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## AREAS OF INTEREST

**Urban Sector:** Urban Infrastructure Planning (Wat-San), Transport Planning, Urban Services, Infrastructure Management & Project Planning, Climate Change & Approach of Resiliency

## ACADEMIC QUALIFICATIONS

<b>PhD</b> (April - 2024)	Department of Urban & Regional Planning, SPA Bhopal (Thesis Title - Service Delivery Performance for Urban Sanitation in India: A Framework Analysis)
<b>M. Plan: Infrastructure Planning</b> (2007-2009)	Faculty of Planning and Public Policy, CEPT University, Ahmedabad First Class with 67%
<b>B.E. : Civil Engineering</b> (1999 –2003)	Madhav Institute of Technology and Science, Gwalior (R.G.P.V. University Bhopal), First Class with 69%

## PROFESSIONAL EXPERIENCE (More than 15 Yrs post Master's & 3 Yrs post Bachelor's)

### From November, 2013 – Till Date

Organization	School of Planning & Architecture, Bhopal
Designation	Assistant Professor
Department	Urban & Regional Planning
Responsibility Areas	<ol style="list-style-type: none"> <li><b>Teaching</b> Master's of Planing (URP, EP, TPLM) and Bachelor of Planning students (Partially taught M. Arch and B. Arch students also)</li> <li>Additionally working as <b>Associate Dean</b> (Planning &amp; Development) – Estate &amp; Security department under Dean P&amp;D Office</li> <li>Infrastructure Expert in various <b>Consultancy</b> Projects</li> <li><b>Faculty In-charge</b> of Institute's Surveying Lab, Member of Institute Website Committee &amp; Institute Maintenance Committ.</li> <li>Performed various <b>administrative responsibilities</b> of institute time to time; as Faculty Coordinator for Time-Table, Training &amp; Placements, Sports, NOSPlan, Store Purchase etc. &amp; Former Member of Inspection Committee for Construction Works</li> <li>Worked as Team member for development of <b>new course</b> (TPLM), <b>syllabus revision</b> (B. Plan and M. Plan – URP) with focusing on Outcome based learning approach and latest trends</li> <li>Worked for Institute <b>Annual Report</b> (2 years) and <b>NIRF Ranking</b></li> <li>Active member of teams, in organising various convocation ceremonies, conferences, seminars, workshops etc.</li> <li>Worked for Master's <b>admission process</b> (M. Plan) for 5 yrs</li> <li>Took <b>Training Sessions</b> in various state level organizations</li> <li>Worked in interdenartmental &amp; interdiscinlinarv academic exercises</li> </ol>

From April, 2011 – October, 2013

Organization	Gandhinagar Urban Development Authority (GUDA), Gandhinagar
Designation	Urban Planner
Responsibility Areas	<ol style="list-style-type: none"><li>1. Working on <b>Revision of Development Plan</b> of Gandhinagar Urban Development Authority as Junior Project Coordinator</li><li>2. Working on <b>Town Planning Schemes</b> of GUDA (includes Planning, Designing &amp; Implementation), at same time also scrutinized existing Draft Town Planning Schemes</li><li>3. <b>Project Planning work</b> for various <b>Urban Infrastructure</b> Projects of GUDA, i.e. Water Supply, Drainage, Solid Waste Management projects, Swarnim Sanskrutik Kendra and Lake development, other small support &amp; social infrastructure projects</li><li>4. Project Planning for <b>Affordable Housing Project</b> of GUDA and assisted in Policy making of affordable/ LIG housing Schemes</li><li>5. Worked on <b>Clean, Green &amp; Solar Gandhinagar Master Plan</b> and Integrated Mobility Plan of Ahmedabad-Gandhinagar with coordination of other Govt. organizations</li><li>6. <b>Prepared bid documents</b> for empanelment of agencies intended for Architectural &amp; Structural designing consultancy, Project Management Consultancy (PMC) services and Third Party Inspection (TPI) services for basic infrastructure projects of GUDA</li><li>7. Assisted in implementation of Nirmal Gujarat Mission projects of GUDA (Pay &amp; Use Toilets and Mobile Toilets scheme)</li><li>8. Performing day to day communication and correspondences with various Govt. agencies and private agencies</li><li>9. Coordination of Development Plan Scrutiny Committee, SEWS Housing Policy Committee, Technical Committee, Tender Committee and Project Implementation Committee of GUDA</li></ol>

From June, 2009 – March, 2011

Organization	Gujarat Urban Development Mission (GUDM), Gandhinagar
Designation	Deputy Manager (Planning)
Responsibility Areas	<ol style="list-style-type: none"><li>1. Financial &amp; operational management of <b>JnNURM</b> projects under Urban Infrastructure &amp; Governance, Basic Services to Urban Poor, UIDSSMT and IHSDP Schemes.</li><li>2. Project management for <b>Swarnim Jayanti Mukhya Mantri Shahari Vikas Yojana</b> (SJMMSVY).</li><li>3. Scrutiny &amp; review of <b>City Development Plans</b> (CDPs) of 34 towns of Gujarat</li><li>4. <b>Technical &amp; Financial Evaluation</b> of <b>DPRs</b> of water supply &amp; drainage projects</li><li>5. Assessment of <b>Urban Reforms</b> under JnNURM &amp; SJMMSVY and providing assistance for implementation to ULBs.</li><li>6. Worked for CDP &amp; DPRs of Sanand Satellite Township Project and prepared appraisal note for Porbandar CDP</li></ol>

7. Identification & feasibility analysis of **PPP** in urban infrastructure projects of urban local bodies (ULBs)
8. Providing technical support and encouragement to ULBs for the evaluation of **Service Level Benchmarking** under 13<sup>th</sup> finance commission grants for utilities & services.
9. Organizing workshops and **capacity building programs** for project implementation and financial management at state and ULB Level, communication and correspondence with Govt. of India, Govt. of Gujarat, other State Govt's and other organizations.

From June, 2004 – June, 2007

Organization	Jain Consultants, Gwalior
Designation	Asst. Consultant Engineer
Responsibility Areas	<b>Valuation</b> of properties (valuation of some heritage buildings to convert them in hotels), <b>estimation and designing</b> of buildings and industries (estimation for Small Scale Industry (SSI) projects in Gwalior region), <b>site surveys</b> and <b>liaisoning</b> with clients.

#### **PUBLICATIONS & CONFERENCES**

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1. Published a research paper in Journal 'Nagarlok' (UGC Care List Group-I), ISBN: 0027-7584; with title, 'Performance Assessment of Urban Sanitation Services: An Alternate Perspective' in Vol. 55 (4), 96-119 Oct-Dec. 2023 @ 2023 IIPA, New Delhi
2. Co-authored a book chapter, "A roadmap of Mobility as a Service for Mumbai" for a book titled as, "Smart Global Megacities" published by Springer Nature Singapore Pvt. Ltd. @ 2021, ISBN: 978-981-16-2022-5.
3. Co-authored a book chapter, "Smart Living for Bhopal" for a book titled as, "Smart Living for Smart Cities" published by Springer Nature Singapore Pvt. Ltd. @ 2020, ISBN: 978-981-15-4602-0.
4. Co-authored a book chapter, "Towards a Smart Metropolitan Region: A Roadmap for Transforming Bangalore Metropolitan Region" for a book titled as, "Smart Metropolitan Regional Development: Economic and Spatial Design Strategies" published by Springer Nature Singapore Pvt. Ltd. @ 2019, ISBN: 978-981-10-8587-1.
5. Presented and published a research paper, "Analyzing the Service Delivery Performance for Urban Sanitation in India" in the 10th International Water Association (IWA) Efficient Conference held in Manila, Philippines @ 2019, IWA Publishing ISBN: 978-178-90-6053-9.
6. Published a research paper "Mapping Urban Green Spaces to identify the potential area for Neighbourhood Greening with Application of Urban Neighbourhood Green Index" published in "SPANDREL Journal" of SPA Bhopal @ 2017, ISSN: 2231-4601 (Issue-12).
7. Presented and published a research paper, "Sustainable Appraisal System for Green Buildings" in the National Conference organized by Climate Change Research Institute, New Delhi in association with MITS, Gwalior on "Green Buildings for Sustainable Development" held in MITS, Gwalior, India @ 2015.

## **RESEARCH PROJECTS**

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1. Working as Principal Investigator in a research project title, 'Performance Assessment Framework of Resilient Water Infrastructure in Tier-II cities of Madhya Pradesh', sponsored by Center for Urban Planning & Capacity Building, SPA Bhopal under AMRUT 2.0 Grant of MoHUA, Govt. of India (2025).
2. Worked as Infrastructure Expert in research project title, 'Model Village Development Plan for Bilkisganj and Murvasa Villages of Madhya Pradesh', sponsored by Center for Panchayati Raj and Rural Development, SPA Bhopal under the Grant of MoPR, Govt. of India (2025).
3. Worked as Principal Investigator on research project title, 'Special Area Development Plan for Kartavya Path Precinct', sponsored by Center for Urban Planning & Capacity Building, SPA Bhopal under AMRUT 2.0 Grant of MoHUA, Govt. of India (2024).
4. Worked as Project Co-Director on 'Impress Research Project' sponsored by ICSSR, Ministry of Education, Govt. of India in the research area of 'Urban Sanitation Services' (2019-2021).

## **CONSULTANCY PROJECTS**

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1. Working as Principal Investigator on project title, 'GIS Based Master Plan for Cluster-2 Towns of Uttarakhand', sponsored by Town and Country Planning Department of Govt. of Uttarakhand (2024-25).
2. Working as Infrastructure Expert on project title, 'GIS Based Master Plan for Gairsain Town – Summer Capital of Uttarakhand', sponsored by Town and Country Planning Department of Govt. of Uttarakhand (2024-25).
3. Working as Infrastructure Expert on project title, 'Local Area Plan along the Metro Rail Corridor in Bhopal and Indore', sponsored by Urban Development and Urban Administration Department of Govt. of Madhya Pradesh (2022-25).
4. Worked as Infrastructure Expert in the preparation of 'Development Plan for Sagar Cantonment Board Area', Madhya Pradesh (2018-2020).
5. Worked as Infrastructure Expert in the preparation of 'Integrated Cluster Action Plan' (ICAP) Project for Six Village Clusters of Madhya Pradesh (2016-2018).
6. Worked as Infrastructure Expert in 'Heritage Impact Assessment (HIA) Project of Water Supply and Sewerage Schemes for Sanchi Town of Madhya Pradesh' (2022 & 2024), funded by Madhya Pradesh Urban Development Company (MPUDC) and Asian Development Bank (ADB).
7. Worked as Infrastructure Expert in 'Heritage Impact Assessment (HIA) Project of Water Supply Scheme for Baihar, Antri and Nemawar Towns of Madhya Pradesh' (2020-22), funded by MPUDC and ADB.
8. Worked as Co- Principal Investigator and Infrastructure Expert in 'Heritage Impact Assessment (HIA) Project of Water Supply Scheme for Bhedaghat, Panager and Hatta Towns of Madhya Pradesh' (2023-24), funded by MPUDC and ADB.
6. Worked as Co- Principal Investigator and Infrastructure Expert in 'Heritage Impact Assessment (HIA) Project of Water Supply and Sewerage Schemes for Khajuraho Town of Madhya Pradesh' (2023-24), funded by MPUDC and ADB.
7. Worked as Infrastructure Planner in 'Heritage Impact Assessment (HIA) Project of Water Supply Scheme for Mandav Town of Madhya Pradesh' (2019), funded by MPUDC and ADB.
8. Worked as Infrastructure Planner in 'Heritage Impact Assessment (HIA) Project of Water Supply Scheme for Rahetgarh Town of Madhya Pradesh' (2019), funded by MPUDC and ADB.
9. Worked for "Service Delivery Improvement Plan" project for 16 Urban Local Bodies of Madhya Pradesh (2017)
10. Also prepared RFP documents for few Potential and ongoing projects of SPA Bhopal.

## **DISSERTATIONS SUPERVISED** (Mentored nearly 40 students till date)

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- Transit Oriented Development along the Metro Rail Corridor: A case of Lucknow Metro
- Approach towards Water Supply Infrastructure based Density Distribution: A case of Bhopal
- Planning for Integrated Municipal Wastewater Management System: A case of Indore
- Location and Service level Aspects in Urban Social Amenities: Case of Public Toilets Bhopal
- Planning for Integration of Pedestrian Movement Network with Multimodal Transit Hub – A case of Kmepegowda Area, Bengaluru
- Planning for Improvement of Municipal Water Supply System: A case of Varanasi
- Exploring Land Value Capture Mechanism for the Development of Support Infrastructure along the MRTS Corridor: A case of Jaipur
- Planning Interventions for Women Safety in Transit Corridor: A case of Hyderabad
- Planning for Financially Viable Decentralized Wastewater Management System for Gwalior City
- Improvement of Solid Waste Management Services Through Source Reduction Strategies: A case study of Ganga River Ghats - Varanasi City
- Planning for Efficient and Economic Port Bound Domestic Cargo Movement through Coastal Shipping: A case of Jawaharlal Nehru Port Trust, Navi Mumbai
- Strategies for Effective Implementation Of Infrastructure Scheme in Small & Medium Towns
- Accessibility Plan for Railway Station in Sub-urban Areas: A case of Chennai Metropolitan Area
- Assessment of Faecal Sludge and Septage Management (FSSM) for Guwahati City
- Planning for Complimentary Transport Infrastructure for Diverse Urban Forms: A case of Delhi
- Planning Strategies for Revitalization of the Industrial Area: A case of Malanpur-Banmor-Gwalior Industrial Area
- Mobility to Livelihood with a lens to Equity: A case of Ludhiana, Punjab
- Feasibility Study of Personal Rapid Transit: A case of Lucknow (Shreyali)
- Planning for Demand Responsive Bus Transit in Indian Context: A case of Patna (Sayeed)
- Assessment of Urban Water Security with System Diagnostic Approach: A case of Bhopal
- Heritage Conservation Strategies Through Urban Development Regulations: Kochi
- Assessment of Spatial and Environmental Impact of Port Development- Tuticorin Port
- Planning Strategies for Street Vending Activities: A case study of Mumbai
- Planning for Development of Community Based Eco-Tourism in Tamia, MP
- Planning to Conserve Environment Flow of River Ganga through Sewage Disposal Applications: A Case of Haridwar
- Industrial Effluent Management Strategies to Control the Surface Water Pollution - A case study of Hindon River (Ghaziabad City)
- Assessment Mechanism of Land Management in city of Jalgaon, Maharashtra
- Planning for Augmentation of Ridership in Rapid Metro Gurgaon
- Planning for Tourism in Orchha, MP
- Student Centric Area Circulation Plan: A case of Kota, Rajasthan
- Framework for Regulated Development in Fringe Area: A case of Bhopal

## **MEMBERSHIP OF PROFESSIONAL ASSOCIATIONS**

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1. Life Fellow Member of Gujarat Institute of Civil Engineers & Architects (GICEA)
2. Life Member of Ahmedabad City Managers Association (ACMA), Ahmedabad