



Dr. Tanya Kaur Bedi



7 July 1993



+91-8098289420



tanyabedi93@gmail.com / tanyakaurbedi@spabhopal.ac.in

ACADEMIC QUALIFICATION	Year	CGPA	Institution
1. Bachelor of Architecture (B.Arch)	2011-16	8.66	Maulana Azad National Institute of Technology, Bhopal (NIT-B)
2. Master of Environmental Planning (M.Plan)	2016-18	8.18	School of Planning and Architecture, Bhopal (SPA-B)
3. Doctor of Philosophy (PhD.)	2019-24	-	Indian Institute of Technology, Kharagpur (IIT-KGP)
<i>Thesis title: An exploratory framework to comprehend the influence of built environment on indoor air quality of urban residences.</i>			

WORK EXPERIENCE	Institute	Duration
1. Architectural Intern	Tapasya Design Studio, Auroville	Jan-April 2016 4 months
2. Planning Intern	IBI Group, Bhubaneshwar	May-June 2017 2 months
3. Assistant Professor	ITM University, Vadodara	July 2018-2019 1 year
4. Assistant Professor	School of Planning and Architecture, Bhopal	March 24 - April 25 5 May 2025 - Present Contract Full-time

AWARDS & ACCOLADES	Awarding Agency	Year
1. Gold Medallist B. Arch	NIT Bhopal	2016
2. NOSplan Winner	Competition: Designing your Futurescapes	2017
3. Registered Architect	Council of Architecture (COA), India - CA/2018/93014	Present
4. All India Rank (AIR) 380	GATE Architecture and Planning	2019
5. NPTEL Teaching Assistant	NPTEL Architectural Acoustics	2020-23
6. Elsevier Reviewer	Journal: Sustainable Cities and Societies (IF: 10.67)	2020-24
7. Featured in Newspaper (Times of India)	Article: "Yellow veil dims stars in 75% of Ahmedabad sky" (Journalist Paul John)	2021
8. Speaker	IPE Global & SCE France - Capacity Building & Technical Assistance Project to Strengthen Institutional Capacity in Tamil Nadu	2022

9.	CSIR Foreign Travel Grant - USA	Council of Scientific & Industrial Research (CSIR) Human Resource Development Group (HRDG)	2023
10.	SERB International Travel Support (ITS) - China	Science and Engineering Research Board (SERB), under Department of Science and Technology (DST)	2023
11.	Featured in Magazine (WFM Media)	Article: Sustainable Façade Lighting in Window and Facade Magazine India (Editor Renu Rajaram)	2024
12.	Speaker & Co-coordinator	3-Day online course on Fundamentals of Indoor Environmental Quality (IEQ) under CEP (Continuing Education Program) IIT Kharagpur	2024
13.	Contributing co-author in MoEFCC Publication	"Passive Cooling Strategies for Sustainable Buildings," guidebook by Ministry of Environment, Forest and Climate Change, GoI	2024

PROJECTS COMPLETED AS PI			Year
1.	Anusandhan National Research Foundation (ANRF) Funded	Assessing Indoor Environmental Quality (IEQ) in Academic Institutions: Occupant-Centric Evaluation and Passive Intervention Strategies for Learning Environments	2026

EDITORIALS			
1.	Associate Editor	Journal of Habitat Studies	30 October 2025 - Present

SCI/SCOPUS JOURNAL PUBLICATIONS		Author(s)	Journal
1.	Light pollution in India: Appraisal of artificial night sky brightness of cities <i>doi.org/10.1007/s10668-021-013 / 2021</i>	Tanya Kaur Bedi, K. Puntambekar, S. Singh	Environment, Development & Sustainability
2.	Assessment of Light Pollution in Indian Scenario: A Case of Bangalore <i>doi.org/10.1007/s40030 / 2021</i>	Tanya Kaur Bedi, K. Puntambekar, S. Singh	Journal of The Institution of Engineers (India): Series A
3.	An Investigative Study on Perceived Indoor Air Quality During COVID-19 Lockdown in India <i>doi.org/10.1007/s40030 / 2021</i>	Tanya Kaur Bedi, S.P. Bhattacharya	Journal of The Institution of Engineers (India): Series A
4.	Physio-chemical analysis of pollutants in residential micro-environment through continuous monitoring and settled dust characterization <i>doi.org/10.1177/1420326X241229639</i>	Tanya Kaur Bedi, S.P. Bhattacharya	Indoor and Built Environment

5.	Integrating Built and Indoor Environmental Parameters into AI-ML models for Indoor Air Quality Estimation	Tanya Kaur Bedi, S.P. Bhattacharya	Journal of Building Engineering (Under Review)
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OTHER PUBLISHED ARTICLES		Author(s)	Journal	Volume (Issue)
1.	Number plate-based road space rationing - A case of New Delhi	Tanya Kaur Bedi, S.P. Bhattacharya	Indian Journal of Transport Management	10 (4)
2.	Evaluation of GHG Emissions from Proposed STP in Satna City	Tanya Kaur Bedi	IOSR Journal of Engineering	8 (1)

SCOPUS INDEXED BOOK CHAPTERS		Author(s)	ISBN/DOI	Year
1.	Indoor Air Quality and Health: An Emerging Challenge in Indian Megacities (Vol 15 Elsevier Book: Urban Health: A Global Perspective, Developments in Environmental Science.	Tanya Kaur Bedi, S.P. Bhattacharya	9780443219481; https://doi.org/10.1016/B978-0-443-21948-1.00013-3	2024
2.	The Interplay of Textile Art and Architecture in Pranpur: India's First Handloom Craft Village COPAL Book: The Living Heritage of Indian Arts and Crafts.	Parama Mitra 1 , Tanya Kaur Bedi, Sanmarga Mitra	Accepted for Publishing	2026

INTERNATIONAL CONFERENCES		Title	Year
1.	Urban Transitions Global Summit 2022 Elsevier (Spain)	An analysis of spatial-temporal variation in indoor air quality based on field measurements of an apartment	2022
2.	Urban Affairs Association UAA Conference (USA)	Health Risk Assessment Attributable to Indoor Air Pollution in Naturally Ventilated Dwellings	2023
3.	The 18 th International IBPSA Building Simulation Conference (China) Scopus Proceedings doi.org/10.26868/25222708.2023.1351	Evaluation of particulate pollution in a residential micro-environment	2023
4.	The 59 th ISOCARP World Planning Congress (Canada)	Winter assessment of indoor air quality of middle-income households in Kolkata, India	2023
5.	Energise Conference (India)	Indoor Air Quality Assessment Based on Particulate Matter Contamination	2023
6.	BuildSys (Turkey) ACM Proceedings doi.org/10.1145/3600100.3627029	Exploratory analytics of factors influencing Indoor Air Quality: A case of Kharagpur, West Bengal, India	2023

7.	The Twentieth International Conference on Environmental, Cultural, Economic & Social Sustainability (<i>Portugal</i>)	Indoor environment vulnerability of middle income population	2024
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NATIONAL CONFERENCES		Title	Year
1.	Innovative Trends in Civil Engineering, Architecture and Environmental Engineering for Sustainable Infrastructure Development (CEAESID): Proceedings in Journal of Energy Research & Environmental Technology (Volume 2, Issue 2)	Feng-Shui and Vaastu Shastra	2015
2.	Architecture, Civil and Environmental Engineering (ACEE): Proceedings in Journal of Civil Engineering & Environmental Technology (Volume 4, Issue 3)	Cost-Effective Construction Technology	2017
3.	International Conference on Smart and Sustainable Cities (SSC-18) NIT Surat	Integrated land management using GIS: A case of Jabalpur	2018
4.	International Conference on Environmental and Sustainable Development Conference at NIT Raipur	Noise aspects in religious setting: A case of Mathura city	2019
5.	International Conference on Resilient and Liveable City Planning, RLCP 2020 at SPA, Vijayawada	Climate Change Adaptation through Green Infrastructure: A Case of Satna City	2020
6.	International Conference on Resilient and Liveable City Planning, RLCP 2020 at SPA, Vijayawada	Sustainable Waste Management for Religious Tourism: Case of Pilgrim City Mathura	2020
7.	Urban Innovations Conference 2024: 1-3 March 2024 at SPA Bhopal, Madhya Pradesh	Exploring the Dynamics of Neighbourhood Built Geometry and Indoor Air Quality in Naturally Ventilated Buildings	2024
8.	1st International Conference on Building Engineering and Management (ICBEM), SPA Bhopal, Madhya Pradesh	A Framework to Assess the Impact of Wall Insulation Materials: Foam Concrete, Cork Slab & Foam Glass Wall Insulation on Cooling Load of an Office Building	2026

ADMINISTRATIVE DUTIES		Duration
1.	Girls Hostel Warden	21 May 2025 - Present

SERVING COMMITTEES INSTITUTE LEVEL (member)		Duration
1.	IPR Policy and Startup Policy	07 August 2025 - Present
2.	Academic integrity and ethical clearance procedures	16 January 2026 - Present
3.	M.Arch Program/ Integrated B.Arch-M.Arch Program	18 March 2025 - Present

INVITED LECTURES		Organization
1.	Advancement in Architecture, Engineering & Construction Industry & Retrofitting of Buildings - Reviewing Indoor Air Quality for Retrofit Structures 22 September 2025	5-Day Training Programme for Military Engineer Services (MES) Officials on, SPA Bhopal
2.	INDOOR AIR QUALITY (IAQ) August 30, 31, and September 1, 2024	3-Day online course on Fundamentals of Indoor Environmental Quality (IEQ), IIT Kharagpur
3.	#92 - Tanya Kaur Bedi: Healthy Buildings India 2025 Part 3: The Inhalable Diet Youtube link - #92 - Tanya Kaur Bedi: Healthy Buildings India 2025 Part 3: The Inhalable Diet	Air Quality Matters Podcast by Simon Jones

CERTIFICATION COURSE/TRAINING		Organization
1.	Housing Policy and Planning	IIT Madras NPTEL
2.	Integrated Waste Management for Smart City	IIT Kharagpur NPTEL
3.	Electronic Waste Management Issues & Challenges	IIT Kharagpur NPTEL
4.	Sustainable Cities	IHS Bangalore
5.	Earth Imagery at Work	Udemy
6.	Water Quality Parameters and Testing	M.P. State Pollution Control Board

CONTRIBUTION TO EVENTS		Organization	Days	Role	Year
1.	1st International Conference on Building Engineering and Management (ICBEM)	SPA, Bhopal	2	Session-Chair	2026
2.	UDL Seminar 13-14 September 2025	Urban Design Lab	2	Convener	2025
3.	B.Arch 4th semester studio review	SPA New Delhi	1	External Juror	2025
4.	Course - Services in Large Scale Buildings	IIT Kharagpur	3	Co-coordinator	2021
5.	TEQIP - Structural Systems & Services for Special Buildings	IIT Kharagpur	5	Co-coordinator	2020
6.	Workshop - Climate-friendly architecture	ITM, Vadodara	3	Coordinator	2019
7.	Tech Fest - Symbiosis	SPA, Bhopal	3	Coordinator	2018

TRAINING PROGRAMS / WORKSHOPS CONDUCTED AS COORDINATOR

1.	Workshop at International Healthy Buildings Conference 2025 (HB2025), International Society of Indoor Air Quality and Climate (ISIAQ), Hyderabad “Behavioral Changes and Seasonal Adaptations for enhanced Indoor Air Quality and Energy Efficiency” on 20 August 2025	2025
2.	5- Day Short-Term Training Program (STTP) “Artificial Intelligence (AI) and Building Information Modelling (BIM) Tools in Architecture, Engineering, and Construction” October 21-25, 2025 at School of Planning and Architecture, Bhopal	2025

WORKSHOPS ATTENDED

		Year
1.	Laurie Baker Centre for Habitat Studies (LBC) Trivandrum	2015
2.	Indian National Trust for Art and Cultural Heritage (INTACH) Bhopal	2015
3.	Current Trends in Interior Design (MANIT) Bhopal	2015
4.	Disaster Risk Reduction & Climate Change Adaptation (MANIT) Bhopal	2011