

# THREE PHASE DIGITAL PLUS FSSM CAPACITY DEVELOPMENT PLAN

(with National Nodal training institutes)

RCUES approached us for doing orientation for all ULBs across UP. We had agreed to conduct one such training and had informed them that they can use this material to conduct training on their own for rest of the ULBs. In the pilot training that we had done with the support of EcoSan Services Foundation there were officials from multiple states. Many of them were interested to take up FSSM initiatives under 15<sup>th</sup> Finance Commission and wanted to know further details about planning for FSSM.

RCUES informed us that there is not much potential for the longer duration programmes like the technology training. State level engineers who can actually understand such content are not interested in such trainings as they would anyway hire consultants for designing of the FSTPs. Also there are very few engineers who can be nominated for such trainings. But they suggested that they can support us in **dissemination of the orientation module (IWWSM and FSSM) across 13 states**. Recently they had shared with us the tentative dates for state wise training on IWWSM.

We are discussing with them to reorganise this grouping of states and conduct the training in a strategic manner, rather than just doing one

orientation per state. We are proposing the **following digital blended learning** approach for orientation on FSSM for ULB officials:

- **Level 1: Introduction on Planning for Waste Water and Septage Management:** This is based on our IWWSM module.
- **Level 2: Planning for FSSM:** This is based on the technology and Financing Option Modules. Selected participants from the first level who are interested to know further about how to plan for FSSM solutions in their city would be taken up for this training
- **Level 3: Exposure visit to Odisha:** This is based on the technology and Financing Option Modules. Selected participants from the second level would be taken for this visit.

For the delivery of these trainings, States will be clubbed considering various factors, their requirements and relevance such as, geographical, climate variation (hilly and high-altitude areas have different challenges), progress levels of different States (MP and Odisha are at advance level), scale of towns, local context etc. The proposed grouping is as follows:

S. No	Group of States	Tentative case studies
1	NE States, Uttarakhand, J&K, Himanchal	Case of Double booster pump for emptying- Video FSTP- Leh/Rudrapur – Slides and video
2	Uttar Pradesh, Bihar	Co treatment – Trichy/Puri – Slides and video FSTP – Unnao/Jhansi – Slides and video
3	Madhya Pradesh, Odisha, Chandigarh	Co treatment – Trichy- Slides Cluster approach – Tamilnadu – Video DRE – UP/Odisha- Slides
4	Chhattisgarh, Jharkhand	DRE – UP/Odisha – Slides FSTP – Bhubaneshwar- Slides and video

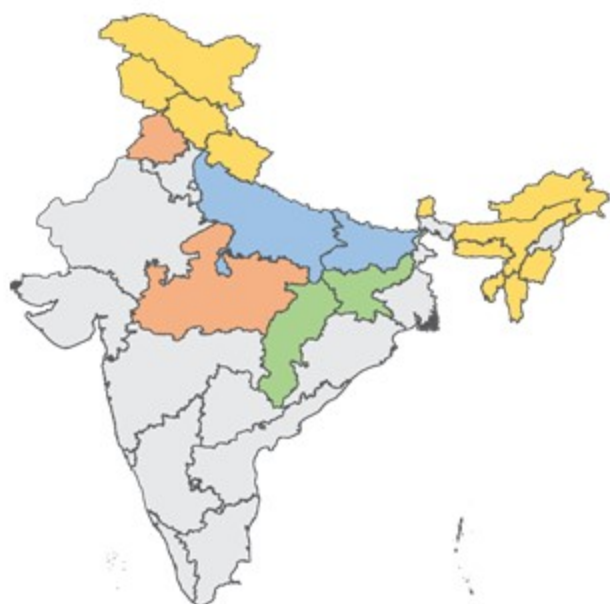
### Three Level/Phase Modules Structure

Level/ Phase	Topic	Duration	Content	Mode	No of trainings	No of participants per training
1	<b>Introduction to Integrated Waste Water and Septage Management</b>	2 hrs	<b>Module 1-Approches for Waste Water Management:</b> Centralized Wastewater Management, Decentralized Wastewater Management, Other Aspects of Liquid Waste Management, Planning of Sanitation Systems Sani tab tool	40 min presentation 10 min video 10 min discussion	<b>8-10 @ 2 per group of states</b>	
			<b>Module 2-Approches for Faecal Sludge and Septage Management:</b>  Introduction to Faecal Sludge and Septage treatment solutions – approaches and case studies Stakeholder mapping	40 min presentation 10 min video on case study 10 mins discussion		
2	<b>Planning for Faecal Sludge and Septage Management (FSSM)</b>	2 hrs	<b>Module 1 - Planning for FSSM -</b> Planning for emptying services City By-laws and Regulations Exercise on emptying and conveyance, sludge quantification Video of Wai and Sinnar	20 min presentation 10 mins Group Discussion 10 mins exercise 10 mins video 10 mins open discussion	<b>2-3</b>	<b>30-40 Mutually selected by RCUES and NIUA from the first training</b>
			<b>Module 2-Technology options</b> for containment, conveyance and treatment. Technology selection criteria. Exercise – capex and opex calculation, user fee calculation	20 min presentation 10 min video on case study 10 mins exercise 20 mins discussion		
3	<b>FSSM technology and financing exposure visit</b>	1.5 days	Odisha scale up plan FSTP at Bhubaneswar Co-treatment at Puri SHG Involvement in O&M	One day site visit	<b>1</b>	<b>25-30 Mutually selected by RCUES and NIUA from the second training</b>
			Interaction with key state official and Preparation of Action Plan for respective Cities	Half day discussion and group exercise		

This 3 phase capacity development plan – a digital plus FSSM capacity development, can be negotiated with atleast 5 national Nodal Training Institutes to cover a large number of states and UTs.

It will require support from Alliance partners to do a few trainings and ToTs where faculty exist with the national institutes and an integration subsequently within iGOT.

## Training Program on Faecal Sludge and Septage Management



A comprehensive capacity building program of ULB officials with three levels of training. The first two levels will be conducted online and the selected participants will be taken for exposure visit.

**LEVEL I:** Introduction to Integrated Wastewater and Septage Management

**LEVEL II:** Planning for Faecal Sludge and Septage Management

**LEVEL III:** Technology and Financing Options for FSSM-Exposure visit

**16**  
STATES



**1500+**  
ULB OFFICIALS

## LEVEL 1

### Introduction to Integrated Wastewater and Septage Management (IWSM)

#### Approches for Waste Water Management

- Centralized Wastewater Management
- Decentralized Wastewater Management
- Challenges and Approches of Liquid Waste Management
- Planning of Sanitation Systems
- Video of Sani tab App

#### MODULE 1

#### Approches for Faecal Sludge and Septage Management

- Introduction to Faecal Sludge and Septage treatment solutions
- Approches and case studies
- Stakeholder mapping (Group discussion)

#### MODULE 2

Presentation  
Video on case study  
Discussion

Presentation  
Video on case study  
Discussion

## LEVEL 2

### Planning for Faecal Sludge and Septage Management (FSSM)

#### Planning for FSSM

- Planning for emptying services
- City Bye-laws and Regulations
- Exercise on emptying and conveyance
- Case Studies Videos

#### MODULE 1

#### Technology options

- Technology options for containment and conveyance and treatment.
- Relevant Case Study
- Technology selection criteria
- Exercise on planning for FSSM- Sludge quantification, capex and opex calculation and user fee calculation

#### MODULE 2

Presentation  
Group Discussion  
Exercise  
Video on case study  
Open discussion

Presentation  
Video on case study  
Exercise  
Discussion

## LEVEL 3

### Technology and Financing Options for FSSM-Exposure visit

#### Odisha scale up plan

- FSTP at Bhubaneswar
- Co-treatment at Puri
- SHG Involvement in O&M

#### Interaction with key state officials and Preparation of Action Plan for respective cities

One day  
Site visit

Half day discussion  
Group exercise



Training Calendar for Feacal Sludge Management in Collaboration with NIUA, New Delhi											
Sr.No.	Name of the State	First Level	Second Level	Third Level	Sep	Oct	Nov	Nov	DEC	Feb	
					First Level	First Level	First Level	Second Level	Second Level	Third Level	
1	Uttar Pradesh	2	1	1		3/10/2020 (11:00AM -02:00PM)	7/11/2020 (11:00AM -02:00PM)	26-11-2020 (11:00AM -02:00PM)		11/2/2021 (11:00AM - 02:00PM)	
	Bihar										
2	Madhya Pradesh	2	1			6/10/2020 (11:00AM -02:00PM)	10/11/2020 (11:00AM -02:00PM)		3/12/2020 (11:00AM -02:00PM)		
	Odisha										
	Chandigarh										
3	Chhattisgarh	3	2			30-09-2020 (11:00AM -02:00PM)	9/10/2020 (11:00AM -02:00PM)	18-11-2020 (11:00AM -02:00PM)	08-11-2020 & 11/12/2020 (11:00AM -02:00PM)		
	Jharkhad										
4	Arunachal Pradesh	3	2	1		13/10/2020 & 30-10-2020 (11:00AM -02:00PM)	23-11-2020 (11:00AM -02:00PM)		18/12/2020 & 23-12-2020 (11:00AM -02:00PM)	25/02/2021 (11:00AM - 02:00PM)	
	Assam										
	Sikkim										
	Manipur										
	Uttarakhand										
	Meghalaya										
	Tripura										
	Mizoram										
	Jammu Kashmir										
	Himanchal Pradesh										
Total		10	6	2	1	5	4	1	5	2	




## Online Training Programme on FSSM in Collaboration with RCUES Lucknow

National Institute of Urban Affairs (NIUA)  
Core 4B, India Habitat Centre, Lodhi Road, New Delhi

### AGENDA Level-1 Training

DURATION	SESSION	SPEAKER
11:00- 11:15	Online registration of participants	Moderated by Mr. Ajit Mishra, RCUES
11:15-11:25	Welcome address	Mr. A K Gupta, Additional Director, RCUES
11:25-11:30	Introduction of training programme and setting the context	Mr. Depinder Kapur, NIUA
11:30-12:20	Session 1-Approches for Waste Water Management  Centralized Wastewater Management, Decentralized Wastewater Management, Other Aspects of Liquid Waste Management, Planning of Sanitation Systems, Sani Tab Tool	Mr. Saurabh Kale, ESF
12:20-12:30	Case study video on Decentralized Treatment Plant	Mr. Saurabh Kale, ESF
12:30-13:20	Session 2-Approches for Faecal Sludge and Septage Management  Introduction to Faecal Sludge and Septage treatment solutions Planning of FSSM and Stakeholders mapping Approaches of FSSM Treatment and Case studies	Mr. Dhawal Patil, ESF
13:20-13:30	Case study video on FSTP, Bhubaneshwar/Co-Treatment, Tamil Nadu	Mr. Dhawal Patil, ESF
13:30-13:50	Open discussion	Moderated by Mr. Ajit Mishra, RCUES
13:50-13:55	Feedback from participants through online poll	-
13:55-14:00	Vote of Thanks	Ms. Jyoti Dash, NIUA