City Wide Septage Management Planning Tool

"Introduction & Session Details"

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Septage Management: recognised, and

its role growing...

Eg. 38% urban households use septic tanks (2011)...

India Policy & Acts – National Urban Sanitation Policy...





Innovations in desludging / emptying equipment

Problems still persist in disposal & environmental safety









RC





Source: Recent trends in septage management (Adapted), TAC Event in New Delhi, Roland Schertenleib, W+S Consult, 2013

Key Issues in Septage Management











Key factors influencing planning sanitation requirements...city wide perspective











Sanitation Value Chain, closing the loop (liquid & solids)



Institutional Conundrum for SM



Typical Statutory Obligations and Regulations for SM - For Ex. in India

National	 Water (Prevention and Control of Pollution) Act, 1974 The Environment (Protection) Act, 1986 The Prohibition of Employment as Manual Scavengers & their Rehabilitation Act, 2013 Building Codes
State / Province	 Municipal Acts State Water Supply and Sewerage Acts Municipal Drainage and Sanitation Bye-laws Municipality Building Rules
City	 Local Municipal Bye-Laws Building Regulations

Public Health and Sanitation is a part of the 'constitutional responsibility' of Municipalities under 12th Schedule of the Constitution (74th CAA,1992),

Corporate Social Responsibility investments on the upswing









Cross-cutting Dimensions



Planning Tool 2: Exercise Details











Recording Sheet... for participants (consider solid and liquid wastes separately)

Value Chain elements	Gaps and challenges	Actions to overcome challenges			
Access to toilets	High proportion of insanitary toilets	 Phase wise conversion to sanitary toilets Incentives Public sanitation – permanent / transition 			
On-site Storage (Primary treatment)					
Desludging & Transport					
Treatment of Septage & Effluent (Secondary treatment)					
Reuse /& Recycle					

Safe disposal







Pointers for reflection...

Pointers	Pointers	Pointers			
Adequacy of information for decisions	Devolution / transfer of functions	Legislative framework (rights, byelaws, acts,)			
Availability of information (on GIS preferably)	Financial management, revenues, recovery,	Presence of institutions, responsibilities			
Role of Households	Tariff mechanisms	Integration with other sectors			
Role of city	Monitoring and complaints redressal	Inter-departmental co-ordination			
Role of private sector / operators	Capacities of stakeholders	HR issues and institutional size			
Processes clarity	Role of local institutions	Information sharing			
Enforcement of processes	Quality of work				









Moderation Output sheet... (consider solid and liquid wastes separately)

Value Chain	Actions	Actions specific to city types					
elements	city types	Arid		Hilly		Coastal	
Access to toilets	Phase wise conversion to sanitary toilets	1.	Incentives	1.	Public sanitation – permanent / • transition	1.	Communit y level sanitation
On-site Storage (Primary treatment)		1. 2. 3.	 				
Desludging & Transport		1. 2. 3.	 				
Treatment of Septage & Effluent (Secondary treatment)		1. 2. 3.	 				
Reuse /& Recycle		1. 2. 3.	 				
Safe disposal		1. 2. 3.					

Reflection during Moderation ... (categorize actions under different lens)

Nature of cross-cutting dimensions

T – Technical; S – Social factors; F – Finance;
 I – Institutional & Governance; L – Legal & regulation

Possible implementation time for actions

- S - Short term; M - Medium term; L - Long term

Responsibility to undertake actions

- **C** City alone; S State or parastatals alone;
 - **P** Private sector; **CSP** Joint action





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Team Representatives & Facilitators

- WELCOME TO THE WORKSHOP -







