

FSM Infrastructure Assessment – Questions related to SFD

S.NO	DATA LIGHT	DATA INTENSIVE	
1	Name of the person and organization entering the data	Name of the person and organization entering the data	
2	Name of the urban area	Name of the urban area	
3	Province or State	Province or State	
4	Country	Country	
5	Population of the urban area		
6	Total number of households in the city		
HOUSEHOLD			
7	Number of households with access to individual household toilets in the city? (Secondary information / KII)	Do you have toilet in your house? If no, do you have access to community toilet? Where is it located? What is the total population of your HH? Do all members of your household make use of	
	community toilets in the city? (Secondary information / KII)	the HH / community toilet? If no, how many family members access them? (Primary Survey – GPS enabled)	
9	Average size of the household?		
COMMERCIAL, INSTITUTIONAL AND INDUSTRIAL BUILDINGS			
12	Total number of commercial, institutional and industrial buildings in the city? (Eg: including schools, universities, prisons, government buildings, religious buildings such as temples/mosques/chuches/etc., offices, shopping complex, theatres, hotels, restaurants, marriage halls, community halls, manufacturing units, factories, etc)		

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	(Secondary information / KII)	
13	Number of commercial, institutional and industrial buildings with toilet facilities within the premise in operational condition? (Secondary information / KII) Number of commercial buildings with	Does the commercial / institutional / industrial building have access to toilet facility within the premise in operational condition? If no, Does the commercial building have access to community toilet facility? Where is it located?
	access to community toilet facilities?	(Primary Survey– GPS enabled)
	(Secondary information / KII)	
PUBLIC	PLACES	
17		Name all the key public areas in your city? (Railway stations, public transit areas, markets, bus stations)
		(Primary Survey– GPS enabled)
18	Total number of public toilets available in the city?	Number of toilets available in each of the public area in the city? (Primary Survey– GPS enabled)
CONTAI	NMENT SYSTEM - SAFE SANITATION SY	STEMS (Applicable to all toilet facilities)
23	DATA LIGHT: Identify all the type of onsite sanitation systems in your city? (Secondary information / KII) DATA INTENSIVE: Identify the type of onsite sanitation system in your property? (Primary survey – gps enabled)	
	(Tech A)	
	 No onsite container, toilet discharges directly to destination given in Tech B Septic tank Fully lined tank (sealed) Lined tank with impermeable walls and open bottom Lined pit with semi-permeable walls and open bottom Unlined pit Pit (all types), never emptied but abandoned when full and covered with soil Pit (all types), never emptied but abandoned when full and NOT adequately covered with soil Toilet failed, damaged, collapsed or flooded. 	

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	 Containment (septic tank or tank or pit latrine) failed, damaged, collapsed or flooded Open defecation 			
24	DATA LIGHT: Identify all the type of technologies to which the OSS is connected in your city? (Secondary information / KII)			
	DATA INTENSIVE: Identify the type of technology to which the OSS is connected in your property? (Primary Survey– GPS enabled)			
	(Tech B)			
	 To centralized combined sewer To centralized foul/separate sewer To decentralized combined sewer To decentralized foul/separate sewer 			
	 To soak pit To open drain or storm sewer. To water body To open ground To 'don't know where' No outlet or overflow 			
25	What is the average depth at which groundwater is available in your city? (Secondary information / KII)	What is the depth at which groundwater is available in your property? (Primary Survey– GPS enabled)		
	<5m 5-10m >10m	 <5m 5-10m >10m 		
	Identify the total population / percentage dependent on each technology combination (Tech A + Tech B) (Secondary information / KII)	The survey conducted would be automatically collated and the percentage dependent is calculated automatically with the support of IT backbone		
26	What is the average desludging frequency of OSSs by typology in the	When was the OSS constructed? (Primary Survey– GPS enabled)		
	CITY? (Secondary information / KII)	Have you desludged your OSS before? (Primary Survey– GPS enabled)		

ATHENA INFONOMICS

S.NO	DATA LIGHT	DATA INTENSIVE
		What is your desludging frequency of OSS? (Primary Survey– GPS enabled)
27	DATA LIGHT: What is the predominant rock type in the unsaturated zone of your city? (Secondary information / KII)	
	DATA INTENSIVE: TO be discussed with the SFD Developers?	
	 Fine sand, silt and clay. Weathered basement. Medium sand. Coarse sand and gravels. Sandstones/limestones fractured rock. 	
28	What is the percentage of sanitation facilities that are located <10m from groundwater sources?	Is your OSS located <10m from groundwater sources? (Primary Survey– GPS enabled)
	(Secondary information / KII)	
29	What is the percentage of sanitation facilities, that are located uphill of groundwater source?	Is your sanitation facility located uphill of groundwater source? (Primary Survey– GPS enabled)
	(Secondary information / KII)	
30	What is the percentage of drinking water produced from groundwater sources?	What % of your monthly water consumption is from groundwater source?
	Greater than 25%.Between 1% and 25%.0%.	Greater than 25%.Between 1% and 25%.0%.
	(Secondary information / KII)	(Primary Survey– GPS enabled)
31	What is the water (groundwater) production technology used?	What is the water (groundwater) production technology used in your house?
	 Protected boreholes, protected dug wells or protected spring where adequate sanitary measures are in place. Unprotected boreholes, dug wells or springs. 	 Protected boreholes, protected dug wells or protected spring where adequate sanitary measures are in place. Unprotected boreholes, dug wells or springs. No groundwater sources used.

Commented [K1]: We would like to understand from your expertise that how do cities normally identify the kind of rock type in the unsaturated zone of the city? Is there some methodology that we can provide as guidance that the enumerators can adopt during the primary surveys?

ATHENA INFONOMICS

S.NO	DATA LIGHT	DATA INTENSIVE			
	No groundwater sources used. (Secondary information / KII)	(Primary Survey– GPS enabled)			
ΕΜΡΤΥΙ	EMPTYING & TRANSPORTATION				
(The following questions 42, 43, 44, 45 are applicable only to select respondents based on OSS technology combination)					
41	Identify proportion of the contents of each type of onsite container which is faecal sludge? (KII) Septic tanks Fully lined tanks (sealed) Lined tanks with impermeable walls and open bottom; and all types of pits				
42	Identify the total population / percentage of OSS technology combination (Tech A + Tech B) that is emptied?	Covered previously			
43	Identify the total percentage of fecal sludge reaching the treatment plant? (KII)				
44	Identify the total percentage of WasteWater (WW) reaching the treatment plant? (KII)				
45	Identify the total percentage of open drain or storm sewer reaching the treatment plant? (KII)				
TREAT	IENT				
(The following questions 52, 53, 54 are applicable only to select respondents based on OSS technology combination)					
52	Identify the total percentage of fecal sludge that is treated? (KII)				
53	Identify the total percentage of Waste Water (WW) that is treated? (KII)				
54	Identify the total percentage of open drain or storm sewer that is treated? (KII)				