FSM Programme in Southern Bangladesh

18 January 2015

Netherlands

Development

Organisation



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SMART DEVELOPMENT WORKS

The Project ...

Project Name: Demonstration of pro-poor market-based solutions for Faecal Sludge Management in urban centers of Southern Bangladesh

Project duration: 2014-17

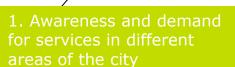
- Project area: Khulna City Corporation, Jhenaidah and Kushtia Paurashavas
- Funded by: Bill and Melinda Gates Foundation (& DFID)

Implemented by: SNV Netherlands Development Organisation

Implemented under leadership of City Corporation, Jhenaidah and Kushtia Paurashavas



Four implementing components engaging different stakeholders





Work with People Community, Schools and Businesses







4. Informed choice of treatment and re-use solutions, good operation and maintenance 2. Safe and affordable sanitation services for toilet construction and emptying



Emptiers and Toilet Builders





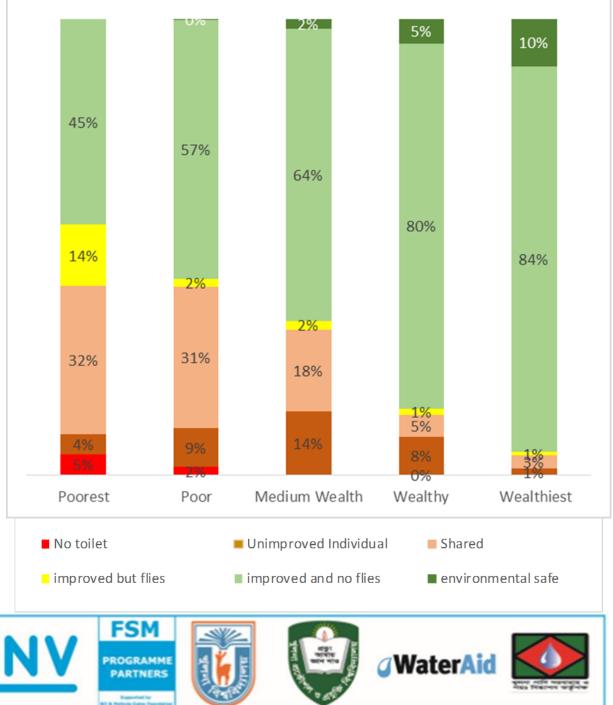
Investors, KWASA

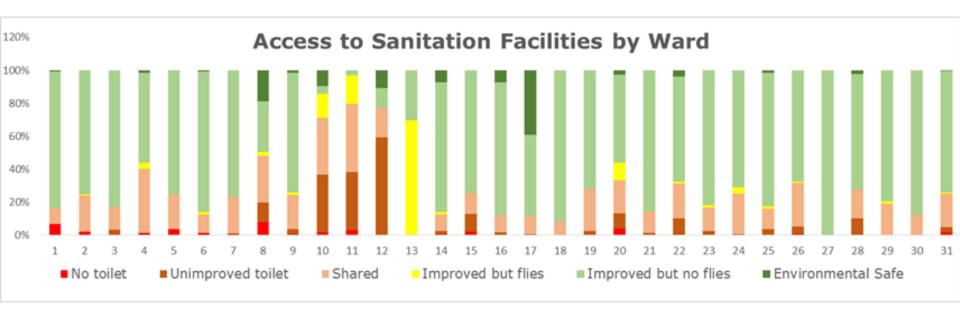
Indicator 1: Progress

in access to sanitation

facilities

QIS Ladder: Indicator 1	4	Environmentally safe toilet (septic tan with soak well)		
	3	Improved individual toilet without access by flies (with water seal); Septic tank without soak-well		
	2	Improved individual toilet but accessible by flies (no or broken water seal)		
	1b	Shared Toilet (more than 1 household)		
	1 a	Unimproved toilet (as per JMP)		
	0	No toilet/ Open Defecation / Use Niebuhr's one		

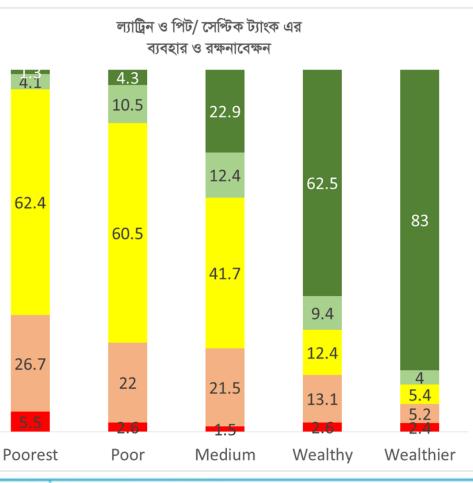






Indicator 2: Progress in hygienic use & maintenance of sanitation facilities

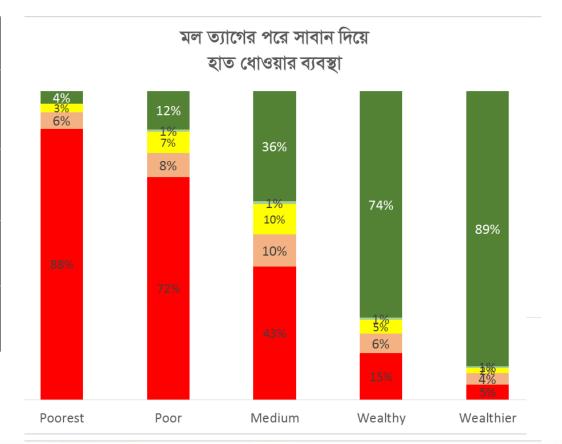
QIS Ladder: Indicator 2	4	Used, functional, clean toilet with running water and privacy	
	3	Used, functional & clean toilet, but no running water and lack of privacy (e.g. no light inside, door lock not functional)	
	2	Used & functional, but not clean (e.g faecal smears are visible on pan/ floor), no water inside toilet, doors/ walls are not in place	
	1	Toilet is in use as a toilet but not functional (no, broken or blocked water seal)	
	0	No toilet or Toilet exists but not in use as toilet	





Indicator 3: Progress in access to Hand Washing With Soap after defecation

QIS Ladder: Indicator 3	4	Hand Washing Station with Soap and running water			
	3	Hand Washing Station with Soap & without potential contamination of water (e.g. tippy tap)			
	2	Hand Washing Station with Soap, bu potential contamination of water (stored in container or bowl)			
	1	Hand Washing Station at accessible distance and water available, but no soap			
	0	No Hand Washing Station (HWS) within accessible distance (10 ft)			





Indicator 4: Progress in FSM- emptying and collection

			Emp	otying and conv	eyance against	wealth quintiles	in Khulna
	4	Safe emptying and collection: Mechanical emptying, no entering into pit, used protective gear; compost storage more than 6 mths	0.1% 7%	0 <u>18%</u>	0 ₄ 4%	1%	007%
er: Indicator 4	3	Particaly safe emptying: Manual emptying with protective gear; Compost disposed before 6 mths of storage	80%	76%	79%	90%	98%
QIS Ladder:	2	Unsafe emptying: Someone enters pit and/or did not use protection gear					
Ø	1	On-site storage but no emptying for last 3 years		100/			
	0	No toilet or no on-site storage (unimproved toilet)	13% Poorest	18%	17% Medium	9% Wealthy	v Wealthier

Safe FSM emptying or conveyance

Partially safe FSM emptying or conveyance

Mostly safe FSM emptying or conveyance

Unsafe FSM emptying or conveyance

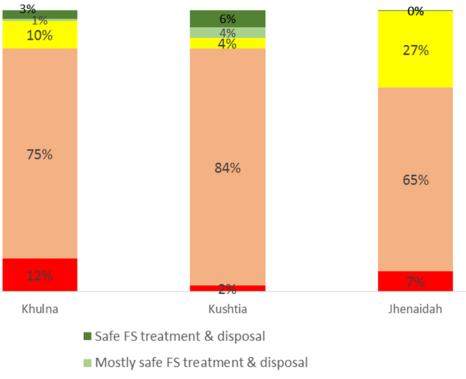
No practice of FSM emptying or conveyance



Indicator 5: Progress in FSM- treatment, re-use and disposal

QIS Ladder: Indicator 5	4	Pre-treatment with safe final disposal; Composted using Twin-pit latrine but withdrwan after 6 months	
	3	Pre-treatment with partially safe disposal; [Composted using Twin-pit latrine but withdrwan before 6 months]	
	2	Pre-treatment with unsafe disposal (known where Faecal sludge is disposed off)	
	1	Not emptied; Unsafe treatment and don't know where Faecal Sludge disposed off	
	0	No toilet or no on-site storage (unimproved toilet)	

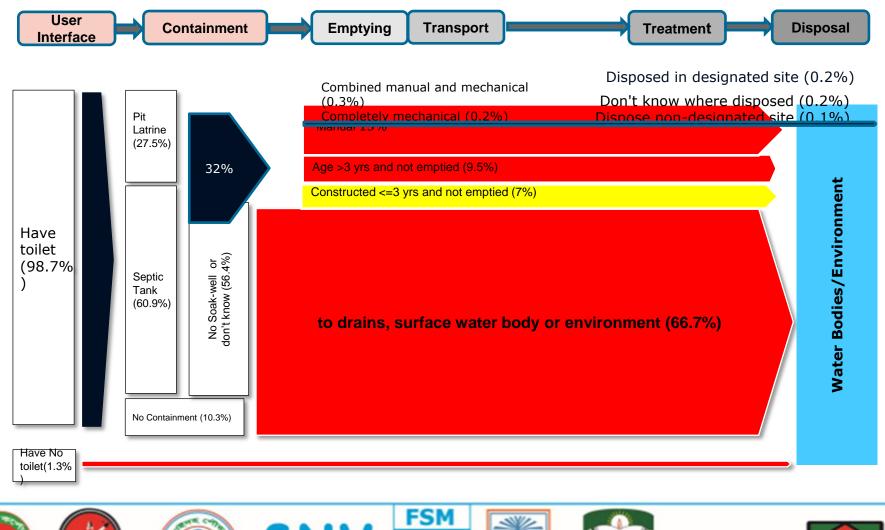
PROVISION OF FAECAL SLUDGE TREATMENT AND DISPOSAL OR REUSE



- Partially safe FS treatment & disposal
- Environmentally unsafe FS treatment & disposal
- No practice of FS treatment or disposal



Shit Flow Diagram: Khulna

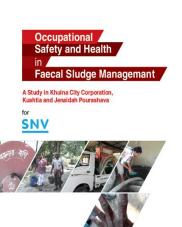








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gladesh Occupational Safety, Health and Environment Foundation OSHE)

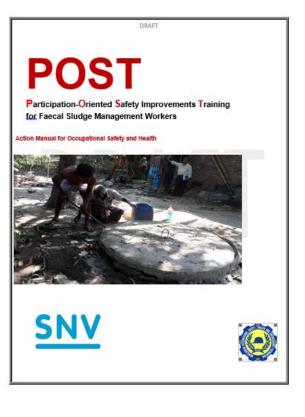
SNV

Research and Studies

- Baseline to assess the current FSM situation in the cities (URP, KU)
- Review of existing policies, laws and strategies for use of fecal sludge in aquaculture (DFMR, KU)
- Action research for upgrading technology (containment at household level) (EAWAG)
- MDA: Market driven approach to FSM (treatment plant end-products) (EAWAG)
- Quick Demand scan in vulnerable areas (BOP Inc)



Capacity building and development of tools/manuals



- Development of Guidelines/Standards
 for occupational health and safety for
 FS emptying and transportation
 (Bangladesh Occupational Safety,
 Health and Environment Foundation)
- Vacutug Operation & Basic Maintenance for MK-II - MK-VII (MAWTS)
- establishing a methodology for Shit

Flow Diagrams (SFD) (EAWAG)



Implementation, coaching, demonstration projects

- Contract for supporting the selection, design, construction and operation of Short term Treatment
 Options and documentation of the same in 3 towns) (AIT & KUET)
- Pilot FSM value chain in particular ward (WAB)
- Inclusion of FS within SW/MW STS being planned in Khulna (KCC & ADB)
- Pilot D-bag and Geobag for dewatering Faecal sludge as immediate solution (TenCate)



Program management and monitoring

- Performance Monitoring Indicators
- Baseline (Impact and Outcome Indicators)
- Programme Monitoring and Evaluation Tool



Led World Toilet Day celebration in 3 towns



Hosted Regional Learning Event on FS emptying and transportation (Dec 7-10)



