### Training on Sustainable Grey Water Management and Reuse at Community Level

**Mode of delivery for training programme:** Virtual training: 3 hours / day  
**Date:** 7th – 8th March, 2022  
**Participants:** Middle Management Level from Jal Jeevan Mission  
**Objective:** To train the participants on managing the greywater in the villages  
**Outcome:** The participants learn how to treat grey water at community level and develop reuse plans for the treated greywater to save on freshwater resources.

#### Module 1 – Introduction to greywater and need for treatment

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<th>Time</th>
<th>Title</th>
<th>Outcomes</th>
<th>Trainer</th>
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<tbody>
<tr>
<td>10:00 – 10:05</td>
<td>Welcome Note/Ice-breaking session</td>
<td>Welcoming the participants</td>
<td>Sushmita Sengupta, Programme Lead, KRC-JJM</td>
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<tr>
<td>10:05 – 10:15</td>
<td>Setting up the context</td>
<td>Climate change impact, water crisis and need to recycle and reuse treated wastewater (A video)</td>
<td>Sunita Narain, Director General, CSE</td>
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| 10:15 – 11:00 | Introduction to Jal Jeevan Mission                                    | • Overview of Jal Jeevan Mission – Need for greywater treatment  
• Issue of increasing grey water discharge after providing FHTC and community involvement and awareness  
• Ensuring availability of washing and bathing platform for poor and marginalized people in the village  
• Need for sensitization of the communities                                                                 | Jal Jeevan Mission |

#### Module 2 – Step by step planning for the treatment of greywater at community level

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| 11:05 – 11:30 | Greywater treatment-Technology selection criteria                    | • Difference between greywater and blackwater  
• Understanding the pollutant levels in greywater and the impacts of use of untreated greywater  
• Technologies available for treatment of greywater  
• Selection criteria for technologies (technical, operational and administrative factors)                                                                 | Ravi Kumar, DPM, Rural Water and Waste Management, CSE |
| 11:30 – 12:30 | Tools for planning and designing of treatment systems                 | • Sourcing the data required for planning greywater management (land availability, soil conditions, rainfall, ground water depth, etc.)  
• Analysing the quality of quantity of greywater generated at community level  
• To understand how to locate the treatment location at the cluster or village level                                                                 | Prof. Ligy Philip, Institute Chair Professor in Department of Civil Engineering, IIT Madras |
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| 12:30 – 1:00 | Conveyance options for carrying greywater                               | • Understanding the options available and necessary for carrying greywater from source to solution  
• Description on closed drains systems (technical and financial requirements)  
• Description on small bore sewer systems (technical and financial requirements) | Shrikant Navrekar, Training Director, Nirmal Gram Nirman Kendra           |

**Day 2: 8 March, 2022**

**Module 3 – Technical design and specification of different treatment technologies**

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| 10:00 – 10:45| Technical brief on technologies at cluster level                        | • Community Leach pit/magic soak pits/trenching system  
• Overview, feasibility, technical and financial details | Shrikant Navrekar, Training Director, Nirmal Gram Nirman Kendra           |
| 10:45 – 11:45| Technical brief on technologies at village level                         | • Waste Stabilisation pond, phytorids, DEWATS, Soil Bio Technology, constructed wetland.  
• Overview, feasibility, technical and financial details | G S Santhosh, Technical Expert – BORDA-SA                                |
| 11.45 – 11.50| Break                                                                   |                                                                         |                                          |

**Module 4: Reuse options for treated greywater**

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| 11.50 – 12.15| Reuse of treated greywater                                              | • Potential reuse options for treated greywater  
• Quality of treated greywater for specific reuse options | Arvind Singh Senger, Senior Research Scientist, Environment Monitoring Laboratory, CSE |
| 12.15 – 12.30| Success story–Haryana                                                   | • Case studies on treatment systems setup at the community or village level  
• Sourcing funds- experience sharing | Ravi Kumar, DPM, Rural Water and Waste Management, CSE                   |
| 12:30 – 1.00 | Q & A/Feedback                                                           | Open house discussion                                                   | CSE                                      |

**For further queries:**

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