Faecal Sludge Management and Plastic Waste Management in Rural Areas - Availing treatment & processing facilities of ULBs (FSTPs and MRFs)

HOUSING & URBAN DEVELOPMENT DEPARTMENT

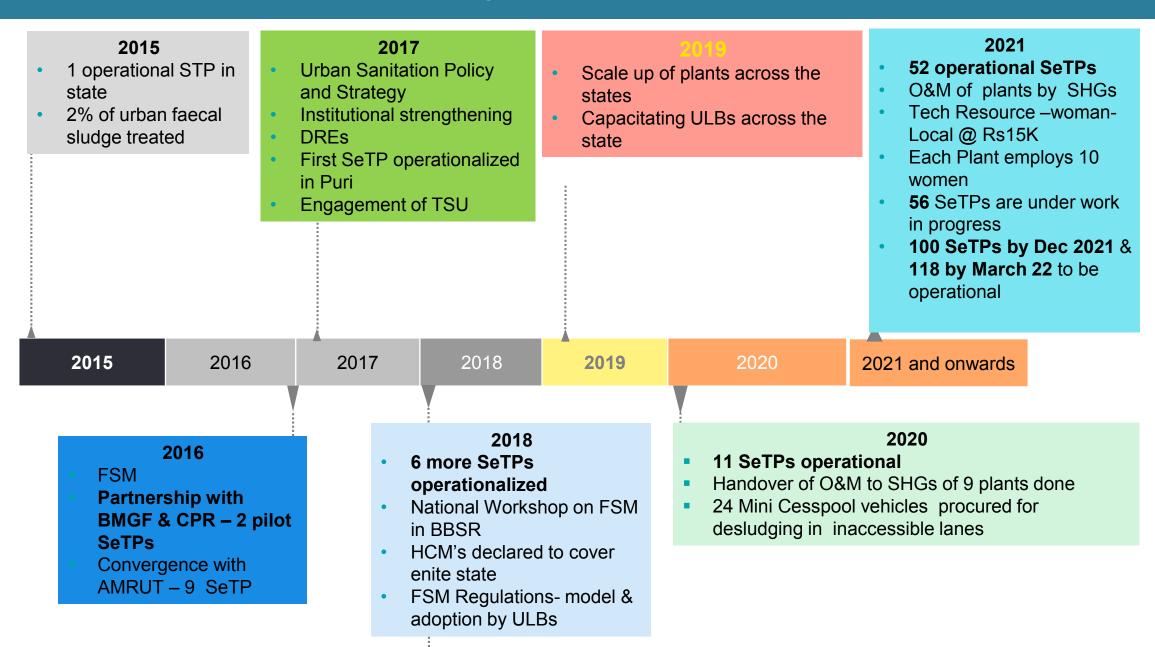


PANCHAYATI RAJ & DRINKING WATER DEPARTMENT

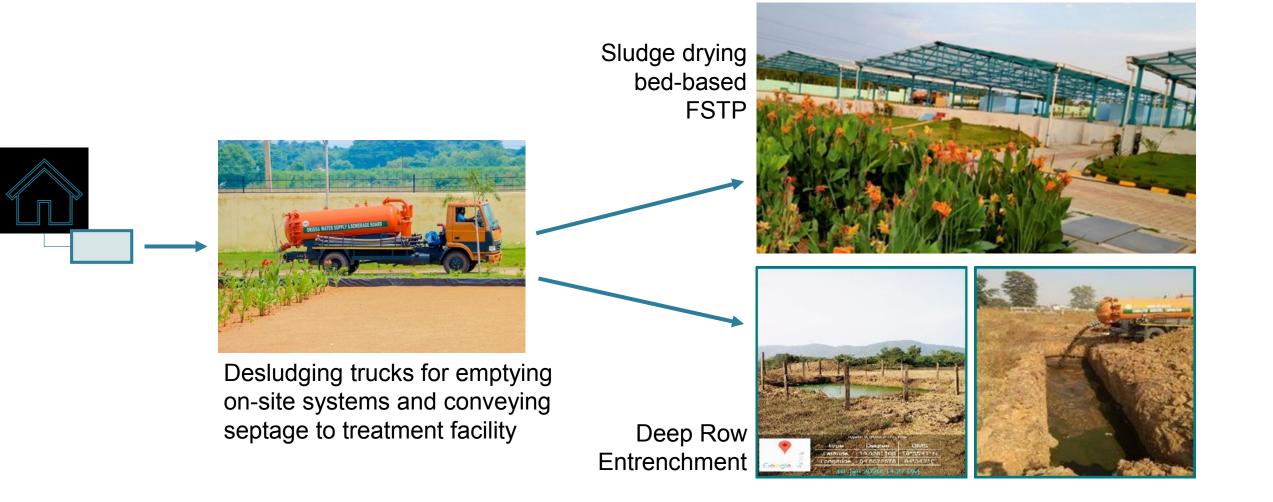




Journey of FSSM in Odisha



Faecal Sludge Management



DREs as an interim solution for safe disposal of faecal sludge

It has already been declared by Ministry of Housing and Urban Affairs that ULBs with less than 20,000 population shall be eligible for ODF++ certification if they have constructed Deep Row Entrenchment



Site selection criteria

Site should be above **High Flood Level**

Site not prone to water logging

Water table should be deeper than 15ft

Minimum distance from surface water body should be 45ft

Soil type should be **porous**

Site terrain should be flat

Minimum distance from **nearest habitation** should be 200 m

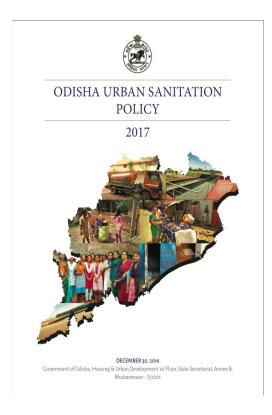
Minimum distance from **town centre** should be more than 15 kms

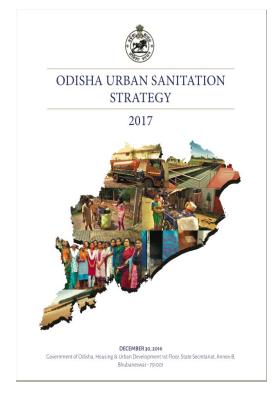
All **weather road** should be present for accessibility of cesspool emptier vehicles

- Deep row entrenchment a tried and tested method for safe disposal of faecal sludge and septage
- Interim low cost solution
- Accepted Practice in Malaysia, South Africa, Sub-Saharan Africa, Thailand, Indonesia
- Periodical testing of ground water to ensure no contamination

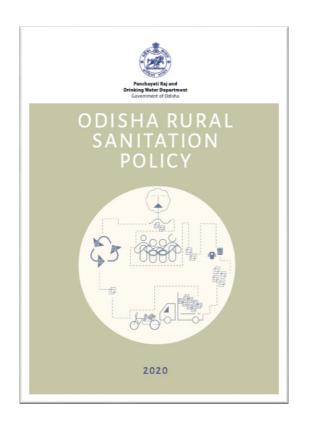
Policy Framework for FSSM interventions

Urban Odisha



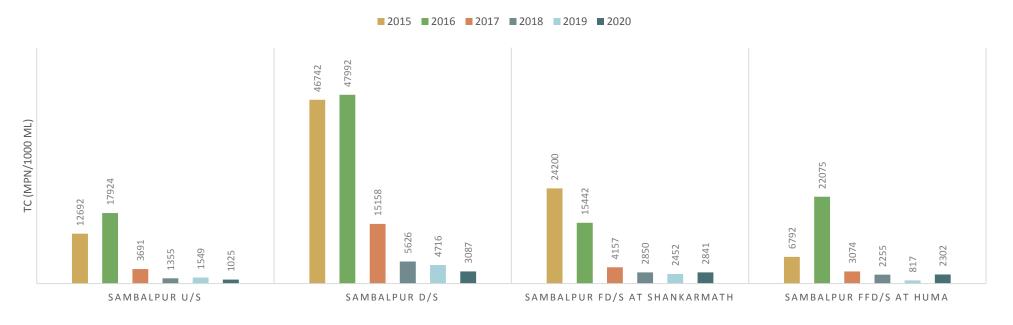


Rural Odisha

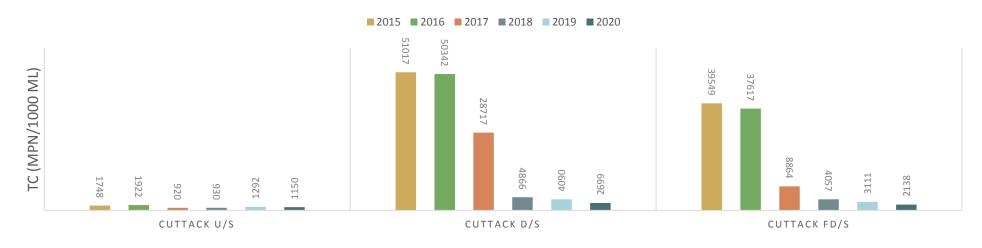


Impact created on River Pollution - Reduction of TC across the years – Sambalpur and Cuttack

MAHANADI RIVER SYSTEM

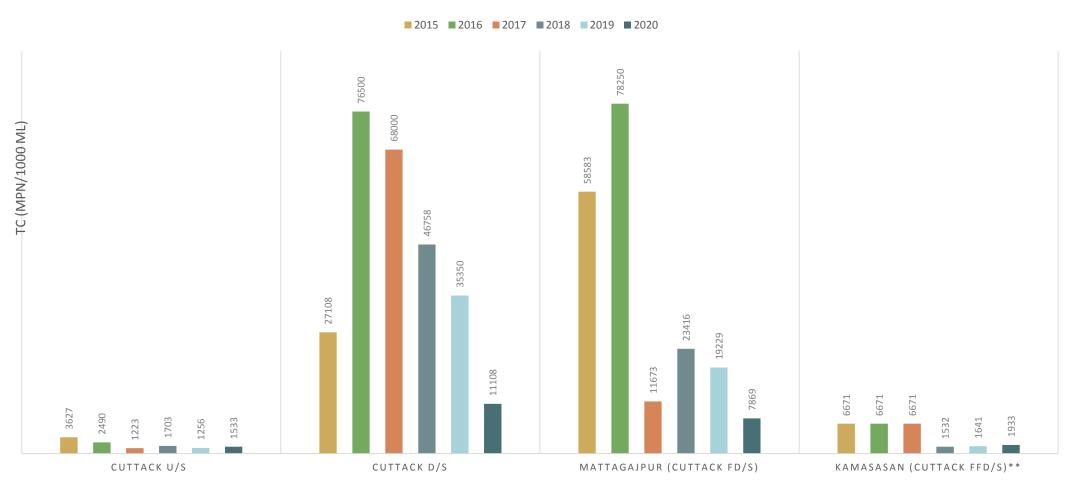


MAHANADI RIVER

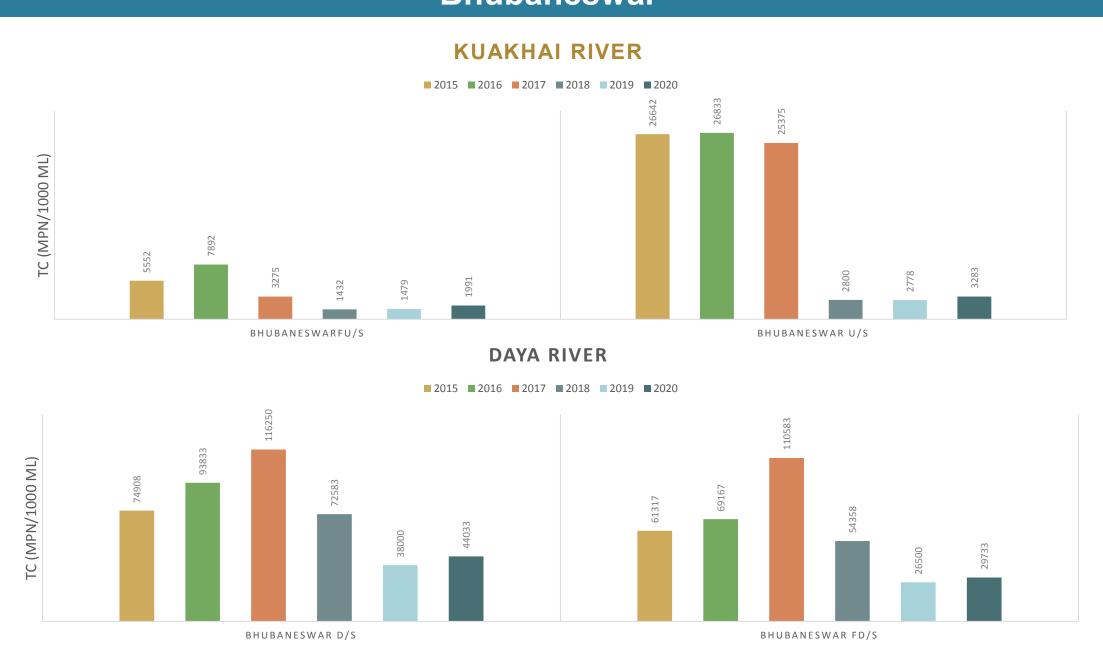


Impact created on River Pollution - Reduction of TC across the years - Cuttack

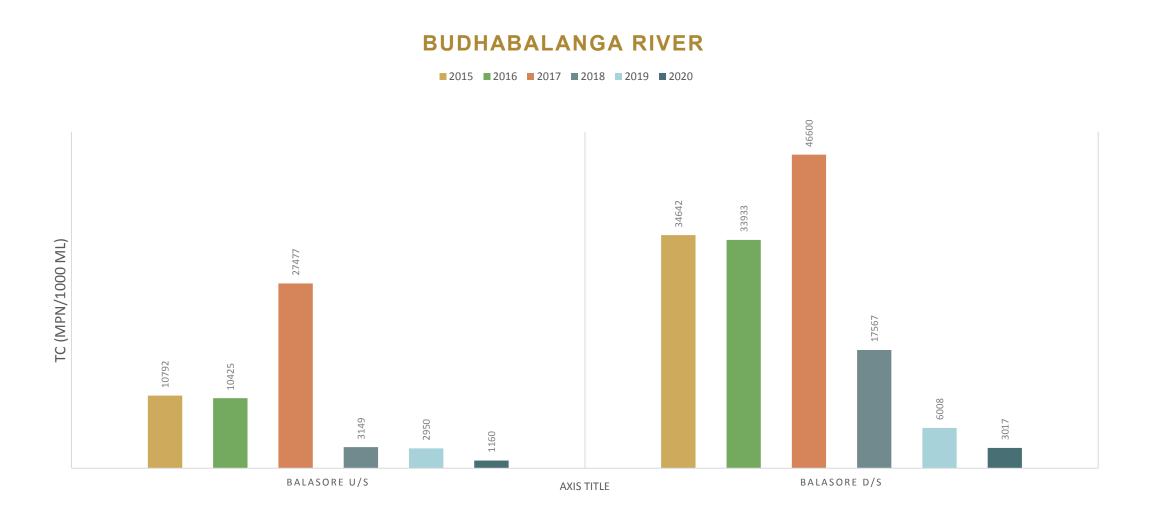




Impact created on River Pollution - Reduction of TC across the years - Bhubaneswar



Impact created on River Pollution - Reduction of TC across the years



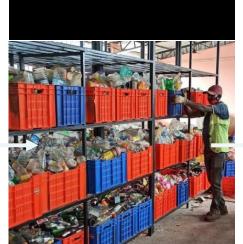
Plastic Waste Management

Collection and conveyance of segregated plastic waste by Battery Operated Vehicles to Wealth Centres



Processing of solid waste at Wealth Centres









Objective of Urban-Rural Partnership to extend FSSM and PWM services to rural areas

To formalize the efforts to ensure district-wide sanitation

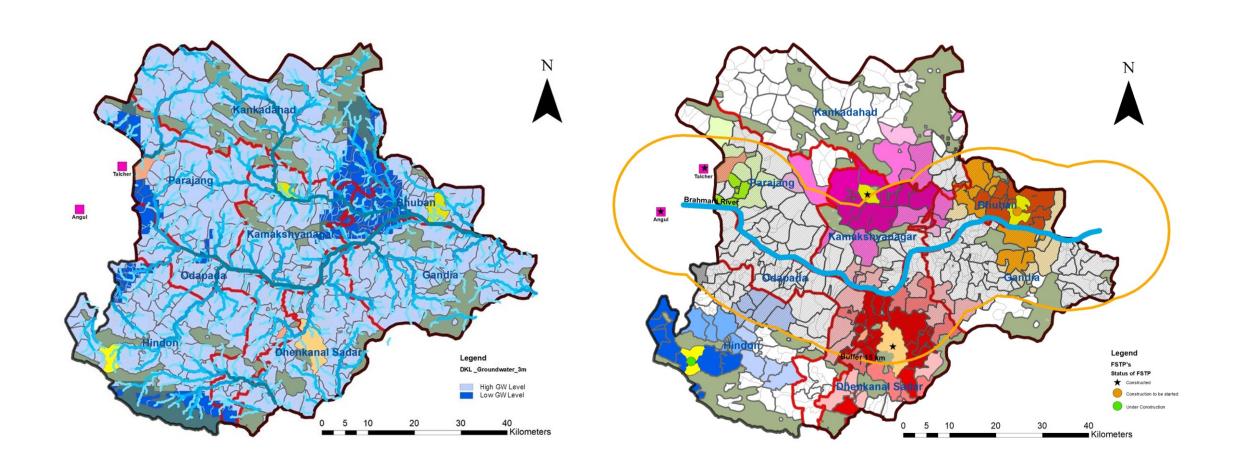
by demonstrating the <u>urban-rural convergence of FSSM</u> and PWM services in seven identified districts for safe management

and further mainstreaming across the state



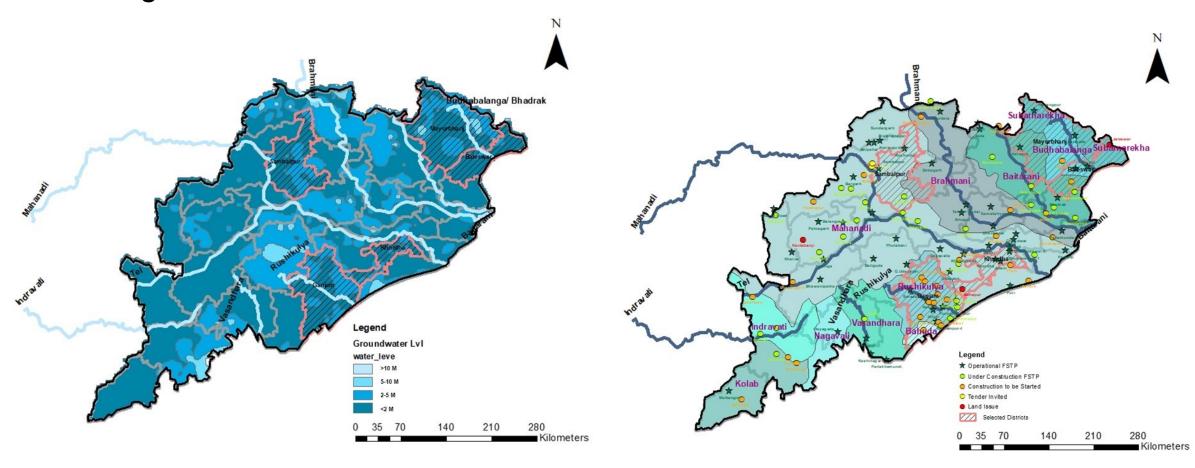


Early pilot in Dhenkanal district demonstrating urban-rural convergence for FSSM



Seven districts selected in Phase I: Angul, Balasore, Dhenkanal, Ganjam, Khurda, Mayurbhanj, Sambalpur

 District Selection focusing on Water Pollution Abatement utilizing data on rivers & basins, groundwater, and FSTP status



List of ULBs (43) in Selected 7 Districts

SI.No	Basin	District	Basin	ULBs
1	Mahanadi & Brahmani	Angul	Brahmani	Anugul
2			Mahanadi	Athmallik
3			Brahmani	Talcher Sadar
4	Subarnarekha & Budhabalanga & Baitrani	Balasore	Budhabalanga	Balasore
5			Subarnarekha	Jaleswar
6			Budhabalanga	Nilagiri
7			Baitarani	Soro
8	Mahanadi & Brahmani	Dhenkanal	Brahmani	Bhuban
9			Brahmani	Dhenkanal
10			Brahmani	Hindol
11			Brahmani	Kamakshyanagar
12	Mahanadi & Rusikulya & Bahuda	Ganjam	Rushikulya	Aska
13			Rushikulya	Belaguntha
14			Rushikulya	Bhanjanagar
15			Rushikulya	Berhampur
16			Rushikulya	Buguda
17			Rushikulya	Chhatrapur
18			Bahuda	Chikiti
19			Rushikulya	Digapahandi
20			Rushikulya	Ganjam
21			Rushikulya	Gopalpur
22			Rushikulya	Hinjili

List of (43) ULBs in 7 Districts

SI.No	Basin (District)	District	Basin (ULB)	ULBs
23	Mahanadi & Rusikulya & Bahuda	Ganjam	Rushikulya	Kabisuryanagar
24			Mahanadi	Khalikote
25			Rushikulya	Kodala
26			Rushikulya	Polasara
27			Rushikulya	Purusottampur
28			Mahanadi	Rambha
29			Rushikulya	Sorada
30	Mahanadi	Khurda	Mahanadi	Balugaon
31			Mahanadi	Banapur
32			Mahanadi	Bhubaneswar
33			Mahanadi	Jatani
34			Mahanadi	Khordha
35	Subarnarekha & Budhabalanga & Baitrani	Mayurbhanj	Mahanadi	Baripada
36			Subarnarekha	Karanjia
37			Baitarani	Rairangpur
38			Subarnarekha	Udala
39	Mahanadi	Sambalpur	Budhabalanga	Kochinda
40			Mahanadi	Rairakhol
41			Mahanadi	Sambalpur
42			Mahanadi	Burla
43			Mahanadi	Hirakud

THANK YOU

HOUSING & URBAN
DEVELOPMENT DEPARTMENT



PANCHAYATI RAJ & DRINKING WATER DEPARTMENT



