



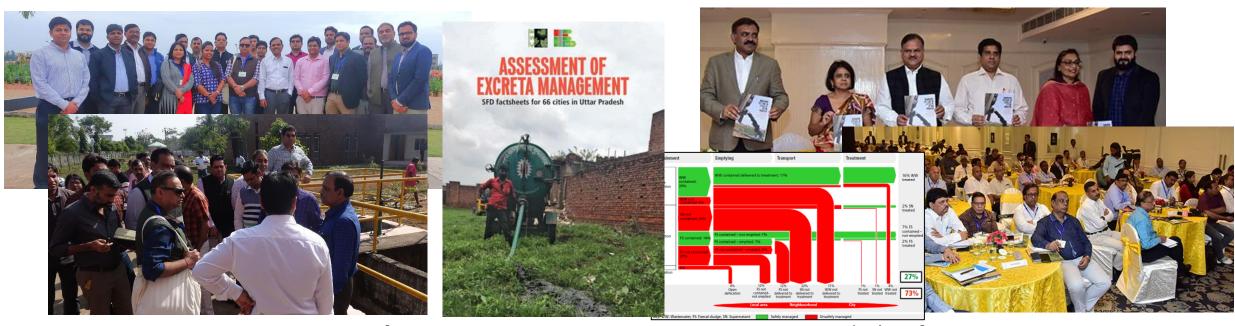






Status Review 15th May 2019

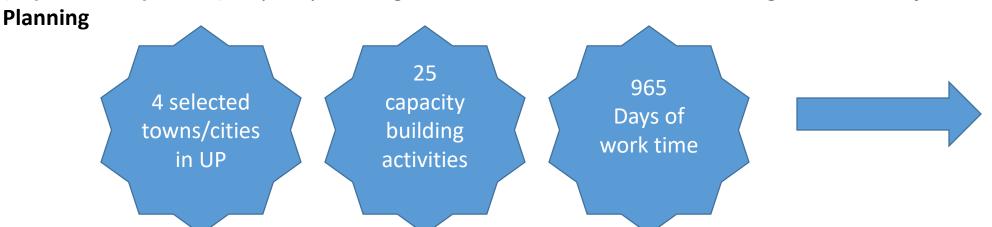
CSE partnership with DoUD GoUP in supporting Effective Faecal Sludge and Septage Management for citywide sanitation



A summary of previous year activities, present status and plan for next year

Snapshot of CSE in Uttar Pradesh...

(Sept 2016 - Apr 2018): Capacity Building of State and Non-State Actors in Ganga Basin for City Sanitation



(Jan 2018 - Apr 2019): Partnership with DoUD (U.P.) in Effective Faecal Sludge and Septage Management for Citywide Sanitation

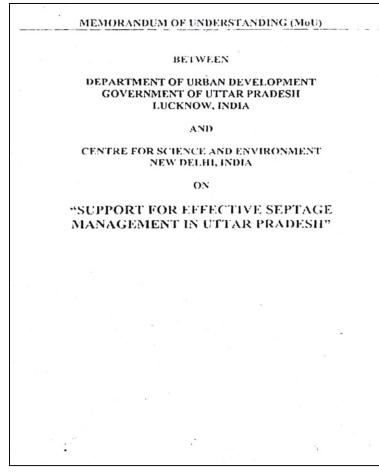


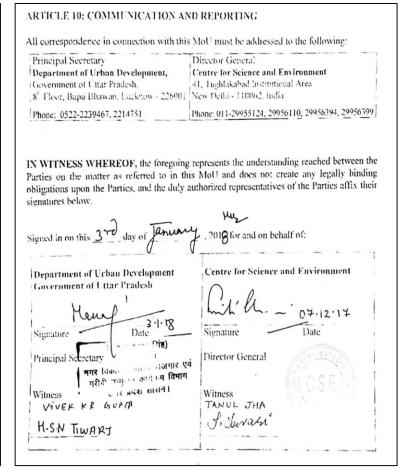
Snapshot of Uttar Pradesh FSSM Progress (2018-19)

- Operationalized FSTP in Jhansi
- Unnao FSTP under construction
- Several city have started registration and licensing of De-sludgers and Co-Treatment at Sewage Pumping Station / STP
- 5 Cities ODF++, 26 Cities ODF+ and 398 Cities ODF (Certified by QCI)
- Funds allocated for the sector through AMRUT, SBM (U)
- Cities keen on initiating effective FSSM like Gangaghat, Saharanpur
- State FSSM Policy / Guidelines under review
- CSE DoUD capacity building partnership under progress

Programme Objective:

Strengthen capacities of UP state and city officials to implement city wide effective Fecal Sludge and Septage Management (FSSM) through State Level Programme Support Unit and City Level Technical Support Unit (2 – Deep-dive Cities)

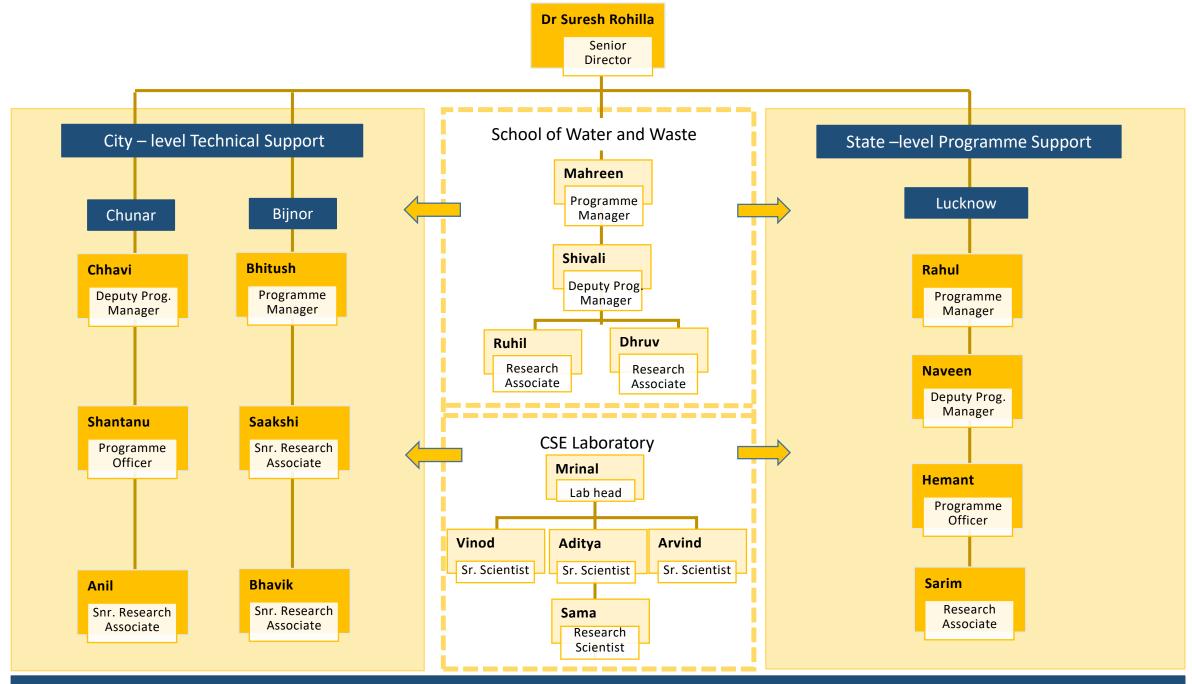




CSE & DoUD

- MoU

Jan 2018



14 member dedicated team; recruiting 4 more people to strengthen State & City support

State-Level Programme Support:

Planned Vs Achieved (2018-19)

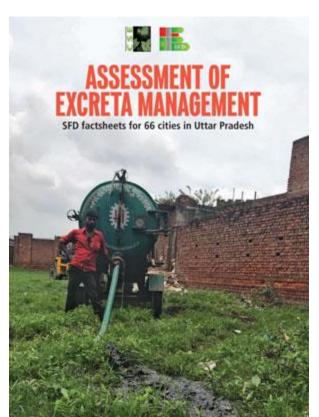
STATE LEVEL SUPPORT: Planned Vs Achieved

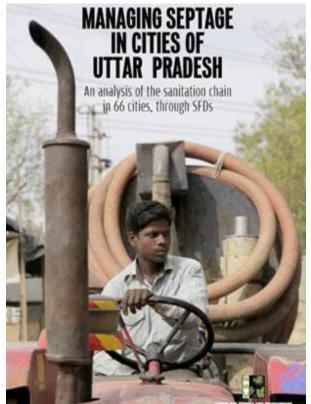
Planned (Jan'18)	Status (May'19)
Develop FSSM guideline / Policy for City-wide sanitation.	 FSSM Guidelines – submitted Feb'18 Draft FSSM Policy – submitted March'19 Septage Management 'Practitioner's Guide' – distributed to all 60 cities Report on Co-Treatment being finalized
Setup helpdesk for regular support for State and City Officials	
Conduct sensitization workshop for state and non-state actors on the status and the path to ODF++	1) State Workshop 'Planning and implementing effective septage management - Supporting city's journey beyond ODF and improved river health in U.P' in Lucknow — 22 nd Oct'18 2) International Knowledge Conclave: SFD Week — 'Designing and Implementing Affordable and Sustainable Citywide Sanitation for all' - 2-5 April'19
conduct trainings to augment capacities of state officials to scale up City Sanitation Planning	1 - National Exposure Visit (Dec'18) and

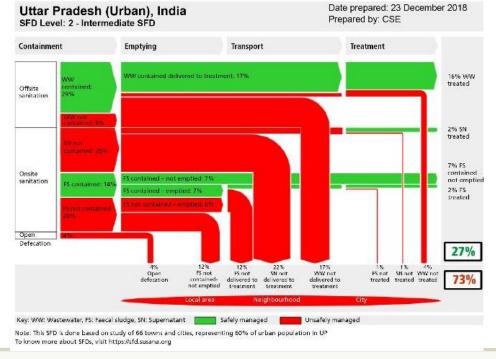


Assessment of Excreta Management 66 Cities in U.P.

- To understand the gaps in sanitation across Ganga basin, Shit Flow Diagram for 66 major cities in the state of Uttar Pradesh are developed
- These SFDs are used to develop the state level SFD and basin level SFD







More than

of the total population is dependent on onsite sanitation systems like septic tank and pit latrine. Out of which, the excreta of 4% of the population is treated

Septic tank effluent (overflow) of

50%

of the population is discharged in open drains, of which, 2% is treated by tapping of nullahs and drains **29%** of the population is connected to sewerage network. Of which, sewage of 16% of the population is treated

More than **80%** of the sewerage network in state is found in 7 cities

(out of 635)

Sanitation provision through sewer system increases with the increase in population of cities

of the population is discharged directly in open drains

Excreta of

of the population still defecates in the open

Excreta of of the total population is safely managed. 7% of which is safely stored in containment systems

No city is

Online Tools to support Citywide Sanitation



A web-based tool for preparing city sanitation plans





MOUNT is an online aggregator platform disseminating knowledge on sustainable technologies and good practices for wastewater and faecal sludge management.



Supporting UPJN in FSTP Tendering in 52 cities

- Reached out to Private Agencies involved in FSTP.
- Tide Technocrates (FSTPs in A.P., Telengana & Maharashtra) and Ionex Envirotech Pvt Ltd (FSTPs in Odisha) applied for the tender.
- In view of the Tenders being cancelled, CSE has reached out to all the agencies and given suggestions on way forward.
 - A **Committee** to finalize structuring & conditions of the Tender and proposed Technology.
 - EOI & Presentation from Technology Providers Option for more Pilot Plants
 - More ULBs involvement Issues related to Emptying & Transportation, Land, Clearances etc
 - Option of more Standalone FSTP tenders.
 - **Co-Treatment**: Standalone tenders with complete information of the STPs

City-Level Programme Support:

Planned Vs Achieved (2018-19)

CITY LEVEL SUPPORT (Focus City (1): Bijnor): Planned Vs Achieved

Planned (Jan'18)	Status (May'19)
Develop Model City Sanitation Plan (CSP) and frameworks for execution of CSPs	CSP endorsed at City Sanitation Task Force Meeting held in Bijnor 13 th Feb'19.
Conduct research to assist city to develop FSSM bye-laws and enforcement mechanisms for containment systems	City FSSM Bye-laws is being finalized. 'State FSSM Policy' at state level would be an enabler for such interventions at city-level
Capacitate truck operators or de sludgers to ensure that they decant the collected sludge in designated treatment sites	City-level training to capacitate planned for this year activity.
Provide technical support in setting up Model Fecal Sludge Treatment Plan (FSTP)	Feasibility for Co-Treatment at existing STP is being studied. Testing and Characterization of Faecal Sludge done.
Conduct City Sanitation Task Force (CSTF) meeting on a rolling basis to ensure the ongoing effectiveness and efficiency in the project's implementation	Conducted CSTF Meeting in 13 th Feb'19. More meetings planned for the coming year.



CITY LEVEL SUPPORT (Focus City (2): Chunar): Planned Vs Achieved

Planned (Jan'18)	Status (May'19)		
Facilitate resource allocation for sanitation of non-sewered areas	NMCG approved funding of Pilot FSTP project in Chunar		
Conduct techno-feasibility studies and identify suitable FSSM technologies and technology providers	Detailed Project Report prepared and approved by NMCG. Technology selected. Identified potential Private vendor interested to implement the project. Conducted FS characterization of Chunar.		
Establish processes and protocols for resource recovery and local reuse of wastewater	Demonstration of reuse of treated wastewater and treated sludge part of the FSTP project		
	CSTF held on 26 Feb 2019 for sensitization regarding pilot FSTP and City-Level Guidelines on FSSM		





CSE's Faecal Sludge Testing Lab

A state-of-art, referral monitoring laboratory for testing wastewater and faecal sludge. Operational for 1.5 years

Trainings Conducted at CSE Lab

a) Basic Lab Training in 755M: 2

b) Advanced Lab training in 755M: 1



Hands-on training in Helminth testing (Advanced Lab trainings in FSSM)



Mr. Surendra Babar from Gomti Pollution Control Unit of UP Jal Nigam, receiving his participation certificate from Dr. Colleen Archer at the conclusion of Advanced Lab Training in FSSM

Characterization of faecal sludge & septage in Chunar City



Characterization of faecal sludge and septage in Bijnor City



Test Results

Chunar

TEST REPORT FORM

Date: Feb 4th, 2019

Report ID: CSE/AAETI/EML/TRF/45

CSE Team Participating	Water Team & FSM Lab
Sample Identity	Sludge Samples from township of Chunar, UP
Number of samples	7 (From Chunar) + 1 (Composite sample prepared in Lab)
Samples collected/delivered by	Self-Collected
Date of sample submission at AAETI	Jan 18 th , 2019

Result of Physico-chemical and Microbiological parameters in Fecal Sludge samples

												٠.
S No	Sample Location	pH ± Error % (95% C.I.)	Moisture Content %	TS ± Error % (95% C.I.) (ppm)	COD ± Error % (95% C.I.) (ppm)	BOD ₅ (5 days at 20°C) (ppm)	TKN ± Error % (95% C.I.) (ppm)	Ammoniacal N ± Error % (95% C.I.) (ppm)	Total Phosphate ± Error % (95% C.I.) (ppm)	Fecal coliform (MPN/100 ml)	Calorific Value (cal/g)	
1.	PHC-C	6.8 ± 0.2%	96.6	40,400 ± 0.8%	71,700 ± 0.5%	3,790	1204 ± 2.4%	101.9 ± 0.5%	295.0 ± 2.8%	3.6x10 ⁵	2709.0	
2.	JKC-C1	6.6 ± 0.2%	96.7	32,160 ± 0.8%	67,950 ± 0.5%	5,800	1162 ± 2.4%	126.6 ± 0.5%	304.0 ± 2.8%	3.6x10 ⁴	3200.1	
3.	KAW-C	6.2 ± 0.2%	94.8	30,500 ± 0.8%	72,300 ± 0.5%	5,610	1064 ± 2.4%	110.9 ± 0.5%	182.0 ± 2.8%	4.3x10 ⁵	3892.5	
4.	TIT-C	6.5 ± 0.2%	98.1	38,020 ± 0.8%	83,400 ± 0.5%	5,930	1666 ± 2.4%	218.4 ± 0.5%	338.0 ± 2.8%	3.6x10⁵	3887.9	
5.	CT-C	6.8 ± 0.2%	95.0	60,960 ± 0.8%	100,800±0.5%	3,730	1862 ± 2.4%	304.6 ± 0.5%	524.0 ± 2.8%	2.3x10 ⁶	2779.7	l
6.	PTD-C	6.6 ± 0.2%	99.1	17,360 ± 0.8%	31,800 ± 0.5%	2,960	798 ± 2.4%	138.9 ± 0.5%	178.0 ± 2.8%	3.6x10⁴	2784.1	
7.	RIS-C	6.5 ± 0.2%	96.3	31,000 ± 0.8%	53,100 ± 0.5%	3,260	1106 ± 2.4%	149.0 ± 0.5%	319.0 ± 2.8%	3.6x10⁴	2614.8	
8.	COM-C	6.6 ± 0.2%	96.7	44,960 ± 0.8%	59,400 ± 0.5%		1266 ± 2.4%	164.3 ± 0.5%	305.7 ± 2.8%		3124.0	

Bijnor

Environment Monitoring Laboratory A unit of Centre for Science and Environment **Anil Agarwal Environment Training Institute**

Nimli, District Alwar, Rajasthan-301019 TEST REPORT FORM

> Date: Mar 2nd, 2019 Report ID -EML/TRF/046

> > Fecal coliform

(MPN/100 ml)

1.2 x 107

5.6 x 105

1.5 x 10⁶

2.3 x 105

1.5 x 10°

9.2 x 104

2.3 x 10⁵

4.3 x 105

2.3 x 105

1.1 x 10

1.2 x 10'

Calorific Value

3424.0

3950.5

2768.6

3534.0

2696.1

2276.7

3264.9

2813.5

3643.6

2364.1

2815.7

EML Form No.: 4

CSE Team Participating	Water Team & FSM Lab	
Sample Identity	Sludge Samples from Bijnor, UP	
Number of samples	11 (From Bijnor) + 1 (Composite sample prepared in Lab)	
Samples collected/delivered by	Self-Collected	
Date of sample submission at AAETI	Feb 8th, 2019	

Result of Physico-chemical and Microbiological parameters in Fecal Sludge samples

TKN ± Error %

(95% C.I.)

851.2± 2.4%

862.4± 2.4%

3080.0±2.4%

1013.6±2.4%

806.4 ± 2.4%

126.0 ± 2.4%

1428.0±2.4%

210.0 ± 2.4%

571.2± 2.4%

2329.6±2.4%

1584.8±2.4%

BOD,

(5 days at 20°C)

4,280

1,380

5,430

4,630

2,420

870

1,640

630

1258

3850

3010

Ammoniacal N

± Error %

(95% C.I.)

164.6 ± 0.5%

236.3 ± 0.5%

116.5 ± 0.5%

136.6 ± 0.5%

177.0 ± 0.5%

67.2 ± 0.5%

227.4 ± 0.5%

82.9 ± 0.5%

168.0 ± 0.5%

169.1 ± 0.5%

278.9 ± 0.5%

Total Phosphate

± Error %

(95% C.I.)

166.0 ± 2.8%

221.0 ± 2.8%

656.0 ± 2.8%

262.0 ± 2.8%

238.5 ± 2.8%

24.5 ± 2.8%

458.0 ± 2.8%

56.5 ± 2.8%

131.0 ± 2.8%

738.0 ± 2.8%

333.0 ± 2.8%

	5 No	Sample Location	
	1.	нст-в	Ī
Calorific	2.	RCR-B	
Value	3	нмк-в	
(cal/g)	4	HWV-B	Ī
2709.0	5	JLP-B	ŀ
3200.1	5550		
3892.5	6	KCS-B	Ļ
3887.9	7	HFU-B	
2779.7	8	CTR-B	
2784.1	9	DHR-B	
2614.8	10	DMR-B	

11 AVI-B

5 No	Location	pH ± Error % (95% C.I.)	Content %	(95% C.I.) (ppm)	(95% C.I.) (ppm)
1.	нст-в	6.5 ± 0.2%	98.1	50,328 ± 0.8%	32,600 ± 0.5%
2.	RCR-B	7.2 ± 0.2%	99.2	25,360 ± 0.8%	20,550 ± 0.5%
3	нмк-в	6.5 ± 0.2%	84.3	118,648 ± 0.3%	120,100 ± 0.5%
4	HWV-B	7.3 ± 0.2%	96.7	31,398 ± 0.8%	35,900 ± 0.5%
5	JLP-B	7.5 ± 0.2%	93.0	34,388 ± 0.8%	26,900 ± 0.5%
6	KCS-B	7.2 ± 0.2%	99.4	1,278 ± 3.1%	1,040 ± 1.7%
7	HFU-B	6.8 ± 0.2%	94.2	42,264 ± 0.8%	45,550 ± 0.5%
8	CTR-B	6.9 ± 0.2%	99.2	2,638 ± 3.1%	6,200 ± 0.5%
9	DHR-B	7.4 ± 0.2%	98.9	9,766 ± 0.8%	16,200 ± 0.5%
10	DMR-B	7.8 ± 0.2%	93.4	79,622 ± 0.8%	71,950 ± 0.5%

7.5 ± 0.2%

TS ± Error %

COD ± Error %

49,300 ± 0.5%

41,424 ± 0.8%

CAPACITY BUILDING SUPPORT TO STATE / CITIES OFFICIALS (2018-19)

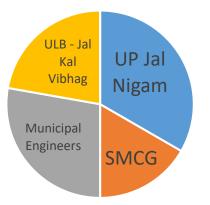
2 - State Trainings on Effective FSSM





1) 29-31 May'18 Training on FSSM at AAETI (Rajasthan campus)

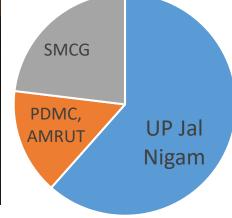
16 U.P. Participants



UPJN	6 - Kanpur, Lucknow, Agra, Etawah, Aligarh
Municipal Engineer	3 – Ramnagar, Fatehpur, Ballia,
Jal Kal	4 – Kanpur, Varanasi, Allahabad, Mirzapur
SMCG	3

2) Dec'18 Training on FSSM in Lucknow

13 Participants



UPJN	8 No. (Unnao, Loni, Ettawah, Bahraich, Luck.)
PDMC, AMRUT	2 No.
SMCG	3 No.

Cross Learning Exposure Visit to Odisha (19-20 Dec'18)







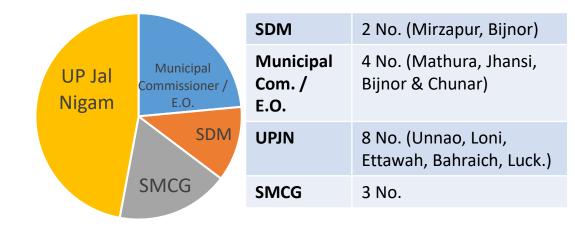
Field Visit

- FSTP in Bhubaneswar
- Co-Treatment of FS in Puri

Knowledge sharing Sessions:

- Project Director, OWSSB
- Team Leader, State PMU

Distribution of 17 participants







International Exposure Visits: FSSM

As part of BMGF funded initiative 'Multi-Country Twinning Programme: FSSM Knowledge Exchange'





U.P. NOMINATIONS supported by CSE

1) Mr U.K. Tayal (PDMC, AMRUT)	Philippines
2) Mr Arun Kumar Tyagi, UP Jal Nigam (Bijnor)	Malaysia & Thailand
3) Mr Ashutosh Kumar Yadav, AE, UPJN, Ghaziabad	Indonesia
4) Mr S. K. Gupta, GM (GPCU), UP Jal Nigam, Lucknow	Malaysia
5) Mr Akanshu Singh, AE, UPJN, Ghaziabad	Malaysia

Other Officers supported by CSE

1) Mr Rupesh S NMCG	rivastava, Director Projects,	Philippines
•	di, Project Officer ICG (Nodal Officer U.P.)	Malaysia

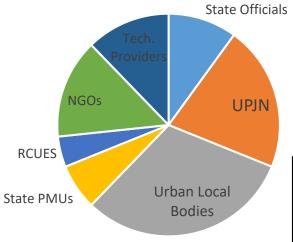
State Workshop FSSM in Lucknow







Total Participation - 78



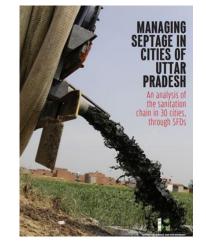
Key Note Speakers

,	
Shri Manoj Kumar Singh	PS, DoUD
Ms Sunita Narain	DG, CSE
Shri G S Priyadarshi	SMD, AMRUT
Ms Madhu Krishna	Country Lead, BMGF

Guest Speakers / Resource Persons

CEO WaterAid India, Rep. WaterAid Bangladesh, IWMI Sri Lanka, Technology Providers in FSSM, Remote session: IWK, Malaysia, BWD, Philippines, Rep. ASCI – supporting A.P.

Launch of Reports & Tools











FSSM: Media Sensitization in Lucknow



'सीवेज के अपशिष्ट को कारोबार से जोड़ें तब होगी नदियों की सफाई '

■ एनबीटी, लखनऊ : घरेलू टैंकों से निकलने वाले मल-मूत्र अपशिष्ट का बीओडी (बायोकेमिकल ऑक्सीजन डिमांड) 1000-20000 एमएलडी होता है। जो नदियों के लिहाज से काफी हानिकारक है, लेकिन इसके खेतों में इस्तेमाल से फसल काफी अच्छी होती

सेंटर फॉर साइंस ऐंड एन्वायरमेंट के कार्यक्रम 'क्या हम मार्च २०१९ तक गंगा को बचा पाएंगे' पर विशेषज्ञों ने दी राय



कार्यक्रम के दौरान डाउन टु अर्थ पत्रिका का विमोचन।

है। यह जानकारी मंगलवार वाटर ऐंड कि नमामि गंगे प्रॉजेक्ट के तहत 2000 अपशिष्ट वेस्ट वाटर मैनेजमेंट के प्रोग्राम डायरेक्टर मिलियन प्रति दिन (एमएलडी) क्षमता सुरेश रोहिला ने हजरतगंज स्थित एक निजी वाले सीवेज ट्रीटमेंट को चलाया जाना

पसंद करते हैं। होटल में सेंटर फॉर साइंस ऐंड एनवायरमेंट था. लेकिन 31 अगस्त तक केवल 328



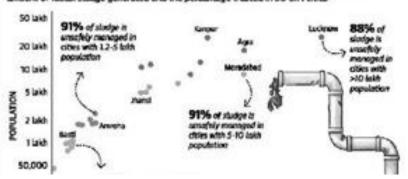
THE SEAS HINDU

NATIONAL

'In urban U.P., 87% of waste from toilets goes to rivers, agri land'

Untreated sludge

A very high percentage of faecal sludge is disposed off without treatment in various cities in Uttar Pradesh, an analysis by Centre for Science and Environment shows. Graphs plot the amount of faecal sludge generated and the percentage treated in 30 U.P. cities.





प्रदेश के शहरों में सीवर प्रबंधन की हालत खस्ता

प्रति के कार्यों में कीरण करण में कारण करण है। पूर्णिक पान के कि पाने कारण करण है। पूर्णिक पान के कि पाने के कारण करण है। पूर्णिक पान के कि पाने के कारण में कार्यों के कि पाने के कारण में कारण है। प्रति है। पाने पाने कारण में क

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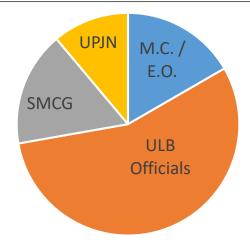
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International Knowledge Conclave: SFD Week (2-5 April 2019)

Key Note Speakers:

- Durga Shankar Mishra, Sec, MoHUA
- Rajiv Ranjan Mishra, DG, NMCG
- Kala Vairavamoorthy, ED, IWA
- Dhesigen Naidoo, CEO, WRC
- Stefan Reuters, Director, BORDA
- Arne Panesar, Head of Prog., GIZ
- Madhu Krishna, Country Lead, BMGF
- Sunita Narain, DG, CSE





Experts from
Water Research
Commission (S. A.),
Columbia University (USA),
Lancaster University (U.K),
IIT Kharagpur as well as
practitioners from Ghana,
Senegal, South Africa, USA
& Malaysia



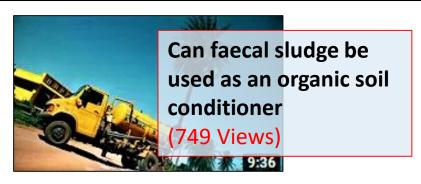


CSE Outreach on Citywide Sanitation through various communication collateral

CSE OUTREACH ACTIVITES IN CITYWIDE SANITATION

Type of Content	Number		Views	
Type of Content	Completed	Ongoing	views	
Films/Videos	6	3	18000	
DTE Articles	4		80500	
Articles in Annual Publications	2		10000	
Articles / interviews / blogs on DTE Web	50		100000	
Web – based tools	2		1000	
Media - briefing	1		Sensitization of 25 hindi speaking journalists	
Total	65	3	>2 Lakh Views	



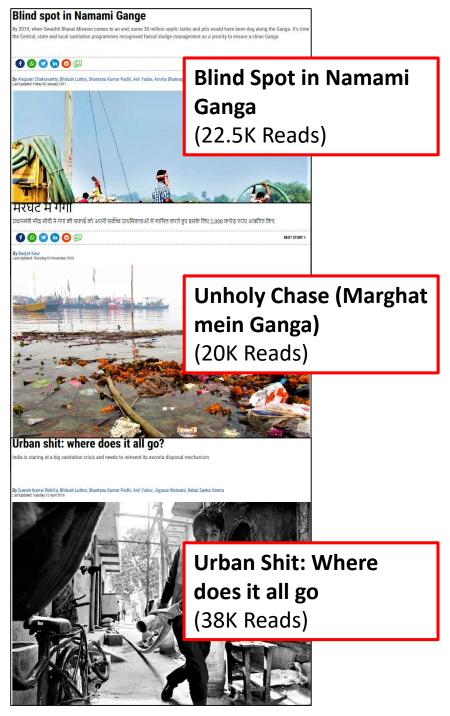




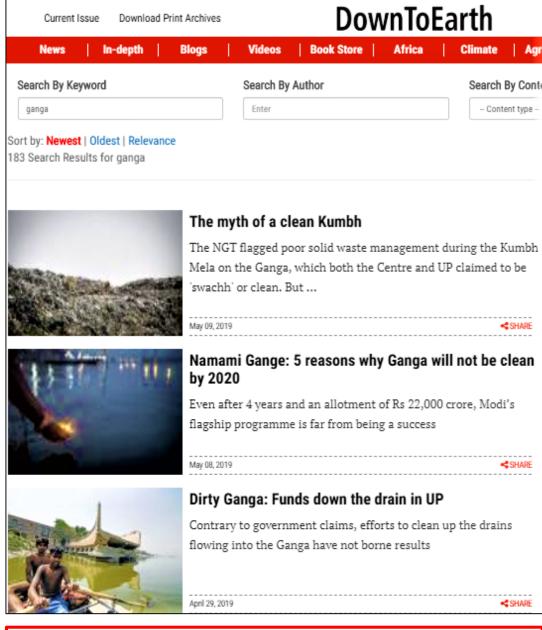












Around 50 articles/cartoon strips/interviews on Ganga uploaded on DTE web (>1 Lakh Views)

OUTREACH IN UP (PRINT & ELECTRONIC MEDIA)-(100+)



'सीवेज के अपशिष्ट को कारोबार जोड़ें तब होगी नदियों की सफाई

एनबीटी, लखनऊ : घरेलु टैंकों से निकलने वाले मल-मुत्र अपशिष्ट का बीओडी (बायोकेमिकल ऑक्सीजन डिमांड) 1000-20000 एमएलडी होता है। जो नदियों के लिहाज से काफी हानिकारक है, लेकिन इसके खेतों में इस्तेमाल से फसल काफी अच्छी होती

ऐंड एन्वायरमेंट के मार्च 2019 तक गंगा



कार्यक्रम के दौरान डाउन टु अर्थ पत्रिका का विमोचन।

यह जानकारी मंगलवार वाटर ऐंड कि नमामि गंगे प्रॉजेक्ट के वेस्ट वाटर मैनेजमेंट के प्रोग्राम डायरेक्टर मिलियन प्रति दिन



 अन्तर्थ के दिलापुर के निरामार्थ के । 101507 a 23 HUQUE 2

• तर्बः ४ • अंतरः २५५ • पस्तः ८ • लखनाउ, सोमवार, २२ अवद्वर, २०१८

प्रदेश के शहरों में सीवर प्रबंधन की हालत खस्ता

क्षेत्र र जिल्ला कर्त कर है कि अपने का उन्हें के स्वीतिक प्रवादन की र्स क्षेत्रें को कार्या करें पानी करण

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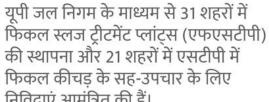
करेश के बारी में सीकीण प्रमान को हाल कारत है। पूर्वकर राज में मीतीण का 40,75 मीताता के जोर मूर्व में अने महत्व प्रमान के मिला है। 1,700 हमें बार आयो मीता पत्ती माताता हमकार में राज्य के बार में बार में बार में बार में मीता माताता है। 50 मान में की माता में 170 मिला में अपना आयो पूर्व में

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ओडिशा में सेप्टेज प्रबंधन के गुर सीखेंगे उत्तर प्रदेश के अधिकारी

फिकल स्लज ट्रीटमेंट प्लांट्स (एफएसटीपी) की स्थापना और 21 शहरों में एसटीपी में फिकल कीचड़ के सह-उपचार के लिए निविदाएं आमंत्रित की हैं।







JP Government is planning 31 FSTPs and 21 Co Tri

t for 'Planning and Implementation of Faecal Sludge and Septage Management' is be

pessfully developed policies and implemented best management practices fo is offerered a great learning experience for Uttar Pradesh that faces similar challenge

effective Faecal Sludge and Sept

The state government has taken i

and tomorrow (19-20 December) by CSE in collaboration with Odisha Water Supp

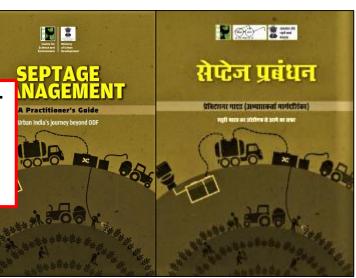




Factsheets and analysis of Sanitation chain in 30 cities of Uttar Pradesh
150 Hard Copies

3000 Downloads

Practitioner's Guide for FSSM (Eng. + Hindi)
1000 Hard Copies
1000 Downloads



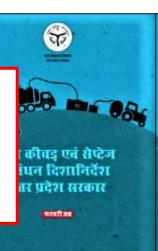
Factsheets, reports, Guidelines prepared by CSE for FSSM

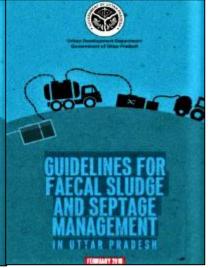
1500 Hard Copies 7500 Downloads



Factsheets and analysis of Sanitation chain in 66 cities of Uttar Pradesh

125 Hard Copies 1500 Downloads Draft FSSM Guidelines of Uttar Pradesh (Eng. + Hindi) 150 Hard Copies 2000 Downloads





Action Plan 2019-20 for Uttar Pradesh: State and City-Level Support for Effective FSSM for Citywide Sanitation

STATE LEVEL INTERVENTIONS (2019-20)

- Endorsement of **State FSSM Policy** with a focus on improved urban sanitation programming
- Institution of a **State Sanitation Task Force** for better convergence of policies, developing **Action Plan for scaling-up effective FSSM** across the State and monitoring the progress of the ULBs.
- Model document: City-level Guidelines, Co-Treatment, Byelaws & Business Model
- Develop a **Monitoring and Evaluation Framework** to track and evaluate ULB's progress to Citywide Sanitation.
- State-Level Workshop to operationalize a 'Forum of Cities that manage Excreta' to track and evaluate 'Front Runner Cities' in Effective Citywide Sanitation.
- Handhold 'Front Runner Cities' in interventions towards achieving Effective Citywide sanitation to become a model for other cities.

State-Level Trainings/Workshops planned

	State Training	Dates
1	State Level Training on 'Planning and Designing for Treatment of Faecal Sludge' at AAETI campus	23-25 July, 2019
2	State Level Training for 'Forum of Cities that manage Excreta' (focus on regulation, enabling environment) at Lucknow / Delhi	16-17 December, 2019
3	State Level Training on 'Non-sewered Sanitation' at AAETI campus	12-14, February 2020

	Workshop	Dates
1	State level - Sensitization Workshop on 'Forum of Cities that manage Excreta'	15 September, 2019
	Exposure Visit	Dates

CSE will be seeking nominations 4 weeks ahead of the training dates.

CITY LEVEL INTERVENTIONS (2019-20)

Focus City (ONE) – Bijnor

(Focus on CSP Implementation)

- Advocacy to get FSSM By-laws notified
- City level training on designing of containment systems for masons/plumbers
- Pilot level Source Segregation in 3-wards in Bijnor.
- Technical Support for De-Centralized Waste Processing Plant
- Technical support for the implementation of pilot DWWT in Bijnor.

Focus City (ONE) – Chunar

(Focus on FSSM)

- Set-up of Technical Support Unit (TSU) in Chunar
- Technical Support for Trenching for temporary Faecal Sludge disposal
- Technical Support for GPS tracking of Emptying and Transportation of Faecal Sludge in Chunar
- City level training on designing of containment systems for masons/plumbers
- Adoption of FSSM By-laws
- Supporting implementation of city level FSSM guidelines

City-wide inclusive sanitation (CWIS)

INEQUALITY

Real barriers create inequalities based on gender, age and other social characteristics.

BUSINESS AS USUAL

- Assumes everyone is starting from the same place
- Provides one size fits all solutions / /treating everybody the same

EQUITY

Specific solutions to meet specific needs and to address structural inequality







City-Level Trainings/Workshops planned

	City Level Training	Dates
1	City level training on designing of containment systems for masons/plumbers - Bijnor	September 2019
2	City level training on designing of containment system for mason/plumbers- Chunar	December 2019
3	City level training on emptying and transportation of faecal sludge	March 2020

	Workshop	Dates
1	City-level workshop in IEC / CWIS in Chunar	November 2019

CSE will be seeking nominations 4 weeks ahead of the training dates.

Research Areas

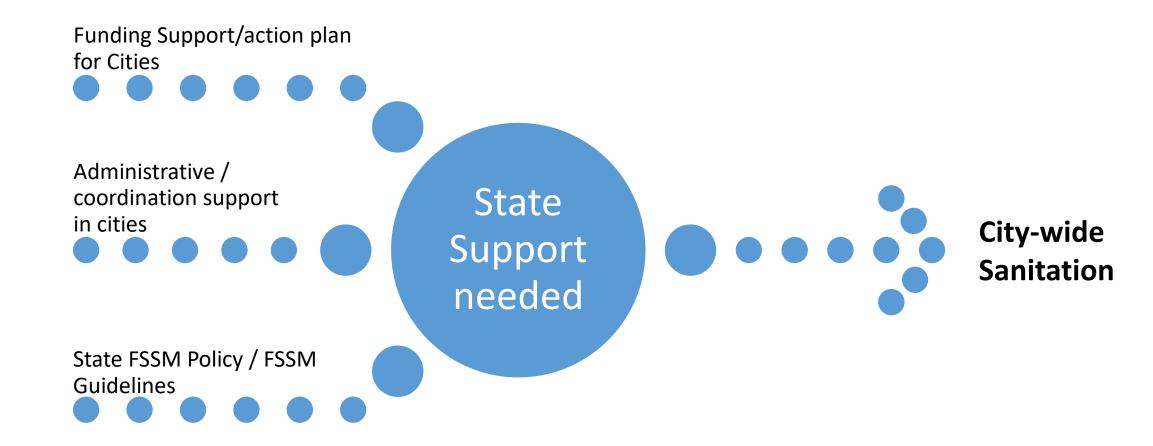
State Level Publications

- 1. Mainstreaming Co-Treatment of Faecal Sludge & Septage in STPs in Uttar Pradesh: Analysis on Co-Treatment Options in Bharwara STP Lucknow
- 2. Monitoring and Evaluation Framework: Tracking City Interventions in Safe and Sustainable Excreta Management
- 3. Model documents: City Level Guidelines for FSSM, CSP Guidelines, FSSM Bye-laws
- 4. Effective IEC for cities to mainstreaming FSSM

City Level

- 1. City-level FSSM Guidelines for Chunar & Bye-laws for Bijnor
- 2. Business model for the implementation of short term CSP strategies for citywide sanitation solutions in Bijnor

State Support Needed for Citywide Sanitation



THANK YOU