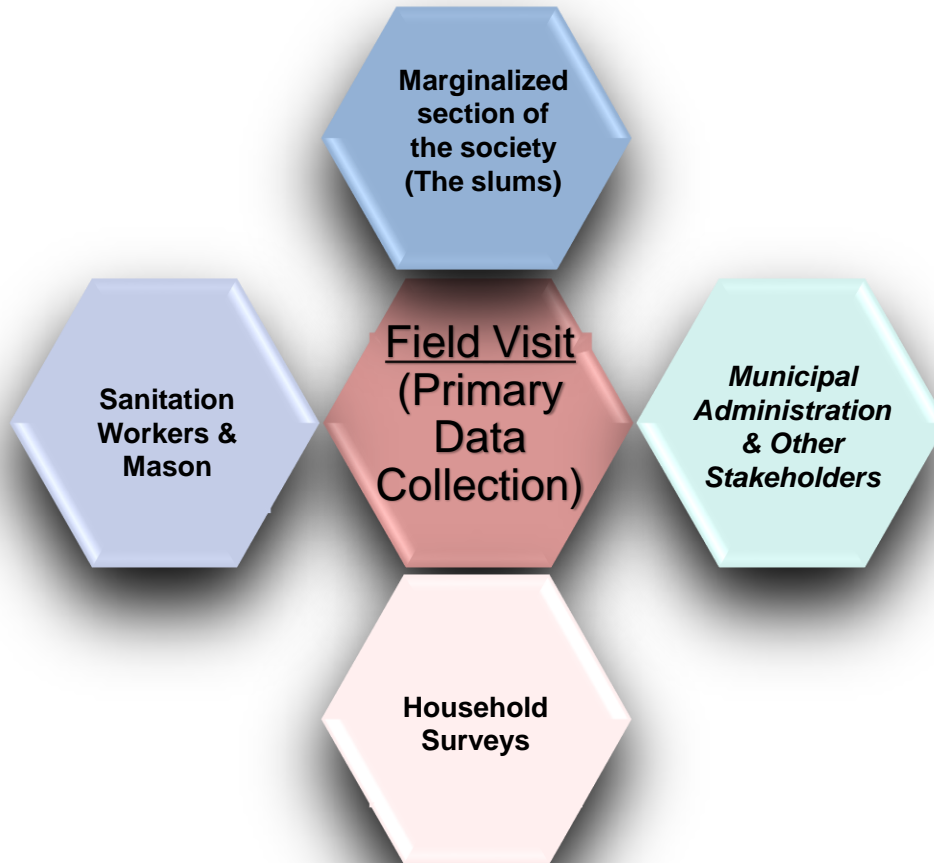
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**Date: 11 July 2023**

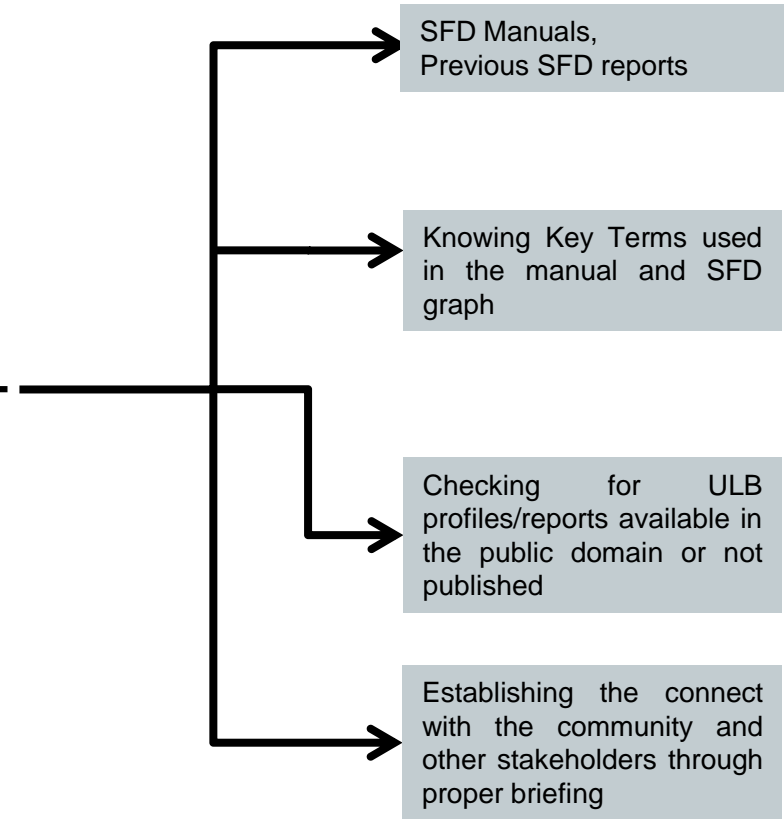
# **SFD Lite Report for Tinsukia ULB, Assam, India (October 2020)**



## When starting with the SFD



### The Preparation



# The Challenge

# DATA?

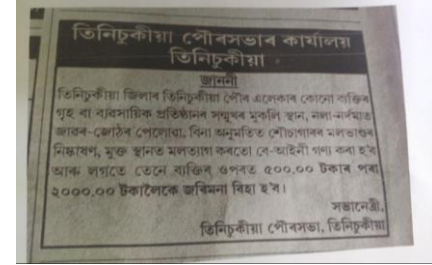
<p><b>Checklist of data required for preparation of SFD</b></p> <p><b>Data Required</b></p> <ol style="list-style-type: none"> <li>1. Population &amp; area of city</li> <li>2. No of household within municipal boundary</li> <li>3. Population growth rate, topography and climate</li> <li>4. Sources of water supply</li> <li>5. Water supply per capita (lpcd)</li> <li>6. Water supply coverage</li> <li>7. No of household &amp; population with latrine facility</li> <li>8. No household &amp; population connected to sewerage</li> <li>9. No of household &amp; population dependent on onsite sanitation</li> <li>10. No of household &amp; population dependent on community toilet/public toilet</li> <li>11. Total no of Community and public toilet</li> <li>12. No of HHs &amp; population practicing open defecation</li> <li>13. Septage generation per day</li> <li>14. Emptying cycle of septic tank of HH in years</li> <li>15. Emptying cycle of septic tank of PTCT in years</li> <li>16. State policy on sanitation</li> <li>17. Institutional roles</li> <li>18. Sanitation scenario in Institutions, Commercial areas, Industrial areas, Restaurants and hotels</li> </ol> <p><b>If sewerage connection is present</b></p> <ul style="list-style-type: none"> <li>• No household &amp; population connected to sewerage</li> <li>• One time connection charges</li> <li>• Monthly charges</li> <li>• Functional status of sewerage network</li> <li>• Capacity of STP (litre per day)</li> <li>• Waste water generated per day in MLD</li> </ul> <p><b>If Septic Tank</b></p> <ul style="list-style-type: none"> <li>• No of HHs &amp; population connected to septic tank whose effluent discharge to drain</li> <li>• No of HHs &amp; population connected to septic tank whose effluent discharge to seepage</li> <li>• No of HHs &amp; population connected to pit</li> <li>• No of HHs &amp; population with no containment ?</li> <li>• Type of septic tank prevalent in city</li> <li>• If with mission to know about septic tank design over time</li> <li>• Primary survey to have info about containment systems</li> </ul> <p>HHs &amp; population with no latrine facility and dependent on public or community toilets</p>
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**“SOURCE”**





# The Field Experience

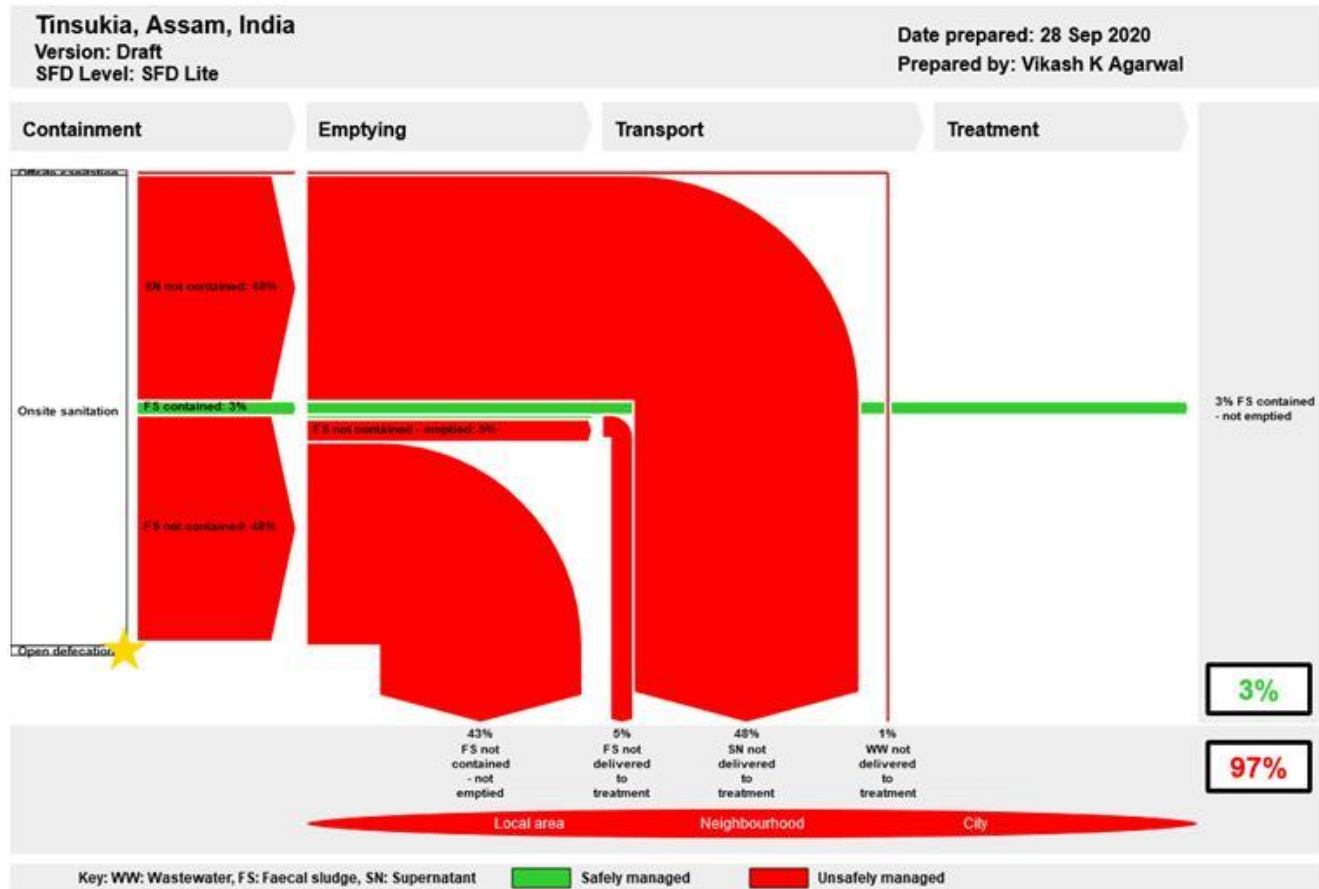


Septic Tank size			
L (in feet)	B (in feet)	D (in feet)	Chambers
10/12/14/18	6/8	6/8	3
6	4	8	3
12	4	6	3
8	5	6	3





# The SFD Graphic



## Impact from the SFD study

**2020-2021:** Introduction of Vacuum truck/Cesspool for emptying services on a chargeable basis; The publication of the study coincided with the state government introducing Cesspool vehicles in major ULBs across Assam



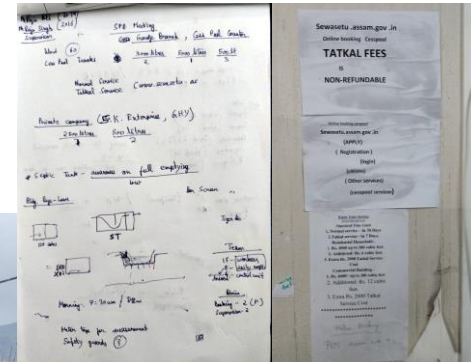
*Cesspool vehicle in use in Tinsukia ULB*

Blog published on the basis of SFD study on Down to Earth creating awareness amongst masses: “Tinsukia’s poor domestic wastewater management paints situation of looming water crisis across Assam” (<https://www.downtoearth.org.in/blog/water/tinsukia-s-poor-domestic-wastewater-management-paints-situation-of-looming-water-crisis-across-assam-83179>)

**2021:** With support from a Tinsukia-based web portal channel, Assam First, a four-series episode on ‘Swaccha ki aur, ek kadam’ focusing on sanitation issues in Tinsukia ULB was telecast based on the findings from the SFD study



**2023: SFD for Guwahati (Assam) (the largest city in North East (population-wise)) and Goalpara (Assam) to be initiated and executed with CSE's support**  
***The state government of Assam under SBM (U) is setting up 32 FSTPs in 31 ULBs. Tenders have been floated and work allocated in many of them***





# RSTPL

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# Thank You!