

सत्यमेव जयते

# REGIONAL CENTRE FOR URBAN & ENVIRONMENTAL STUDIES, LUCKNOW

(MINISTRY OF HOUSING & URBAN AFFAIRS, GOVT. OF INDIA)

## NEWSLETTER

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Regional Centre for Urban & Environmental Studies (RCUES) Lucknow is one of the four centers in the country established by the Ministry of Housing and Urban Affairs, Government of India at Lucknow in the year 1968. The Regional Centre provides expertise, advisory services & consultancy services to urban local bodies and Parastatals. The Centre has completed its 50 glorious years and continues to perform its activity as Centre of Excellence.

**Sri Manoj Joshi IAS,**

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Chairman National Review & Monitoring Committee, RCUES Lucknow

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Dr. Nishith Rai,

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Regional Centre for Urban and Environmental Studies (RCUES), Lucknow, bagged the prestigious 16<sup>th</sup> Water Digest Water Awards 2022-2023 in the **BEST INITIATIVE IN URBAN WATER & SANITATION** category on March 16, 2023 at New Delhi.

The Awards are organised in partnership with UNESCO and was a grand affair. The event was presided over by the Chief Guest Shri Gajendra Singh Shekhawat, Hon'ble Minister of Ministry of Jal Shakti, Government of India. The award was received by Dr. Nishith Rai, Director, RCUES Lucknow.

The evening was graced with the presence of BK Sister Shivani, life coach from Brahma Kumaris Spiritual Movement of India. H.E. Naor Gilon, Ambassador of Israel to India, Dr Benno Boer, Programme Specialist and Chief of Sector for Natural Sciences, UNESCO New Delhi and Ms. Anupama Madhok Sud, Director and Editor Water Digest were among the dignitaries who participated in the event.

Shri Gajendra Singh Shekhawat, in his ministerial address, said compared to the past, India is now spearheading the water revolution in the world, with a record investment in the coming years dedicated to the water sector. Lauding the efforts of Prime Minister Shri Narendra Modi, he said the government had been able to provide potable water to six crore people, well within the target of the SDGs set by the UN. India is also ahead in achieving the SDGs under Universal Coverage for Drinking Water

of the UN targeted for 2030. He said that India had managed to cleanse river Ganga in five years despite unique challenges.

The 2023 Water Digest Water Awards were presented to over 50 different category winners including various sectors like Government, private, NGOs, schools, colleges, RWAs, individuals and many more.

Dr Nishith Rai, Director, RCUES Lucknow expressed his gratitude to the jury for recognising the outstanding efforts of the organisation and also applauded his team for bringing home this success. It is noteworthy that the Centre is also designated as the

**RCUES LUCKNOW  
BAGS THE BEST  
INITIATIVE IN URBAN  
WATER & SANITATION  
AT THE 16TH WATER  
DIGEST AWARDS 2022-  
23: CELEBRATING THE  
EFFORTS OF WATER  
WARRIORS**

Key Resource Centre, by the Ministry of Jal Shakti, Govt of India, under Jal Jeevan Mission. The Centre has been doing exemplary work in the Water and Sanitation area apart from other important urban and environmental subjects. The range of activities conducted by RCUES mainly include Training, Capacity building, Research, Teaching, Consultancy Services and dissemination of information. The centre provides its expertise, advisory services & consultancy services to urban local bodies all over the country.

BK Sister Shivani, held the audience captive with her words of wisdom. In her Keynote Address, she said that the need of the hour is to use the energy of water. We have to work on the outer as well as inner environment in order to conserve the precious resource of water.

H.E. Naor Gilon, Ambassador of Israel to India gave a Special Address to the audience of Water Digest







Water Awards. He said that India is moving really fast towards water security. He praised initiatives like Har Ghar Nal Se Jal and Namami Gange mission and focused on the progress in bilateral relationship between India and Israel.

Dr Benno Boer, Programme Specialist and Chief of Sector for Natural Sciences, UNESCO New Delhi gave a special message through video address. He praised the efforts of Water Digest for a long standing partnership with UNESCO and congratulated the winning organisations, NGOs, corporate and water managers who have worked within the community to ensure that the message of efficient and sustainable use of water is registered in the minds of people, institutions, government and industries.

Director and Editor of Water Digest, Ms Anupama Madhok Sud, traced the journey of Water Digest and the water industry over the last 17 years. Addressing the august audience, she said, “I am thankful to all our partners for keeping faith in us and being with us through our journey. Every day we strive to add new verticals to our ongoing work and we promise to never let the voice of water go silent. The awards are our way to thank the unrelenting efforts of Water Warriors towards water conservation, reuse and recycle”.



## ORIENTATION TRAINING PROGRAMME FOR CONSULTING ENGINEERS UNDER PANCHAYATI RAJ DEPARTMENT, GOVT. OF UP

### BACKGROUND

Development of infrastructure has been accelerating in the last few decades with the increased awareness towards improved living environment. With the introduction of Finance Commission (FC), a sum of Rs 26608.4 crore have been assured to be devolved to Gram Panchayats (GPs) during the period of 2020-26 which provides them an enormous opportunity for local self-development at the cutting-edge institutional level of Gram Panchayats (GPs) and hence a robust mechanism was required which focuses on integrated plan creation, monitoring of fund flow and improved transparency through use of technology.

The infrastructure which is being developed by various Gram Panchayat will need more number of qualified and trained manpower for better designing, speedy implementation of all the schemes in economical manner and also for proper operation and maintenance of old and new projects and infrastructure development.

Regarding this, State took a paradigm shift from traditional planning approach to introduce an integrated planning system viz. Gram Panchayat Development Plan (GPDP), as per Ministry of Panchayati Raj, Government of India, Guidelines, in all Gram Panchayats for creation of Annual Plans by GPs capturing local needs by visualizing the annual budget of every GP following a decentralized, participatory, bottom-up planning process. The annual Plan consists of works to be done across the year in the Gram Panchayats.

The annual Plan consists of works to be done across

List of Training	
Date	No of Participants
03-Jan-23	55
03-Jan-23	14
05-Jan-23	21
07-Jan-23	46
07-Jan-23	16
09-Jan-23	46
09-Jan-23	12
12-Jan-23	56
12-Jan-23	10
20-Jan-23	40
21-Jan-23	48
21-Jan-23	14
23-Jan-23	50
23-Jan-23	18
28-Jan-23	56
28-Jan-23	21
31-Jan-23	53
31-Jan-23	22
07-Feb-23	52
07-Feb-23	16
13-Feb-23	40
13-Feb-23	20
15-Feb-23	41
15-Feb-23	18

the year in the Gram Panchayats. Department of Panchayati Raj, Uttar Pradesh (DoPR) lacks the technical manpower for civil works in the Gram Panchayats. Hence, DoPR has decided to do district





wise empanelment of the Private individual Consulting Engineer (Civil) on work basis payment mode.

The broad Scope of work of the Empaneled Consultants are as follows:

- To prepare estimates of works/Projects taken by the Gram Panchayats.
- Map/ Layout design of the work.
- Preparation of MB of the works.
- Other related civil works awarded by the Gram Panchayats.

In this backdrop, RCUES, Lucknow organized 10, One Day Training programme for Engineers for Gram Panchayat dealing with roads, streets, building, water supply, sewer, drains, street light, water bodies, etc.

## OBJECTIVES

- Develop technical capabilities in preparing estimates of works/projects taken by the Gram Panchayats.
- Develop technical capabilities to measure the activities of work/projects executed by Gram Panchayats.
- Develop the understanding of tendering process of different types of activities in the Gram Panchayat.
- Develop the understanding of standard specification for different types of construction work in the Gram Panchayat.
- To orient the participants in preparation of MB of

the works as per Gram Panchayat.

- To orient the engineers in understanding the different approaches and its applicability and long term sustainable models

## PARTICIPANTS

The workshop was organized for Consulting Engineers under Panchayati Raj Department, Govt. of UP. Overall 336 participants attended the Training.

## COORDINATION

The programme was coordinated by Dr Alka Singh, Deputy Director, Dr Nasruddin and Mr Himanshu Chandra, Assistant Director, RCUES, Lucknow



## INTEGRATED WASTE WATER AND SEPTAGE MANAGEMENT (IWSM) UNDER THE SANITATION CAPACITY BUILDING PLATFORM (SCBP).

### BACKGROUND

After the success of Swachh Bharat Mission (SBM) launched in 2014, the Union Cabinet, chaired by Prime Minister, Shri. Narendra Modi announced the Phase II of the SBM-Urban (SBM-U 2.0) and Jal Jeevan Mission Urban (JJM-U). The mission goes beyond the aim of eliminating open defecation in the country, by focusing on ODF+, ODF++ and Water+ protocols as laid down by the Ministry of Housing and Urban Affairs, GoI. Faecal Sludge and Septage Management as a solution to sanitation issues got traction after the National Policy on FSSM was released in 2017. The SBM-U 2.0 and JJM-U supplement this policy by focusing on pollution abatement through Interception of Drain (I&D) projects to transfer the wastewater generated in cities to Sewage Treatment Plants (STP). Under the SBM-U 2.0 and JJM-U financing component, the wastewater treatment funds would be allocated for desludging vehicles, interception & diversion of drains and for STPs with co-treatment of faecal sludge and septage at the STP. I&D projects linked to STPs have been implemented in India before and although it takes less time for implementation of the project, it has its own challenges. Understanding the city profile, drains and the change in the seasonal discharge of the drains and rivers is critical. The Tier 2 and below cities (also classified as semi-urban centres) face the problem in planning and execution of projects. They do not have adequate resources and technical know-how on planning, executing and maintaining such projects. Moreover, these projects should not be treated as civil engineering projects but regional planning projects as well. Only then the economic feasibility and the true benefits of such projects can be realized. There are

List of Training	
Date	No of Participants
19-21 January, 2023	26
30 Jan - 01 Feb, 2023	40
02-04 February, 2023	31
08-10 February, 2023	38

many successful and not so successful I&D projects in India which need to be studied diligently in order to avoid mistakes and mitigate risks associated with project planning and execution. This online course focused on SBM-U 2.0 and JJM-U.

### OBJECTIVES

- To understand urbanization and its associated challenges in India
- To analyze the national urban sanitation policy frame work
- To know the funding opportunities in FSSM
- To know importance of water sanitation and Reuse of Treated water
- Difference between SBM and SBM 2.0
- Funding on different components in SBM 2.0
- Assessment and Application of schemes in ULBs
- To understand ULBs Topography
- To understand ULBs Population and door to door Survey
- To identify the Existing Structures of Waste management.
- Identify gaps and high Density population areas.
- Gain knowledge about the various approaches and







tools used in faecal sludge management planning.

- Understand the importance of integrated planning for faecal sludge management.
- Understand what is included in the planning process for faecal sludge management.
- Importance of reuse of waste water
- To understand different levels of liquid waste management with respect to changing urban settings.
- To look in detail into different aspects of centralized and decentralized liquid waste management.
- To understand tools and different aspects of planning of liquid waste management

### **PARTICIPANTS**

The workshop was organized for The participants of the programme were engineers, Chief Municipal Officers from Urban Local Bodies of Madhya Pradesh and City Managers and Eos of ULBS of Jharkhand. Overall 135 participants attended the Training.

### **COORDINATION**

The programme was coordinated by Mr Ajit Kumar Mishra, Assistant Director, RCUES, Lucknow.



## TRAINING CUM EXPOSURE VISITCITY-WIDE INCLUSIVE SANITATION (CWIS)

### BACKGROUND

In its goals under Faecal Sludge Septage Management (FSSM) in vision of achieving SDG 6. NIUA in collaboration with Indian Institute for Human Settlements (IIHS) and All India Institute of Local Self Government (AIILSG) Mumbai and support from RCUES Lucknow to organize a 3 day exposure visit to showcase “City Wide Inclusive Sanitation” approach in Tamil Nadu from Jan 31– 2 Feb 2023.

### OBJECTIVE

The objective was to provide a comprehensive understanding of CWIS through Tamil Nadu's experiences towards the inclusion of gender, urban poor, managing Self-Help Groups (SHGs) and supporting health, safety and livelihood of the sanitation workers to mid-level engineers from several organisations. These agencies included Urban Development Directorate, State Urban Development Agency, Peyjal Nigam, Jal Sansthan departments of Madhya Pradesh, Bihar, Chhattisgarh and Uttar Pradesh.

### SESSIONS

The sessions started with the brief introduction exercise and setting the context of FSSM CWIS work in Tamil Nadu. Participants were taken to visit On-site treatment systems at Kodappu to understand the working principles of different types of chlorine disinfection systems, RCC circular septic tank as an affordable model for urban poor. It was followed by visit to decanting station at Anna Stadium. Here participants understood the basics of co-treatment and the function of the various treatment facilities, including the decanting station at Main Pumping Station. Participants were explained about the interventions at the decanting station-its design, technology and monitoring. In the second half, participants travelled to Thuraiyur city to visit 20 KLD Gravity based FSTP. The plant operator explained about the treatment units, cluster approach taken and also clarified the doubts of participants. On the way to the FSTP, the participants also visited improved septic tank in inclusive Community toilet at RMS Colony. The community toilet was designed keeping the requirements in mind of women, men, children and disabled people and learned about the importance of proper containment structures and the interventions, outlining how the issues were identified and the structure was improved using the

adopted technology that ultimately improved the outlet parameters results.

Next day sessions started with the debriefing of previous day and context setting of work around inclusion within the scope of CWIS. Participants met the Municipal Commissioner, Trichy at Trichy City Corporation office. The Municipal Commissioner gave the overview of various work being done and initiatives taken by the Trichy City Corporation to streamline sanitation services in the city. Participants visited Ganeshapuram area to meet women Self Help Group (SHG) members, Sanitation workers and informal sanitation workers. The SHG member and workers shared about improvement in access to the various benefits like occupational ID cards, social security and welfare schemes, skill development training etc. Participants got an overarching understanding of different types of sanitation workers across the chain, their working arrangements, and the operationalization of different initiatives underway with a focus on livelihoods and welfare, especially for informal workers. The discussion with the SHG members gave the participants an idea as to how to converge various scheme-benefits for the SHGs.

On the last day the participants interacted with the women's enterprise and understood impact of the initiative in their livelihoods. They were explained the full chain between how women-led enterprise groups are formed, how they are linked to markets, and how they are empowered through sanitation-based livelihoods. After the visit, a closing session was helpful in which participants shared their experience and learning from the visit. Overall, it was a fruitful visit and concluded with a high note with excellent feedback from the participants.

In total 19 participants from the ULBs and parastals of Madhya Pradesh, Bihar, Uttar Pradesh & Chhattisgarh participated.

## ONLINE WORKSHOP ON CONTRACT MANAGEMENT

### BACKGROUND

Urban India has grown by nearly five times during the last fifty years, while the population of India has grown two and half times in the same period. India's Urban Population grew from reported 290 million in Census 2001 to an estimated 340 million in 2008. This process of urbanization has created a huge gap between demand and supply of urban services and infrastructure.

Contract Management is important throughout the entire process of the contract cycle and not just at award process, effective contract management will bear dividends for both employer and contractor to ensure a well-managed agreement in practical and logistical terms. Contracts, the foundation to every business relationship, are a legally binding agreement between the parties identified in the agreement to fulfil all the terms and conditions outlined in the agreement. A prerequisite requirement for the enforcement of a contract, amongst other things, is the condition that all the parties to the contract accept the terms of the claimed contract. One who is in charge of the project is known as the Employer. One who agrees to execute or perform is known as the Contractor.

Against this view point, Regional Centre for Urban and Environmental Studies (RCUES), Lucknow, under the auspices of Ministry of Housing and Urban Affairs, Government of India, New Delhi organized two, One day Online workshop on contract management for the Municipal Officials, Urban Planner and Urban Infrastructure Expert of Urban Local Bodies.

### OBJECTIVES

List of Online Workshops	
Date	No of Participants
01-Feb-23	30
02-Feb-23	18

- To discuss and deliberate on emerging issues and challenges in planning for infrastructure development projects and there implementation.
- To discuss the criterion and parameters for project formulation in the field of water supply, Sewerage, SWM and urban transportation
- To discuss the desirable contents in DPRs and essentials characteristics of Project development cycle.
- To discuss the procedures and legal issues in contract management.

### PARTICIPANTS

The workshop was organized for Executive Office, Sanitary & Food Inspector, Environmental Officer, Sub Engineer, Urban Planner, Urban Infrastructure Specialist, Dy. Quality Manager, Executive Engineer. Overall 48 participants attended the workshop.

### COORDINATION

The programme was coordinated by Mr Himanshu Chandra, Assistant Director, RCUES, Lucknow

The screenshot displays a Zoom meeting interface. On the left, a presentation slide titled "Contract Management" is shown, featuring the RCUES Lucknow logo and the text "By: Mr. Himanshu Chandra, Assistant Director RCUES, Lucknow". The main part of the screen shows a slide titled "O&M Stage" with a list of 7 targets for O&M. On the right, a flowchart titled "CONCESSION AGREEMENT" illustrates the process from KUIDFC to users, involving various stakeholders like KUWSDB, participating ULBs, and contractors.

## ONLINE WORKSHOP ON MICRO CREDIT FACILITY TO URBAN POOR (THROUGH SVANIDHI SCHEME)

### BACKGROUND

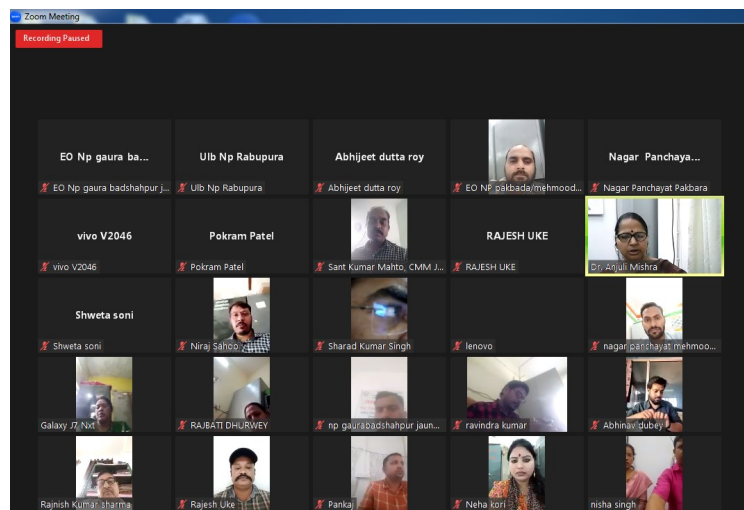
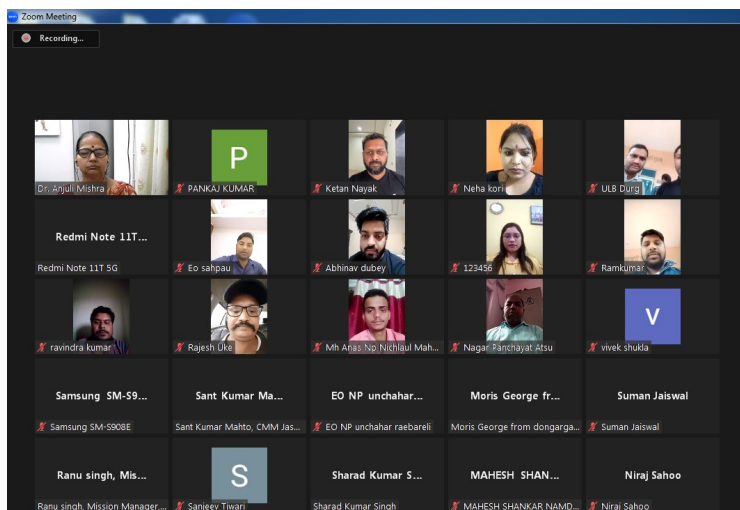
The outbreak of global pandemic COVID- 19 has led to massive devastation in India. In view of the global crises, Government of India declared a complete lock down in the country which has left a deep impact on the Street Vendors, labourers, migrant workers and all those marginalized communities who struggle hard for their survival. Government of India has declared a huge package of Rs. 20,00,000 crores for reviving Indian economy and providing relief to affected persons. The package of Self Reliance include governance reforms, credit support to urban street vendors, MSMEs, start up business, SHGs, relief to migrant workers, poor, and homeless etc. The role of urban local governments has massively increased in post lockdown situation in prevention, spread of pandemic disease, response, and protection of frontline workers and rehabilitation of urban poor. Street vendors play a significant role in ensuring availability of the goods and services at affordable rate at the door-step of the city dwellers. The COVID-19 pandemic and consequent lockdowns have adversely impacted the livelihoods of street vendors. They usually work with a small capital and their earnings are grossly inadequate to survive their families for long period and thus the savings along with capital are consumed. Therefore, there is an urgent need to provide credit for working capital to street vendors to resume their business. Prime Minister SVANidhi Scheme has been launched by government of India to support the urban street

List of Online Workshops	
Date	No of Participants
30-Jan-23	52
01-Feb-23	60
03-Feb-23	80
06-Feb-23	68
10-Feb-23	44
18-Mar-23	44
20-Mar-23	32
22-Mar-23	41

vendors in reviving their business and livelihood. Against this backdrop, eight trainings were organized. The training programmes purport to discuss and deliberate upon the provisions and procedures of the scheme so that it may be effectively implemented in urban centres.

### OBJECTIVES

- To highlight the imperatives of Aatma Nirbhar Bharat and emerging opportunities for urban poverty alleviation;
- To discuss and deliberate upon the various provisions and procedures of the Prime Minister SVANidhi Scheme;
- To highlight the Micro credit facility to urban poor through SVANidhi Scheme;
- To discuss the provisions of the SVANidhi se Samriddhi Scheme;
- To highlight the problems and challenges in implementation of Prime Minister SVANidhi Scheme and suggesting measures for its effective





implementation.

## PARTICIPANTS

The workshop was organized for Assistant Municipal Commissioner, Executive Officer, City Mission Manager, Accountant, District Programme Manager, Community Organiser, Office Assistant, City Mission Manager, Community Resource Person. Overall 421 participants attended the workshop.

## COORDINATION

The programme was coordinated by Dr Anjuli Mishra, Joint Director, RCUES, Lucknow

The screenshot shows a Zoom meeting interface. At the top, there's a header bar with the Zoom logo and a status bar indicating 'You are viewing Dr. Anjuli Mishra's screen'. Below this, a grid of participant video feeds is visible, including Dr. Anjuli Mishra, Sharad Kumar S..., Abhijeet dutta roy, Sharad Kumar Singh, and Abhijeet dutta roy. The main content area displays a presentation slide titled 'PM Street Vendor's Atma Nirbhar Nidhi'. The slide text reads: 'A special small interest based grant loan facility to restart livelihood/employment for the urban street vendors affected by the lockdown.' Below the slide, a list of participants is shown, including 88018163282, Eo Np Ujhari, Eo nigohi, Mohd Zuhaib, and Ranu singh, Mis... The bottom of the screen shows the Zoom meeting controls, including buttons for Unmute, Start Video, Security, Participants, Polls, Share Screen, Reactions, Apps, Whiteboards, More, and End.

### PM Street Vendor's Atma Nirbhar Nidhi

A special small interest based grant loan facility to restart livelihood/employment for the urban street vendors affected by the lockdown.

### Implementation Structure and Steering Committees

Level	Committee	Meeting Frequency
Central Level	Steering Committee, chaired by Secretary, Ministry of Housing and Urban Affairs	Quarterly meeting
State Level	Monitoring Committee, headed by Principal Secretary, Urban Development, U.P.	Meeting every month
District level	Monitoring and Progress review by the District Magistrate through in-charge local body	

The screenshot shows a Zoom meeting interface. At the top, there's a header bar with the Zoom logo and a status bar indicating 'You are viewing Dr. Anjuli Mishra's screen'. Below this, a grid of participant video feeds is visible, including Eo Enrich, vivo Y75, Np Bellarakala, Neelam Pandey Eo c..., and Dr. Anjuli Mishra. The main content area displays a presentation slide titled 'Micro Credit Facility to Urban Poor (through SVANidhi Scheme)'. The slide features a photograph of a building and the text: 'Dr. Anjuli Mishra Joint Director'. The bottom of the screen shows the Zoom meeting controls, including buttons for Unmute, Start Video, Security, Participants, Polls, Share Screen, Reactions, Apps, Whiteboards, More, and End.

### "Micro Credit Facility to Urban Poor (through SVANidhi Scheme)"

Dr. Anjuli Mishra  
Joint Director

## WORKSHOP ON UTTAR PRADESH STATE SEPTAGE POLICY & USED WATER MANAGEMENT

### BACKGROUND:

As a step towards achieving improved sanitation in urban areas of the state, the Urban Development Department of the GoUP has formulated “Uttar Pradesh State Septage Management Policy” (UPSSMP) which was approved by the Cabinet on 23 October 2019 in line with the National Policy on Faecal Sludge and Septage Management, 2017. This is a landmark resolve of the Government to improve the urban sanitation so as to achieve outcome levels impact on public health, environment quality and human dignity. The policy addresses much required guidance and directions to achieve the targets as laid out in the ODF++ and lends sustainability to the ODF status achieved under Swachh Bharat Mission (SBM) – Urban 2.0. On October 1, 2021 the Ministry of Housing and Urban Affairs (MoHUA), Government of India launched Swachh Bharat Mission-Urban 2.0.

List of Workshops		
Date	No of Participants	Venue
30-Jan-23	34	Mathura
23-Feb-23	26	Sant Ravidas Nagar
24-Feb-23	29	Mirzapur
25-Feb-23	25	Varanasi
15-Mar-23	42	Gorakhpur
16-Mar-23	25	Khushinagar
27-Mar-23		Deoria
28-Mar-23		Sant Kabir Nagar
29-Mar-23		AmbedkarNagar

The aim of this mission is to make ODF sustainable (ODF++) and ensure 100% used water (wastewater) is treated for reuse. The SBM 2.0 emphasizes on Used Water Management with special focus of Faecal Sludge & Septage Management as a new component.

Nonetheless, stakeholders from ULBs may need help







in deciphering the technical aspects of these Policy and operational guidelines. The referred Septage Policy and the Used Water Management component under SBM 2.0 have laid out clearly the implementation plan with time bound achievement of the targets. The workshops on Septage Management Policy and Used Water Management are a first step towards capacity building of all ULBs of Uttar Pradesh and implementation of this policy and SBM 2.0 guidelines. These workshops will inform all Municipal Bodies about the newly introduced policy and encourage them to prepare City Sanitation Plan for each of the ULBs and actively implement policy and SBM 2.0 initiatives in a timely and innovative manner.

Against this backdrop, RCUES, Lucknow organized 09, one day workshop on “Uttar Pradesh Septage Policy and Used Waste Management sponsored by Department of Urban, Government of Uttar Pradesh

### OBJECTIVES:

- To acquaint the participants with the need, importance, and objectives of Used Water Management with special focus of Faecal Sludge & Septage Management as new component of SBM 2.0.
- To acquaint the participants with the need, importance, and objectives of Uttar Pradesh State Septage Management Policy-2019.
- To aware the participants with City Sanitation

### Action Plan.

- To aware the participants with different types of Used Water Management System - On-site & Off-Site.
- To aware the participants with the Used Water Management Process – Containment/ Collection, Conveyance/Transportation, Treatment, and Disposal/Reuse.
- To highlight different technologies for Used Water Treatment with a comparative study of different technologies.
- To aware the participants with Faecal Sludge & Septage Management with special focus on Co-Treatment and additional methods.
- To aware the participants with Participatory Planning & IEC for effective Faecal Sludge & Septage Management.

### PARTICIPANTS

The workshop was organized for Sanitary & Food Inspector/ Chief SFI, Engineer, Officials related to SBM, District Programme Manager and District Coordinator under SBM Cell. Overall \*\*\* participants attended the workshops.

### COORDINATION

The programme was coordinated by DrAnjuli Mishra, Joint Director and Dr Rajeev Narayan, Deputy Director, RCUES, Lucknow.

## TRAINING ON INTEGRATED WASTEWATER AND SEPTAGE MANAGEMENT (IWSM) IN COLLABORATION WITH NIUA, NEW DELHI

### BACKGROUND

The launch of Swachh Bharat Mission (SBM) in 2014 ensured access to toilets to 100% of the Indian population, including urban areas, and encouraged by this success, Phase II of the Mission called SBM-U 2.0 was launched by the Government of India. Alongside the urban component of the Jal Jeevan Mission (JJM-U), the mission goes beyond the aim of eliminating open defecation in the country, by focusing on ODF+, ODF++ and Water+ protocols as laid down by the Ministry of Housing and Urban Affairs, GoI.

Faecal sludge and septage management as a solution to sanitation issues got traction after the National Policy on FSSM was released in 2017. The SBM-U 2.0 and JJM-U supplement this policy by focusing on pollution abatement through Interception of Drain (I&D) projects to transfer the wastewater generated in cities to Sewage Treatment Plants (STP). Under the SBM-U 2.0 and JJM-U financing component, the wastewater treatment funds would be allocated for desludging vehicles, interception & diversion of drains and for STPs with co-treatment of faecal sludge and septage at the STP.

I&D projects linked to STPs have been implemented in India before and although it takes less time for project implementation, the approach has its own challenges. Understanding the city profile, drains and change in seasonal discharge of the drains and rivers is quite critical.

Especially small and medium towns, with limited capacities and resources, face problems in planning

List of Training Programmes		
Date	No of Participants	Venue
19-21 Jan, 2023	26	Jabalpur, Madhya Pradesh
30 Jan - 01 Feb, 2023	40	Raipur, Chhattisgarh
02-04 Feb, 2023	31	Raipur, Chhattisgarh
08-10 Feb, 2023	38	Gwalior, Madhya Pradesh

and execution of projects. They do not have adequate capacities and technical know how on planning, executing and maintaining such projects. Moreover, there is a need to ensure that these projects are not treated merely as infrastructure building projects but as regional planning projects as well. Only then the economic feasibility and true benefits of such projects can be realized.

There are many I&D projects in India which should be studied diligently in order to avoid implementation challenges and mitigate the risks associated with the project planning and execution.

In this context RCUES Lucknow in collaboration with NIUA, New Delhi organized four, Training Programmes on Integrated Waste Water and Septage Management.

### OBJECTIVES

- To orient the participants about holistic Sanitation approaches on planning, implementation and management of wastewater and septage treatment solutions.







- ♦ How to prepare feasibility plan?
- ♦ How to select appropriate technology solutions (mechanized/ non mechanized)?
- To orient the participants about eradication of hazardous entry into sewers and septic tanks, and sustaining elimination of manual scavenging, through mechanization of sewer and septic tank cleaning operations

## SESSIONS

The training is designed to allow the officials to prepare/assess the wastewater management plans. This training is crucial for officials of cities to be able to achieve objectives under SBM-U 2.0.

The training focused on the SBM-U 2.0 program and IWSM component of the same. The training will provide a framework for feasibility and assessment, technology selection options, planning and implementation for the wastewater and septage treatment in towns. The participants of the training programme were given a brief introduction about Fecal Sludge and Septage Management. Participants were apprised about the Integrated Waste Water and Septage Management and Approaches for Waste Water Management. Approaches for Faecal Sludge and Septage Management.

The training comprised of case studies of various ULBs who have successfully implemented the systems based on Integrated wastewater management and septage management.



## PARTICIPANTS

Training Program was organized for Municipal Commissioner, Executive Officer, Chief Engineers, Executive Engineers, Assistant Engineers, City Managers, DPM, Urban Planner and Solid & Liquid Waste Management Experts etc. In total 135 participants attended the online programme.

## COURSE COORDINATOR

The training programme was coordinated by Mr Ajit Mishra, Assistant Director, RCUES, Lucknow.

## WORKSHOP ON USED WATER MANAGEMENT THROUGH BIO-PHYTOREMEDIATION

### BACKGROUND:

One in ten people in the world lack access to safe water. According to UNICEF, less than 50 percent of the population has access to safe drinking water in India. Hence, access to safe drinking water for every household is important, especially for the poor. To ensure access to drinking water supply, the Government of India has initiated Jal Jeevan Mission to provide safe and adequate drinking water through individual household tap connections by 2024. Along with water supply infrastructure and its management, safe water supply to all is also dependent on sustainable use of water through treatment and reuse.

Treatment and reuse of water are one of the key components of sustainable water use. The liquid waste treatment systems are centralized systems which require energy and technical expertise to operate and manage. These systems are inappropriate for developing countries due to shortage of resources and capacity. Furthermore, efficient use of treated water is difficult due to adequate distribution networks. In view of above CPHEEO issued recent guidelines and given the importance of the subject in various national programmes and missions (SBM 2.0, AMRUT 2.0, Namami Gange), In the context of increasing water

List of Workshops		
Date	No of Participants	Venue
01-Feb-23	39	Raipur, Chhattisgarh
04-Feb-23	30	Raipur, Chhattisgarh
10-Feb-23	29	Gwalior, Madhya Pradesh

scarcity competitive demands and widespread pollution, water resources have become one of the critical imperatives for livelihood. Drinking and Domestic water needs get the first priority among the various demands of water. Recently, the Government of India approved Phase II of Swachh Bharat Mission-Urban (SBM-U 2.0). Alongside the urban component of Jal Jeevan Mission (JJM-U), SBM-U 2.0 goes beyond the aim of eliminating open defecation in the country, by focusing on ODF+, ODF++ and Water+ protocols as laid down by the Ministry of Housing and Urban Affairs, Government of India. Government of India in Fifteenth Finance Commission, with a theme of water conservation drafted the policy for pond and water bodies rejuvenation making use of waste water and beautification of the pond as tourist spot as well as place for cultural activities decided to take up the pledge to transform degraded ponds in to lively water







bodies with restored aquatic ecology and saving the environment of the town. In this context Regional Center for Urban and Environmental Studies, Lucknow organized three, 01 day Workshop on Used Water Management through Bio- Phytoremediation.

#### **OBJECTIVES:**

To build the knowledge about concepts and potential of used water management.

#### **SESSIONS:**

Sessions included discussions and following suggestions were shared: proving to people that wastewater is not waste but an economic resource.

Wastewater manual/related documents are available in English. These should be translated in vernacular language and should be easily and freely available.

Document on best practices of wastewater should be prepared.

#### **PARTICIPANTS**

States Urban Development Departments, SBM/AMRUT Mission Directorates and Parastatal Bodies. Municipal functionaries, Planners, Engineers, Executive Officer and Nodal Officer of SBM. Overall 98 participants attended the trainings.

#### **COORDINATION**

The programme was coordinated by Mr Ajit Mishra, Assistant Director, RCUES, Lucknow.



## ONLINE TRAINING ON PROJECT MANAGEMENT

### BACKGROUND:

Urban India has grown by nearly five times during the last fifty years, while the population of India has grown two and half times in the same period. India's Urban Population grew from reported 290 million in Census 2001 to an estimated 340 million in 2008. This process of urbanization has created a huge gap between demand and supply of urban services and infrastructure.

Project management is the application of processes, methods, skills, knowledge and experience to achieve specific project objectives according to the project acceptance criteria within agreed parameters. Project management has final deliverables that are constrained to a finite timescale and budget. A project manager is the person responsible for leading a project from its inception to execution. This includes planning, execution and managing the people, resources and scope of the project.

### OBJECTIVES:

- To discuss and deliberate on emerging issues and challenges in planning for infrastructure development projects and their implementation

### List of Workshops

Date	No of Participants
02-Feb-23	29
01-Mar-23	25
02-Mar-23	19
03-Mar-23	19

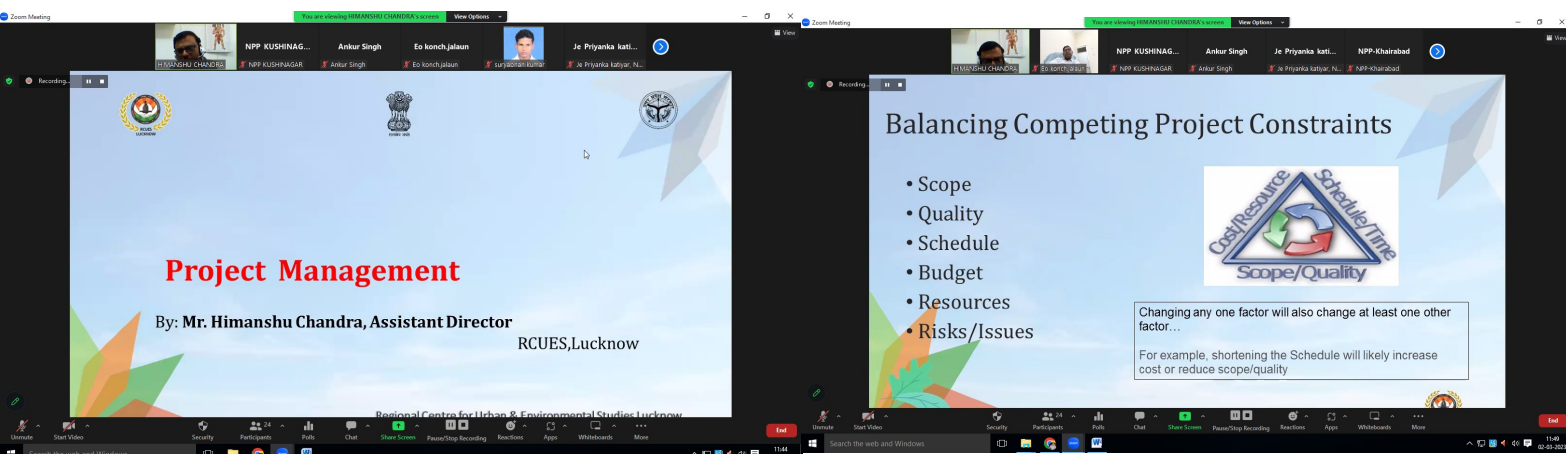
- To discuss the criterion and parameters for project formulation in the field of water supply, Sewerage, SWM and urban transportation
- To discuss the desirable contents in DPRs and essentials characteristics of Project development cycle.
- To discuss the procedures and legal issues in Project management

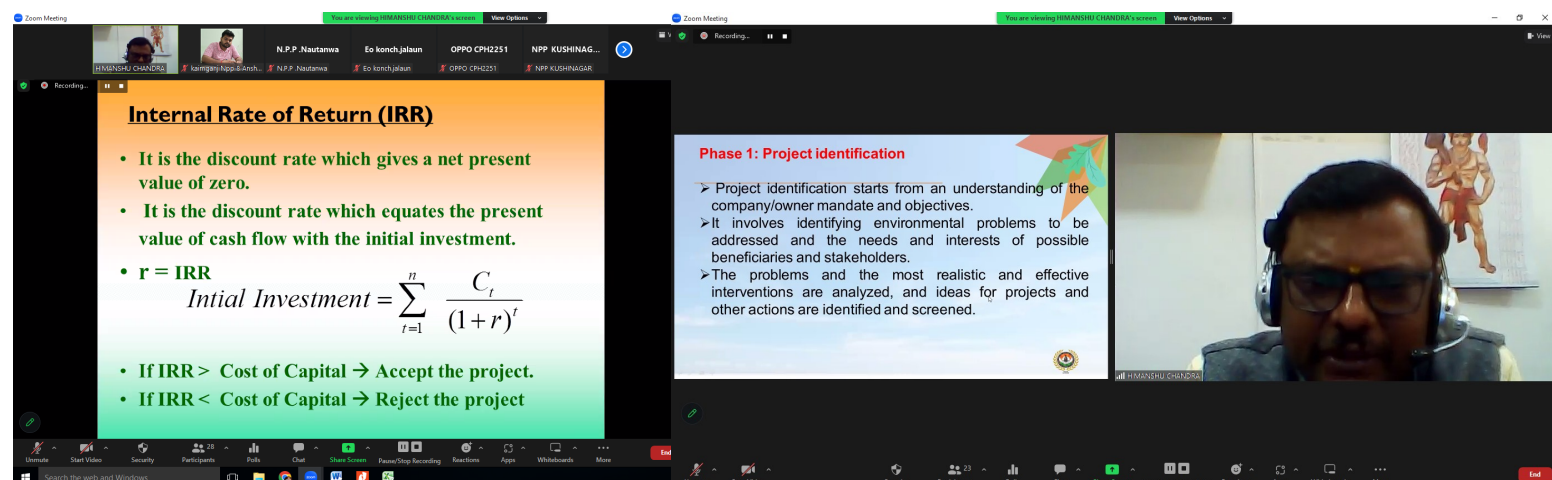
### SESSIONS

- Session I: Project Management
- Session II:

Project Appraisal

Pay Back Period-PBP.





NPV –Net Present value

IRR -Internal Rate of Return

## PARTICIPANTS

Executive officers, Urban Infrastructure expert of Cities, Engineers who are implementing the AMRUT, SBM & Smart Cities projects, Nagar Nigam and Nagar Parishad Administrative Officer and engineers engaged in infrastructure Sector. In total 92 participants attended the trainings.

## COORDINATION

The programme was coordinated by Mr Himanshu Chandra, Assistant Director, RCUES, Lucknow.

## INNOVATIVE TECHNOLOGIES –SUPPLY MONITORING USING IOT, WATER TAPPING & TREATMENT, LEAK DETECTION USING ROBOTICS AND AUTOMATION USING SCADA UNDER JAL JEEVAN MISSION (L-2)

### BACKGROUND:

The Regional Centre for Urban and Environmental Studies Lucknow (RCUES) which is National Level Key Resource Centre, under Jal Jeevan Mission, conducted two, Level II Residential Training Programme for Engineers on Innovative Technologies –Supply Monitoring Using IoT, Water Tapping & Treatment, Leak Detection Using Robotics and Automation Using Scada under Jal Jeevan Mission at Lucknow.

### OBJECTIVES:

The two 2 days training were designed with the aim of providing a wider understanding of the various technical aspects for effective implementation of Drinking water supply schemes being implemented in state under Jal Jeevan Mission. The objective was to train the functionaries on making drinking water projects more sustainable at the ground level. The participants were provided training on methodologies and procedures of leak detection using IoT Sensors, automation of water supply systems using SCADA, water quality and treatment, water tapping for reducing Non- Revenue water, integrated management information system on drinking water. Group exercises were also conducted to provide hands on training to the participants.

List of Workshops	
Date	No of Participants
09-10 February, 2023	38
20-21 February, 2023	32

### SESSIONS:

The programme was inaugurated by Director, Dr. Nishith Rai. During the inaugural address he emphasized on Interstate cross learning for making the Jal Jeevan Mission sustainable in the long run. He deliberated on the importance of technology and advancement in various phases of water supply chain. Dr Alka Singh, Deputy Director presented the details of Measurement and monitoring of water service delivery in Rural Areas under Jal Jeevan mission.

The two-day long program was organised by RCUES Lucknow and supported by the Ministry of Jal Shakti, Government of India. The training was appreciated by the participants and they found the training very useful and effective in using this knowledge for better implementation of the projects at the ground level.





## PARTICIPANTS

The workshop was attended by Engineers from PHED Department, Madhya Pradesh, Uttar Pradesh Jal Nigam (Grameen), PMU, West Bengal PWSP Department, and SWSM Department Maharashtra. Superintending Engineer, Executive Engineer, Assistant Engineer, Junior Engineer, Billing Engineer & Sub Engineer from Uttar Pradesh, West Bengal, Madhya Pradesh, New Delhi, Tripura & Maharashtra.

Overall 70 participants attended the trainings.

## COORDINATION

The programme was coordinated by Dr. Alka Singh, Deputy Director & Mr. Himanshu Chandra, Assistant Director, RCUES, Lucknow.



# OPERATIONAL TRAINING ON INFANT, TODDLER AND CARE GIVER FRIENDLY NEIGHBORHOOD UNDER ITCN CAPACITY BUILDING PROGRAMME

## PURPOSE & OBJECTIVE OF TRAINING:

The National Institute of Urban Affairs (NIUA), Government of India, New Delhi, established the 'Infant Toddler and Caregiver-friendly Neighborhoods (ITCN) Training and Capacity Building Programme' in collaboration with the Bernard van Leer Foundation (BvLF). The programme was created to assist in the development of city authorities' and young professionals' capacities for the development of young children and family-friendly communities in Indian cities. The task of conducting training and capacity building for ULBs officials and State Government officials has been assigned to RCUES, Lucknow.

Babies and toddlers are the world's top learners, growing and learning at a breakneck pace before reaching their fifth birthday. Their brains develop at a faster rate than at any other point in life, and their experiences have a long-term impact on their physical and mental health, as well as their ability to learn and relate to others. One of the most crucial aspects of a healthy, peaceful, and creative society and country is a decent start for all children. The relationships that an infant or toddler has with the adults in their lives have the greatest impact on their development. These individuals are in charge of a child's safety and well-being, as well as what they eat and how they view the world. They require proper nutrition and healthcare, as well as safety, time to play, and loving interactions with adults. Cities can be lovely places to grow up, but they can also present severe health and well-being difficulties for babies, toddlers, and their caregivers, ranging from a lack of natural and safe play spaces to air pollution and traffic congestion, as well as social isolation. The objective of the initiative is to ensure that cities scale the opportunities of safe, healthy and stimulating places—with opportunities to learn, create,

List of Workshops	
Module	Date
MODULE 1	14-Feb-2023
MODULE 2	15-Feb-2023
MODULE 3	16-Feb-2023
MODULE 4	17-Feb-2023

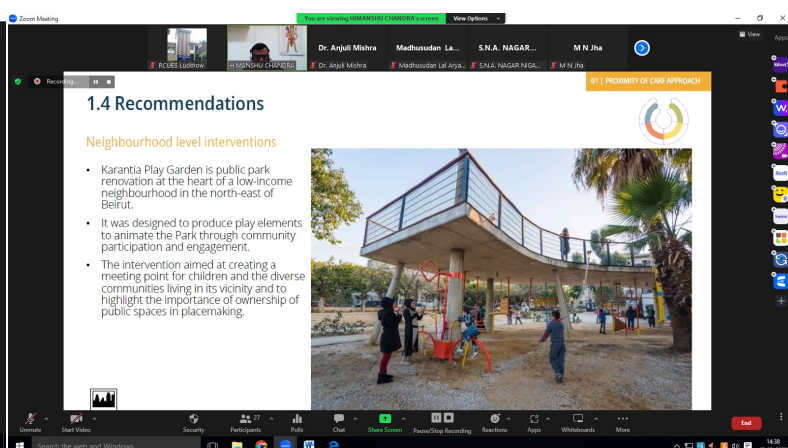
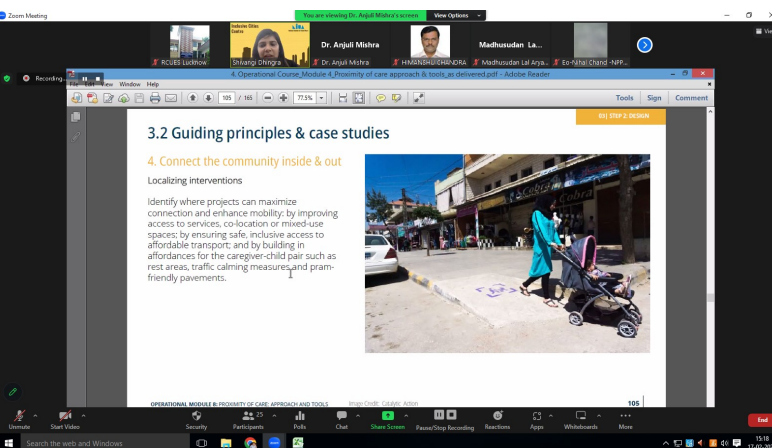
imagine, play and grow—across all neighborhoods to reach as many families as possible. Against this backdrop, an Operational programme was organized by the Regional Centre for Urban and Environmental Studies, Lucknow on February 14-17, 2023.

## PARTICIPANTS

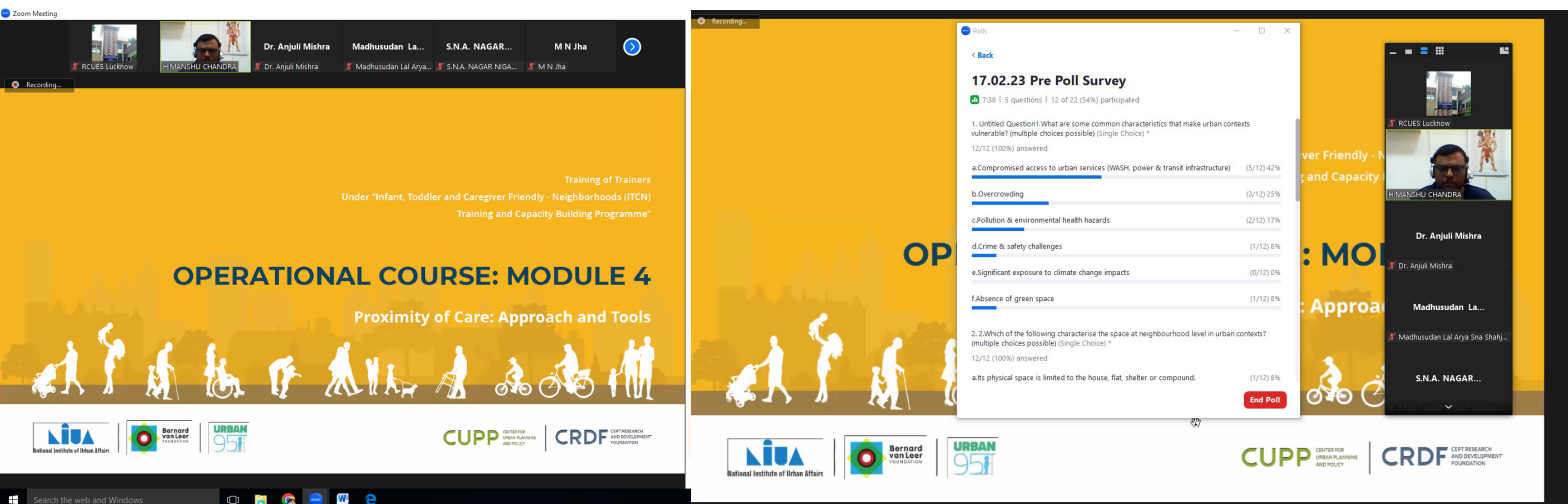
Overall, 31 Municipal Officials from ULBs, Department of Urban Development, Department of Housing and Urban Planning as well as Town & Country Planning organisation, Government of Uttar Pradesh participated in the programme.

## COORDINATION

The Training was conducted jointly by Dr. Anjali Mishra, Joint Director, Dr. A. K. Singh, Assistant Director and Mr. Himanshu Chandra, Assistant Director, RCUES, Lucknow.







Dr. Sameer Sharma, Chief Advisor to CM Andhra Pradesh & Chairman Andhra Pollution Control Board visited RCUES Lucknow on 27th Jan 2023.



## ONLINE TRAINING ON INCLUSIVE HOUSING POLICY (PMAY-URBAN)

### BACKGROUND

Pradhan Mantri Awas Yojana (Urban), a flagship Mission of Government of India implemented by the Ministry of Housing and Urban Affairs (MoHUA), was launched on 25th June 2015. The Mission addresses urban housing shortage among the EWS/LIG and MIG categories including the slum dwellers by ensuring a pucca house to all eligible urban households by the year 2022, when nation completes 75 years of its Independence. PMAY (U) adopts a demand driven approach wherein the Housing shortage is decided based on demand assessment by States/UTs. All houses under PMAY(U) have basic amenities like toilet, water supply, electricity and kitchen. The Mission promotes women empowerment by providing the ownership of houses in name of female member or in joint name.

Preference is also given to differently abled persons, senior citizens, SCs, STs, OBCs, Minority, single women, transgender and other weaker & venerable sections of the society. A PMAY(U) house ensures dignified living along with sense of security and pride of ownership to the beneficiaries.

COVID-19 pandemic has resulted in reverse migration of urban migrants/ poor in the country. Urban

### List of Workshops

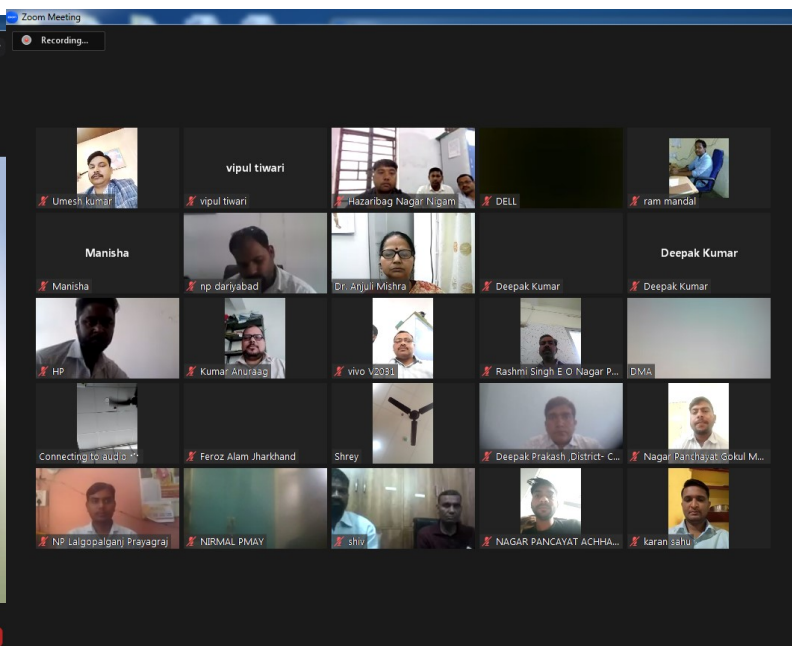
Date	No of Participants
24-Feb-23	51
28-Feb-23	62
03-Mar-23	67

migrants stay in slums/ informal settlements/ unauthorised colonies/ periurban areas to save cost on housing. They need decent rental housing at affordable rate at their work sites. In order to address this need, Ministry of Housing & Urban Affairs has initiated Affordable Rental Housing Complexes (ARHCs), a sub-scheme under Pradhan Mantri Awas Yojana- Urban (PMAY-U).

This will provide ease of living to urban migrants/ poor in Industrial Sector as well as in non formal urban economy to get access to dignified affordable rental housing close to their workplace. In this context, five Online Training programmes on Inclusive Housing policy (PM Awas Yojana (Urban)).

### OBJECTIVES

- To highlight the status of urban poverty and approaches for its alleviation;





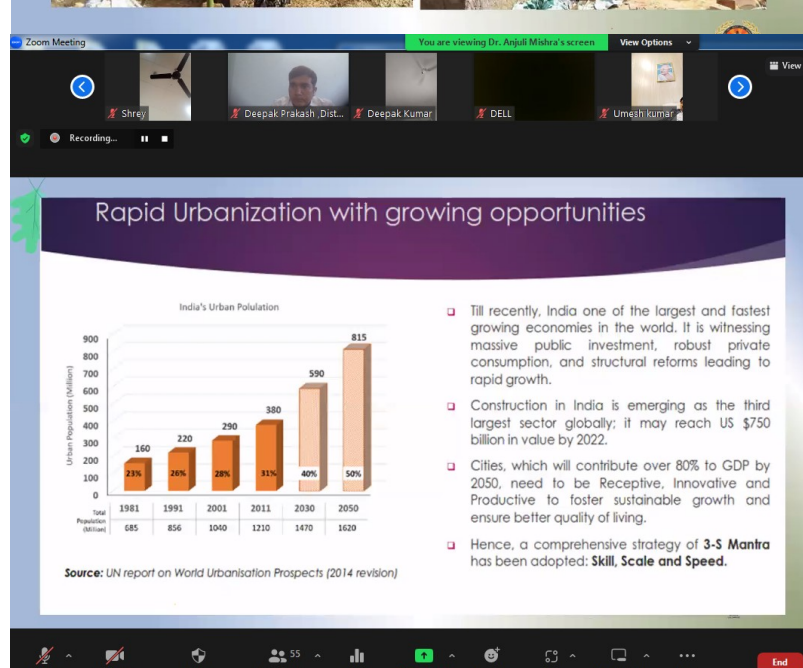
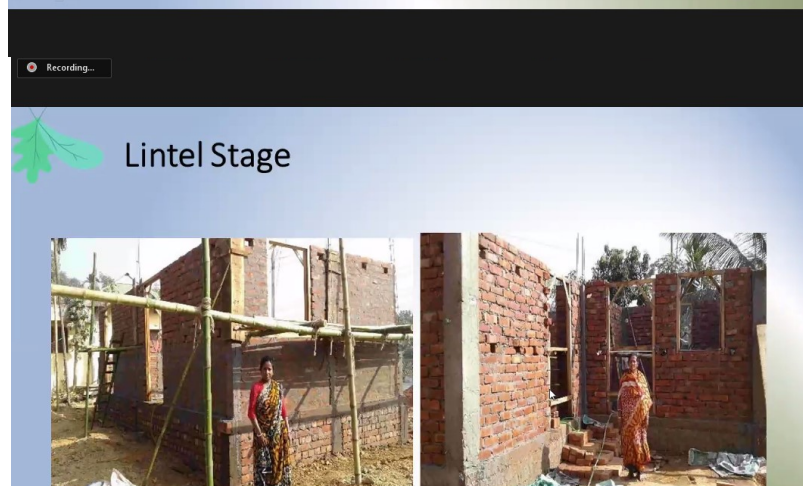
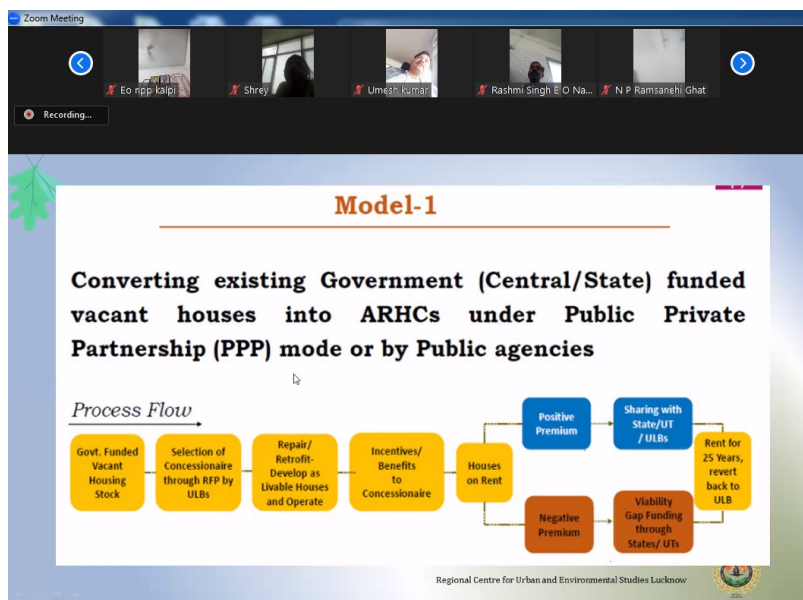
- To discuss and deliberate upon the various provisions and procedures of the Pradhan Mantri Awas Yojana;
- To highlight the problems and challenges in implementation of Pradhan Mantri Awas Yojana and suggesting measures for its effective implementation.
- To highlight the main features and provisions under Affordable Rental Housing Complexes (ARHCs), a sub-scheme under Pradhan Mantri Awas Yojana.

## PARTICIPANTS

The online training was aimed at Municipal Commissioners /Additional Municipal Commissioners/ Deputy Municipal Commissioners / Assistant Municipal Commissioners, Executive Officers/ Chief Municipal Officers, Concerned Officials of City Level Technical Cell Under PMAY(U). In total 146 participants attended the training.

## COORDINATOR:

The training programme was coordinated by Dr Anjali Mishra, Joint Director, RCUES, Lucknow.



## ONLINE TRAINING ON INCLUSIVE URBAN DEVELOPMENT

### BACKGROUND:

The concept of inclusive growth and development has gained momentum in the changing economic environment and policy regime. The term is widely used for inclusion of weaker, vulnerable and marginalized population in growth and balanced spatial development. The concept of inclusive city is derived from the idea that the city belongs to all its inhabitants. Inclusive urban planning is imperative for empowering urban poor and mainstreaming in urban development. Government of India has also launched several programmes and schemes for infrastructure development, improving slums and housing development for the poor and weaker sections of the society. However, inclusive planning requires involvement and participation of community in effective implementation of the schemes and programmes besides separate schemes for the urban poor and other marginalized communities for their mainstreaming and empowerment.

Women constitute half of the urban population. However, they have a very limited role to play in urban governance and decision making as they are not sufficiently and properly represented in the Urban Local Bodies. Though the functions and working of ULBs affect every man and woman, the latter has no or very minimal role as they are under-represented in

### List of Workshops

Date	No of Participants
04-Mar-23	20
14-Mar-23	31
31-Mar-23	26

leadership positions in local government institutions until recently. In many cities, urban planning is gender blind and there is lack of women friendly infrastructure and delivery of civic services. In order to promote gender equality and inclusive development, it is crucial that development policies, programmes, schemes, and institutional resources all converge. Additionally, it is necessary to revise current urban development plans and initiatives so that gender issues may be taken into account and women's concerns can be successfully handled.

Against this backdrop, RCUES, Lucknow organized three, online training programmes on **“Inclusive Urban Development”** to deliberate upon the pertinent issues and dimensions of inclusive urban development, gender needs and approaches, gender budgeting and inclusive urban planning **OBJECTIVES:**

- To highlight the policy perspective and theoretical framework of inclusive urban





**Introduction**

- Inclusive urban planning and development is gaining momentum in the context of economic liberalization, globalization and new policy regime.
- The 11<sup>th</sup> Five Year Plan has emphasized on inclusive policies, programmes and schemes for mainstreaming and empowering weaker sections of the society particularly urban poor, marginalized and women.
- The concept of inclusive growth and development has gained momentum in the changing economic environment and policy regime.

**Women Representation in ULBs of Selected States**

State	No. of ULBs	Total No. of Elected Representatives in ULBs	Total No. of Male Councilors	Total No. of Women Councilors	Percentage of Women Councilors
Uttar Pradesh	653	12161	7266	4895	40.25
Chhattisgarh	168	3385	2257	1128	33.32
Madhya Pradesh	378	6706	3362	3344	49.87
Bihar	143	3358	1673	1658	49.37
Jharkhand	51	1061	513	547	51.56
Manipur	27	305	156	149	48.85

development;

- To examine the gender needs and approaches in urban local governments;
- To discuss the scope of gender inclusive urban planning and budgeting in ULBs.

## PARTICIPATION :

The Executive Officers, and other municipal officials of Nagar Panchayats of Uttar Pradesh attended the programmes. Overall, 77 municipal officials attended these programmes.

## SESSIONS:

Two sessions on Gender Inclusive Urban Development, and Gender Inclusive Urban Planning were delivered.

## FACULTY:

Both External and Internal faculty was used for the programmes. Dr. Abhishek Awasthi, Associate Professor, Centre for Environment and Sustainable Development, Maharaja Agrasen University, Baddi, Solan, Himachal Pradesh; and Dr. A. K. Singh, Assistant Director, RCUES, Lucknow delivered the sessions.

## COORDINATION:

Dr. A. K. Singh, Assistant Director, RCUES, Lucknow coordinated the programmes.

## ORIENTATION TRAINING PROGRAMME UNDER AMRUT 2.0

### BACKGROUND:

To facilitate ease of living to citizens, Atal Mission for Rejuvenation and Urban Transformation (AMRUT), was launched in 500 cities on 25<sup>th</sup> June 2015, as a first focused national water Mission. AMRUT aimed to provide universal coverage of water supply by providing 1.39 crore household tap connections. Likewise, coverage of sewer/septage connections were proposed to increase from 31% to 62% by providing 1.45 crore connections. So far, 1.12 crore tap connections and 87 lakh sewer connections have been provided. Sewage treatment plants of capacity 1,800 MLD have been created; out of this 907 MLD is being reused. This Mission has decreased disease load and improved quality of life of all, especially women in terms of time and energy saved to be put to constructive use.

In order to meet SDG-6 to substantially increase water-use efficiency across all sectors and to extend ease of living in water sector from 500 to all statutory towns, Atal Mission for Rejuvenation and Urban Transformation 2.0 (AMRUT 2.0) has been launched. This will also ensure 100% coverage of sewerage/septage management in 500 AMRUT cities. AMRUT 2.0 is a step towards AatmaNirbhar Bharat with aim of making the cities 'water secure' and providing functional water tap connections to all households. This will be achieved through circular economy of water by effecting water source conservation, rejuvenation of water bodies and wells, recycle/ reuse of treated used water, and rainwater harvesting by involving **community at large**. This Mission will be run as people's program i.e. **Jan Aandolan**. Mission also targets to provide 100% sewage/ septage management in 500 AMRUT cities. Mission has a reform agenda focused towards financial sustainability and water security of ULBs and also encourage smart elements to be incorporated in every project. Outcome

based funding is to be considered for the outcomes achieved with respect to sewer and water connections after the launch of AMRUT 2.0 by projects taken up by States/UTs and achievement beyond baseline established for the city as on 1 November 2021.

Capacity building is an important component under this mission. Capacity Building will be taken up for elected representatives, ULB functionaries, contractors & their staff and citizens. Purpose of capacity building is to enhance the functional knowledge and improve the job-related skills of targeted groups.

RCUES Lucknow has played a very pivotal role in building the capacities of municipal functionaries since the launch of the AMRUT Mission in 2015. Now keeping in view the new focus areas under Atal Mission for Rejuvenation and Urban Transformation 2.0 (AMRUT 2.0), RCUES Lucknow has initiated capacity building activities under this mission.

Three days Orientation training programme under Atal Mission for Rejuvenation and Urban Transformation 2.0 was conducted by RCUES Lucknow for municipal functionaries of Uttar Pradesh on 16-18 March, 2023 at RCUES Lucknow.

### OBJECTIVES:

The programme was designed with to achieve following objectives:

- To orient the participants with AMRUT 1.0 achievements and Overview of AMRUT 2.0
- To acquaint the participants with admissible Elements of Projects under AMRUT 2.0
- To discuss the Reforms Agenda to be achieved under AMRUT 2.0







- To aware the participants about different Action Plans to be prepared under AMRUT 2.0
- To discuss the city level strategies for Recycle & Reuse of Treated Used Water
- To discuss city level action plan for Rejuvenation of Water Bodies (including Urban Wetland) & Creation of Green Spaces and Rain Water Harvesting
- To discuss the Pey Jal Survekshan toolkit and prepare the ULBs for undertaking Survekshan
- To discuss the Project and Financial Management aspects for projects undertaken under the Mission and to augment the funding through Public Private Partnership.
- To discuss E-governance and E-office reforms to be undertaken by the ULBs
- To aware participants about implementation strategies for GIS Based Master Plans of Class-II Towns
- To aware the participants with various IEC & Participatory Planning tools methods for involving community in management of water infrastructure and quality assessment
- To discuss varies strategies for Convergence and Synergies between different missions to ensure effective outcomes of the Mission

#### TRAINING SESSIONS:

15 technical sessions were conducted across 3 days training programme, the sessions covered following topics:

- AMRUT 2.0: Overview of AMRUT 1.0 and 2.0
- Admissible Elements of Projects under AMRUT 2.0
- Reforms to Achieved under AMRUT 2.0
- Different Action Plans to be prepared under AMRUT 2.0
- Group Exercise on Preparation of Action Plans under AMRUT 2.0
- Recycle/ Reuse of Treated Used Water
- Rejuvenation of Water Bodies (including Urban Wetland) & Creation of Green Spaces.
- Rain Water Harvesting
- Pey Jal Survekshan
- Project and Financial Management
- E-governance and E-office
- GIS Based Master Plans of Class-II Towns
- IEC & Participatory Planning
- Convergence/ Synergies for Effective Outcomes of Mission
- Public Private Partnership under AMRUT 2.0

#### PARTICIPANTS

The 3 days training programme was attended by 31 officials from Urban Local Bodies of Uttar Pradesh which included Executive officers, Engineers, Tax Assessment Officers, Sanitary Inspectors, Revenue Inspectors, District Programme Managers and other administrative staff of ULBs.

#### COORDINATOR:

The programme was coordinated and conducted by Dr. Alka Singh, Deputy Director and Dr. Nasruddin, Assistant Director, RCUES Lucknow.

## ONLINE TRAINING ON MANAGEMENT OF WATER RESOURCES

### BACKGROUND:

Rapid urbanisation and population growth, coupled with no added raw water sources, archaic water infrastructure and inefficient water governance, means that most Indian cities are ill-equipped to handle the increasing water scarcity and water stress. Climate change impacts will only aggravate the situation; rising temperatures could cause the periodic drying up of captive water sources. The problems range from poor management of water sources, contaminated supplies, leaky distribution networks and vast volumes of untreated wastewater being poured into India's rivers. More alarmingly, the long-term, indiscriminate extraction of groundwater is making water tables fall rapidly in most Indian cities. Groundwater is the main source of domestic water supply for rural and urban India as more than 80 per cent of it is supply sourced through it, making the country the largest user of groundwater in the world.

This ever-increasing imbalance of water availability and requirement can be catered either by capturing the water overflowing the continental regions i.e. river/stream through dams and/or by capturing the available rain water at the place of supply itself. The captured rain water may either be stored directly or as ground water through artificial recharge techniques. The process of capturing and storing rainwater is known as rainwater harvesting. Wastewater is increasingly recognized as a reliable and

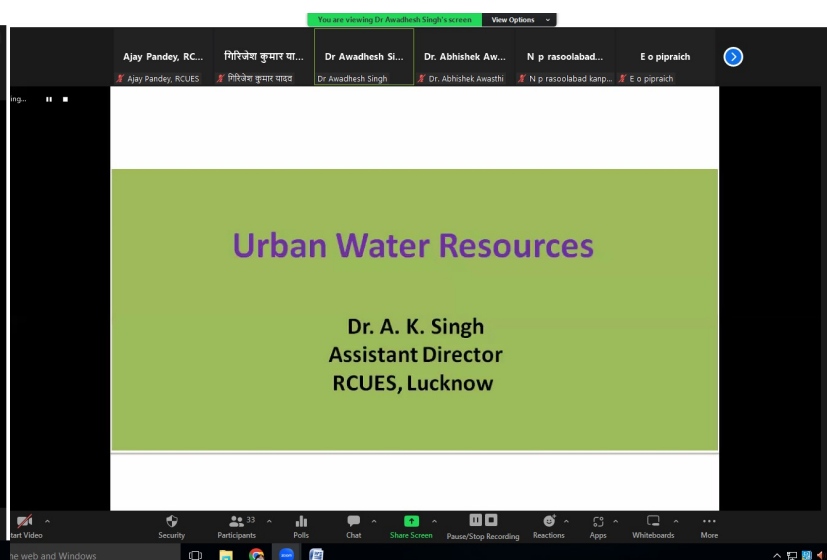
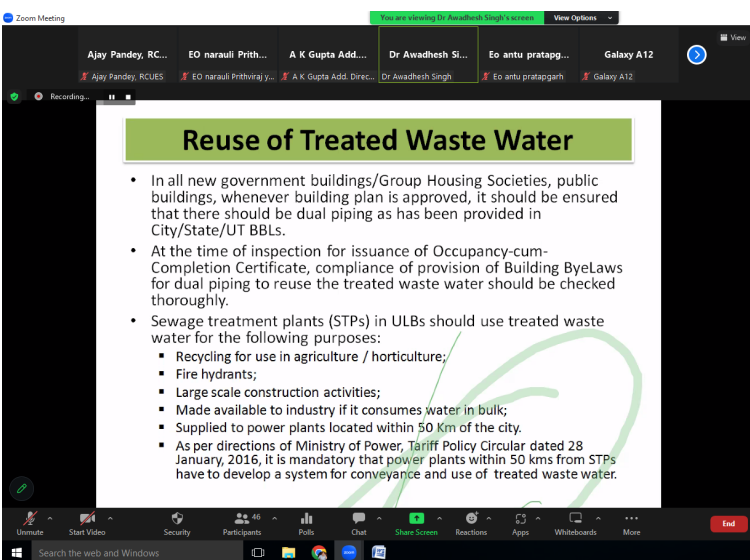
List of Trainings	
Date	No of Participants
23-Mar-23	20
24-Mar-23	31
25-Mar-23	26

cost-effective source of freshwater for various purposes. Wastewater treatment aims to improve the quality of “used” water sources to reduce contaminant levels below sectoral quality thresholds for re-use or to minimize the environmental impacts of wastewater return flows.

Against this backdrop, RCUES, Lucknow organized three online training programmes on “**Management of Water Resources**” to deliberate upon the pertinent issues and dimensions of water resources, conservation and rejuvenation of water bodies and waste water management.

### OBJECTIVES :

- To highlight the critical areas of urban water resources and imperative need of integrated water resources management;
- To acquaint the participants regarding aquifer management and rain water harvesting ;
- To discuss the scope of rejuvenation of water bodies and waste water management. .





## **.PARTICIPATION:**

The Executive Officers and other municipal officials of Nagar Panchayats of Uttar Pradesh attended the programmes. Overall, 77 municipal officials attended these programmes.

## **SESSIONS:**

Two sessions on Urban Water Resources Management; Conservation of Water Resources, Rain water Harvesting and Rejuvenation of water Bodies were held

## **COORDINATION:**

Dr. A. K. Singh, Assistant Director, RCUES, Lucknow coordinated the programmes.

Zoom Meeting

You are viewing Dr. Abhishek Awasthi's screen

Ajay Pandey, RCUES | Dr. Abhishek Awasthi | Dr. Awadhesh Singh | Atul singh eo np dha... | EO JEWAR | E o pipraich

Recording

- Irrigation perhaps the most important input in the agriculture production compared to all other key inputs like seed, fertilizer, etc.
- In fact, these inputs cease to realize their full benefit unless combined with irrigation. As with all countries with large agricultural output, excess water consumption for food production depletes the overall water table.
- India has made massive improvements to both the availability and quality of municipal drinking water systems, however, due to increase in population and rapid growth in India's urban areas, water scarcity is a looming problem in most major cities across the country.

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Search the web and Windows

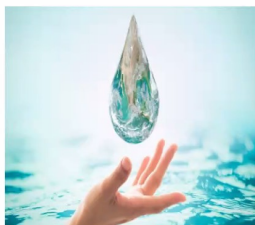
Zoom Meeting

You are viewing Dr. Abhishek Awasthi's screen

Ajay Pandey, RCUES | Dr. Abhishek Awasthi | EO JEWAR | E o pipraich | EO narauli VIJA... | EO narauli VIJA...

Recording

### Water Conservation Projects And Methods Adopted In India: Tips To Conserve Water At Home



Water scarcity is one of the serious concerns for countries across the world. In 2019, Chennai made international headlines when the civic bodies declared 'Day Zero', as the city ran out of water and all the reservoirs dried up.

A report by NITI Aayog, said that if methods for water conservation in India were not adopted, another 20 cities including Bengaluru, Delhi and Hyderabad, would run out of groundwater in the next few years. The only solution to avoid this grim situation, is to adopt universal methods of water conservation, which could be replicated across households. To understand water conservation and

Start Video | Security | Participants | Polls | Chat | Share Screen | Reactions | Apps | Whiteboards | More

Search the web and Windows

## ONLINE TRAINING ON ROAD SAFETY AND TRAFFIC MANAGEMENT

### BACKGROUND:

In today's world road and transport has become an integral part of every human being. Everybody is a road user in one shape or the other. The present transport system has minimized the distances but it has on the other hand increased the life risk. Every year road crashes result in loss of lakhs of lives and serious injuries to crores of people.

In India Two-wheelers are the most vulnerable and unprotected road users killed in road accidents in the country every year. The share of two wheeler user killed in accidents increased from 31.5 per cent in 2015 and to 34.8 per cent in 2016.

Our aim of this training programme is to provide road safety information for road users to encourage safer road user behaviour among current and prospective road users and reduce the number of people killed and injured on our roads every year.

### PARTICIPANTS

Municipal officials, Urban Planners, Urban Infrastructure expert of Cities, Town planning officer in TCPO departments, Traffic Engineers who are

List of Trainings	
Date	No of Participants
06 March 2023	27
14 March 2023	35
29 March 2023	34
29 March 2023	20
29 March 2023	19

implementing the Transport projects, Nagar Nigam and Nagar Parishad Administrative Officer and engineers engaged in Urban Transport Sector. In total 135 participants attended the online trainings.

### OBJECTIVES:

- To develop an understanding Roads Safety
- To develop an understanding on aspects of Road Safety audits
- To understand the design aspects of Urban Transport Planning
- To suggest suitable policy measures for urban transport planning and sustainable over road safety

### SESSIONS:





## Session I: Introduction

## Session II: Roads Safety and its Audits

## COORDINATION

The programme was coordinated by Mr. Himanshu Chandra, Assisstant Director, RCUES, Lucknow.

## ONLINE TRAINING ON URBAN TOURISM

### BACKGROUND:

Urban tourism planning is an important factor for all urban centers. Cities should pursue their strategies in order to highlight the attractions and to give tourists a wide range of services.

Tourism has become a complex activity, having an important role in the national economy, in some state being even the main branch in the economy.

Tourism has emerged as one of the most important industry of the future.

The Multiplier effects of tourism in terms of employment generation, income generation, development of tourism infrastructure and also conservation of priceless heritage, cultural deposits and development of potential tourism places are significant.

India's travel and tourism industry generated \$ 234.0 billion and 41.6 million employment in 2017 and is ranked 7th in the world in terms of its overall contribution to the nation's GDP .

### List of Trainings

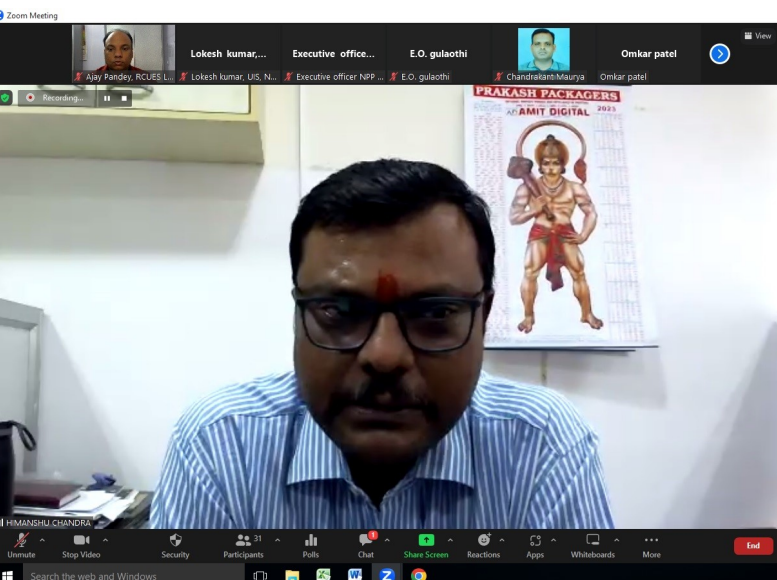
Date	No of Participants
31 March 2023	32
31 March 2023	21
31 March 2023	27

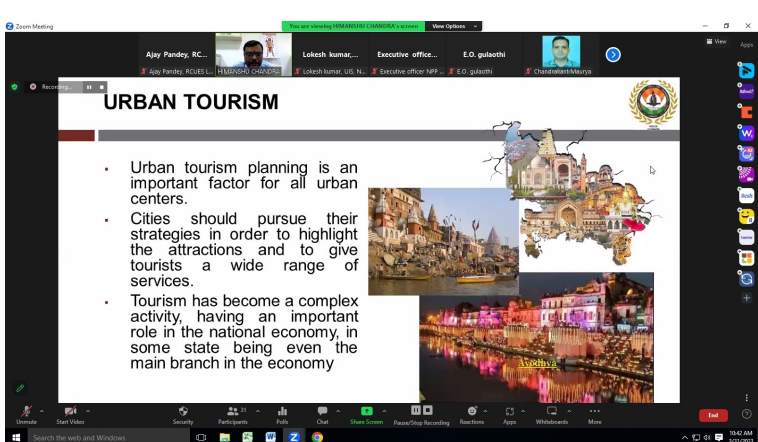
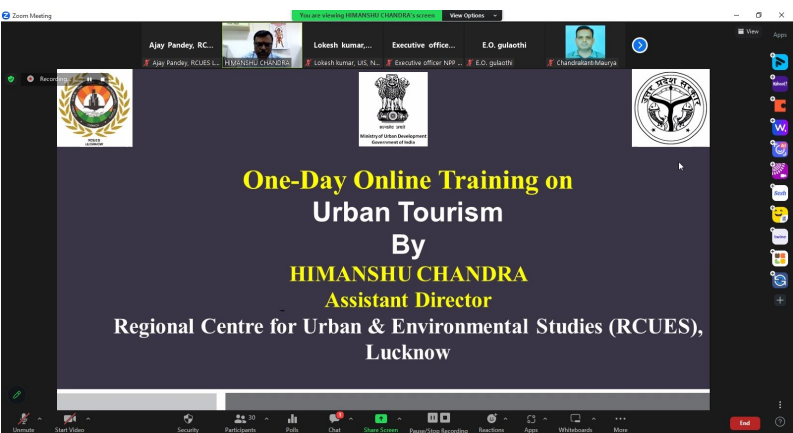
### PARTICIPANTS

Officials from Religious & Heritage importance cities of Uttar Pradesh Municipal officials, Urban Planners, Urban Infrastructure expert of Cities, who are implementing the projects, Nagar Nigam and Nagar Parishad Administrative Officer and engineers engaged in religious & Heritage cities. In total 80 participants attended the online trainings.

### OBJECTIVES:

- To assess floating population requirement and their stay at various destinations;
- To build capacity in developing social and physical infrastructure and amenities to facilitate visitors;





- How to develop recreational and other cultural events to attract tourists;
- To understand the design in Developing pleasure activities and professional service providers

## COORDINATION

The programme was coordinated by Mr. Himanshu Chandra, Assistant Director, RCUES, Lucknow.

Urban Tourism
Urban Tourism
Urban Tourism



## ONLINE TRAINING ON WATER BODIES REJUVENATION & CREATION OF GREEN SPACES IN ULBS

### BACKGROUND

Water is the most prime factor for sustenance of life. It exists in different forms such as rainfall, river water, ground water, ponds and lakes etc. Therefore management of water resources call for integrated management of all these components as a system. As per the information available with the Ministry of Water Resources, River Development and Ganga Rejuvenation about 2.7 per cent of the total water available on the earth is fresh water, of which about 75.2 per cent lies frozen in polar regions and another 22.6 per cent is present as ground water. The rest is available in lakes, rivers, atmosphere, moisture, soil and vegetation.

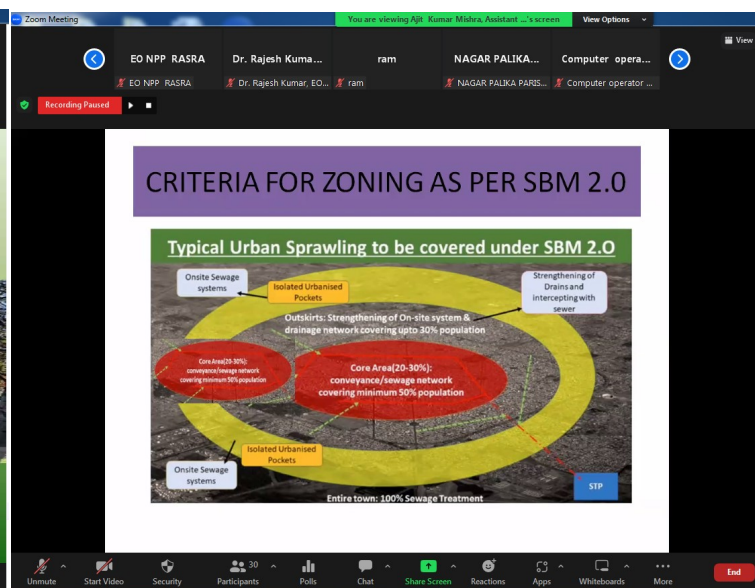
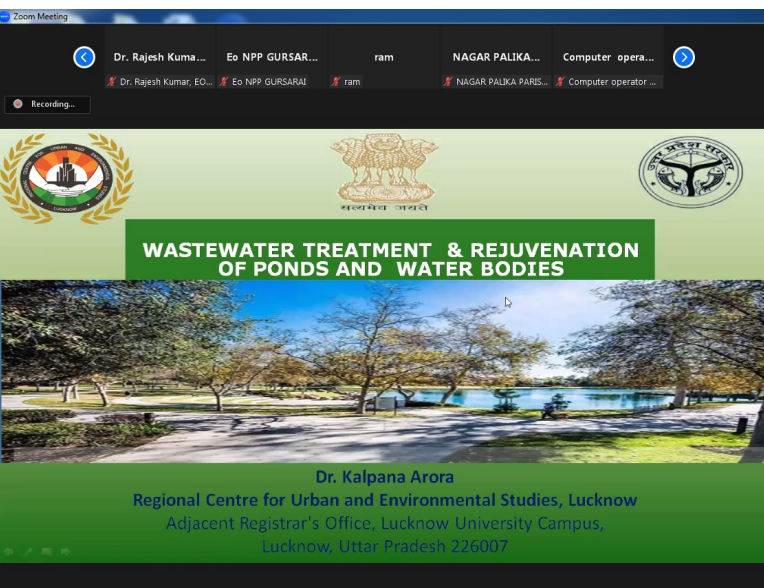
Water Bodies serve as storage reservoirs in the monsoon-dependent areas of the economy where there exist a shorter period of rainfall and a long dry spell with very high deviation of annual rainfall. The small storage tanks are called ponds or bundhis which are mostly community owned. The large storage tanks whose command varies from 20 to 2000 hectares are generally constructed by the Government Departments or local bodies. The Government of India launched the scheme of Repair, Renovation and Restoration (RRR) of water bodies during X Plan to revive and restore vanishing water bodies resulting in major loss of irrigation potential. The scheme was launched as pilot scheme and based on its success, a full scale scheme was implemented during XI Plan. Keeping in view the benefits arising out of the implementation of the scheme, it was extended to XII Plan as well. During

### List of Workshops

Date	No of Participants
16-Mar-23	34
18-Mar-23	26
20-Mar-23	56
22-Mar-23	27

XII Plan, the planned outlay of the scheme is Rs 10,000 crore and is envisaged to provide Central Assistance for restoration of about 10,000 water bodies (9000 water bodies in rural areas and 1000 water bodies in urban areas) with an earmarked Central outlay of Rs. 6,235 crore and respective State share of Rs 3,765 crore for the scheme with likely restoration of 6.235 lakh hectare.

In the context of increasing water scarcity competitive demands and widespread pollution, water resources have become one of the critical imperatives for livelihood. Drinking and Domestic water needs get the first priority among the various demands of water. Recently, the Government of India approved Phase II of Swachh Bharat Mission-Urban (SBM-U 2.0). Alongside the urban component of Jal Jeevan Mission (JJM-U), SBM-U 2.0 goes beyond the aim of eliminating open defecation in the country, by focusing on ODF+, ODF++ and Water+ protocols as laid down by the Ministry of Housing and Urban Affairs, Government of India. Government of India in Fifteenth Finance Commission, with a theme of water conservation drafted the policy for pond and water



bodies rejuvenation making use of waste water and beautification of the pond as tourist spot as well as place for cultural activities decided to take up the pledge to transform degraded ponds in to lively water bodies with restored aquatic ecology and saving the environment of the town. In this context RCUES Lucknow organized 04 online training programmes on Water Bodies Rejuvenation & Creation of Green spaces in ULBs.

## OBJECTIVES

The training programme is the capacity building programme under the Sanitation Capacity Building Platform. Through experience sharing, participants are expected to:

- have a overview of various waste water treatment technologies and methods.
- Understand the regulatory framework and enforcement mechanism to strengthen the implementation of wastewater treatment and disposal.
- Selection of suitable treatment technology for the treatment and development of green area and recreational activities around the water body.
- Understand the operation and maintenance model of the treatment plant and allied services.
- Develop the understanding of the making of Detailed Project report by themselves.

## PARTICIPANTS

The programme was organized for senior officials from 4 States Urban Development Departments, SBM/AMRUT Mission Directorates and Parastatal Bodies. In total 143 participants attended the online training.

## EXPECTED OUTCOME

Through this programme, participants are expected to understand the various planning and implementation aspects of waste water treatment and its reuse for pond/water body rejuvenation, and take back learnings from various related case studies.

## METHODOLOGY AND SESSIONS:

The training programme was conducted on online mode which included:

- understanding of the present scenario,
- the fundamentals of waste water treatment technologies,
- methodologies for waste water treatment,
- development of green area and recreational activities,
- institutional support and linkages for planning and implementation.

## COORDINATION

The programme was coordinated by Mr. Ajit Kumar Mishra, Assisstant Director, RCUES, Lucknow.

## ONLINE TRAINING ON SANITATION AND SOLID WASTE MANAGEMENT IN ULBS

### BACKGROUND:

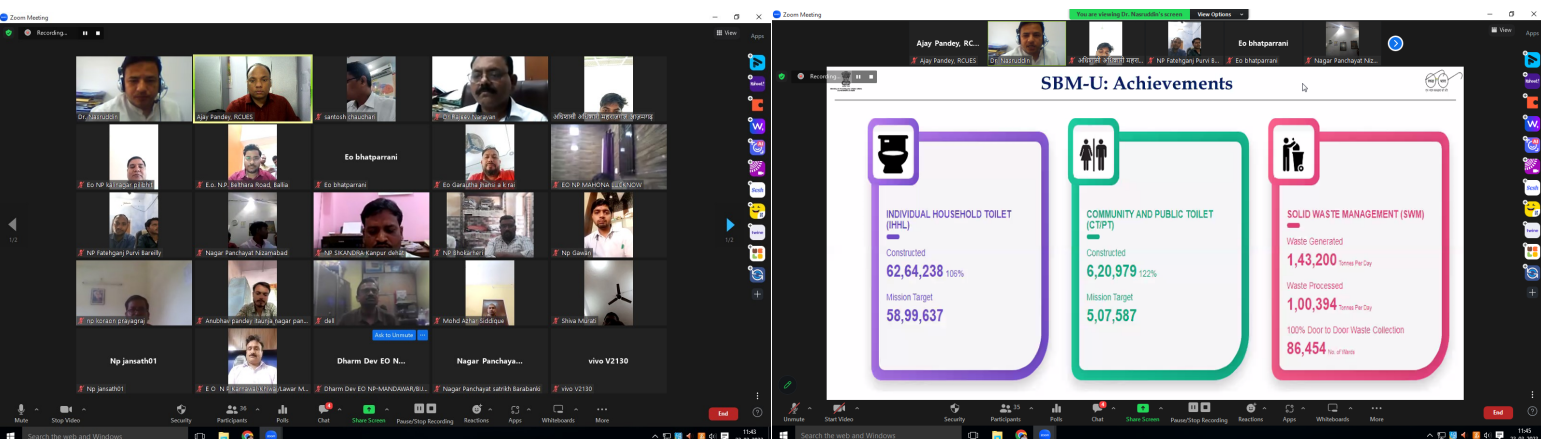
The Sustainable Development Goals (SDGs) place significant emphasis on sanitation, cleanliness and hygiene. Decades ago, Mahatma Gandhi said that ‘sanitation is more important than political freedom’. The management of municipal solid waste in India has surfaced or continued to be a severe problem not only because of environmental and aesthetic concerns but also because of the enormous quantities generated every day. Even though only 31% of Indian population resides in urban areas, this population of 377 million (Census of India, 2011) generates a gigantic 1,43,449 metric tonnes per day of municipal solid waste, as per the Central Pollution Control Board (CPCB), 2014-15 and these figures increase every day with an increase in population. To further add to the problem, the total number of towns (statutory and census) in the country have also increased from 5,161 in 2001 to 7,936 in 2011, thus increasing the number of municipal waste generation by 2,775 within a decade. The management of municipal solid waste is one of the main functions of all Urban Local Bodies (ULBs) in the country. All ULBs are required to meticulously plan, implement and monitor all systems of urban service delivery especially that of municipal solid waste. With limited financial resources, technical capacities and land availability, urban local bodies are constantly striving to meet this challenge.

The launch of Swachh Bharat Mission on 2nd October 2014 by the Hon’ble Prime Minister Shri Narendra Modi was a historic moment for India that aims to

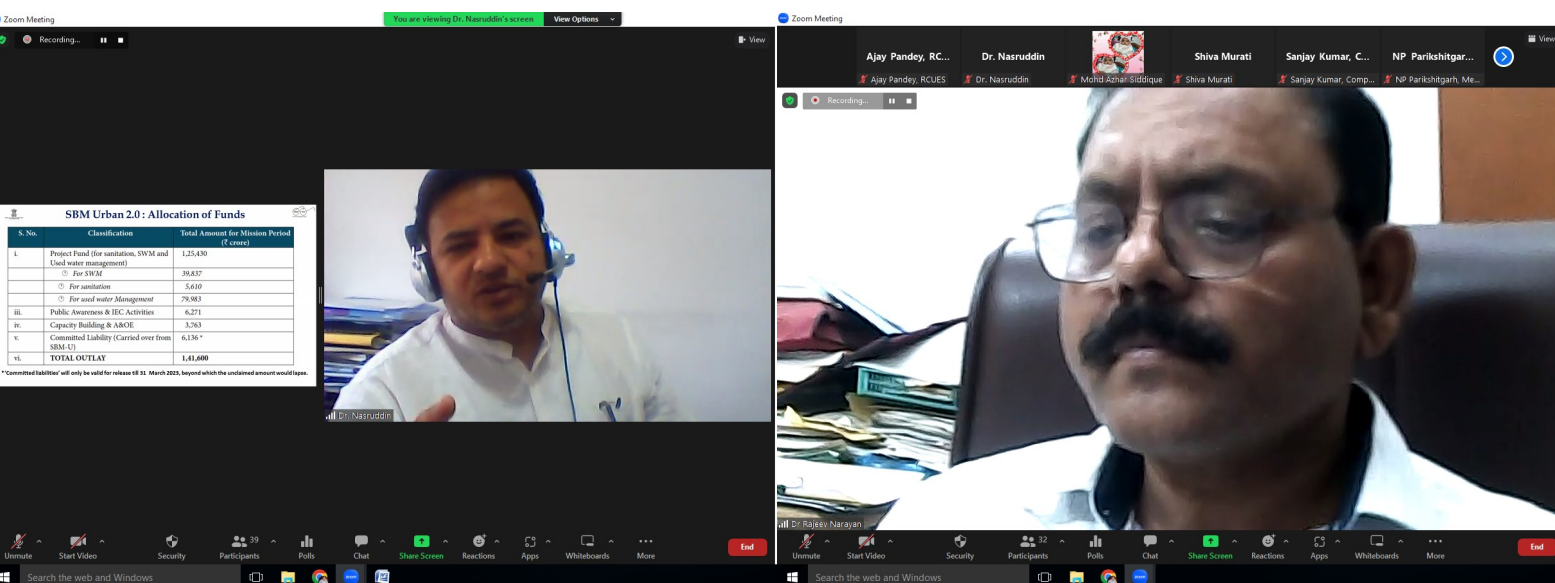
### List of Workshops

Date	No of Participants
23-Mar-23	35
25-Mar-23	29
27-Mar-23	25
28-Mar-23	31
29-Mar-23	18
	29

provide basic infrastructural and service delivery with respect to sanitation facilities to every family, including toilets and adopting the scientific methods to collect, process and disposal of municipal solid waste. The mission focuses on quality and sustainability of the service provision as well as emphasizing on the commitment on every stakeholder to bring about a visible change in society. Now the mission is being extended for a period of 5 (five) years from 1<sup>st</sup> October 2021 to 1st October 2026, as Swachh Bharat Mission (Urban) 2.0 (SBM-U 2.0), for completing the work remaining, institutionalizing ‘swachh’ behavior and making it sustainable. The Government of India in partnership with States/ UTs and ULBs is committed to make all cities ‘Garbage Free’ under SBM-Urban 2.0 in order to contribute to the achievement of the Sustainable Development Goals (SDG) 2030, which will ultimately improve the quality of life and ease of living of urban populations, thus leading to urban transformation. SBM-U 2.0 will be implemented by MoHUA through States/ UTs in all statutory towns.







Solid waste is defined as discarded solid fractions, generated from domestic units, trade centres, commercial establishments, industries, and agriculture, institutions, public services and mining activities. Characteristics of waste vary based on place of generation and season in which it is generated. The Central Public Health and Environmental Engineering Organisation, the technical wing of Ministry of Urban Development has classified solid waste in fourteen categories based on source, origin and type of waste.

These include domestic waste, municipal waste, commercial waste, institutional waste, garbage, rubbish, ashes, bulky waste, street sweepings, dead animals, construction and demolition waste, industrial waste, hazardous waste and sewage waste (CPHEEO, 2000). A solid waste management (SWM) system includes collection, segregation, transportation, processing and disposal of waste. Against this backdrop, RCUES, Lucknow organized six, Online workshops on “Sanitation & Solid Waste Management in Urban Local Bodies.

## OBJECTIVES

- To acquaint the participants with the need, importance, and objectives of SBM 2.0.
- To acquaint the participants with the need, importance, and objectives of Solid Waste

Management & Garbage Free City under SBM 2.0.

- To acquaint the participants with the need, importance, and objectives of Faecal Sludge & Septage Management as new component of SBM 2.0.
- To aware the participants with different types of Treatment and Reuse of Used Water
- To aware the participants with the concept of Participatory Planning and IEC

## PARTICIPANTS

The participants of the training programme were Executive Officers, Sanitary & Food Inspector etc. In total 167 participants attended the trainings.

## COORDINATION

The programme were coordinated by Dr. Rajeev Narayan, Deputy Director and Dr. Nasruddin, Assistant Director, RCUES, Lucknow.



## सेप्टेज पॉलिसी एवं यूज्ड वाटर मैनेजमेंट को लेकर कार्यशाला का हुआ आयोजन

विंध्य ज्योति

मीराजपुर - आवासन एवं शहरी कार्य मंत्रालय भारत सरकार द्वारा स्थापित क्षेत्रीय नगर एवं पंचायत अधिनियम के अन्तर्गत लखनऊ द्वारा उत्तर प्रदेश राज्य सेटेज पॉलिटीसी यूज्ड वॉटर मैनेजमेंट विषय पर एक दिवसीय कार्यशाला का आयोजन जनपद मीराजपुर उत्तर प्रदेश में आज दिनांक 24 फरवरी को किया गया इस एक दिवसीय कार्यशाला का उद्घाटन केंद्र के अपर निदेशक ईंजीनियर ए०के० गुप्ता द्वारा वर्युअली भाष्य से किया गया कार्यशाला का संचालन केंद्र के उप निदेशक एवं कोर्स कोऑर्डिनेटर डॉ० राजनी नारायण द्वारा किया गया इस उद्घाटन सत्र में कंसलटेंट श्री एस०डी० सिंह उपस्थित रहे कार्यशाला में जनपद के सभी नगरीय निकायों के वरिष्ठ अधिकारी एंगिनियर्स सफाई एवं खाद्य निरीक्षक डिस्टिक कोऑर्डिनेटर विभिन्न निकायों के अन्य अधिकारी सहित



कार्यशाला में कोर्स कोऑर्डिनेटर डॉ राजीव नारायण ने एसबीएम 2.0 अर्बन के बारे में विस्तार से बताया तथा उनके एस०डी० सिंह ने फीकल स्लज एवं सेप्टेज मैनेजमेंट के बारे में उपयोगी जानकारी साझा की इस मौके पर अधिशासी अधिकारी अंगद गप्ता

कार्यक्रम प्रबंधक संजय सिंह हिमांशु केसरवानी जलकल अभियंता सुधीर वर्मा नगर अभियंता जटा शंकर अभियंता बिपिन मिश्रा सुनील मौर्य सुमित कुमार प्रभारी मुख्य सफाई निरीक्षक मनोज सेठ, सफाई निरीक्षक नंदकिशोर शर्मा सफाई निरीक्षक संकल्प पाण्डे मकसदन सिंह

## कार्यशाला का आयोजन



स्वातंत्र्य भारत संवाददाता  
कुशीनगर। अधिशासी अधिकारी  
नगर पालिका परिषद कुशीनगर प्रेम  
संकर गुप्ता ने बताया कि क्षेत्रीय नगर  
एवं पर्यावरण अध्ययन केंद्र, लखनऊ  
द्वारा उत्तर प्रदेश राज्य सेलेज पब्लिक

राज्यीय नारायण द्वारा किया गया। कार्यशाला में जनपद के नवीय निकायों के अधिशासी अधिकारी- (प्रेमशंकर गुप्ता, देवेश कुमार मिश्र, अजय कुमार सिंह, संत राम सरोज, जनार्दन यादव, अम्बरीष कुमार सिंह) एवं अन्य अभियंता, सफाई एवं स्वच्छ निरीक्षक, डिस्ट्रिक्ट कोऑर्डिनेटर एवं जलनिगम के अभियन्ताओं सहित विभिन्न निकायों के अन्य अधिकारियों सहित 25 अधिकारियों ने प्रतिभाग किया गया।

**संतकबीरनगर (एसएनबी)।** नगर विकास विभाग  
उत्तर प्रदेश शासन द्वारा प्रायोजित तथा क्षेत्रीय  
नगर एवं पर्यावरण अध्ययन केन्द्र लखनऊ द्वारा  
आयोजित उत्तर प्रदेश राज्य स्टेज पोलिसी एवं  
यूज्ड वाटर प्रबंधन विषयक एक कार्यशाला का  
आयोजन प्रातः 10 बजे से खलीलाबाद स्थित  
एक होटल में हुआ। अपर जिलाधिकारी  
अभिभव रंजन श्रीवास्तव ने दीप प्रज्वलित कर  
कार्यशाला उद्घाटन किया।

कराते हुए कहा कि यदि आज हमने यूज्ड वाटर का

## जल प्रबंधन पर कार्याशाला



कार्याशाला में जनपद के समस्त निकायों में फिकल स्लज मैनेजमेंट तथा यूज्ड/वेस्ट वाटर मैनेजमेंट के बारे में प्रबंधन करने हेतु जानकारी दी गयी। साथ ही एसबीएम-2.0 (स्वच्छ भारत मिशन नगरीय) के अंतर्गत किये जाने वाले कार्यों के संबंध में विस्तृत रूप से अवगत कराया गया। अपर जिलाधिकारी अभिनव राजन श्रीवास्तव ने यूज्ड वाटर के प्रबंधन की आवश्यकताओं के दृष्टिगत भविष्य में होने वाले समस्याओं से अवगत

प्रबंधन नहीं किया तो भविष्य में हमें पीने के लिए शुद्ध जल शायद उपलब्ध न हो। उन्होंने कहा कि सिर्फ कार्यशाला में प्रशिक्षित होने से ही प्रबंधन संभव नहीं है, बल्कि इन बातों को आत्मसात करते हुए इसे भौतिक

रूप से घरातल पर भी क्रियान्वित किया जाना अति आवश्यक है। कार्यशाला में उपस्थित जनपद के समस्त निकायों के अधिशासी अधिकारी व जल निगम के अभियन्ताओं को संबोधित करते हुए यह बताया गया कि हम सभी सेप्टेज पलिसी एवं यूज्ड वाटर प्रबंधन को यथाशीघ्र क्रियान्वित करने के दिशा में कार्य करें। कार्यशाला में प्रशिक्षक डॉ. अंजली मिश्रा, एक्सपर्ट डॉ. उर्वशी द्वारा प्रशिक्षित

सीवरेज ट्रीटमेंट प्लांट  
की क्षमता बढ़ाई जाए

संवाद न्यूज एजेंसी

कार्यशाला में बताए गए यूज्ड  
वाटर मैनेजमेंट के तरीके

बाराबंकी। निकायों में सेप्टेज व यूज्ड वाटर प्रबंधन की क्षमता के विकास के लिए मंगलवार को कार्यशाला का आयोजन किया गया। इसमें निकायों के अधिकारियों व इंजीनियरों को प्रदेश सरकार की सेप्टेज पॉलिसी से अवगत कराया गया। साथ ही यूज्ड वाटर प्रबंध के तरीके बताए गए।

शहर के एक होटल में आवास एवं शहरी कार्य मंत्रालय भारत सरकार की ओर से स्थापित क्षेत्रीय नगर एवं पर्यावरण अध्ययन केंद्र, लखनऊ की ओर से उत्तर प्रदेश राज्य सेप्टेज पॉलिसी एवं यूज्ड वाटर मैनेजमेंट विषय पर कार्यशाला आयोजित की गई, जिसका शुभारंभ

सीडीओ एकता सिंह व केंद्र के अपर निदेशक इंजीनियर एके गुप्ता ने किया। इस दौरान निकायों के अधिकारियों को सेप्टेज पॉलिसी से अवगत कराते हुए बताया गया कि हर तीन से पांच वर्षों में घरों, सार्वजनिक आवासों, सार्वजनिक-सामुदायिक शौचालय वाले अपशिष्ट के रिकतीकरण पर अलग से योजना बनेगी।

इसके लिए सीवरेज ट्रीटमेंट प्लांट की क्षमता का आकलन किया जाए एवं प्लांट की क्षमता बढ़ाई जाए, ताकि अपशिष्ट जल व ठोस अवशेष का ठीक से प्रबंधन हो सके। इस मौके पर स्वच्छ भारत मिशन समेत तमाम बिंदुओं पर चर्चा की गई।

**बेस्ट इनिशिएटिव इन अर्बन वाटर एंड सेनिटेशन  
श्रेणी में बेहतर कार्य करने का मिला इनाम**

[illegible]

### जल की ऊर्जा का सदुपयोग करना समय की मांग

श्री के. सिमरत शिवानी ने कहा कि जल की ऊर्जा का सदुपयोग करना समय की मांग है। भारत में इस्तरालय के राहुवती नगर गिरिनले ने कहा कि भारत जल सन्धियों को हिरदय में धारणने में तेजी से आगे बढ रहा है। उन्होंने हर घर जल से जल और सुगन्धि ग्री को हिरदय में धारणने को प्रस्ताव की और भारत और इरानजल के बीच द्विपक्षीय संघर्षों में प्रतिनि प्रत्यक्ष सहयोग किया। डॉ. येने गोशर और इरानजल के बीच द्विपक्षीय संघर्षों में प्रतिनि प्रत्यक्ष सहयोग किया। डॉ. येने गोशर और इरानजल के बीच द्विपक्षीय संघर्षों में प्रतिनि प्रत्यक्ष सहयोग किया। डॉ. येने गोशर और इरानजल के बीच द्विपक्षीय संघर्षों में प्रतिनि प्रत्यक्ष सहयोग किया।

[illegible]

- जल शक्ति मंत्री ने कहा अतीत की तुलना में भारत अब विश्व में जल क्रांति का नेतृत्व कर रहा
- केंद्रीय जल शक्ति मंत्री गजेंद्र सिंह शेखावत ने दोरीया नगर एवं पर्यावरण अध्ययन केंद्र लग्गुनऊ के निदेशक डॉ. निशीय राय को वॉटर डाइजेस्ट अर्वाइ 2022-23 साँपा

**लखनऊ।** क्षेत्रीय नगर एवं पर्यावरण अध्ययन केंद्र लखनऊ (आइएनएच और सहोदरी कौशिक) भारत सरकार (एन एच और उपलब्ध) हाइमल में है। केन्द्र (डीएसएलएलए) इन अर्बन नगर एंड सेमिनरन क्षेत्रों में क्षेत्रीय नगर एवं पर्यावरण अध्ययन केंद्र लखनऊ को पहिले डाइरेक्ट अर्बाई 2022-23 का विवेक बुना गया है।

भारत सरकार के जल सतह नगर में गैजेट (मिड सेग्रेगेशन में क्षेत्रीय नगर एवं पर्यावरण अध्ययन केंद्र लखनऊ के निदेशक डॉ. निशोधि राय को नई दिल्ली के जेपी बस कंटीनेंटल होटल में आयोजित समीक्षा में यह अर्बाई देकर सम्पन्न किया है।

वस्तुतः जल को एन परमनर पेयनको के साथ

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# प्रयोग किये गये जल के प्रबंधन के बताये तरीके

कसया (एसएनबी)। गुरुवार को कुशीनगर के इम्पीरियल होटल में क्षेत्रीय नगर एवं पर्यावरण अध्ययन केन्द्र लखनऊ द्वारा 'उत्तर प्रदेश राज्य सेप्टेज पालिसी एवं युज्ड वाटर मैनेजमेन्ट' विषय पर एक दिवसीय कार्यशाला का आयोजन किया गया। इसमें कोर्स कोऑर्डिनेटर डा.राजीव नारायण ने स्वच्छ भारत मिशन नगरीय 2.0 के बारे में जानकारी दिया। जिसमें उन्होंने बताया कि प्रयोग किये गये जल को कैसे उपयोग में लाया जाये। उसके प्रबंधन के तरीके बताये। कन्सलटेन्ट एसडी सिंह ने फेक्ट्रेज मैनेजमेन्ट जिसमें शौचालयों की टंकियों में आने वाली समस्याएँ होती है, के प्रबंधन की विस्तृत जानकारी दिया। इस कार्यशाला का संचालन केन्द्र के उपनिदेशक एवं कोर्स कोऑर्डिनेटर डा.राजीव नारायण ने किया। कार्यशाला में जनपद के नगरीय निकायों के अधिशासी अधिकारी प्रेमशंकर गुप्ता, देवेश कुमार मिश्रा, अजय कुमार सिंह, संतराम सरोज, जनार्दन यादव, अम्बरीश कुमार सिंह तथा विभाग के अभियंतागण,

## प्रयास ऐसा हो कि स्वच्छता व सफाई से शहर व नगर पंचायत में रहे चमक: एडीएम

● भविष्य में शुद्ध पेयजल की उपलब्धता बनी रहे इसके लिए सभी रहे जागरूक: डॉ. अंजुली मिश्रा

संतकबीरनगर। नगर विकास विभाग, उप्र शासन द्वारा प्रायोजित तथा क्षेत्रीय नगर एवं पर्यावरण अध्ययन केन्द्र आरसीयूईएस लखनऊ द्वारा आयोजित उप्र राज्य सेप्टेज पालिसी एवं युज्ड वाटर प्रबंधन विषयक एक कार्यशाला का आयोजन प्रातः 10 बजे से लक्ष्मी होटल खलीलाबाद में किया गया, जिसका उद्घाटन अपर जिलाधिकारी अभिनव रंजन श्रीवास्तव द्वारा किया गया। जनपद के समस्त निकायों में फ़ैकल स्लज मैनेजमेंट तथा युज्ड/वेस्ट वाटर मैनेजमेंट के बारे में प्रबंधन करने हेतु जानकारी दी गयी साथ ही एसबीएम 2.0 (स्वच्छ भारत



कार्यशाला को सम्बोधित करते अपर जिलाधिकारी।

मिशन नगरीय) के अन्तर्गत किये बातों को आत्मसात करते हुए इसे विस्तृत रूप से अवगत कराया गया। अपर जिलाधिकारी अभिनव रंजन श्रीवास्तव ने युज्ड वाटर के प्रबंधन की आवश्यकताओं के दृष्टिगत भविष्य में होने वाले समस्याओं से अवगत कराते हुए कहा कि यदि आज हमने युज्ड वाटर का प्रबंधन नहीं किया तो भविष्य में हमें पीने के लिए शुद्ध जल शायद उपलब्ध न हो। सिर्फ कार्यशाला में प्रशिक्षित होने से ही

प्रबंधन सम्भव नहीं है, बल्कि इन बातों को आत्मसात करते हुए इसे क्रियान्वित किया जाना अति आवश्यक है। कार्यशाला में उपस्थित जनपद के समस्त निकायों के अधिशासी अधिकारी व जल निगम के अभियंताओं को सम्बोधित करते हुए यह बताया गया कि हमें सेप्टेज पालिसी एवं युज्ड वाटर प्रबंधन को यथाशीघ्र क्रियान्वित करने के दिशा में कार्य करें।

## आरसीयूईएस लखनऊ ने जीता वाटर डाइजेस्ट अवार्ड

लखनऊ (डीएनएन)।

क्षेत्रीय नगर एवं पर्यावरण अध्ययन केन्द्र लखनऊ (आवासन और शहरी कार्य मंत्रालय भारत सरकार) ने एक और उपलब्धि हासिल की है। वेस्ट इनिशिएटिव इन अर्बन वाटर एंड सेनिटेशन श्रेणी में क्षेत्रीय नगर एवं पर्यावरण अध्ययन केन्द्र लखनऊ को वाटर डाइजेस्ट अवार्ड 2022-23 का खिताब चुना गया है। भारत सरकार के जल शक्ति मंत्री गवेंद्र सिंह शेखावत ने क्षेत्रीय नगर एवं पर्यावरण अध्ययन केन्द्र लखनऊ के निदेशक डॉ. निशीथ राय को नई दिल्ली के जेपी बसंत कॉन्टीनेंटल होटल में आयोजित समारोह में यह अवार्ड देकर सम्मानित किया है। बताया पुरस्कार पुनस्को के साथ साझेदारी में आयोजित किए जाते हैं।



(वेस्ट इनिशिएटिव इन अर्बन वाटर एंड सेनिटेशन श्रेणी में मिला पुरस्कार- पेज 12 पर)

हि हिन्दुस्तान



कार्यशाला को सम्बोधित करते एडीएम अभिनव रंजन। • हिन्दुस्तान

## यूज्ड वाटर के प्रबंधन के बारे में दी जानकारी

संतकबीरनगर, निज संवाददाता। नगर पालिका खलीलाबाद केन्द्रावस्थापन में बाईपास स्थित एक होटल में उत्तर प्रदेश राज्य सेप्टेज पालिसी एवं युज्ड वाटर प्रबंधन विषय पर एक कार्यशाला का आयोजन किया गया। कार्यक्रम में मुख्य अतिथि अपर जिलाधिकारी बित्त एवं राजस्व अभिनव रंजन श्रीवास्तव ने उद्घाटन किया। कार्यक्रम में युज्ड/वेस्ट वाटर प्रबंधन करने की जानकारी दी गई।

(स्वच्छ भारत मिशन-2 के अन्तर्गत किए जाने वाले कार्यों के बारे में विस्तार से जानकारी दी गई। मुख्य अतिथि ने युज्ड वाटर के प्रबंधन की आवश्यकताओं के बारे में विस्तार से जानकारी दी। कहा कि भविष्य

में पानी की बढ़ी किल्लत होने वाली है। होने वाले समस्याओं से अवगत कराते हुए कहा कि यदि आज हमने युज्ड वाटर का प्रबंधन नहीं किया तो भविष्य में हमें पीने के लिए शुद्ध जल शायद उपलब्ध न हो। मुख्य अतिथि ने कहा कि कार्यशाला में प्रशिक्षित होने से ही प्रबंधन सम्भव नहीं है, बल्कि इन बातों को आत्मसात करते हुए इसे भौतिक रूप से धरातल पर भी क्रियान्वित किए जाने की आवश्यक है।

कार्यशाला का संचालन केन्द्र की संपुक्त निदेशक एवं कोर्स कोऑर्डिनेटर डा. अंजुली मिश्रा ने लोगों को आवश्यक जानकारी दी। इस मौके पर नया ईओ विनय कुमार मिश्र ने कार्यशाला में आए हुए लोगों को विस्तार से जानकारी दी।



## RCUES conducts residential training programme

The Regional Centre for Urban and Environmental Studies Lucknow (RCUES) conducted a two-day level II residential training programme for engineers on 'Innovative technologies – supply monitoring using IoT, water tapping & treatment, leak detection using robotics and automation', at Lucknow.

The training was designed to provide an understanding of the technical aspects for effective implementation of drinking water supply schemes being implemented in state under Jal Jeevan Mission (JJM). Group exercises were conducted to provide hands on training to participants. This programme was attended by 38 engineers from PHED Department, Madhya Pradesh, Uttar Pradesh Jal Nigam (*grameen*), PMU, West Bengal PWSP department, and SWSM Department Maharashtra.

The programme was inaugurated by Dr Nishith Rai, director. He emphasised on inter-state cross learning for making JJM sustainable in the long run.

Dr Alka Singh, deputy director, presented the details of measurement and monitoring of water service delivery in rural areas under Jal Jeevan Mission.

## पेयजल परियोजनाओं को टिकाऊ बनाने के लिए प्रशिक्षण

लखनऊ (वि)। जल जीवन मिशन के तहत क्षेत्रीय नगर एवं पर्यावरण अध्ययन केंद्र (आरसीयूईएस) के अंतर्गत इनोवेटिव टेक्नोलॉजी-सप्लाई मॉनिटरिंग यूजिंग आईओटी, वाटर टैपिंग एंड ट्रीटमेंट, लीक डिटेक्शन यूजिंग रोबोटिक्स एंड

### व्यावसायिक गतिविधि

ऑटोमेशन यूजिंग स्काडा विषय पर दो दिवसीय आवासीय प्रशिक्षण कार्यक्रम का आयोजन दिनांक 09 और 10 फरवरी 2023 को किया गया। प्रशिक्षण का उद्देश्य पेयजल परियोजनाओं को जमीनी स्तर पर अधिक टिकाऊ बनाने के लिए पदाधिकारियों को प्रशिक्षित करना था। कार्यक्रम में उत्तर प्रदेश समेत चार राज्यों मध्य प्रदेश, पश्चिम बंगाल, महाराष्ट्र के अधिकारी और अभियंता शामिल रहे। कार्यक्रम का शुभारंभ केंद्र के निदेशक डॉ. निशीथ राय ने किया।

## कार्यशाला में सीएमओ व उपयंत्री प्रशस्ति पत्र से सम्मानित

बानमोर। स्वच्छता सर्वेक्षण 2023 के संदर्भ में ग्वालियर में आयोजित रीजनल सेंटर फोर अरबन एंड एनवायरमेंट स्टडीज व नेशनल इंस्टीट्यूट ऑफ अरबन अफेयर्स की 3 दिवसीय कार्यशाला में मुख्य नगर पालिका अधिकारी सियाशरण यादव व उपयंत्री ऐश्वर्य गोयल ने भाग लिया। कार्यशाला एडवांस ट्रेनिंग प्रोग्राम ऑन इंटरग्राटेड वेस्टवाटर एंड सेप्टेज मैनेजमेंट पर आधारित रही। कार्यशाला में एक्टिविटी प्रतियोगिता का भी आयोजन किया गया जिसमें बानमोर सीएमओ यादव एवं



उपयंत्री गोयल ने प्रथम स्थान प्राप्त किया। दोनों अधिकारियों को कार्यशाला में प्रशस्ति-पत्र से सम्मानित किया गया।

## लंबे समय तक जल जीवन मिशन को टिकाऊ बनाना होगा: डॉ. निशीथ राय

डेली न्यूज नेटवर्क

लखनऊ। क्षेत्रीय नगर एवं पर्यावरण अध्ययन केंद्र आरसीयूईएस (आरसीयूईएस) के अंतर्गत इनोवेटिव टेक्नोलॉजी-सप्लाई मॉनिटरिंग यूजिंग आईओटी, वाटर टैपिंग एंड ट्रीटमेंट, लीक डिटेक्शन यूजिंग रोबोटिक्स एंड ऑटोमेशन यूजिंग स्काडा विषय पर दो दिवसीय आवासीय प्रशिक्षण कार्यक्रम का आयोजन लखनऊ में किया गया।

कार्यक्रम का शुभारंभ केंद्र के निदेशक डॉ. निशीथ राय ने किया। इस दौरान उन्होंने सभी भाग लेने वाले को प्रशिक्षण के लिए आभार व्यक्त किया। उन्होंने बताया कि जल जीवन मिशन के तहत ग्रामीण क्षेत्रों में जल सेवा विस्तार के मॉनिटरिंग एंड इम्प्लीमेंटेशन, सॉल्यूशन लेवल बेसबॉल विषय पर प्रस्तुति कायम किया। दो दिवसीय कार्यक्रम का आयोजन आरसीयूईएस लखनऊ और जल जीवन मिशन के तहत ग्रामीण क्षेत्रों में जल सेवा विस्तार के मॉनिटरिंग एंड इम्प्लीमेंटेशन, सॉल्यूशन लेवल बेसबॉल विषय पर प्रस्तुति कायम किया।

- दो दिवसीय कार्यशाला में जल आपूर्ति शृंखला में प्रौद्योगिकी का महत्व और उन्नति पर बल दिया गया

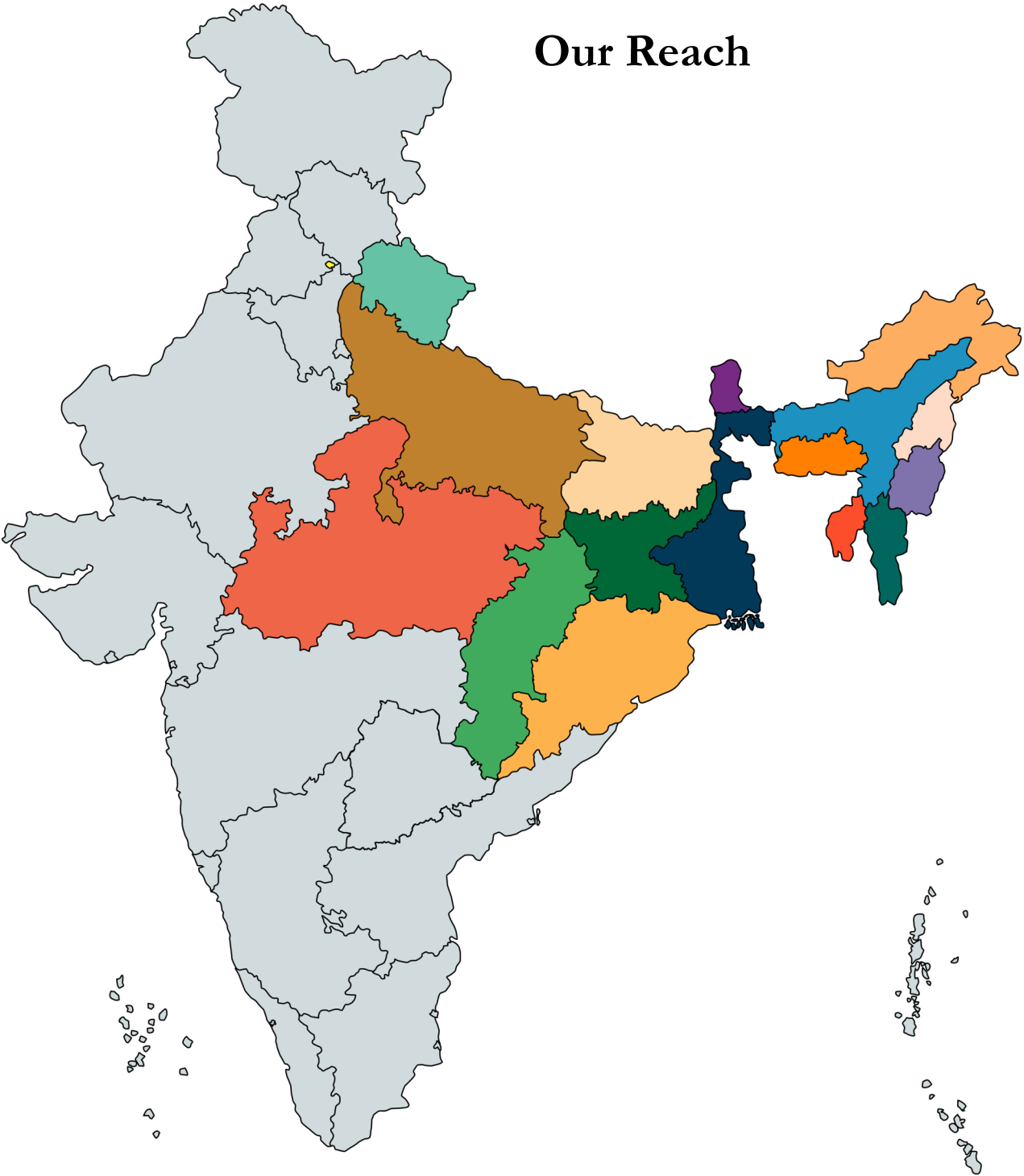
प्रभावी कार्यन्वयन के लिए विभिन्न तकनीकी पहलुओं को व्यापक समझ प्रदान करने के उद्देश्य से दो दिवसीय प्रशिक्षण को सुरुआत देना को मॉड्यूल।

इसका उद्देश्य पेयजल परियोजनाओं को जमीनी स्तर पर अधिक टिकाऊ बनाने के लिए पदाधिकारियों को प्रशिक्षित करना था। प्रशिक्षणों को पेशकश करने में संध, डिस्ट्रिक्ट/मंडल स्तर के लीक डिटेक्शन के लिए आईओटी सेना के उपयोग पर प्रशिक्षण प्रदान किया गया था। एप्लिकेशन का उपयोग करके जल आपूर्ति प्रणालियों के इलेक्ट्रिक इम्प्लीमेंटेशन, जल को गुणवत्ता और ट्रीटमेंट के उच्चों तथा पीने के पानी पर एकीकृत प्रबंधन सुव्यव प्रणाली पर प्रशिक्षण प्रदान किया गया।

प्रशिक्षणों को व्यावहारिक प्रशिक्षण प्रदान करने के लिए समूह अभ्यास भी आयोजित किए गए। इस कार्यक्रम में 4 राज्यों उत्तर प्रदेश जल निगम (ग्रामीण), मध्य प्रदेश के पीएचडी विभाग, पश्चिम बंगाल राज्य के पीएसयू, महाराष्ट्र के पीएमए, महाराष्ट्र के एसएमएसएम विभाग के विभिन्न स्तरों के अधिकारी और अभियंता, उत्तर प्रदेश, मध्य प्रदेश और महाराष्ट्र के जल निगमों के अधिकारी शामिल हुए।



# Our Reach







# Upcoming Campus of RCUES at Indira Nagar, Lucknow





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