

Curriculum - Vitae

1. **Name** Rama Umesh Pandey
2. **Designation** Professor, Environmental Planning Department
Head, Department of Landscape
Head, National Centre for Spatial Rural
Development Planning (NCSRDP)
3. **Department** Environmental Planning, School of Planning and
Architecture Bhopal
4. **Contact** ramapandey@spabhupal.ac.in,
rama.ukp@gmail.com,



5. **Qualifications:**

- Bachelors in architecture from Maulana Azad College of Technology (MACT), MANIT Bhopal in 1990 (**Gold Medalist**) with 82.0%
- Post Graduate Diploma (Equivalent to M.Tech) in Planning (Specialization in Environmental Planning) from School of Planning, Centre for Environmental Planning and Technology (CEPT), Ahmedabad in 1992 with 65.9%
- Ph.D. from Maulana Azad National Institute of Technology (MANIT) Bhopal on topic “Framework for Evaluating Livability Performance of Residential Built Environment: An Analytical Approach in Indian Context”, in 2014
- One Year Post Graduate Diploma in Environmental Law from National Law School of India University (NLSIU), Bengaluru, in 2022

6. **Key Capabilities:**

Areas of specialization: Climate Change Informed Settlement Planning; Mainstreaming Environmental Concerns in Spatial Planning; Socio-ecological and climate change resilience; and Livability of the residential built environment; Regional Development Spatial Planning

Roles: Academician, Researcher & Administrator with total professional, academic and research experience of more than 27 years.

Responsibilities in SPA Bhopal include:

Research:

- Head, National Centre for Spatial Rural Development Planning
- Conceptualizing and Planning of research and consultancy projects.
- Chairperson of Departmental Research Committee (DRC) of Environmental Planning since July 2020 to June 2023 and Landscape Department since March 2022
- Member of Doctoral Research Committee (January 2017 – January 2018) in PhD Programme of SPA Bhopal
- Member of Departmental Research Committees in Environmental planning Department and in Urban and Regional Planning, Landscape, and Conservation departments from August 2020- July2022

Academics:

- Senate member of SPA Bhopal since February 2019
- Coordinator, Master of Planning (Environmental Planning), June 2014 to December 2016 and February 2018 to June 2020 in SPA Bhopal.
- Coordinator, Master of Planning (Urban and Regional Planning), Jan 2017 to January 2018 in SPA Bhopal.
- Teaching and Syllabus developing.

- Chairperson/Co-chairperson/Member of Postgraduate (Environmental Planning & Urban and Regional Planning) admission committee since 2011

Administrative:

- Member of Board of Governors, SPA Bhopal since March 23, 2023
- Head of Landscape Department since March 2022
- Head of Environmental Planning Department from July 2020 to June 2023
- Girls' Hostel Superintendent and Warden (December 2012 to December 2018)
- Contributed as a member and chairperson of several committees of the Institute (Sports, Disciplinary, Anti-ragging, Institute Club, Annual report, Screening etc.)

7. Employment record

Total Academic, Research and Industry Experience: More than 27 years

Academic (Starting from present position)

- Professor, Level – 14 (as per 7th CPC), Department of Environmental Planning, SPA Bhopal from January 31, 2024, to till date
- Associate Professor, Level - 13 A1 (as per 7th CPC), Department of Environmental Planning, SPA Bhopal from February 11, 2020, to January 30, 2024.
- Assistant Professor (AGP Rs.8000/-), Department of Planning, SPA Bhopal from July 2013 to February 10, 2020.
- Assistant Professor (AGP Rs.7000/-), Department of Planning, SPA Bhopal from May 2011 to June 2013.
- Research Scholar in Department of Architecture and Planning, Maulana Azad National Institute of Technology, Bhopal, India, from January 2010 to April 2011
- Contract Faculty in Department of Architecture and Planning, Maulana Azad National Institute of Technology, Bhopal, India, from July 2009 to December 2009
- Contract Faculty in Interior Design Department, Premilila Vithaldas Polytechnic, S.N.D.T. Women's University, Mumbai, India from July 2001 to July 2004
- Visiting Lecturer in Maulana Azad College of Technology, Department of Architecture, Regional Engineering College, Bhopal, India from August 1992 to February 1993
- Visiting Lecturer in Town Planning and Architecture department, S.V. Polytechnic, Bhopal, India, Bhopal, India from July 1993 to November 1993

Profession / Industry

- As Head (In-charge), Design Department, with AAA Homes, a multicultural organization based at Kingdom of Bahrain, engaged in Construction, Property Development, Interior Decoration, Landscaping, and allied services. from July 2005 – June 2008
- As Architect/ Planner with Amogh Kumar Gupta, Architect, Valuer and Planner, one of the leading Architect Planner of Bhopal, India from July 2008 – June 2009 and August 1999 to May 2001
- As Architect/ Planner with Manoj Misra and Associates, Bhopal, India, one of the leading architects' offices in Bhopal from August 1997 to July 1999 and March 1992 to February 1994

8. Publications

List of Publications

- M P, G., Pandey, R. U., & Kumar, P. (2024). A framework for implementation of environmental flow requirements through community perceptions – the case of Bargi Dam, Jabalpur District, Madhya Pradesh. Hydrological Sciences Journal. doi:<https://doi.org/10.1080/02626667.2024.2434139>
- Manisha, K., Pandey, R.U. (2024). Developmental Regulations to Conserve Catchment Area of an Urban Water Body: A Case of Upper Lake in the City of Bhopal, Madhya Pradesh, India. In: Nandineni, R.D., Ang, S., Mohd Nawawi, N.B. (eds) Sustainable Resilient Built Environments. SRBE 2022. Advances in 21st Century

Human Settlements. Springer, Singapore. https://doi.org/10.1007/978-981-99-8811-2_2

- Gangwar, D., & Pandey, R. U. (2024). Assessing human health risks associated to water stress- A local approach in the Indian context. Routledge. <https://www.taylorfrancis.com/chapters/edit/10.4324/9781003437833-8/assessing-human-health-risks-associated-water-stress-druti-gangwar-rama-pandey>
- Rahate, P., Pandey, R.U., & Saha, K. (2023). Adapting Remote Sensing Technique to Study the Changes in the Spatial Cover and the Urban Temperatures – A Case Study of Indore City, Madhya Pradesh. *Nagarlok Journal*, 55(3), 54-64. DOI: <https://doi.org/10.32381/NL.2023.55.03.4>
- Sridharan, N., Pandey, R. U., & Berger, T. (2023). Co-production through tacit knowledge for water resilience. *Land Use Policy*, 126, 1-14. doi:<https://doi.org/10.1016/j.landusepol.2022.106446>
- Berger, T., Chundeli, F. A., Pandey, R. U., Jain, M., Tarafdar, A. K., & Ramamurthy, A. (2022). Low-income residents' strategies to cope with urban heat. *Land Use Policy*, 119. doi:<https://doi.org/10.1016/j.landusepol.2022.106192>
- Pandey R.U., Mitra T., Wadwekar M., Nigam J., Trivedi K. (2021) Green Infrastructure as a Tool for Improving Livability of Area Based Development Projects Under Smart City Mission. In: Sharma P. (eds) *Geospatial Technology and Smart Cities. The Urban Book Series*. Springer, Cham. https://doi.org/10.1007/978-3-030-71945-6_25
- Jayaraj, P., & Pandey, R. U. (2021). Investigating SES variables causing changes in sense of place in the context of coastal wetland conservation - A case of Pulicat lagoon. *Current Research in Environmental Sustainability*, 3. doi: <https://doi.org/10.1016/j.crsust.2021.100061>
- Wadwekar M., Pandey R. (2021) Assessing Groundwater Recharge Potential Through Rainwater Harvesting in Urban Environment: A Case of Bhopal City. In: Pandey A., Mishra S., Kansal M., Singh R., Singh V. (eds) *Water Management and Water Governance. Water Science and Technology Library*, vol 96. Springer, Cham. https://doi.org/10.1007/978-3-030-58051-3_31
- Pandey R.U., Muralee S.N.S., Sah J. (2020) Biodiversity, Ecosystem-Health and their Relation with Pandemic. In: Indian Institute of Technology, National Institute of Disaster Management (eds) *Integrated Risk of Pandemic: Covid-19 Impacts, Resilience and Recommendations. Disaster Resilience and Green Growth*. Springer, Singapore. http://doi-org-443.webvpn.fjmu.edu.cn/10.1007/978-981-15-7679-9_3
- Tewari, S., Sridharan, N., Pandey, R. U., Wadwekar, A. (2020). Community, Craft and Culture: Learning Resilience from the Ziro Valley. <https://www.breucom.eu/mod/page/view.php?id=737>
- Pandey, R. U., Surjan, A., & Kapshe, M. (2018). Exploring Linkages between Sustainable Consumption and Prevailing Green Practices in Reuse and Recycling of Household Waste: Case of Bhopal City in India. *Journal of Cleaner Production*, 173, 49-59. doi:<http://dx.doi.org/10.1016/j.jclepro.2017.03.227>
- Jayaraj, P., & Pandey, R. U. (2017). Exploring Linkages between Regenerative Capacity of Coastal Ecosystem and Sustainable Livelihood- A New Insight. *International Journal of Emerging Technologies*, 8, 53-58.
- Manisha, K., & Pandey, R. U. (2017). Catchment Area Assessment of Upper Lake Bhopal using Geospatial Technologies. *SPANDREL*, 12, 54-70.
- Pandey, R. U., & Garg, Y. K. (2016). Evaluating Livability Performance of Residential Built Environment: A step towards making a Smart City. *SPANDREL*, 11, 39-51.
- Pandey, R. U., Garg, Y. K., & Bharat, A. (2014). Understanding Dependency of Livability on Socio-Economic and Demographic parameters. *International Journal of Humanities and Social Sciences*, 3(1), 61-68.
- Pandey, R. U., Garg, Y. K., & Bharat, A. (2014). Quantitative Approach for Understanding Perspectives on Livability in Indian Context. *International Journal on Emerging Technologies*, 5(1), 1-7.
- Pandey, R. U., Garg, Y. K., & Bharat, A. (2013). Understanding Qualitative Conceptions of Livability: An Indian Perspective. *International Journal of Research in Engineering and Technology*, 2(12), 374-380.
- Pandey, R. U., Garg, Y. K., & Bharat, A. (2013). Livability Perception in Residential Areas of India: Comparative analysis of Planners and Inhabitants Outlook. *ITPI Journal*, 10(2), 35-43.

- Pandey, R. U., & Garg, Y. K. (2012). Understanding Quality of Life through Livability in an Indian City. ITPI Journal, 9(1), 54-64.
- Pandey, R. U., Garg, Y. K., & Bharat, A. (2010). A Framework for Evaluating Residential Built Environment Performance for Livability. ITPI Journal, 7(4), 12-20.

List of Publications in Conference Proceedings

- “Analyzing impact of Socio-Economic and Demographic Factors on Livability Perception”, 62nd National Town and Country Planners Congress, Page No. 236-243, Jan -2014, along with Dr. Yogesh K Garg and Dr. Alka Bharat.
- “Necessity for Evaluating Livability in Residential Land Use for Sustainable Urban Development”, 59th National Town and Country Planners Congress, Jan -2011, Page No. 92-97, along with Dr. Yogesh K Garg and Dr. Alka Bharat.
- “Quantitative measurement for livability performance in upcoming cities of India” in BNCA International Conference on Healthy Cities: Perspective of Asian Concerns.3rd – 5th Feb 2011, Pune, Peer reviewed, Full length paper published in conference proceedings 2012, Page no.193-203 in comprehensive planning session ISBN 978-81-920642-2-2. Co-authored by Yogesh K Garg and Dr. Alka Bharat.

Invited Panelist/ Paper presentation /Chairing a Session in International Conferences

- Delivered a Lecture on ‘Infrastructure Resilience’ in a National Faculty Development Programme (FDP) on ‘Urban Infrastructure Resilience in the Context of Extreme Weather Events’ organized by the Department of Environmental Studies, University of Delhi in collaboration with the National Institute of Disaster Management conducted from September 9th to 13th, 2024, at the NIDM Rohini Campus in Delhi
- Invited Panelist for a Webinar on ‘Safeguarding Indian Cities from Climate Disasters: Enhanced Planning & Funding’ organized by pManifold Business Solutions Pvt. Ltd. on September 03, 2024.
- Participated in International Conference on Disaster Resilient Infrastructure (ICDRI) 2024 and the Fellowship Convening and Convocation for Cohort 2022-2023 held at Bharat Mandapam, New Delhi during April 23-April 25, 2024
- Conference Session Chair for a session on ‘Built Environment and Well-being’ at an International Conference on Rethinking Built Environment (INCORBE) 2024 organized by the Department of Planning & Architecture, Mizoram University, Aizawl, Mizoram, India on 6th -8th March 2024
- Invited as an expert to a consultative workshop on ‘Reimagining Urban Resilience and Urban Infrastructure Resilience in Higher Education’ held on May 05, 2023 at Indian Institute of Human Settlements (IIHS), Bengaluru
- Invited as a Distinguished Expert Delegate to participate in the ‘Resilience and Sustainability Summit: Vision 2047’ during 17-19 January 2023 at Vigyan Bhawan, New Delhi
- Invited as a panelist on the topic ‘Modelling-based approach for city -level climate action planning-challenges and way forward’ organized by WRI India, with support from Shakti Sustainable Energy Foundation as knowledge partner on 14 October 2022 at Hotel Marriott, Indore
- Invited in CDRI (Coalition of Disaster Resilient Infrastructure) Fellowship Convocation and DRI Technical Conference during 11-13 October 2022 in New Delhi
- Delivered two sessions on ‘Energy efficiency in Urban Planning and Design’ & ‘Low carbon development strategies’ in a two-day workshop cum training session at IIT Roorkee on the 19th and 20th of August 2022
- Expert Speaker of Plenary Session II on theme “Water Scarcity, Insecurity and Sustainability Challenges” held on 14 Dec 2021 at 10:00 AM (IST) in an International Conference on ‘Water, Food and Nutrition Security for Health and Wellbeing’ organized by Shaheed Bhagat Singh College, University of Delhi during December 13-14, 2021
- Invited as a panelist in Roundtable Discussion on ‘Climate Change and the City: Building Capacity for Urban Practitioners’ held on 26th October 2021 organized by UN-HABITAT
- Invited as a speaker for the sub-session on ‘Planning for Low-Carbon Climate Resilient Cities’ of session ‘Climate Actions and Cities’ on 16th September 2021 from

10am-2pm for WRI (World Resource Institute) Annual event Connect Karo 2021 organized virtually — from September 13th to 17th 2021 — with the theme of ‘Clean, Green and Just’.

- Presented BReUCom (Building Resilient Urban Community), an International Project in which SPA Bhopal was a part of the academic Consortium, in Erasmus+, CBHE (Capacity building in higher education) Virtual Fair - Training session on Inclusive City Building held on October 27, 2021 from 12:00 to 13:00 (Brussels time).
- Panelist speaker in a webinar on ‘Peri-Urban Ecosystem: The Silent Contributor in Building Urban Climate Resilience’, organized by CDKN and ICLEI on August 20, 2020
- Chaired a parallel session on ‘Environmental impacts on peri-urban areas and Mechanisms for citizen participation and inter-agency coordination’ in 2nd Asian Regional Conference on Peri-Urbanization (ARCP)’ during 8-10 November 2018 in University of Pusan, Busan, South Korea organized by Pusan National University, South Korea, Tongji University, China, and School of Planning and Architecture, Bhopal, India.
- As a panelist speaker in Session 3 on ‘Resilient Development Planning’ in “National Workshop on Climate Change and Disaster Resilience for Urban Children” organized by Gorakhpur Environmental Action Group (GEAG) in collaboration with School of Planning and Architecture, New Delhi, with the support of UNICEF, India on 22nd December 2017 in Hotel Eros, New Delhi.
- Invited presentation on “Exploring Linkages between Peri-Urban Ecosystem and Urban Resilience- A Case of Bhopal City”, at Regional Conference on Peri-Urban Ecosystem for Enhancing Urban Resilience organized by Gorakhpur Environmental Action Group from September 18-19, 2017, in New Delhi, India.

Papers presented in International Conferences

- Presented on ‘Water Resilience and Spatial Planning’ on January 19, 2022 in Parallel Session 4 focusing on ‘Disaster and Resilience-Water’ of an International Virtual Multi Stakeholder Conference titled ‘Transforming Peri-urban Futures’ held during 18-19 January 2022
- Presented a Paper titled ‘Co-Production Through Tacit Knowledge for Water Resilience’ in a Special Session 7: Building Resilient Urban Communities (BReUCom): Case Studies from India at IDRiM (International Society for Integrated Disaster Risk Management) Conference 2021 held during 22-24 September 2021
- Presented a paper titled ‘Assessing Impact of Urbanization on Peri-urban Ecosystems for Informed Decisions through cases of Indian Cities’ in 2nd Asian Regional Conference on Peri-Urbanization (ARCP)’ during 8-10 November 2018 in University of Pusan, Busan, South Korea organized by Pusan National University, South Korea, Tongji University, China, and School of Planning and Architecture, Bhopal, India.
- Presented a paper titled ‘Assessing Climate Change Impact on Cultural Ecosystem Services: A case of Riverine Ecosystem in Ujjain, India’, at the tenth International Conference on ‘Climate Change: Impacts and Responses’ organized by Common Ground Research Networks in University of California, Berkeley from 20th to 21st April 2018.
- Presented a paper titled “exploring linkages between sustainable consumption and prevailing green practices in reuse and recycling of waste: a case of Bhopal city in India”, at Global Cleaner Production and Sustainable Consumption Conference organized by Elsevier from November 1-4, 2015, in Sitges, Barcelona.
- Presented a paper on “Sound Material Cycle Society: A Case of Bhopal City” on 2nd December 2013 in an international workshop on Sustainable Cities: Generating Climate Co-Benefits in Urban Areas organized by School of Planning and Architecture, Bhopal, with United Nations University, Tokyo, Japan, Kyoto University, Japan and Asia Pacific Network for Global Change Research
- Presented a paper titled “Planning of Residential Areas: Dissonance in Perspective of Planners and Residents”, at Asia Pacific Network for Housing Research Conference 2013 held during 20-22 August 2013 in Kuala Lumpur, Malaysia with Dr. Yogesh K Garg
- Presented a paper on “SMC Vision and Project progress status in India” on 24th September 2011 in an international workshop on Sustainable Futures: A Vision for Bhopal organized by School of Planning and Architecture, Bhopal, with United Nations

University, Tokyo, Japan, and Asia Pacific Network for Global Change Research International Journal on Emerging Technologies.

9. Research and Consultancy

Research

- Principal Investigator of the ongoing Project 'Enhanced Gram Panchayat Spatial Development Plan (GPSDP) for Bilkisganj Gram Panchayat' by Ministry of Panchayati Raj (MOPR) and funded by the Institute.
- Lead Member from SPA Bhopal, one of the seven institute from India in the collaborative International Project 'Climate-Resilient, Secure and Healthy Environments (CREST), funded under Collaborative Grant of Going Global Partnership by British Council from December 2021 to December 2022.
- Part of a team of an International Project BReUCom (Building Resilient Urban Communities) funded under the EU Erasmus+ Program in the field of Capacity Building in Higher Education with partners from Austria, Netherlands, and India. SPA Bhopal is an active part of the academic consortium, and the leader of the Case Studies Work Package (WP2). Project duration was from January 2019 to January 2022.
- Part of a team for a project 'Gram Panchayat Spatial Development Plan- Bilkisganj and Murwas Village, Madhya Pradesh' undertaken by SPA Bhopal for the Ministry of Panchayat Raj (MOPR), Government of India from June 2020 to December 2020.
- Part of a team working on project of MHRD, Government of India under Design Innovations Center (DIC) with a thrust on "Shelter for All" since December 2015.
- Leading member of core research team of APN Funded UNU-ISP multinational research project "Advancing Locally Based Green Practices to realize establishment of Sound Material Cycle Society in Asian Cities" from June 2011- February 2014.

Consultancy

- Principal Investigator for an ongoing project 'Preparation of Regional Plan – Coimbatore and Nilgiris Regional Plan-2047' for Directorate of Town and Country Planning (DTCP), Housing and Urban Development department, Government of Tamil Nadu
- Deputy Team Leader of the ongoing project 'Preparation of Thanjavur Regional Plan-2047' for Directorate of Town and Country Planning (DTCP), Housing and Urban Development department, Government of Tamil Nadu
- Part of a team of the Institute Project for reviewing ABD proposal of Bhopal Smart City Development Corporation Limited (BSCDCL) during September 2020- December 2020.
- Principal Investigator of consultancy project) funded by Madhya Pradesh Clean Development Mechanism Agency on "Environmental Planning for Climate Informed Smart Cities of Madhya Pradesh" awarded in December 2016.
- Part of a team for a consultancy project of HSMI, HUDCO on "A Study to develop appropriate Housing Design Alternatives for the Geo – Climatic Region covering the States of Madhya Pradesh, Chhattisgarh and Inland Maharashtra" since October 2016.
- Part of a team as an Environmental Planner for a consultancy project "Preparation and Review of Urban Development Plan for Samdrupjonkhar" undertaken as an institute consultancy for Department of Human Settlement, Ministry of Works and Development, Royal Government of Bhutan. Dec' 2012 to June 2013

Journal Editor

- Edited 13th issue of "SPANDREL" an International Journal of School of Planning and Architecture, Bhopal, India: New Dimensions in Research of Environments for Living (ISSN 2231-4601) having a theme of 'Water Sensitive Development'.

10. Awards/Recognitions & Fellowships

- GATE (Graduate Aptitude Test in Engineering) Government of India for master's Programme
- Research Fellowship Maulana Azad National Institute of Technology, Bhopal, India for PhD Programme
- Fellowship by United Nations Institute for Training and Research (UNITAR) for e-learning course "Introduction to Sustainable Consumption and Production in Asia", 01 September – 24 October

11. Committee Member

- Member of the Technical Expert Group (TEG) for the CDRI (Coalition for Disaster Resilient Infrastructure) Fellowship Programme from 2021-2024. The Coalition for Disaster Resilient Infrastructure (CDRI) is a partnership of national governments, UN agencies and programmes, multilateral development banks and financing mechanisms, the private sector, and knowledge institutions that aim to promote the resilience of new and existing infrastructure systems to climate and disaster risks.
- Nomination in the Working Group for "Requirement for Habitat Planning in Rural Areas" CED51/WG5. CED 51, the Planning and Housing Sectional Committee is one of the important technical committees under the Civil Engineering Division Council (CEDC) of BIS dealing with the standardization in Planning and Housing.

12. Membership of professional bodies

- Registered with Council of Architects, India - CA/91/14119 since 1991
- Associate member of Institute of Town Planners, India- 94 / 108, since 1994