

सत्यमेव जयते

REGIONAL CENTRE FOR URBAN & ENVIRONMENTAL STUDIES, LUCKNOW

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

NEWSLETTER

(Quarterly Publication)

January—March 2024



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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.

Shri Anurag Jain IAS, (Additional charge of the post of MoHUA Secretary)

Road Transport and Highways Secretary Secretary,

Chairman National Review & Monitoring Committee, RCUES Lucknow

Shri Amrit Abhijat IAS

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The Regional Centre for Urban and Environmental Studies (RCUES) Lucknow has achieved a remarkable milestone by receiving the prestigious **"EXCELLENCE IN WATER POLICY EDUCATION AND CAPACITY BUILDING"** Award. Presented by Water Digest Water Awards 2023-2024 in collaboration with UNESCO, this accolade recognizes RCUES Lucknow's outstanding contributions to water policy education and capacity building. Through its initiatives, RCUES Lucknow has demonstrated a commitment to addressing water-related challenges and promoting sustainable water management practices. This recognition underscores the center's significant impact in enhancing awareness, knowledge, and skills in water policy, reaffirming its position as a leader in urban and environmental studies.

The Water Digest World Water Awards represent a pinnacle of recognition for innovation and excellence in water management on a global scale. The award received by RCUES speaks volumes about the dedication and commitment of its team in furthering water policy education, validating their collective efforts in raising awareness and enhancing capacity in this crucial field.



ORIENTATION TRAINING PROGRAMME FOR ELECTED REPRESENTATIVES OF UTTAR PRADESH UNDER AMRUT 2.0

BACKGROUND

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 will focus on empowering States/ UTs and cities for efficient implementation of projects in the spirit of cooperative and competitive federalism by providing flexibility to the States/ UTs to formulate, plan and implement the projects. CA released can be utilized for projects in any of the ULBs as per physical/ financial progress of the projects. In this context, Regional Centre for Urban and Environmental Studies (RCUES) Lucknow successfully conducted 8, 3 day Orientation Training Programme under Atal Mission for Rejuvenation and Urban Transformation 2.0 for Elected Representatives of Uttar Pradesh at Lucknow.

OBJECTIVES OF THE TRAINING PROGRAMME

The primary objectives of the Orientation Training Programme were as follows:

- To provide a comprehensive understanding of the AMRUT 2.0 mission and its goals.
- To equip elected representatives with the knowledge required for effective project planning, implementation, and monitoring.

List of Training	
Date	No of Participants
15-16 January, 2024	17
18-19 January, 2024	28
29-30 January, 2024	26
31 January to 01 February, 2024	19
02-03 February, 2024	18
28-29 February, 2024	27
11-12 March, 2024	24
13-14 March, 2024	22

- To enhance their skills in managing urban infrastructure and resources.
- To encourage collaboration and synergy between different levels of government, urban local bodies, and other stakeholders.

TRAINING PROGRAMME HIGHLIGHTS:

The Orientation Training Programme for Elected Representatives of Uttar Pradesh under AMRUT 2.0 was designed to provide essential knowledge and skills to the elected officials responsible for urban development and transformation in the state. This program aimed to empower these representatives to effectively contribute to the successful implementation of the Atal Mission for Rejuvenation and Urban Transformation (AMRUT) 2.0. The sessions included:

AMRUT 2.0 Guidelines and Reforms:

- Comprehensive review of the objectives and scope of AMRUT 2.0.
- Discussion of the key differences between





AMRUT 1.0 and 2.0.

- Strategies for effective implementation and adherence to the updated guidelines.

Urban Reforms:

- Exploration of essential reform areas, including financial sustainability, service-level benchmarks, and governance reforms.
- Insights into implementing urban reforms successfully, including compliance with regulations and standards.

Payjal Sarvekshan (Water Quality Assessment):

- The importance of water quality assessments for safeguarding public health and environmental sustainability.
- Practical guidance on conducting water quality assessments in urban areas.

Water Supply Infrastructure:

- Detailed sessions on planning and designing sustainable water supply systems.
- Strategies for ensuring equitable and continuous water distribution.
- Emphasis on water conservation and demand management.

Septage Management:

- The critical role of effective septage management for sanitation and environmental health.
- In-depth coverage of septage collection, treatment,

and disposal methods.

- Discussion on policy and regulatory aspects of septage management.

The sessions on AMRUT 2.0 guidelines, reforms, Payjal Sarvekshan, water supply, and septage management served as a valuable platform for sharing knowledge and insights into critical aspects of urban development. These sessions equipped participants with the information and tools needed to contribute effectively to the successful implementation of AMRUT 2.0, ensuring sustainable urban growth and improved water supply management.

These learning's and best practices are expected to play a pivotal role in achieving the goals set forth by the AMRUT 2.0 initiative in urban areas.

PARTICIPANTS

A total of 181 elected representatives from Uttar Pradesh participated in the training programme.

COORDINATION

The Trainings were coordinated by Dr. Anjali Mishra, Joint Director and Mr Ajit Kumar Mishra, Assistant Director, RCUES, Lucknow.

ONLINE TRAINING PROGRAMME ON MICRO CREDIT FACILITY TO URBAN POOR

BACKGROUND

The outbreak of the global COVID-19 pandemic led to widespread devastation in India, impacting the lives of street vendors, laborers, migrant workers, and marginalized communities. To address these challenges, the Government of India declared a nationwide lockdown, significantly affecting the livelihoods of these vulnerable populations. In response to the crisis, the Indian government introduced a comprehensive relief package worth Rs. 20,00,000 crores to revive the economy and provide relief to those adversely affected by the pandemic. The package aimed to promote self-reliance, encompassing governance reforms, credit support for various segments of the

List of Training	
Date	No of Participants
12 January, 2024	104
20 January, 2024	95

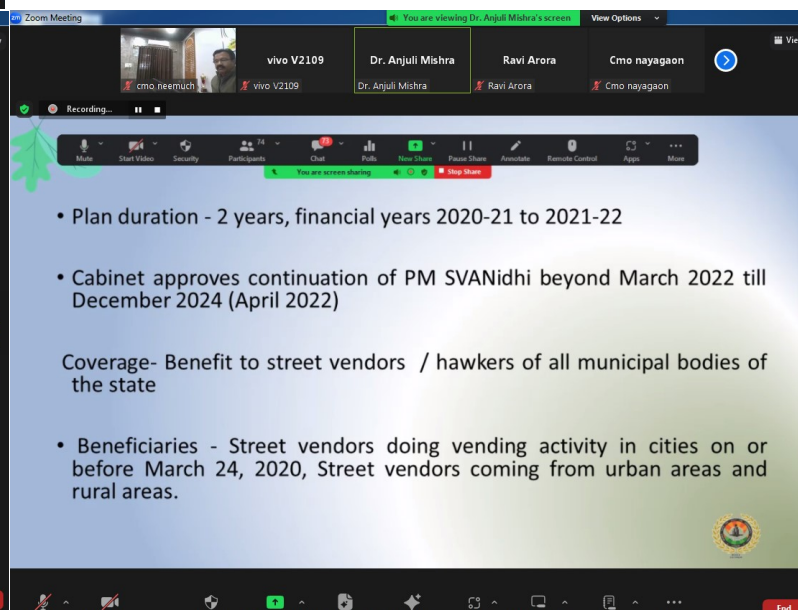
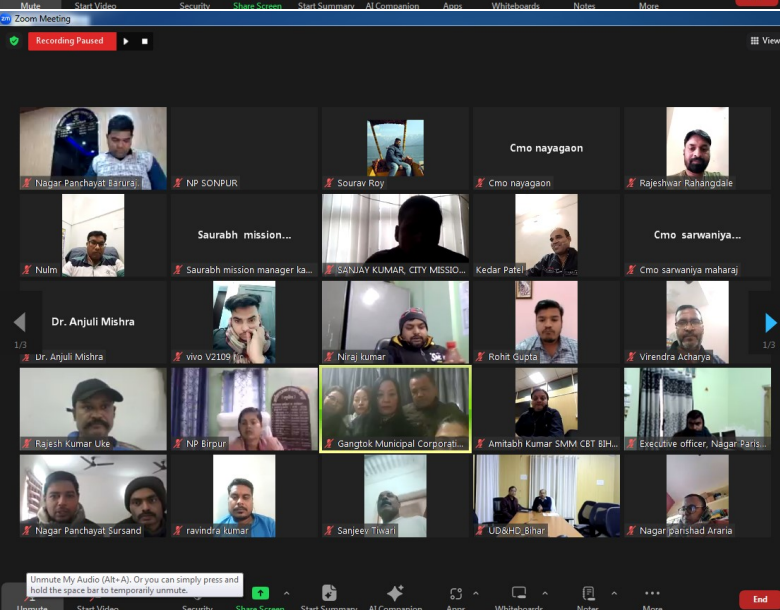
urban population, including street vendors, MSMEs, startup businesses, and self-help groups.

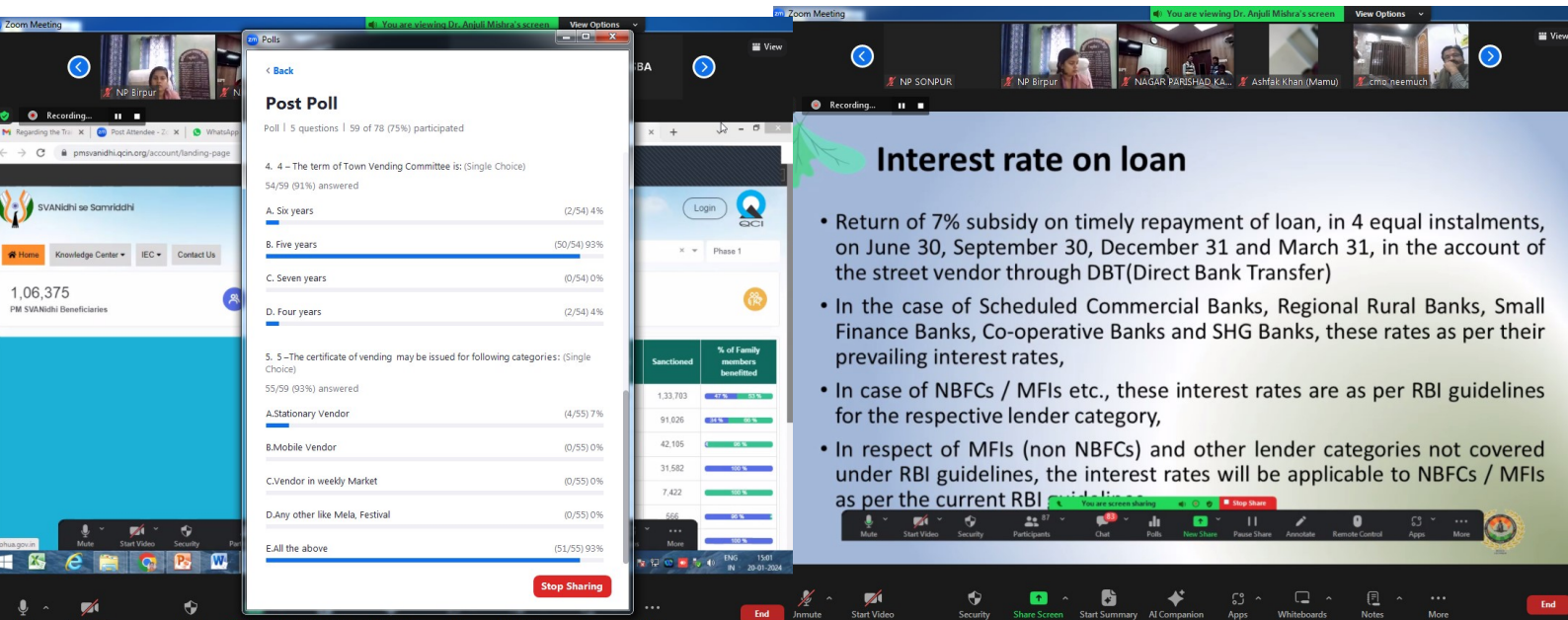
Urban local governments took on a crucial role in the post-lockdown situation, focusing on pandemic prevention, response, protection of frontline workers, and rehabilitation of the urban poor. Street vendors, who play a pivotal role in ensuring the availability of affordable goods and services to city dwellers, were significantly impacted by the pandemic and lockdown measures. Given their limited capital and insufficient earnings, there was an urgent need to provide credit for working capital to help street vendors restart their businesses. To address this, the Government of India launched the Prime Minister SVANidhi Scheme, designed to support urban street vendors in reviving their businesses and livelihoods.

In response to the challenges faced by urban local governments and street vendors, two online training programs were organized. The training programs aimed to discuss and deliberate on the provisions and procedures of the Prime Minister SVANidhi Scheme, with the goal of effective implementation in urban centers.

OBJECTIVES OF THE TRAINING PROGRAMME

- Plan duration - 2 years, financial years 2020-21 to 2021-22
- Cabinet approves continuation of PM SVANidhi beyond March 2022 till December 2024 (April 2022)
- Coverage- Benefit to street vendors / hawkers of all municipal bodies of the state
- Beneficiaries - Street vendors doing vending activity in cities on or before March 24, 2020, Street vendors coming from urban areas and rural areas.





The objectives of the training program were as follows:

- To emphasize the importance of Aatma Nirbhar Bharat (Self-Reliant India) and emerging opportunities for urban poverty alleviation.
- To discuss and deliberate on the various provisions and procedures of the Prime Minister SVANidhi Scheme.
- To highlight the micro-credit facility available to urban poor through the SVANidhi Scheme.
- To discuss the provisions of the SVANidhi se Samriddhi Scheme.
- To identify and discuss the problems and challenges in the implementation of the Prime Minister SVANidhi Scheme and suggest measures for its effective execution.

TRAINING PROGRAMME HIGHLIGHTS:

The online training on Micro Credit Facilities for Urban Poor, organized in the context of the Prime Minister SVANidhi Scheme, has served as an important platform for disseminating knowledge and information to various stakeholders involved in urban governance and poverty alleviation. In light of the challenges posed by the COVID-19 pandemic, the program has equipped participants with the necessary understanding and tools to effectively implement the SVANidhi Scheme and provide much-needed support to the urban poor, especially street vendors. The coordinated efforts of RCUES and the participation of a diverse group

of stakeholders reflect a commitment to addressing the pressing issues of urban poverty and economic revival in India.

PARTICIPANTS:

The online workshops were attended by a diverse group of participants, including Executive Officer, Accountant, Sanitary & Food Inspector, Computer Operator, Clerk from Uttar Pradesh. A total of 61 participants actively engaged in the workshop, representing various stakeholders involved in the urban governance and development sector.

COORDINATION:

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

ONLINE TRAINING PROGRAMME ON E-GOVERNANCE IN ULBS

BACKGROUND

In alignment with the visionary Digital India Programme, RCUES Lucknow, under the Ministry of Housing and Urban Affairs, Government of India, launched a pioneering Online Training Programme on E-Governance in Urban Local Bodies (ULBs). This initiative aims to empower government officials with the knowledge and skills required to leverage digital technology for efficient municipal service delivery.

OBJECTIVES OF THE TRAINING PROGRAMME

- **Conceptual Understanding:** Familiarize participants with the concepts of E-Governance and E-Office, emphasizing their relevance and transformative potential.
- **Need and Importance:** Highlight the imperative need and importance of E-Governance and E-Office in enhancing government efficiency and public service delivery.

TRAINING PROGRAMME HIGHLIGHTS:

Digital Empowerment: Participants gain insights into the broader scope of e-governance beyond back-office operations, understanding its profound impact on government operations and responsibilities.

Digital India Programme: Exploration of the vision behind the Digital India Programme and its pivotal role in transforming India into a digitally empowered society and knowledge economy.

E-Office Integration: Recognition of the pivotal role of e-Office in achieving Simplified, Responsive, Effective, and Transparent paperless working in

List of Online Workshops	
Date	No of Participants
23 January, 2024	42
24 January, 2024	37
02 February, 2024	31
03 February, 2024	30

government offices.

Government Decision Making: Embracing the breakthrough offered by e-Office in strengthening governmental decision-making machinery through modern information and communication technology.

SESSIONS

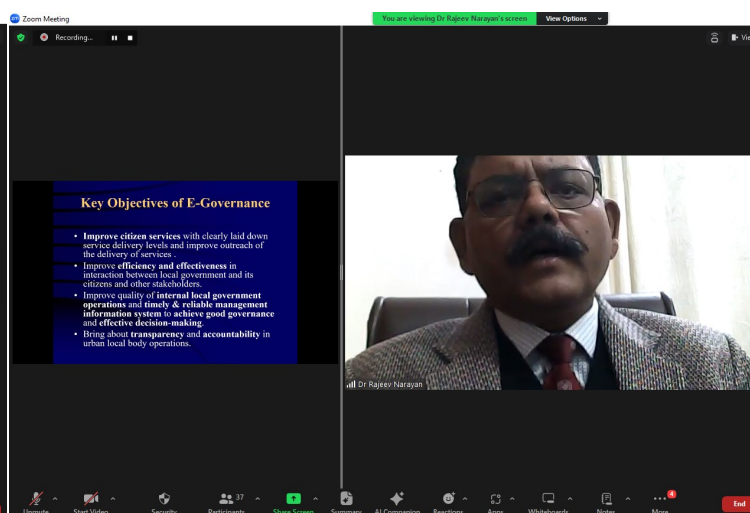
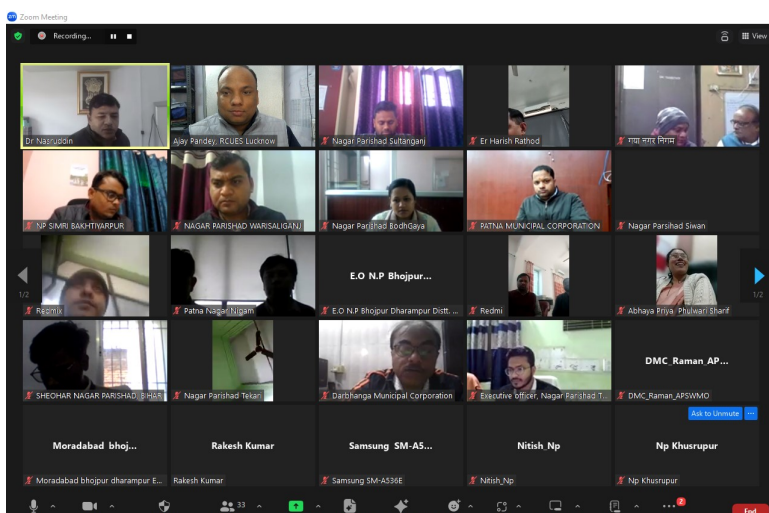
- **E-Governance: Role in Municipal Service Delivery:** Unveiling the impact and significance of E-Governance in municipal operations.
- **E-Office: Concept, Need, and Importance:** Exploring the foundational aspects of E-Office and its pivotal role in streamlining government functions.

PARTICIPANTS

The workshop was organized for Deputy Municipal Commissioners, Assistant Municipal Commissioners, Executive Officers, Engineers, MIS Experts, IT Experts, Officials involved in IT work. Overall 140 participants attended the workshop.

COORDINATION

The programme was coordinated by Dr Nasruddin, Assistant Director, RCUES, Lucknow



ONLINE WORKSHOP ON URBAN MOBILITY

BACKGROUND

Urban mobility is at the heart of creating livable, sustainable cities. As urbanization continues to accelerate, the demand for efficient, sustainable, and inclusive urban transport solutions becomes increasingly pressing. In response to these challenges, we are thrilled to announce the successful organization of an online training program focused on urban mobility. This initiative aimed to equip professionals with the essential knowledge and skills required to effectively address urban transport issues.

OBJECTIVES OF THE TRAINING PROGRAMME

- **Understanding Urban Mobility:** Participants gained insights into the key principles and concepts of urban mobility, enabling them to grasp the complexities of urban transport systems comprehensively.
- **Exploring Sustainable Solutions:** The training delved into sustainable and innovative urban transport solutions, focusing on strategies to reduce congestion, pollution, and greenhouse gas emissions.
- **Integrating Modes of Transportation:** Strategies for integrating various modes of transportation and improving public transit systems were discussed, emphasizing the importance of seamless connectivity.
- **Inclusivity and Accessibility:** The program highlighted the significance of inclusivity and accessibility in urban transport planning, ensuring equitable access for all members of society, including persons with disabilities and marginalized communities.
- **Fostering Collaboration:** Throughout the training, participants engaged in collaborative discussions and knowledge-sharing sessions, fostering a culture of collaboration and innovation.

TRAINING PROGRAMME HIGHLIGHTS:

Introduction to Urban Mobility: Participants gained insights into key concepts, challenges, and opportunities in urban mobility, setting the foundation for the subsequent sessions.

Sustainable Transport Solutions: Strategies for reducing congestion, pollution, and greenhouse gas

List of Online Workshops	
Date	No of Participants
23 January, 2024	42
24 January, 2024	47
02 February, 2024	22
03 February, 2024	19

emissions were explored, focusing on sustainable alternatives to traditional transportation modes.

Public Transit Systems: The planning, design, and management of efficient and inclusive public transit systems were discussed, emphasizing the role of public transportation in creating accessible cities.

Multimodal Transportation: The integration of various transportation modes, including walking, cycling, public transit, and shared mobility, was examined to promote seamless connectivity and accessibility.

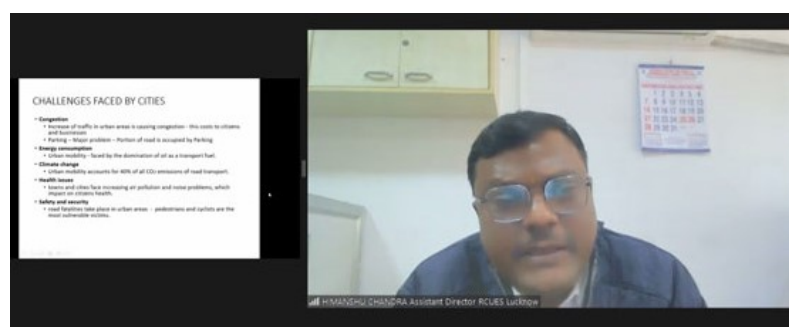
Inclusivity and Accessibility: Ensuring equitable access to transportation for all members of society, regardless of their abilities or socioeconomic status, was underscored as a fundamental aspect of urban mobility planning.

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



GEOVISION SEMINAR, UNVEILING THE TRANSFORMATIVE POWER OF GIS TECHNOLOGY IN UTTAR PRADESH

The GeoVision seminar, jointly organized by RCUES Lucknow, ESRI India, and RSAC-U.P., on 31 January, 2024 showcased the transformative potential of Geographic Information System (GIS) technology in Uttar Pradesh's governance and citizen-centric services. Inaugurated by the Chief Secretary, Shri Durga Shankar Mishra, the event emphasized data's pivotal role, citing successful georeferencing of 8 crore agricultural plots as an example. Notably, flagship missions like AMRUT and SMART CITY heavily rely on GIS for accurate planning and monitoring. Dr. Nishith Rai, Director RCUES Lucknow highlighted Uttar Pradesh's pioneering role in GIS adoption, advocating for a mission-oriented GIS approach. Er. A.K. Gupta, Additional Director RCUES Lucknow presented RCUES Lucknow's commendable achievement in property tax modernization, resulting in significant revenue enhancements. Plenary sessions explored evolving GIS technology landscapes, with live demonstrations of ArcGIS capabilities. Attendees gained insights from state leaders, industry experts, and technical professionals, fostering collaboration across sectors. The participants, comprising ULB officials, GIS experts, engineers, scientists, and RSAC officials, contributed to enriching dialogue and fostering collaboration to leverage GIS technology for enhancing governance in Uttar Pradesh.



REGIONAL WORKSHOP : ENGENDERING BUDGETS AND GENDER INCLUSIVE URBAN PLANNING

BACKGROUND

The landscape of urban planning and development in India has seen significant shifts driven by economic liberalization, globalization, and new policy regimes. The vision of the 11th Five Year Plan emphasized inclusive development, mainstreaming the poor, marginalized, underprivileged, and women. This led to heavy investments in urban infrastructure and municipal services by the Indian government, alongside pro-poor policies and urban reforms. Gender equality and women's empowerment have emerged as central themes, with gender budgeting gaining prominence as a tool for gender mainstreaming and development planning. In this context, RCUES Lucknow organised a Regional workshop on 05-07 February, 2024 at Dehradun Uttarakhand.

OBJECTIVES OF THE TRAINING PROGRAMME

- Review the rationale of gender budgeting as a tool for women's empowerment
- Examine policy initiatives, programs, schemes, and projects for gender mainstreaming in urban development
- Discuss tools and experiences of gender budgeting at the state level
- Address challenges in gender budgeting and identify measures for improvement
- Explore the role of stakeholders in gender budgeting and its scope across different sectors of

the economy

TRAINING PROGRAMME HIGHLIGHTS

The workshop was inaugurated by Shri Nitin Singh Bhadauria, IAS, Director of Urban Development, Govt of Uttarakhand, who highlighted the underrepresentation of women in urban governance and stressed the importance of their participation in decision-making processes. Dr. A.K. Singh, Former Deputy Director, RCUES, Lucknow, emphasized the need for gender-sensitive urban development to address the unique challenges faced by women in cities. Dr. Nasruddin, Assistant Director, RCUES, Lucknow, extended gratitude to the dignitaries and set the tone for the sessions ahead.

The workshop featured technical sessions covering various aspects of engendering urban development, governance, legal and policy perspectives of women empowerment, international experiences of gender budgeting, methods and tools of gender budgeting, and analysis of gender budgets.

PARTICIPANTS

A total of 58 participants, including officials from urban local bodies, parastatal bodies, and academic institutions of Uttar Pradesh and Uttarakhand, actively participated in the workshop.

COORDINATION

The programme was jointly coordinated by Dr A K Singh, Deputy Director and Dr Nasruddin, Assistant Director, RCUES, Lucknow.



ONLINE TRAINING ON URBAN TOURISM

BACKGROUND

Urban tourism planning is vital for showcasing urban attractions and providing diverse services to tourists. It significantly contributes to the national economy, generating employment, income, and infrastructure development. In 2017, India's travel and tourism industry made a substantial contribution to the GDP, ranking 7th globally. In this context, Regional Centre for Urban and Environmental Studies (RCUES) Lucknow successfully conducted 4, Online Training programmes on Urban Tourism.

OBJECTIVES OF THE TRAINING PROGRAMME

- Assess the requirements of the floating population and their stay at various destinations.
- Build capacity in developing social and physical infrastructure and amenities for visitors.
- Develop recreational and cultural events to attract tourists.
- Understand the design and development of pleasure activities and professional service providers.

TRAINING PROGRAMME HIGHLIGHTS:

- Assessing Floating Population Requirements: Understanding tourists' needs at different destinations.
- Capacity Building for Infrastructure Development: Developing social and physical infrastructure and amenities.
- Recreational and Cultural Event Planning: Strategies for attracting tourists through events.
- Designing Pleasure Activities and Services: Creating memorable experiences for visitors.

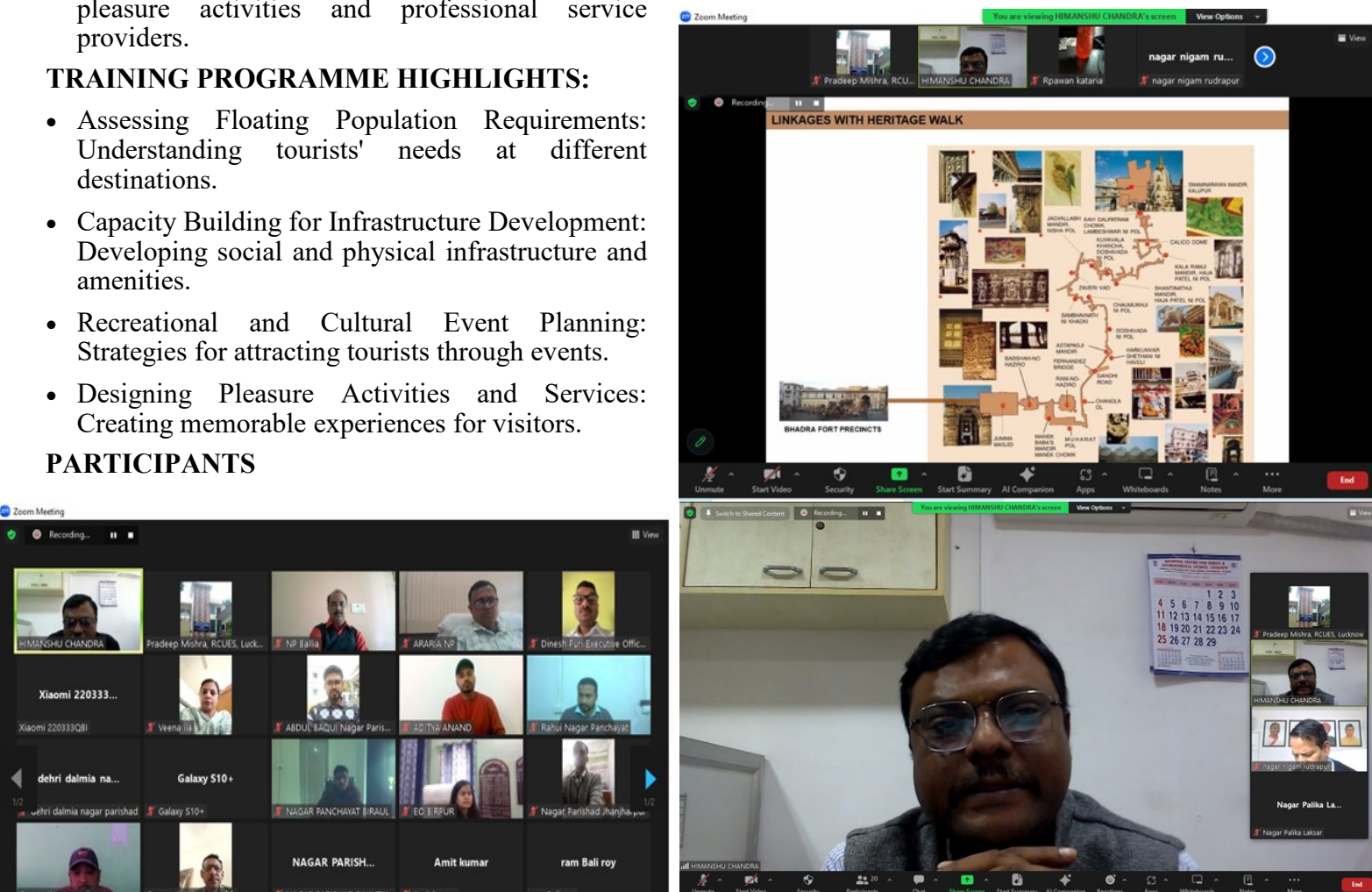
PARTICIPANTS

List of Online Workshops	
Date	No of Participants
20 February, 2024	15
21 February, 2024	15
22 February, 2024	15
23 February, 2024	15

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 60 participants attended the workshop.

COORDINATION

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



ONLINE TRAINING ON MANAGING PLASTIC AND C&D WASTE IN CITIES

BACKGROUND

Solid waste management is a critical component of environmental sustainability, encompassing various activities such as collection, treatment, disposal, and recycling of discarded materials. With the growing population and rapid urbanization, the challenges associated with solid waste management have become increasingly pronounced, necessitating effective strategies to address them. In response, the Regional Centre for Urban and Environmental Studies (RCUES), Lucknow, organized four online training programs titled "Managing Plastic and C&D Waste in Cities".

OBJECTIVES OF THE TRAINING PROGRAMME

- Raise awareness about the environmental, social, and economic implications of plastic and C&D waste.
- Explore innovative solutions and best practices for recycling and re-utilization of plastic waste.
- Highlight the importance of proper C&D waste management in conserving resources and reducing environmental impact.
- Provide practical guidance to stakeholders on implementing effective waste management strategies in urban areas.

TRAINING PROGRAMME HIGHLIGHTS:

Plastic Waste Management: Need and Importance:

Plastic waste has emerged as a significant concern due to its detrimental impact on the environment, aesthetics, and public health. Efforts to manage plastic waste effectively are imperative to mitigate these issues. Recycling and reusing plastics offer numerous benefits, including reducing the demand for new materials, energy consumption, and carbon emissions.

List of Online Workshops	
Date	No of Participants
24 February, 2024	25
26 February, 2024	24
28 February, 2024	20
29 February, 2024	18

Hence, it's essential to familiarize stakeholders with the significance of plastic waste management and highlight its environmental, social, and economic importance.

C&D Waste Management: Need and Importance:

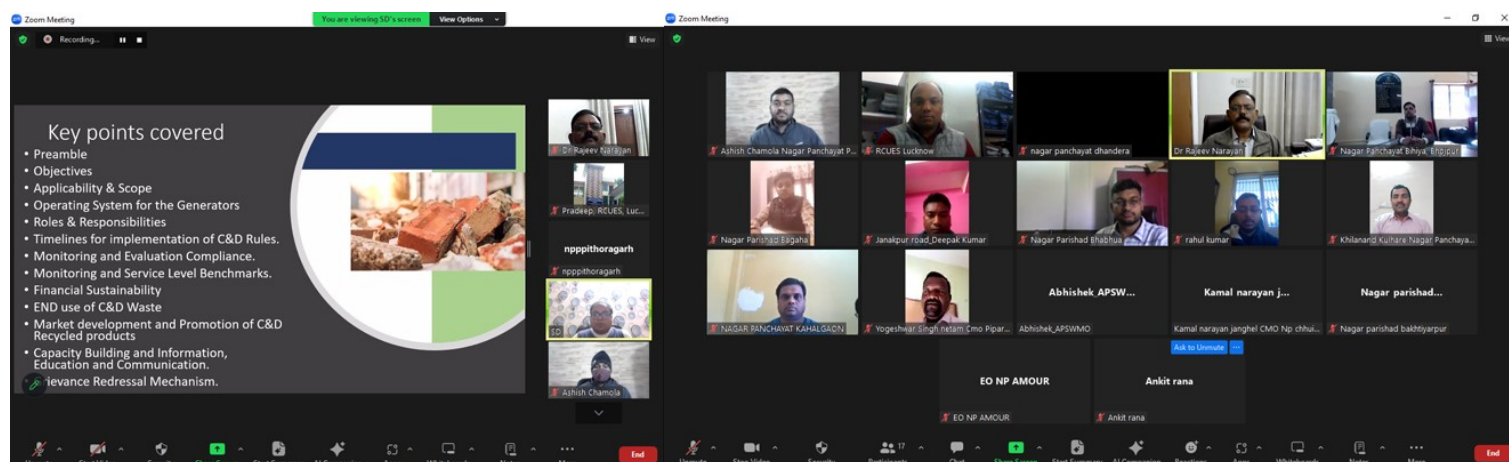
Construction and demolition (C&D) waste management is another crucial aspect of solid waste management. The rapid pace of urban development has led to a surge in C&D waste generation, posing challenges such as indiscriminate dumping and pollution. Effective management of C&D waste is essential to conserve resources, prevent environmental degradation, and provide essential construction materials. Therefore, there's a need to acquaint stakeholders with the challenges and opportunities associated with C&D waste management, emphasizing innovative methods and solutions for resource conservation and environmental sustainability.

PARTICIPANTS

A total of 87 participants joined the online training program organized by RCUES, Lucknow. These participants, hailing from Bihar, Uttarakhand, Chhattisgarh, and Jharkhand, constituted a diverse group of professionals engaged in solid waste management. Their roles varied from Dy. Municipal Commissioner to Tax Collector.

COORDINATION

The programme was coordinated by Dr Rajeev Narayan, Joint Director, RCUES, Lucknow.



NATIONAL SEMINAR: URBAN 20 INDIA: EMERGING PERSPECTIVE CHALLENGES AND WAY FORWARD

BACKGROUND

India's G20 presidency presents a unique opportunity to showcase the impact of city-led policies on global development targets. The Urban 20 (U20) engagement group, comprising cities from G20 nations, aims to bridge the gap between intentions and actions in urban governance. In this context, a National Seminar organized by RCUES, Lucknow, under the auspices of the Indian Council of Social Science Research (ICSSR), Ministry of Education, Government of India, was convened to discuss and recommend policy measures for effective urban governance during India's Urban 20 cycle on 27-28 February, 2024 at Lucknow.

OBJECTIVES OF THE SEMINAR

- Highlight the implications, policy perspectives, and challenges of urbanization in India.
- Emphasize the importance of climate change action, resilience, disaster mitigation, and water security for impactful climate action in cities.
- Identify drivers, challenges, and opportunities for aligning city initiatives with the Sustainable Development Goals (SDGs).
- Spotlight the mainstreaming of women, youth, and children in urban planning and governance.
- Discuss the significance of local culture, heritage, and its impact on the Indian economy.
- Highlight the importance of circular economy principles, waste management, water resource conservation, and wastewater management.
- Explore the role of digital technology in shaping the urban future and integrating it with urban planning and governance.
- Provide a roadmap for developing action plans and strategies to address emerging issues in sustainable urban development.

Sub Themes: The seminar covered various sub-themes aligned with the Urban 20 Agenda, including:

- Climate Change Action Financing
- Urban Resilience and Planning
- Encouraging Environmentally Responsible Behavior
- Sustainable Urban Mobility and Transportation
- Urban Environment, Ecology, and Ecosystem
- Achieving SDGs

- Mainstreaming Women, Youth, and Children
- Local Culture, Heritage, and Economy

The seminar provided a platform for stakeholders to exchange ideas, share best practices, and develop actionable strategies for advancing urban governance and sustainable development in India. By addressing the complex challenges of urbanization, climate change, and social inclusion, cities can contribute significantly to achieving national and global development objectives.

PARTICIPANTS

The seminar brought together a diverse range of participants, comprising university and college academicians, teachers, and scholars, alongside representatives from ministries and departments of both central & state governments. Municipal officials from Urban Local Bodies (ULBs) and parastatal agencies, as well as corporate entities and private organizations, also participated actively. Moreover, officials from State Skill Development Missions, the Directorate of Labour Welfare, Social Welfare, State Women Development Corporation, and State Women Commission added valuable perspectives. Additionally, representatives from civil society organizations contributed to the enriching discussions. In total, the seminar saw 80 participants engaging in fruitful exchanges and collaborations towards advancing urban governance and sustainable development goals.

COORDINATION

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



ADVANCE TRAINING PROGRAMME FOR GOVERNMENT OFFICIALS OF BIHAR ON REVIEW AND PREPARATION OF DPR

BACKGROUND

With the emergence of Used Water Management (UWM), particularly focusing on Faecal Sludge/Septage Management (FSSM), as a crucial component under SBM U 2.0, the state of Bihar is gearing up for the preparation of Detailed Project Reports (DPRs) on UWM. Recognizing the significance of this initiative, a workshop was organized to delve into Liquid Waste Management, Sewer Network Design, Sewage Treatment Technologies, Co-treatment Methods, and Tools for DPR Preparation. In this context, a Training Programme was organized by the Regional Centre for Urban and Environmental Studies, Lucknow, on 08-10 March, 2024 at Lucknow.

OBJECTIVES OF THE TRAINING PROGRAMME

In preparation for DPRs on UWM, it is essential to enhance the capacities of officials and parastatal bodies such as BUIDCO. This workshop served as a crucial step in equipping participants with the necessary skills and knowledge to effectively manage faecal sludge and septage in urban areas of Bihar. Through interactive sessions and hands-on experiences, participants gained valuable insights into the intricacies of liquid waste management, laying the foundation for successful implementation of FSSM initiatives in the state.

TRAINING PROGRAMME HIGHLIGHTS:

The inaugural training session aimed at empowering officials from Bihar, especially those associated with the implementation agency, Bihar Urban Infrastructure Development Corporation Limited (BUIDCO). The training covered a wide array of topics, including sewerage systems, treatment technologies, and co-treatment methods. A comprehensive 3-day classroom training program, augmented by an exposure visit to a nearby Sewage Treatment Plant (STP), provided participants with both theoretical knowledge and practical insights.

PARTICIPANTS

A total of 18 Officials from Bihar attended the training programme organized by RCUES, Lucknow.

COORDINATION

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



ONLINE TRAINING ON INCLUSIVE URBAN POLICY

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 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, two Online Training programmes on Inclusive Housing policy (PM Awas Yojana (Urban)).

List of Online Workshops	
Date	No of Participants
06 March, 2024	86
07 March, 2024	95

OBJECTIVES OF THE TRAINING PROGRAMME

- 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 trainings were attended by Executive Officer, Sanitary & Food Inspector, Junior Engineer, UIS, Computer Operator, DPM SBM-U, Community Organiser from Uttar Pradesh, Chhattisgarh & Jharkhand. In total 181 participants attended the training.

COORDINATOR:

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



ONLINE TRAINING ON PROJECT AND CONTRACT MANAGEMENT FOR URBAN DEVELOPMENT

BACKGROUND

India's rapid urbanization presents both opportunities and challenges. To effectively manage these dynamics, the Ministry of Housing and Urban Affairs (MoHUA) emphasizes the importance of systematic project and contract management, alongside promoting Public-Private Partnerships (PPPs) in urban development. This initiative aligns with the broader goal of creating sustainable and liveable cities in India. In this context, RCUES Lucknow organized an online training session on 12th March 2024.

OBJECTIVES OF THE TRAINING PROGRAMME

The training aimed to:

1. Enhance participants' understanding of project management principles, tools, and best practices.
2. Equip participants with skills for effective contract management throughout the project lifecycle.
3. Provide insights into PPP concepts and their application for infrastructure development and public service delivery.

TRAINING PROGRAMME HIGHLIGHTS:

Project Management: The training provided a comprehensive exploration of project initiation, planning, execution, monitoring, and closure. Practical exercises and case studies were utilized to reinforce concepts.

Contract Management: Participants engaged in an in-depth analysis of procurement processes, risk assessment, dispute resolution, and compliance. Real-world scenarios were examined to enhance understanding.

Public-Private Partnership (PPP): An overview of various PPP models, along with their benefits, challenges, and successful case studies, was provided to broaden participants' perspectives on infrastructure development and service delivery.

PARTICIPANTS

A total of 59 ULB Officials attended the training programme organized by RCUES, Lucknow.

COORDINATION

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

Balancing Competing Project Constraints

- Scope
- Quality
- Schedule
- Budget
- Resources
- Risks/Issues

Changing any one factor will also change at least one other factor...

For example, shortening the Schedule will likely increase cost or reduce scope/quality

Elements of Contract Management

- Bidder selection
- Contract awarding
- Quality assurance systems
- Construction programme
- Effective control
- Extension of time
- Liquidated damages
- Change control
- Performance security/ security deposit
- Advance payment
- Payment of running and final bills
- Dispute resolution
- Arbitration clause
- Price escalation and adjustments
- Suspension of work
- Termination

Types of Contracts

Firm fixed-price (Lump Sum) contracts <ul style="list-style-type: none">Maximum incentive, Maximum risk and full responsibility on the Contractor/ consultantHighly suitable for works and services where:<ul style="list-style-type: none">Adequate price competition existsReasonable price comparisons are available	Fixed-unit-price contracts <ul style="list-style-type: none">Upward or downward revision of the contract price based upon actual quantities of work performed by ContractorHighly suitable where quantities cannot be determined with reasonable accuracy prior to actual works	Combined firm-fixed/unit-price <ul style="list-style-type: none">This is a variation of lump sum contract where:<ul style="list-style-type: none">Unit-rate price is offered for some of the items for which quantities cannot be determined in advance with reasonable accuracy
Fixed-price with price adjustment <ul style="list-style-type: none">Upward or downward revision of the contract price upon	Time-and-materials contracts <ul style="list-style-type: none">Procurement of goods and services on the basis of direct	Cost-reimbursement contracts <ul style="list-style-type: none">Payment to contractor is based on allocable and allowable

Contract Management

By: Mr. Himanshu Chandra, Assistant Director

RCUES, Lucknow

Regional Centre for Urban & Environmental Studies Lucknow (Estd. By Ministry of Housing & Urban Affairs, Government of India)

ONLINE TRAINING ON SOLID WASTE & LEGACY WASTE MANAGEMENT IN ULBS

BACKGROUND

The Bioremediation Program, a pioneering mechanical-biological treatment, offers a cost-effective solution to mitigate the climate impact of landfill sites, which are significant generators of greenhouse gases in the waste sector. By aerobically composting the organic fraction of mixed waste, this program reduces methane and leachate production to nearly zero, thus addressing environmental concerns associated with landfill sites. The process involves aeration of mixed waste in old dumps through the formation of windrows and the application of microbial culture to degrade organic matter rapidly. Weekly mechanical turning of windrows facilitates faster degradation, resulting in up to a 40% reduction in waste volume after four turnings. The potential for methane gas generation is theoretically reduced by 90% compared to unprocessed waste dumping. Additionally, bioremediation provides a low-cost solution to the large accumulated mixed waste at landfill sites, with bio-mining enabling resource extraction from stabilized waste for productive reuse. In this context, four Online Training programmes on Solid Waste & Legacy Waste Management in ULBs.

OBJECTIVES OF THE TRAINING PROGRAMME

- To familiarize the participants with the Need & Importance of Legacy Waste Management
- To Acquaint the participants with the Method & Solutions for Legacy Waste Management

TRAINING PROGRAMME HIGHLIGHTS:

- The training session emphasized the significance of legacy waste management, familiarizing participants with its importance.
- It highlighted the environmental and socio-

List of Online Workshops	
Date	No of Participants
13 March, 2024	19
14 March, 2024	24
15 March, 2024	22
16 March, 2024	19

economic implications of unaddressed legacy waste, underscoring the urgency of action.

- Participants were acquainted with various methods and innovative solutions for managing legacy waste, fostering a deeper understanding of practical approaches.
- The training provided insights into the technologies available for effective waste management, encouraging participants to explore sustainable solutions.

PARTICIPANTS

Overall, the program saw the participation of 84 individuals from Urban Local Bodies (ULBs) of Bihar and Uttarakhand. These participants held various roles including Deputy Municipal Commissioner, Executive Officer, Assistant Public Sanitation & Waste Management Officer, Assistant Town Planning Supervisor, Chief Municipal Engineer, Clerk, Computer Operator, Data Entry Operator, Environmental Supervisor, Executive Assistant, MTS, and Tax Collector. Each of these roles plays a vital part in Solid Waste Management within their respective ULBs, reflecting a comprehensive representation of stakeholders involved in the management of waste in urban areas.

COORDINATOR:

The training programme was coordinated by Dr Rajeev Narayan, Joint Director, RCUES, Lucknow.

ONLINE TRAINING ON GIS BASED MASTER PLAN, LOCAL AREA PLAN & TOWN PLANNING SCHEME IN URBAN AREAS

BACKGROUND

Geographic Information Systems (GIS) have revolutionized data management, analysis, and visualization across various fields. In the urban sector, GIS holds immense potential, particularly in property taxation. By spatially organizing property-related data, GIS facilitates efficient property tax management, contributing to revenue enhancement and informed decision-making processes. In line with this commitment, RCUES organized an online training program focused on Geographic Information Systems (GIS) and its applications in urban planning.

OBJECTIVES OF THE TRAINING PROGRAMME

- Familiarization with GIS: The program aimed to acquaint participants with the concept of Geographic Information Systems (GIS) and its relevance in contemporary urban planning.
- Importance of GIS-based Master Plans: Emphasis was placed on highlighting the necessity and significance of GIS-based master plans in urban development initiatives.
- Local Area Planning: The training sought to underscore the importance of local area planning and its integration within urban planning frameworks.
- Town Planning Schemes: Participants were briefed on the significance of town planning schemes and how GIS can facilitate their formulation, implementation, and monitoring.

TRAINING PROGRAMME HIGHLIGHTS:

- GIS Role in Urban Planning: This session provided participants with a comprehensive understanding of GIS's role in modern urban planning processes. Topics covered included GIS introduction, its applications in urban planning, benefits, and real-world case studies demonstrating successful implementation.
- GIS-Based Master Plan: Participants were introduced to GIS-based master plans and their importance in urban development. The session elaborated on the components of such plans, formulation processes, and the benefits derived from integrating GIS methodologies.
- Local Area & Town Planning Schemes: The importance of local area planning and town planning schemes within urban development frameworks was emphasized. Participants gained

List of Online Workshops

Date	No of Participants
13 March, 2024	45
14 March, 2024	42
15 March, 2024	34
16 March, 2024	20

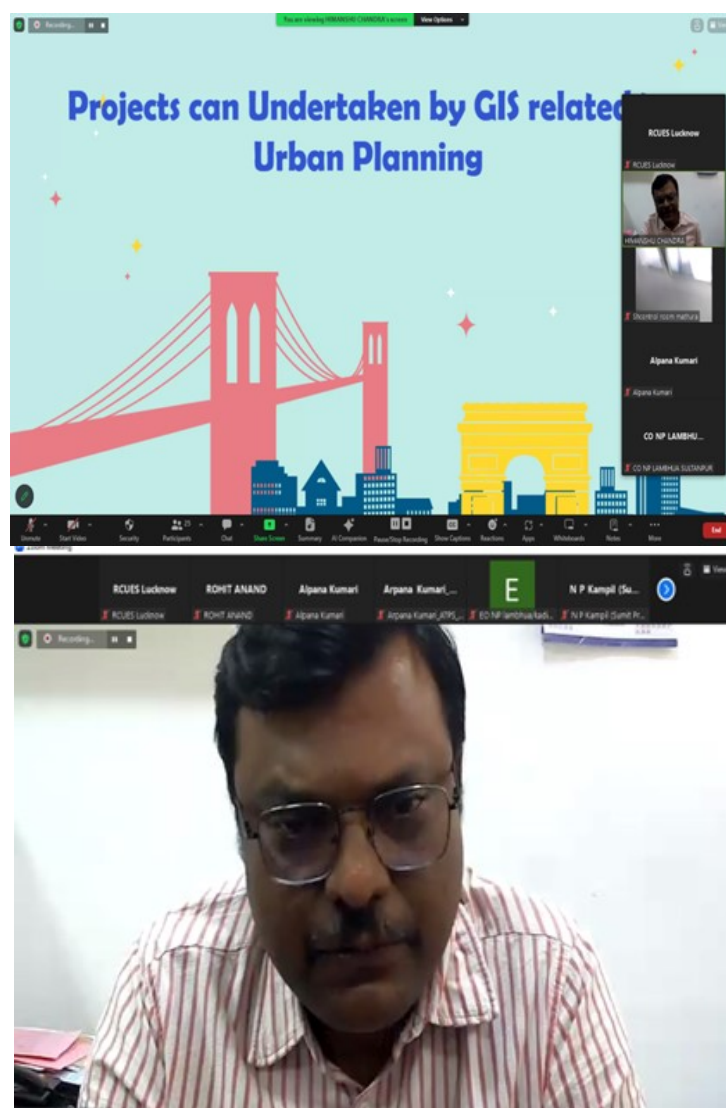
insights into how GIS can facilitate the formulation, implementation, and monitoring of these schemes, with relevant case studies providing practical context.

PARTICIPANTS

A total of 126 ULBs Officials attended the training programme organized by RCUES, Lucknow.

COORDINATION

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



ONLINE TRAINING ON GIS BASED PROPERTY TAX MANAGEMENT SYSTEM IN ULBS

BACKGROUND

Geographic Information Systems (GIS) have transformed data management, analysis, and visualization across various sectors. In the urban domain, GIS holds immense potential, particularly in property taxation. By spatially organizing property-related data, GIS facilitates efficient property tax management, aiding revenue enhancement and informed decision-making. In this context, four Online Training programmes on GIS Based Property Tax Management System in ULBs were organized by RCUES Lucknow.

OBJECTIVES OF THE TRAINING PROGRAMME:

- Highlight the role of GIS in Property Tax Management.
- Showcase how GIS enhances revenue through a GIS-based Property Tax Management System.
- Share a Case study of the GIS-based Property Tax Management Information System (PTMIS) of Lucknow Nagar Nigam.

TRAINING PROGRAMME HIGHLIGHTS:

The training addresses challenges in Property Tax Assessment Systems and the pressing need for reforms in Urban Local Bodies (ULBs). It focuses on GIS as a catalyst for revenue enhancement in ULBs

List of Online Workshops	
Date	No of Participants
15 March, 2024	40
16 March, 2024	24
18 March, 2024	26
19 March, 2024	36

and presents a case study of the GIS-based Property Tax Management System implemented by Lucknow Nagar Nigam.

Challenges in Property Tax Assessment System & Need for Reforms in ULBs:

- Explore the current challenges faced by ULBs in property tax assessment.
- Discuss the necessity for reforms to improve tax assessment accuracy and revenue collection.

GIS as a Catalyst for Revenue Enhancement in Urban Local Bodies:

- Understand the role of GIS in optimizing revenue generation for ULBs.
- Explore various GIS applications in property tax management.

GIS-based Property Tax Management System: Case Study of Lucknow Nagar Nigam:

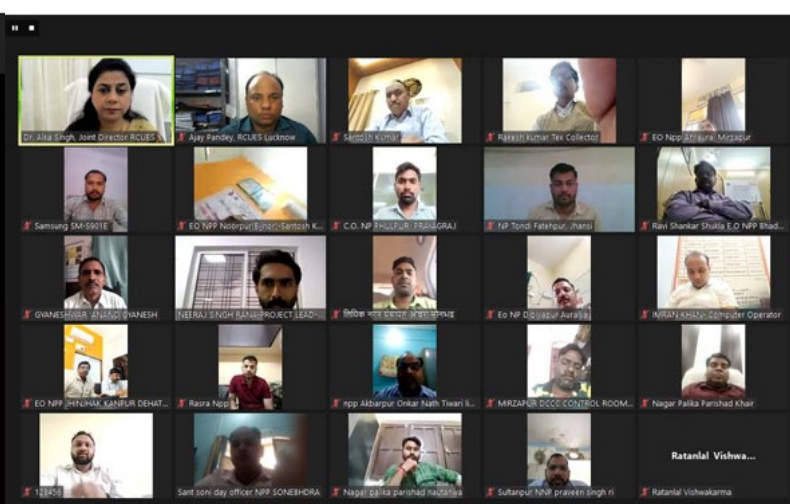
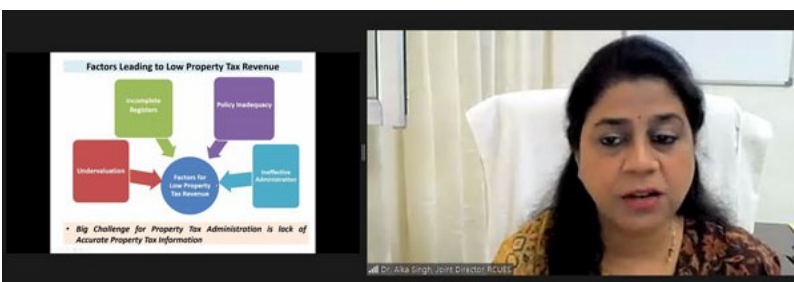
- Delve into the GIS-based Property Tax Management Information System (PTMIS) implemented by Lucknow Nagar Nigam.

PARTICIPANTS

Overall, the program saw the participation of 126 officials from Urban Local Bodies (ULBs).

COORDINATOR:

The training programme was coordinated by Dr Alka Singh, Joint Director, RCUES, Lucknow.



ONLINE TRAINING ON INCLUSIVE URBAN DEVELOPMENT

BACKGROUND:

The concept of inclusive growth and development, focused on incorporating weaker, vulnerable, and marginalized populations into balanced spatial development, is gaining traction in today's economic and policy landscape. Inclusive urban planning is essential for empowering the urban poor and integrating them into urban development efforts. While the Government of India has launched various programs for infrastructure development and housing for the underprivileged, inclusive planning necessitates community involvement for effective implementation.

Despite comprising half of the urban population, women are inadequately represented in urban governance and decision-making processes, especially within Urban Local Bodies (ULBs). This gender disparity extends to urban planning, resulting in insufficient women-friendly infrastructure and services. Promoting gender equality and inclusive development requires aligning development policies, programs, and institutional resources while integrating gender considerations into urban development plans and initiatives.

In response, RCUES Lucknow organized three online training programs on "Inclusive Urban Development," focusing on pertinent issues such as gender needs, gender budgeting, and inclusive urban planning.

OBJECTIVES OF THE TRAINING PROGRAMME:

- To highlight the policy perspective and theoretical

framework of inclusive urban 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.

TRAINING PROGRAMME HIGHLIGHTS:

Gender Inclusive Urban Development: Exploring principles and practices of gender-inclusive urban development.

Gender Inclusive Urban Planning: Discussing scope and strategies for gender-inclusive urban planning.

PARTICIPANTS

The Executive Officers, and other municipal officials of Nagar Panchayats of Uttar Pradesh attended the programmes. Overall, 62 municipal officials attended these programmes.

COORDINATOR

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

List of Online Workshops	
Date	No of Participants
15 March, 2024	20
16 March, 2024	22
23 March, 2024	20



ONLINE TRAINING ON DEVELOPMENT OF GREEN SPACES & PARKS IN ULBS

BACKGROUND

In the wake of rapid urbanization, the creation and maintenance of green spaces within Urban Local Bodies (ULBs) have emerged as imperative components of sustainable urban development. Green spaces not only enhance the aesthetic appeal of urban areas but also play a pivotal role in mitigating environmental degradation, fostering community well-being, and promoting biodiversity conservation. Recognizing the significance of this aspect, this online training program aims to equip stakeholders with the requisite knowledge and skills for effectively planning, designing, and managing green spaces within ULBs.

To address these challenges, Missions like the Atal Mission for Rejuvenation and Urban Transformation (AMRUT) emphasize the importance of incorporating green spaces into urban planning frameworks. However, there remains a notable gap in knowledge and capacity among ULB officials and stakeholders regarding the conceptualization, implementation, and management of green space projects. In this context RCUES Lucknow organised 4, Online Training programmes on Development of Green Spaces & Parks in ULBs.

OBJECTIVES OF THE TRAINING PROGRAMME

- **Enhancing Understanding:** Provide participants with a comprehensive understanding of the importance and benefits of green spaces in urban areas.
- **Building Capacity:** Equip stakeholders with the knowledge and skills necessary for effectively planning, designing, and managing green spaces within ULBs.
- **Promoting Best Practices:** Introduce participants to best practices and innovative approaches for green space development and management.

List of Online Trainings

Date	No of Participants
20 March, 2024	25
21 March, 2024	20
22 March, 2024	32
23 March, 2024	19

- **Facilitating Collaboration:** Foster collaboration among stakeholders to promote the integration of green spaces into urban planning processes.

TRAINING PROGRAMME HIGHLIGHTS

As cities continue to grow and evolve, the creation and maintenance of green spaces within ULBs will remain crucial for sustainable urban development. By providing stakeholders with the tools and knowledge needed to navigate the complexities of green space planning and management, this training program aims to contribute to the creation of healthier, more vibrant, and environmentally sustainable urban environments.

PARTICIPANTS

The training program was organized for various stakeholders involved in urban development, including Chief Engineers, Executive Engineers, Assistant Engineers, Chief Sanitary Officers, Sanitary Inspectors, City Managers, Urban Planners, city-level Infrastructure specialists, Municipal Commissioners, and Additional Municipal Commissioners. Overall 96 participants attended the trainings.

COORDINATOR

The programme was coordinated by Dr Alka Singh, Joint Director, RCUES, Lucknow.



ONLINE TRAINING ON ACHIEVING SDG GOAL-6 CLEAN WATER & SANITATION IN CITIES

BACKGROUND

In the pursuit of sustainable development, the United Nations has established a set of Sustainable Development Goals (SDGs) to address various global challenges by 2030. Among these goals, Goal 6 focuses on ensuring access to clean water and sanitation for all. In the context of rapidly urbanizing cities, achieving this goal becomes particularly critical due to the increasing strain on water resources and sanitation infrastructure. Recognizing the importance of addressing water and sanitation challenges in urban areas, the Regional Centre for Urban and Environmental Studies (RCUES) Lucknow has undertaken the initiative to conduct four, online training sessions. These sessions aim to equip stakeholders with the necessary knowledge and skills to contribute towards achieving SDG Goal 6 within urban settings.

OBJECTIVES OF THE TRAINING PROGRAMME

- To raise awareness about the importance of clean water and sanitation in urban settings.
- To educate stakeholders about the challenges hindering SDG 6 achievement in cities.
- To equip participants with knowledge and tools to implement sustainable water and sanitation solutions.
- To encourage collaboration and partnerships among stakeholders for effective implementation.

TRAINING PROGRAMME HIGHLIGHTS

The training program on Integrated Water Management highlights the interconnectedness of urban challenges and the need for innovative solutions

guided by effective governance and policy frameworks. By addressing the complexities of water management in urban areas, the program aims to equip participants with the knowledge and tools necessary to tackle the multifaceted issues surrounding water resources. Through an exploration of innovative solutions and best practices, participants gain insights into how integrated approaches can address urban water challenges sustainably. Additionally, the emphasis on governance and policy underscores the importance of establishing robust frameworks to support coordinated efforts in water management and ensure the long-term resilience of urban water systems.

PARTICIPANTS

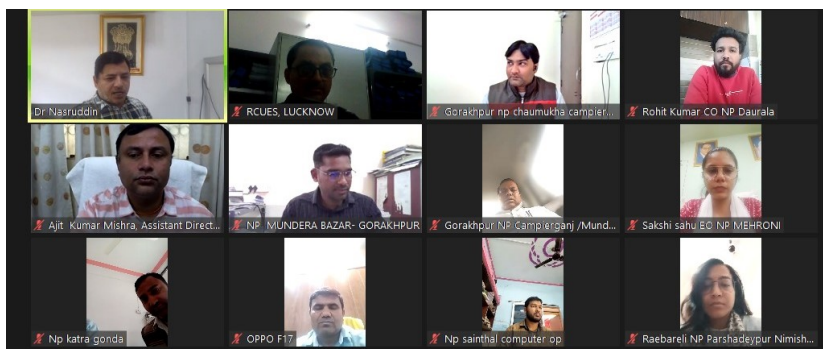
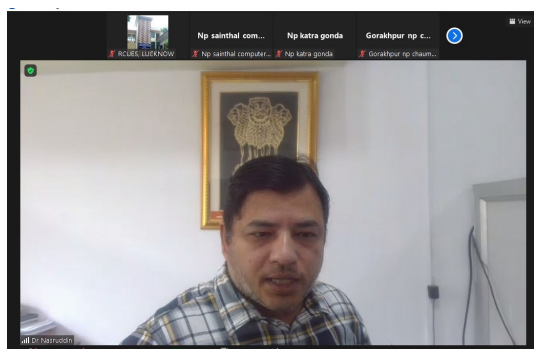
The training program was organized for various stakeholders involved in urban development, including Chief Engineers, Executive Engineers, Assistant Engineers, Chief Sanitary Officers, Sanitary Inspectors, City Managers, Urban Planners, city-level Infrastructure specialists, Municipal Commissioners, and Additional Municipal Commissioners. Overall 86 participants attended the trainings.

COORDINATOR

The programme was coordinated by Dr Nasruddin, Assistant Director, RCUES, Lucknow.

List of Online Trainings

Date	No of Participants
20 March, 2024	24
20 March, 2024	20
21 March, 2024	15
21 March, 2024	27



ONLINE TRAINING ON CLIMATE CHANGE: MITIGATION, ADAPTATION & IMPACT REDUCTION IN CITIES

BACKGROUND

Climate change poses one of the most significant challenges of our time, with profound implications for human societies, ecosystems, and economies. Urban areas, in particular, are increasingly vulnerable to the impacts of climate change due to their concentration of population, infrastructure, and economic activities. Rising temperatures, changing precipitation patterns, and extreme weather events threaten cities with challenges such as heat waves, flooding, and water scarcity.

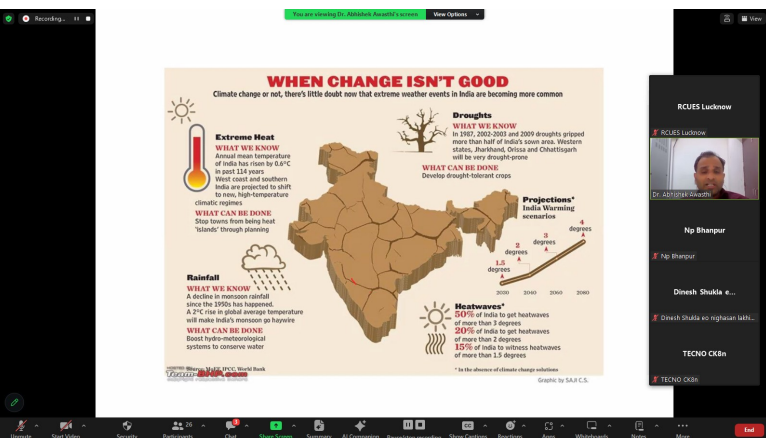
Recognizing the urgent need to address these challenges, there is growing emphasis on enhancing the capacity of cities to both mitigate and adapt to climate change. In response to these imperatives, RCUES Lucknow organised 4, online training programmes on Climate Change: Mitigation, Adaptation & Impact Reduction in cities.

OBJECTIVES OF THE TRAINING PROGRAMME

- **Knowledge Empowerment:** Equip participants with comprehensive understanding and practical tools for addressing climate change challenges.
- **Community Building:** Foster collaboration and networks among diverse stakeholders to drive collective action on climate change.
- **Policy Influence:** Empower participants to advocate for evidence-based climate policies and integrate climate considerations into urban planning.
- **Behavioral Change:** Inspire individuals to adopt climate-friendly behaviours, promoting sustainability and resilience in cities.

TRAINING PROGRAMME HIGHLIGHTS

Mitigation: Participants gained thorough understanding of greenhouse gas emissions reduction



List of Workshops	
Date	No of Participants
23 March, 2024	17
30 March, 2024	26
30 March, 2024	20

strategies, renewable energy promotion, and sustainable practices implementation to mitigate climate change impacts effectively.

Adaptation: The program equipped participants with essential knowledge and practical tools to adapt to the unavoidable consequences of climate change, including extreme weather events and rising sea levels, ensuring cities can thrive in changing environments.

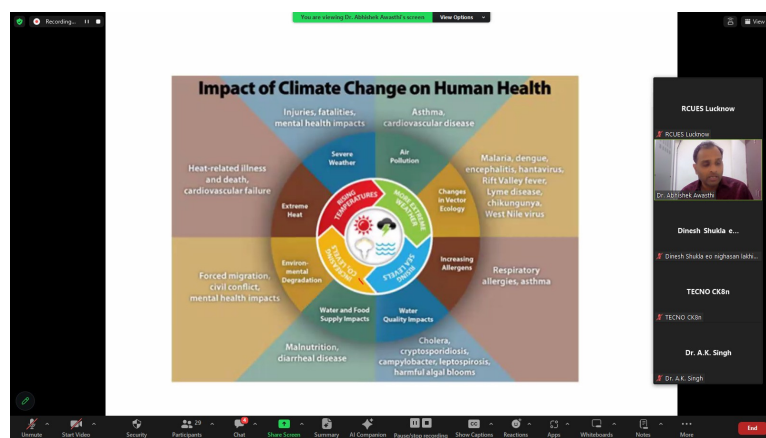
Impact Reduction in Cities: Addressing urban-specific challenges, the training focused on advocating for resilient infrastructure, enhancing green spaces, and fostering community engagement to reduce the impact of climate change on urban environments, promoting sustainability and resilience in cities.

PARTICIPANTS

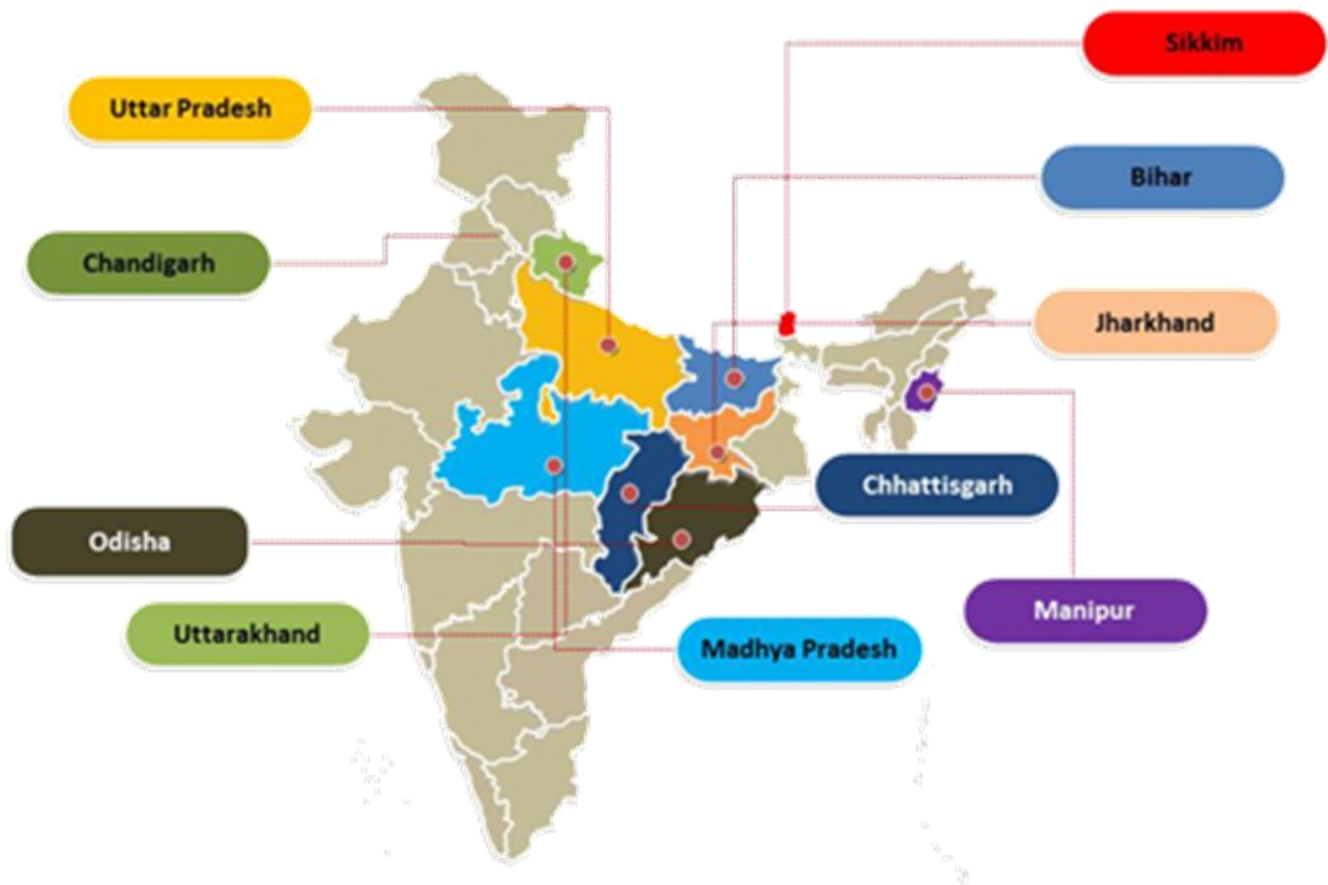
The training program was organized for for various stakeholders involved in urban development, including Chief Engineers, Executive Engineers, Assistant Engineers, Chief Sanitary Officers, Sanitary Inspectors, City Managers, Urban Planners, city-level Infrastructure specialists, Municipal Commissioners, and Additional Municipal Commissioners. Overall 96 participants attended the trainings.

COORDINATOR

The programme was coordinated by Dr A K Singh, Deputy Director, RCUES, Lucknow.



OUR REACH



Upcoming Campus of RCUES at Indira Nagar, Lucknow



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