

Training and Capacity Building Program

Training and Capacity Building Programs as a ESF-KRC

2017-2018



Prepared By,

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1 Training Modules

1.1 Technical Training program on Decentralized Wastewater Treatment System (DTS)

Technical Training Program	Decentralized Wastewater Treatment System (DTS)	
Duration	3 Days	
Targeted Participants	Government officials, Engineers, Organizational Technical staff, Professionals, Students	
Expected Participants	20 seats	
Introduction & Aim of Training Program	<p>This training module will support the state and district level government officials, Engineers, Organizational Technical Staff, Professionals, Students for the understanding of decentralized approach in wastewater management, importance of DTS and its technical designing.</p> <p>The technical module will consist of concept of decentralized wastewater treatment system, different units of DTS and designing. The module will also discuss about operation and maintenance aspects of the system and cost requirements.</p>	
Objectives	<ul style="list-style-type: none"> ○ To introduce the decentralized wastewater treatment system and its need in current situation. ○ To understand the available opportunities and designing aspects of each system component. ○ To understand the O&M and cost requirement aspects. 	
Methodology	The training will provide a deeper insight into the topic decentralized wastewater treatment system. The training program will include technical as well as non-technical aspects involved in decentralized wastewater treatment system. The workshop will be a mix of lectures and group works which provokes a though process in the mind of participants.	
Tentative Module Structure	Module 1	Getting to know each other
	1.1	Setting ground rules!
	1.2	Activity involving introduction of resource persons and participants

	1.3	Describing the aims and objectives of the training									
	Module 2	Decentralized Wastewater Treatment System									
	2.1	Anaerobic Wastewater Treatment System – Fundamentals and Design Principals									
	2.2	Designing of AS, ABR, AF									
	2.3	Operation and Maintenance, Financial Requirements									
	Module 3	Constructed Wetlands									
	3.1	Principals of Constructed Wetlands									
	3.2	Use of constructed treatment wetlands in resources orientated system									
		Designing of HF, VF, Hybrid Constructed Wetland System									
		Operation and Maintenance, Financials Requirements									
	Module 4	Site Visits									
	4.1	DTS and CW, College of Engineering, Hostel Campus, Pune									
	4.2	Soil Scape Filter, Indradhanushya Environment and Citizenship Centre									
Fee Structure	<table border="1"> <thead> <tr> <th>No.</th> <th>Item</th> <th>Fee</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Government Officials, Professionals, Engineers, Organizational Technical Staff</td> <td>₹7,000 + 18% GST = ₹8,260</td> </tr> <tr> <td>2.</td> <td>Students</td> <td>₹5,000 + 18% GST = ₹5,900</td> </tr> </tbody> </table>		No.	Item	Fee	1.	Government Officials, Professionals, Engineers, Organizational Technical Staff	₹7,000 + 18% GST = ₹8,260	2.	Students	₹5,000 + 18% GST = ₹5,900
No.	Item	Fee									
1.	Government Officials, Professionals, Engineers, Organizational Technical Staff	₹7,000 + 18% GST = ₹8,260									
2.	Students	₹5,000 + 18% GST = ₹5,900									
Training Schedule	30th April-2nd May, 2018										

1.2 Technical Training program on Faecal Sludge Management

Technical Training Program	Faecal Sludge Management	
Duration	3 Days	
Targeted Participants	Government officials, Engineers, Organizational Technical staff, Professionals, Students	
Expected Participants	20 seats	
Introduction & Aim of Training Program	<p>This training module will support the state and district level government officials, Engineers, Organizational Technical Staff, Professionals, Students for the understanding of Faecal Sludge Management, its importance and technical designing aspects of the faecal sludge treatment system.</p> <p>The technical module will consist of concept of faecal sludge treatment system, different units of FSTP and its designing. The module will also discuss about operation and maintenance aspects of the system and cost requirements.</p>	
Objectives	<ul style="list-style-type: none"> ○ To introduce the faecal sludge management and its need in current situation. ○ To understand the available opportunities and designing aspects of faecal sludge treatment system. ○ To understand the O&M and cost requirement aspects. 	
Methodology	<p>The training will provide a deeper insight into the topic faecal sludge management with focus on treatment system. The training program will include technical as well as non-technical aspects involved in faecal sludge management. The workshop will be a mix of lectures and group works which provokes a though process in the mind of participants.</p>	
Tentative Module Structure	Module 1	Getting to know each other
		Setting ground rules!
		Activity involving introduction of resource persons and participants
		Describing the aims and objectives of the training
	Module 2	Faecal Sludge Management
	2.1	Need of Faecal Sludge Management and Opportunities
2.2	Faecal Sludge Management - Principals and System Approach	

	Module 3	Faecal Sludge Treatment	
	3.1	Treatment Mechanisms	
	3.2	Overview of Treatment Technologies	
	Module 4	Faecal Sludge Treatment Process and Technologies	
	4.1	Understanding the Faecal Sludge Treatment Process	
	4.2	Design criteria, Parameters.	
		Site specific design optimization	
	4.3	Designing of Settling-Thickening Tanks, Unplanted Drying Beds, Planted Drying Beds	
	Module 5	Faecal Sludge Management Aspects	
	5.1	Operation and Maintenance, Financial aspects	
	5.2	Co Treatment of Faecal Sludge in Municipal Wastewater Treatment Plants	
5.3	Enduse of Treatment Products		
Fee Structure	No.	Item	Fee
	1.	Government Officials, Professionals, Engineers, Organizational Technical Staff	₹7,000 + 18% GST = ₹8,260
	2.	Students	₹5,000 + 18% GST = ₹5,900
Training Schedule	3rd – 5th May, 2018		