



REGIONAL CENTRE FOR URBAN & ENVIRONMENTAL STUDIES, LUCKNOW

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

(ACCREDITED AS 'UTKRISHT' BY CAPACITY BUILDING COMMISSION, GOVERNMENT OF INDIA)

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The Regional Centre for Urban & Environmental Studies (RCUES) Lucknow, established in 1968 by the Ministry of Housing and Urban Affairs, Government of India, is one of four such centers in the country. It provides expertise, advisory, and consultancy services to urban local bodies and parastatal agencies. Having completed over 50 years of service, RCUES Lucknow continues to uphold its role as a Centre of Excellence, driving progress in urban governance and development.

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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 10, two 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.
- 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

List of Trainings		
Date	No of Participants	Coordinator
05-06 May, 2025	20	Dr. Alka Singh
07-08 May, 2025	22	Mr. Ajit Kumar Mishra
15-16 May, 2025	23	Dr. Anjuli Mishra
20-21 May, 2025	23	Mr. Ajit Kumar Mishra
03-04 June, 2025	21	Mr. Ajit Kumar Mishra
04-05 June, 2025	27	Dr. Anjuli Mishra
09-10 June, 2025	16	Mr. Ajit Kumar Mishra
12-13 June, 2025	22	Dr. Anjuli Mishra
17-18 June, 2025	19	Dr. Anjuli Mishra
24-25 June, 2025	32	Dr. Anjuli Mishra

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:

- 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 225 elected representatives from Uttar Pradesh participated in the training programme.

ORIENTATION TRAINING PROGRAMME FOR ELECTED REPRESENTATIVES OF UTTARAKHAND 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 a, two day Orientation Training Programme under Atal Mission for Rejuvenation and Urban Transformation 2.0 for Elected Representatives of Uttarakhand 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.
- 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:

- 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.

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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 15 elected representatives including Mayor, Chairman & Councillors from Uttarakhand participated in the training programme.



ONLINE TRAINING PROGRAMME UNDER SBM 2.0 WITH FOCUS ON USED WATER MANAGEMENT

BACKGROUND

As part of the ongoing efforts under Swachh Bharat Mission (SBM) 2.0, the Regional Centre for Urban and Environmental Studies (RCUES), Lucknow, organized three Online Training Programmes focused on Used Water Management.

With increasing urbanization, effective used water (greywater and blackwater) management has become essential for sustainable urban sanitation and environmental protection. These training programmes aimed to enhance the capacities of Urban Local Bodies (ULBs) in planning and implementing decentralized and inclusive wastewater treatment and reuse systems.

OBJECTIVES OF THE TRAINING PROGRAMME

The training programmes were designed to:

- Provide a comprehensive understanding of used water management in the urban context.
- Familiarize participants with SBM 2.0 objectives related to wastewater and faecal sludge management.
- Promote sustainable and decentralized treatment technologies suited to different city typologies.
- Share case studies and best practices from cities that have successfully implemented used water reuse initiatives.
- Encourage interdepartmental coordination and citizen awareness for effective implementation.

TRAINING PROGRAMME HIGHLIGHTS

The sessions covered the following key areas:

- Overview of SBM 2.0 Provisions: Focus on wastewater treatment and reuse targets.
- Types of Used Water: Understanding

List of Trainings

Date	No of Participants
05-May-25	98
06-May-25	90
16-May-25	70

greywater, blackwater, and stormwater.

- Decentralized Wastewater Treatment Systems (DEWATS): Planning, operation, and benefits.
- Faecal Sludge and Septage Management (FSSM): Guidelines, technologies, and O&M practices.
- Reuse of Treated Wastewater: For horticulture, flushing, construction, and industrial purposes.
- Policy and Regulatory Framework: Compliance, monitoring, and funding provisions.
- Best Practices and Case Studies: City-level models and innovative interventions.
- Community Engagement and IEC: Strategies to raise awareness and ensure public participation.

PARTICIPANTS

The three sessions saw active participation from municipal engineers, executive officers, sanitary inspectors, environment officers, and town planners from various ULBs across states, reaffirming the commitment to strengthening urban sanitation and water reuse systems. A total of 258 participants attended the training programmes

Design Basis – Key Parameters

5. Peak Flow and Peak Factors

- Sewer flow is **not uniform** throughout the day—there are peak times (usually morning and evening).
- Peak factor** is applied to average flow to estimate the maximum flow that the system must handle.
- CPHEED recommends using the formula:

$$\text{Peak Factor} = 1 + \frac{14}{4 + \sqrt{P}}$$

This accounts for:

- Diurnal variation in sewage generation
- Ensuring pipe sizes avoid overflow even during peak usage

TRAINING PROGRAMME ON USED WATER MANAGEMENT

Chat window showing messages:

- 12345678 to Everyone 2:05 PM
- RAVIKANT_CITY MANAGER GOGRI JAMALPUR
- Samsung SM-X210B to Everyone 2:06 PM
- Rabindra Kumar Prabhakar JE Sugauli Nagar panchayat Motihari east champran

CONTENT OF ENVIRONMENTAL HEALTH

The diagram illustrates the interaction between three main areas:

- Natural Environment:** Includes Air, Soil, and Water.
- Environmental Services:** Includes Air pollution control, Solid waste management, Water supply, Sanitation, Stormwater drainage, and Building regulation.
- Built Environment:** Includes Food management, Trade centres, and Air quality.

Components of Sewerage System

A typical sewerage system includes several key components:

- House service connections connect individual premises to the public network.
- Lateral sewers run along streets and collect wastewater from multiple houses.
- Branch sewers carry wastewater from lateral lines to the main trunk sewers.
- Trunk or main sewers are large pipes that carry sewage to treatment plants.
- Manholes allow for inspection, cleaning, and maintenance of the sewers.
- Pumping stations may be required in areas where gravity flow is insufficient.
- Treatment plants ensure that wastewater is treated before it is discharged.

ORIENTATION TRAINING PROGRAMME FOR MUNICIPAL OFFICIALS OF UTTARAKHAND UNDER AMRUT 2.0

BACKGROUND

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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.
- 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:

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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 15 Municipal Officials including Additional Director, Deputy Director, Executive Officer, Junior Engineer from Uttarakhand participated in the training programme.



ONLINE PUBLIC TRANSPORT SYSTEMS - CHOOSING THE SUITABLE MODE FOR A CITY MOBILITY

BACKGROUND

Public transportation plays a crucial role in urban development, sustainability, and economic growth by offering efficient, affordable, and eco-friendly mobility solutions. With increasing challenges such as congestion, pollution, and rising fuel costs, well-planned public transit systems have become essential. To address these issues, the Regional Centre for Urban and Environmental Studies (RCUES), Lucknow, under the auspices of the Ministry of Urban Development, Government of India, organized an Online Training Programme on Public Transport Systems – Choosing the Suitable Mode for a City Mobility on 8th May 2025.

OBJECTIVES OF THE TRAINING PROGRAMME

- To highlight the importance of public transportation in urban development, sustainability, and economic growth.
- To explore various transit systems, technologies, and emerging smart mobility solutions.
- To discuss accessibility, equity, and the role of public transport in enhancing social inclusion.
- To learn from global best practices and evaluate the effectiveness of different transport systems.

TRAINING PROGRAMME HIGHLIGHTS

- Two interactive modules were conducted:

Module I: Public Transport Systems

Module II: Choosing the Suitable Mode for a City Mobility

- Topics covered included mass transit systems (buses, trains, metros), smart mobility, funding models, and integration of sustainable practices.
- The sessions emphasized practical approaches for municipal officials, engineers, urban planners, and infrastructure experts to design effective transport strategies.
- Case studies and examples from successful global and national public transport systems enriched the learning experience.

PARTICIPANTS

A total of **76 participants** attended the training,

including engineers engaged in transport projects, state officials, metro and smart city representatives, PWD and cantonment board officials, municipal officers, urban planners, traffic engineers, and town planning officers from TCPO departments.



Urbanization, More cars & other vehicles, pollution, congestion, infrastructure development



Mono Rail

Development

- A single rail serves as a track for vehicles.
- Monorail can also run at grade, below grade or in subway tunnel.

Advantages of Mono Rail

- Requires minimal space: horizontal & vertical - Requires minimal foot-print for support pillars.
- Physically not capable of de-railing.
- Capable of climbing and descending steeper grades.
- Quieter Operation.

Disadvantages of Mono Rail

- Requires dedicated track, cannot be directly integrated with other rail systems or roads.
- Stations require special arrangement: hard to access.
- Higher cost per passenger per Kilo meter.
- Emergency exit difficult.

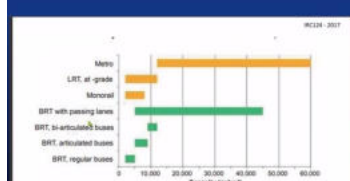
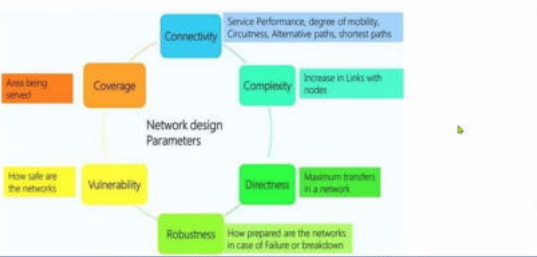


One-Day Online Training on Urban Transport "Public transport Systems"

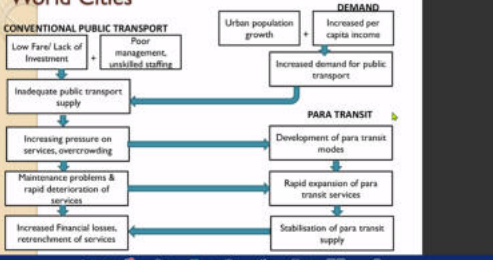
HIMANSHU CHANDRA
Assistant Director

Organized by
Regional Centre for Urban & Environmental Studies (RCUES), Lucknow

NETWORK DESIGN PARAMETERS



Development of Para Transit in Third World Cities



Trolley Bus

- is an electric bus powered by two overhead wires, from which it draws electricity; use rubber tires.
- Advantage of Trolley Bus**
- Environmentally friendly as it runs on electricity
 - More efficiency in running the buses as it runs on electricity
 - They are almost silent, lacking the noise of diesel engine or wheels of mono rail
 - They can easily climb at any gradient & are best suited in hilly terrains.
- Disadvantage of Trolley Bus**
- criticized for aesthetics reasons, the jumble of overhead wires is unightly
 - Always there is a threat of de-wirements which can hamper the bus service.
 - Though it is very rare but regular maintenance of the same is essential.



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

BACKGROUND

The Regional Centre for Urban and Environmental Studies (RCUES), Lucknow has been actively engaged in building capacities of Urban Local Bodies (ULBs) under the Swachh Bharat Mission (SBM) 2.0. With the renewed focus of SBM 2.0 on sustainable sanitation, solid waste management, and inclusive urban development, the role of elected representatives has become more vital than ever. In alignment with the mission's objectives, RCUES Lucknow organized three Orientation Training Programmes during Quarter 1 (April–June 2025) for elected representatives from ULBs across Uttar Pradesh.

OBJECTIVES OF THE TRAINING PROGRAMME

- To familiarize elected representatives with the provisions, goals, and revised guidelines under SBM 2.0.
- To enhance understanding of critical urban sanitation components including solid and liquid waste management, FSSM, and legacy waste handling.
- To promote participatory planning and community engagement in urban sanitation efforts.
- To encourage effective leadership in the implementation of SBM initiatives at the city level.
- To share best practices and facilitate peer learning among elected representatives.

TRAINING PROGRAMME HIGHLIGHTS

- Each training programme comprised focused sessions on the following key thematic areas:
- Overview of SBM 2.0: Mission components, policy framework, and expected outcomes.
- Solid Waste Management (SWM): Rules, door-to-door collection, segregation at source, and scientific disposal.
- Fecal Sludge and Septage Management

List of Trainings		
Date	No of Participants	Coordinator
19-20 May, 2025	20	Dr. Rajeev Narayan
22-23 May, 2025	15	Dr. Nasruddin
12-13 June, 2025	15	Mr. Himanshu Chandra

(FSSM): Decentralized solutions and compliance requirements.

- Used Water Management: Greywater reuse and urban water recycling initiatives.
- Material Recovery Facility (MRF): Its functioning, financial viability, and role in reducing landfill dependency.
- Legacy Waste and Plastic Waste Management: Strategies and innovations for sustainable clean-up.
- Garbage Free Cities: Indicators and roadmap for achieving GFC status.
- Community Participation and IEC: Strengthening public awareness, behavior change, and citizen engagement.
- PPP Model Implementation: Leveraging private sector efficiencies for mission execution.
- Open Dialogue: Field-level experiences, implementation bottlenecks, and solution sharing.

PARTICIPANTS

A total of 50 elected representatives from various Urban Local Bodies of Uttar Pradesh attended the training across the three batches. The interactive sessions enabled them to gain clarity on their role as enablers of sustainable sanitation in their respective cities and towns.



COLLOQUIUM ON COMBATING PLASTIC WASTE ON THE OCCASION OF WORLD ENVIRONMENT DAY

BACKGROUND

To mark **World Environment Day 2025**, the Regional Centre for Urban and Environmental Studies (RCUES), Lucknow, under the aegis of the Ministry of Housing and Urban Affairs, Government of India, organized a one-day colloquium on the theme “**Combating Plastic Waste.**” The programme was conceived as a platform for sharing insights, innovations, and practical solutions to address the growing challenge of plastic pollution in urban areas.

OBJECTIVES OF THE TRAINING PROGRAMME

- To raise awareness among ULB officials about the environmental and health hazards posed by plastic waste.
- To introduce innovative scientific and community-driven approaches for plastic waste reduction and management.
- To share successful case studies and best practices from Urban Local Bodies (ULBs).
- To foster collaboration among policymakers, scientists, engineers, and practitioners for sustainable urban waste solutions.

TRAINING PROGRAMME HIGHLIGHTS

- **Dr. Alka Singh**, Joint Director, RCUES Lucknow, delivered the inaugural address highlighting the key challenges in plastic waste management and later provided strategic insights in the valedictory session.
- **Dr. Rachana Kumar**, Principal Scientist, CSIR-IITR, Lucknow, presented research-based approaches and technological innovations for effective plastic waste management.

- **Ms. Radhika Mishra**, Chief Innovation Officer and Co-founder, Sparkliv, spoke on the importance of individual actions and behavioral change in combating plastic pollution.
- **Mr. Himanshu Chandra**, Assistant Director, RCUES Lucknow, showcased best practices and successful interventions by ULBs across Uttar Pradesh.
- The event encouraged interactive discussion, peer learning, and experience-sharing among the participants.

PARTICIPANTS

29 officials participated, including: Joint Municipal Commissioner, Assistant Municipal Commissioner, Executive Officer, Assistant Engineer, Consultant, Junior Engineer, Revenue Inspector, Sanitary & Food Inspector, Tax Assessment Officer, and Zonal Sanitary Officer.

COORDINATOR

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



INTEGRATED CAPACITY BUILDING PROGRAMME FOR MUNICIPAL OFFICIALS OF MADHYA PRADESH

BACKGROUND

Urban Local Bodies (ULBs) play a vital role in delivering essential services and promoting sustainable development in Indian cities. With growing urban complexities—ranging from infrastructure development and environmental sustainability to citizen participation and financial management—there is an urgent need to strengthen the capacities of municipal functionaries.

To address this, the Ministry of Housing and Urban Affairs (MoHUA), Government of India, developed an Integrated Capacity Building Framework to equip urban administrators and elected representatives with practical tools and policy understanding. Under this framework, the Directorate of Urban Administration and Development (UADD), Madhya Pradesh, in collaboration with Sunderlal Patwa National Institute of Urban Management and RCUES Lucknow, organized a three-day residential training programme and exposure visit at the State Institute of Urban Development (SIUD), Mysuru.

OBJECTIVES OF THE TRAINING PROGRAMME

- Enhance understanding of urban governance and legal frameworks.
- Build knowledge of financial management, project planning, and PPPs.
- Promote participatory planning and community engagement.
- Equip officials with tools for revenue mobilization and infrastructure reforms.
- Introduce intra-city decentralization concepts like ward committees and area sabhas.
- Address sustainable sanitation through integrated wastewater and septage

management.

- Encourage work-life balance, goal setting, and peer learning.

TRAINING PROGRAMME HIGHLIGHTS

- Urban governance principles and the 74th Constitutional Amendment
- Municipal finance and infrastructure project management
- Property tax reforms and digital governance (Mysuru case study)
- Participatory budgeting and community-based planning
- Public-Private Partnership (PPP) models
- Integrated wastewater and septage management
- Work-life balance and visualization-based goal setting
- **Field Visit:** Participants visited Mysuru Municipal Corporation to witness on-ground implementation of digital tax reforms, sanitation practices, and citizen service models.
- **Methodologies Used:** Expert lectures, case studies, interactive discussions, group work, and exposure visits

PARTICIPANTS

A total of **24 municipal officials** from various Urban Local Bodies of Madhya Pradesh participated in the programme. The participant profile ranged from officials with 1 year to over 30 years of experience, representing diverse roles and responsibilities within their respective ULBs. The training facilitated peer learning and exchange of experiences, contributing to a collaborative

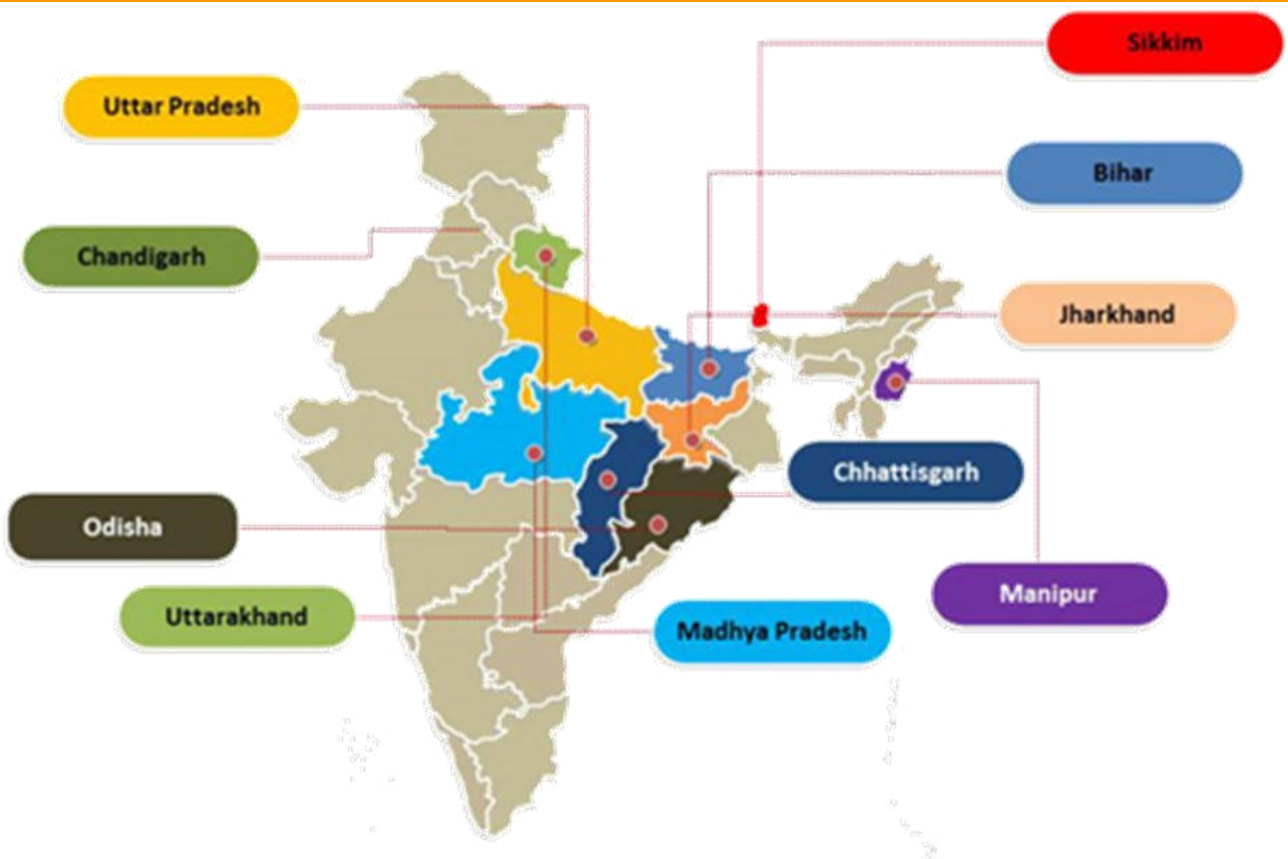
understanding of best practices in urban governance.



Upcoming Campus of RCUES at Indira Nagar, Lucknow



OUR REACH



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क्षेत्रीय नगर एवं पर्यावरण अध्ययन केन्द्र, लखनऊ

(आवासन एवं शहरी कार्य मंत्रालय, भारत सरकार)

लखनऊ विश्वविद्यालय परिसर, कुलसचिव कार्यालय के
समीप, लखनऊ २२००७

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