

**Capacity Building and Knowledge Support Activities for
Government on Climate Change and Resilience
(2024-25)**

Activity 1: Training on Change Management- Role (as Public Health Engineer) and Activities for Har Ghar Jal

Date: 01 July, 2024

Location: Hotel Jasmin, Haldwani, Uttarakhand

No. of Beneficiaries: 44 Engineers & mid-level Govt Officials, Govt. of Uttarakhand

Supported by: Dept of Drinking Water & sanitation, Ministry of Jal Shakti (MoJS), SWSM, Government of Uttarakhand with Swami Rama Himalayan University (SRHU)

Role of University: Staff/ Faculty- 06

Activity detail:

First day Program was started with formal inauguration and sessions were conducted on Change Management- Role (as Public Health Engineer) and Activities for HAR GHAR JAL, Change Management in JJM, focusing on institutional mechanisms and stakeholder roles. He then addressed water quality monitoring and surveillance, discussing contamination, its adverse health effects, and demonstrating practical use of field testing kits. On the second day overview of water treatment and disinfection technologies, emphasizing the importance of chlorination, focused on participatory approaches for O&M under JJM, including social and behavioral change communication and participatory rural appraisal tools, introduced grey water management technologies, discussing the net zero concept, conventional and advanced treatment techniques, and nature-based solutions. The training was concluded with participants' findings, learnings, and feedback of the training session along with certificate distribution ceremony.



Activity 2: 2 days training on Change Management- Role (as Public Health Engineer) and Activities for Har Ghal Jal

Date: 05 July, 2024

Location: Uttarakhand Institute of Rural Development (UIRD), Rudrapur, Uttarakhand

No. of Beneficiaries: 45 Engineers & mid-level Govt Officials, Govt. of Uttarakhand

Supported by: Dept of Drinking Water & sanitation, Ministry of Jal Shakti (MoJS), SWSM, Government of Uttarakhand with Swami Rama Himalayan University (SRHU)

Role of University: Staff/ Faculty- 06

Activity detail:

First day Program was started with formal inauguration and sessions were conducted on Change Management- Role (as Public Health Engineer) and Activities for HAR GHAR JAL, Change Management in JJM, focusing on institutional mechanisms and stakeholder roles. He then addressed water quality monitoring and surveillance, discussing contamination, its adverse health effects, and demonstrating practical use of field testing kits. On the second day overview of water treatment and disinfection technologies, emphasizing the importance of chlorination, focused on participatory approaches for O&M under JJM, including social and behavioral change communication and participatory rural appraisal tools, introduced grey water management technologies, discussing the net zero concept, conventional and advanced treatment techniques, and nature-based solutions. The training was concluded with participants' findings, learnings, and feedback of the training session along with certificate distribution ceremony.



Training on Change Management- Role (as Public Health Engineer) in Haldwani, Uttarakhand

Activity 3: 2 days training on Change Management- Role (as Public Health Engineer) and Activities for Har Ghar Jal

Date: 15 July, 2024

Location: Swami Rama Himalayan University (Dehradun and Haridwar district participated in the training)

No. of Beneficiaries: 35 Engineers & mid-level Govt Officials, Govt. of Uttarakhand

Supported by: Dept of Drinking Water & sanitation, Ministry of Jal Shakti (MoJS), SWSM, Government of Uttarakhand with Swami Rama Himalayan University (SRHU)

Role of University: Staff/ Faculty- 07

Activity detail:

First day Program was started with formal inauguration and sessions were conducted on Change Management- Role (as Public Health Engineer) and Activities for HAR GHAR JAL, Change Management in JJM, focusing on institutional mechanisms and stakeholder roles. He then addressed water quality monitoring and surveillance, discussing contamination, its adverse health effects, and demonstrating practical use of field testing kits. On the second day overview of water treatment and disinfection technologies, emphasizing the importance of chlorination, focused on participatory approaches for O&M under JJM, including social and behavioral change communication and participatory rural appraisal tools, introduced grey water management technologies, discussing the net zero concept, conventional and advanced treatment techniques, and nature-based solutions. The training was concluded with participants' findings, learnings, and feedback of the training session along with certificate distribution ceremony.



Training on Change Management- Role (as Public Health Engineer) at SRHU

Activity 4: 2 days training on Change Management- Role (as Public Health Engineer) and Activities for Har Ghar Jal

Date: 29 July, 2024

Location: Shrinagar, Pauri, Uttarakhand

No. of Beneficiaries: 40 Engineers & mid-level Govt Officials, Govt. of Uttarakhand

Supported by: Dept of Drinking Water & sanitation, Ministry of Jal Shakti (MoJS), SWSM, Government of Uttarakhand with Swami Rama Himalayan University (SRHU)

Role of University: Staff/ Faculty- 06

Activity detail:

The programme commenced with a formal inauguration, followed by sessions on Change Management: Role of a Public Health Engineer and activities related to Har Ghar Jal. The sessions also covered Change Management under the Jal Jeevan Mission (JJM), with a focus on institutional mechanisms and the roles and responsibilities of various stakeholders. The participants were then introduced to water quality monitoring and surveillance, including sources of contamination, its adverse health impacts, and the practical use of field water-testing kits through demonstrations. The programme further covered an overview of water treatment and disinfection technologies, emphasizing the importance of chlorination. The sessions also focused on participatory approaches for Operation and Maintenance (O&M) under JJM, including Social and Behaviour Change Communication (SBCC) and Participatory Rural Appraisal (PRA) tools. Participants were also introduced to greywater management technologies, covering the Net Zero concept, conventional and advanced treatment techniques, and nature-based solutions. The training programme concluded with participants sharing their key findings, learnings, and feedback, followed by a certificate distribution ceremony.



Training on Change Management- Role (as Public Health Engineer) in Shrinagar, Pauri, Uttarakhand

Activity 5: Social and Environment Audit of STPs under Namami Gange Programme (6 months)

Date: 01 January 2025

Location: 7 STPs & 2 I&D in Dehradun, Haridwar & Tehri Garhwal

Supported by: Namami Gange, State Mission for Clean Ganga (SMCG), Government of Uttarakhand with Swami Rama Himalayan University (SRHU)

Role of University: Staff/ Faculty- 7

Activity detail:

The River Ganga is of immense economic, environmental, and cultural importance to India. Government of India launched the **Namami Gange Programme** in 2014. It is a flagship initiative designed to rejuvenate the Ganga through a basin-wide, multi-sectoral approach. Significant steps-technical, institutional, and policy-level interventions have been initiated towards pollution abatement.

Namami Gange's interventions were planned keeping in view that these challenges are systemic and interlinked, requiring comprehensive and integrated solutions. Accordingly, the programme seeks to address both water quality and water quantity concerns through the financing of key infrastructure and institutional reforms. Given the distributed nature of interventions across multiple states and sectors, the Namami Gange Programme is expected to generate both environmental and social impacts. To ensure that these impacts are systematically identified and appropriately managed, an **Environmental and Social Framework (ESF)** has been developed. A cornerstone of the Namami Gange Programme is the development and operationalization of **Sewage Treatment Plants (STPs)** and **Interception & Diversion (I&D)** networks to prevent the discharge of untreated sewage into the river.

In this context, **Swami Rama Himalayan University (SRHU)** has been entrusted with the responsibility of conducting the **Environmental and Social Audit** of STP and I&D infrastructure projects across **nine locations** in the districts of **Haridwar, Tehri, Dehradun, and Nainital**. This initiative, sanctioned by the **State Mission for Clean Ganga (SMCG)**, Government of Uttarakhand, aims to determine the environmental and social acceptability of these interventions while evaluating their impact on the local population and the river ecosystem. Social and environmental audit of STPs under the Namami Gange Program aims to determine whether the implementing activities are socially and environmentally acceptable as well as to evaluate the effects of investments made under the Namami Gange program on living standards and the river environment in and around project locations. Accordingly, the primary objective of this audit is to assess how these projects have influenced environment of the river in and around project locations, community living standards, health, sanitation, and hygiene. Social and environmental audit of following sites of 9 STPs / I&Ds were done under the Namami Gange Program during January end to early May 2025. Based on these deliberations, a comprehensive audit checklist was developed to systematically assess the environmental and social impacts of Sewage Treatment Plants

(STPs) implemented under the Namami Gange Programme. The audit followed a structured methodology, incorporating data collection, stakeholder consultations, and field assessments. During the preparation phase, checklists were developed for environmental and social evaluation.

As per plan Social Audit was carried out at all 9 sites of four districts of Uttarakhand through Household Survey (HHS) and Focus Group Discussion (FGD) alongwith certain physical observations. HHS was conducted with the checklist having queries summarized in ten sections like on Water and Sanitation Facilities, Awareness and understanding about the purpose of STP, Community Perception, Health and Hygiene, ARTH Ganga, Displacement and Resettlement, Satisfaction with the Project, Grievance Redressal and finally Suggestions and Additional Facilities or Services Demand by HHs besides, General Information.



Environmental and Social Audit of STPs

Activity 6: One day Executive Committee meeting of State Water & Sanitation Mission (SWSM), Govt. of Uttarakhand

Date: 26 May 2025

Location: SWSM Office, Dehradun, Uttarakhand

Supported by: State Water & Sanitation Mission (SWSM), Govt. of Uttarakhand with Swami Rama Himalayan University (SRHU), Dehradun, and the People's Science Institute.

Role of the University: Staff/Faculty- 1

Activities: Meeting on targets of various components included in the annual action plan for the financial year 2025-26 under Swachh Bharat Mission (Grameen) for rural sanitation enhancement and discuss the strategy. The following point/plan discussed-

1. Community Sanitary Complex (CSC) plan
2. Solid & Liquid Waste Management Plan
3. Plastic Waste Management
4. GOBARDhan Projects
5. Faecal Sludge Management (FSM)
6. Capacity building
7. Information Education & Communication (IEC)



Executive Committee meeting of State Water & Sanitation Mission (SWSM), Govt. of Uttarakhand