

CURRICULLUM VITAE

1. **Name** : Dr. Nand Kumar
2. **Father's name** : Sh. Mansa Ram
3. **Date of birth** : 14th July, 1969
4. **Nationality** : Indian
5. **Category** : General
6. **Present post with institute address** : Associate professor
Department of Architecture & Planning
Malaviya National Institute Technology Jaipur
JLN Marg Jaipur Rajasthan 302017
Mobile: +919414062970
7. **Permanent Postal Address** : D- 38, Staff colony,
Malaviya National Institute Technology Jaipur
JLN Marg Jaipur Rajasthan 302017
8. **Email Address** : nkumar.arch@mnit.ac.in
9. **Education Qualifications:**

Degree	CGPA / %age	Year	Institution
Ph. D		2016	Indian Institute of Technology Roorkee
M. Plan.	8.4	2006	Indian Institute of Technology Roorkee
B. Arch.	69 %	1994	Malaviya Regional Engineering College, Jaipur

10. **Professional Experience:**

Address of the Office/ Organization/ Institution	Post Held	Pay Scale	Duration	
			From (Date)	To (Date)
MNIT Jaipur	Associate Professor	9500 13A2	14/05/18	Till date
MNIT Jaipur	Assistant Professor	15600-39100	19/01/14	13/05/18
MNIT Jaipur	Lecturer Senior scale	10000-325-15200	1/07/05	18/01/14
MREC Jaipur	Lecturer	2200-75-2800-100-4000	04/03/99	30/06/05

11. Administrative Responsibilities

- i. Associate Dean Alumni Affairs from June 2022 to till now.
- ii. Head department of Architecture and Planning from 11-6-2020 to 11-06-2022.
- iii. Library coordinator of procurement of library resources from 05-03-2022 to till now.
- iv. Member of Net Zero Energy Campus from 31-05-2022
- v. Proctor of MNIT Jaipur from 28-01-2022.
- vi. Member of Student welfare committee from 20-12-2022 to 13-01-2023.
- vii. Member of Committee to prepare the code of conduct for students from 06-11-2019 to 05-11-2020.
- viii. Member of Committee to examine modified assured career progression scheme (MACPS) from 08-10-2021 to 07-10-2022.
- ix. Member of Committee to prepare the PG curriculum revision from 24-01-2018 to 23-01-2019.
- x. Faculty in-charge of Educational Tour from 13-09-2018 to 01-04-2019.
- xi. Member of campus planning and master plan committee from 29-06-2020 to 28-06-2021.
- xii. Hostel Maintenance Warden from 01-09-2020 to 31-12-2020.
- xiii. Warden of Aurobindo hostel from 06-11-2019 to 31-08-2020.

12. Registration and Membership of Professional Bodies

- i. Council of Architecture- 1996/20369
- ii. Institute of Town Planners, India- 2009/078
- iii. Indian Institute of Architects, India- 2000/A-13009
- iv. ASHRAE, BOG member of Rajasthan chapter- 2022

13. Consultancy Projects:

S. No.	Title of the Project	Role	Funding Agency	Consultancy fee (Rs)	Status
1.	Preparation of Sikar Master Plan 2041	PI	Nagar Parishad, Sikar	3,48,13,946/-	On-going
2.	Preparation of Zonal Development Plan of Sri Ganganagar City	PI	UIT, Sriganganagar, Raj.	1,65,76,404/-	On-going
3.	Preparation of Zonal Development Plan of A, B, C, D, And E Zones of Bhilwara City	PI	UIT, Bhilwara, Raj.	4,75,35,240/-	On-going

4.	DPR Preparation for Development of Ecological Park at Laxmangarh, Sikar	PI	DFO, Sikar, Raj.	19,88,300/-	On-going
5.	Provide Consultancy for Design and Drawing for Construction of Chemical Laboratory at GWD Jaipur.	PI	Ground water department, Jodhpur	2,00,000/-	On-going
6.	Preparation of Structural and Architectural Work of Residential Apartment, Sector 16, Pratap Nagar, Jaipur	PI	Rajasthan Housing Board, Jaipur	23,36,4000/-	On-going
7.	Preparation of Structural and Architectural Work of Residential Apartment for MNIT Employee, Sector 26, Pratap Nagar, Jaipur	PI	Rajasthan Housing Board, Jaipur	28,23,740/-	On-going
8.	Third Quality Assurance of IAS Flats.	CO-PI	Rajasthan Housing Board, Jaipur	3,54,000/-	On-going
9.	Preparation of Zonal Development Plan of Churu City	PI	Nagar Parishad, Churu, Raj.	1,65,40,768/-	Completed
10.	Preparation of Zonal Development Plan of Sikar City	PI	Nagar Parishad, Sikar, Raj.	2,96,03,841/-	Completed
11.	Preparation of Zonal Development Plan of Sujangarh City	PI	Nagar Parishad, Sujangarh, Raj.	1,72,04,981/-	Completed
12.	Preparation of Zonal Master Plan of ESZ Nahargarh Wildlife, Jaipur	PI	DFO, Nahargarh, Jaipur	38,00,00/-	Completed
13.	Vetting of DPR for Tourist Interpretation Cum Cultural Center at Nathdwara, Rajsamand	PI	Nagar Palika, Nathdwara,	3,24,500/-	Completed
14.	Checking and Vetting of EPC Bid Documents for the Work of Finishing Works And Maintenance of all these Works in Complete Campus of Vidhyayak Aawas Project	PI	Rajasthan Housing Board, Jaipur	5,90,000/-	Completed
15.	Technical Vetting of In-House Prepared Architectural and Structural Designs and Drawings for the Construction of Oil Executive Residential Complex – Jodhpur	PI	OIL India Ltd. Jodhpur Rajasthan	5,19,200/-	Completed
16.	Checking and Vetting of EPC Mode Bid Document for the Work of Construction of RHB Greenwood Mansions and Shopping Arcade at Sector 28 Pratap Nagar, Sanganer Jaipur	PI	Rajasthan Housing Board, Jaipur	7,52,692/-	Completed

17.	Vetting of DPR of Nehru Bal Bhawan, Sikar	PI	Nagar Parishad, Sikar	4,30,110/-	Completed
18.	Checking and Vetting of DPR A P J Abdul Kalam Science Park in Nagar Parishad Sikar	PI	Nagar Parishad, Sikar	4,08,605/-	Completed
19.	Entry Gate, Sikar	PI	Nagar Parishad, Sikar	3,54,000/-	Completed
20.	Vetting of DPR for Waste Water, Rainwater and Drainage System of Deedwana City	PI	Nagar Parishad, Deedwana	5,31,000/-	Completed
21.	Central Park near Rob Rawatsar Road, Hanumangarh	PI	Nagar Parishad, Hanumangarh	2,95,000/-	Completed
22.	Vetting of Structural Drawing of Proposed Auditorium in Sikar	PI	Nagar Parishad, Sikar	3,54,000/-	Completed
23.	Checking and Vetting of EPC Mode Bid Document for the Work of Construction Work of CLUB 21, NRI Colony, Pratap Nagar, Jaipur	PI	Rajasthan Housing Board, Jaipur	4,94,626/-	Completed
24.	Checking & Vetting of EPC Mode Bid Document	CO-PI	Rajasthan Housing Board, Jaipur	2,31,999/-	Completed
25.	Appointment of TPI for Construction of MLA Flats at Vidhayak Nagar (West).	CO-PI	Rajasthan Housing Board, Jaipur	3,54,000/-	Completed
26.	Preparation of PPR for Development of Ropeway at Trinetra Ganesh Ji Temple, Sawaimadhopur and Rameshwwar Mahadeo Temple, Bundi	CO-PI	Tourism Department, Rajasthan	10,00,000/-	Completed
27.	Resource Recovery from Municipal Solid Waste in Nagar Parishad Sujangarh	CO-PI	Nagar Parishad, Sujangarh	4,85,000/-	Completed
28.	Checking & Vetting of the EPC Mode Bid Document & Process for the Work of Construction of MLA Flats at Vidhayak Nagar [West], Jyotnagar, Jaipur	CO-PI	Rajasthan Housing Board, Jaipur	9,27,999/-	Completed
29.	Preparation of Techno-Economic Feasibility Report for Proposed Khelgaon-Sports Village – Project at Indira Gandhi Nagar Extension Scheme, Jaipur.	CO-PI	Rajasthan Housing Board, Jaipur	11,79,656/-	Completed
30.	Redesigning, Remodeling and Refurbishment of the Heritage Train Palace on Wheel.	CO-PI	Rajasthan Housing Board, Jaipur	5,90,000/-	Completed
31.	Provide Consultancy Source for Design of Bus Stand at Deedwana	CO-PI	Nagar Parishad, Deedwana	17,70,000/-	Completed

32.	Vetting of Architectural Design Proposal and Financial Viability Report for Setting Up of Coaching Hub in Sector 16 Pratap Nagar Sanganer Jaipur	CO-PI	Rajasthan Housing Board, Jaipur	4,63,999/-	Completed
33.	Drafting of Lease Document for Club 21 at Raj Angan Yojana, NRI Colony, Pratap Nagar, Sanganer Sector 24, Jaipur	CO-PI	Rajasthan Housing Board, Jaipur	2,36,000/-	Completed
34.	Proof Checking of Design Drawing of RES & LIG Houses in Sector 28, Pratap Nagar Jaipur	CO-PI	Rajasthan Housing Board, Jaipur	8,38,596/-	Completed
35.	Preparation of Initial Environmental Examination (IEE) Report including Environmental Management Plan for the Project of Development of Residential Colony for Affected Persons of Village Pur, Bhilwara	CO-PI	Urban Improvement Trust, Bhilwara	6,89,999/-	Completed
36.	Checking and Vetting of EPC Mode Bid Document for the Work of Constitutional Club at Vidhayak Nagar (East) Jyoti Nagar Jaipur	CO-PI	Rajasthan Housing Board, Jaipur	4,63,999/-	Completed

14. Research Projects:

S. No.	Title of the Project	Role	Funding Agency	Sanctioned Amount (Rs)	Status
1.	Development of Greywater Disposal Site in Surajgarh	PI	Nagar Palika, Surajgarh	5,16,000/-	On-going
2.	Research Study of Udaipur Smart City Infrastructure Projects of Under SAAR Compendium 2.0	PI	Smart city limited, Udaipur	4,80,000/-	On-going
3.	Research Study of Udaipur Smart City Planning and Design Projects under SAAR Compendium 2.0	PI	Smart city limited, Udaipur	6,60,000/-	On-going
4.	Preparation of District Environmental Management Plan for Sikar	PI	DFO, Sikar	9,96,000/-	Completed
5.	Preparation of District Environmental Management Plan for Hanumangarh	PI	DFO, Hanumangarh	9,96,000/-	Completed
6.	Preparation of District Environmental Management Plan, Alwar	PI	DFO, Alwar	9,96,000/-	Completed
7.	Mission Amrit Sarovar – Jal Dharovar Sanrakshan	PI	MOUHA	2,00,000/-	Completed

8.	Smart Cities & Academia Towards Action & Research.	PI	MOUHA	1,00,000/-	Completed
9.	Research Study for Identification of Potential & Scope of Renovation & Optimum Planning and Design of Renovation of Bhagat Singh & Bharat Mata Chowk, in Hanumangarh	CO-PI	Rajasthan Housing Board - Jaipur	1,32,000/-	Completed
10.	Study for Identification of Potential & Scope of Renovation and Optimum Planning & Design of Renovation of Collectorate Chowk, Lal Chowk, Karni Chowk, Ambedkar Chowk Junction & Chowk Near Govt Hospital, Chowk Near Bishnoi Dharmshala in Hanumangarh.	CO-PI	Rajasthan Housing Board - Jaipur	2,88,000/-	Completed

15. Research Guidance

A. Ph.D. Thesis guidance

S. No.	Thesis Title	Name of Student	Session of registration	Status	Role
1.	Energy Efficiency Assessment of Indo-Saracenic Buildings in Jaipur, Rajasthan	Shweta Choudhary	2016-17	Completed (2020)	Co-Supervisor
2.	Strategies for Energy Efficiency in Technical Institutes of Hot and Dry Climatic Zone, India	Sunil Sharma	2016-17	Completed (2020)	Co-Supervisor
3.	Strategies to Strengthen Urban Water Resilience in Jaipur City, India	Manish Sharma	2016-17	Completed (2021)	Co-Supervisor
4.	Planning Strategies for an Energy-Efficient Urban Transportation System - A Case of Lucknow City	Abdur Raouf Khan	2016-17	Ongoing	Supervisor
5.	Techno-Economic Study for Comfort & Energy Performance of Historic Residential Buildings- Jaipur, India	Somya Mahlawat	2017-18	Ongoing	Supervisor
6.	Comprehensive Framework for	Akanksha	2019-20	Ongoing	Supervisor

	Planning Public Green Spaces in Indian Cities	Sangwan			
7.	Comprehensive Framework for Sustainability Assessment of Group Housing	Parul Bhyan	2019-20	Ongoing	Co-Supervisor
8.	Community Participation for Urban Resilience	Bansari Sharma	2020-21	Ongoing	Co-Supervisor
9.	Multi-objective Optimization Approaches for Net-Zero Residential Building in Composite Climate, Jaipur City	Pushpendra Chaturvedi	2020-21	Ongoing	Supervisor
10.	Energy- efficient Neighborhood in Jaipur City	Prashant Vijayvargiya	2020-21	Ongoing	Supervisor
11.	Energy-efficient Housing Design in Rural Area	Priya Tyagi	2021-22	Ongoing	Co-Supervisor

B. PG. Dissertation & Thesis Guidance

S. No.	Thesis Title	Name of Student	Session
1.	Impact of Urban Infrastructure due to Activity Change in Raja Park Area, Jaipur	Jaswant Singh	2008-2010
2.	Slum Improvement Initiatives in Jaipur.	Ritu Sharma	2008-2010
3.	Impact of Urban Development on Water Supply: A Case Study of Jaipur City (J.M.C Limit)	Pragya Kotia	2009-2011
4.	Planning Guidelines for Development of Industrial Areas in Jaipur	Ankit Kashmiri Gupta	2013-2015
5.	Assessment Of Infrastructure Facilities in Residential Area of Surat City.	Mehul Kumar	2014-2016
6.	Impact of Urbanization on Urban Water Bodies in Hyderabad City	R Anjani	2014-2016
7.	Assessment of Mass Rapid Public Transportation System in Jaipur City	Sagar Kumar Chetiwal	2015-2017
8.	Planning For Transportation in Guwahati City	Kirat Kungksa	2016 -2018

		Naizary	
9.	Urban Growth Assessment using Remote Sensing and GIS	Aditi Mathur	2017 - 2019
10.	Investigation of Energy Consumption Pattern in Residential Neighbourhood, Chitrakot Jaipur	Abhimanyu Chaudhary	2017 - 2019
11.	Planning For NMT in Vijayawada City	S. Venkata Sai	2017 - 2019
12.	Planning For Tourism Infrastructure in Mathura City	Kanchana Agarwal	2018 - 2020
13.	Impact of Tourism: A Case of Pushkar City	Preeti Sinha	2018 - 2020
14.	Study of Urban Sprawl Dynamics of Patna	Arpana Kumari	2019 - 2021
15.	Strategy For The Orderly Placement of Street Vendors	Tanvi Gupta	2020-2022
16.	Strategies For Improving Urban Mobility in AUNDH, Pune City	Rituja Giramkar	2020-2022
17.	Significance of Public Open Spaces in Walled City Jaipur	Diksha Bankar	2021-2023
18.	Route Optimization Using ArcGIS for Tourism in Walled City, Jaipur, Raj.	Gaurav Panchal	2021-2023
19.	Implementation of Rain Water Harvesting for Bhilwara City, Rajasthan	Satyam Kumawat	2021-2023

C. UG. Thesis Guidance

S. No.	Thesis Title	Name of Student	Session
1.	Convention Centre at Bangalore	Prem Sagar	1999-2000
2.	Museum of Indology at Jaipur	Vandana Gupta	1999-2000
3.	National Institute of Fashion Technology, Navi Mumbai	Sudhir Kain	2001-2002
4.	International Center, Greater Noida	Rashmi Gupta	2002-2003
5.	Jaipuria Institute of Management, Ghaziabad	Sanjeev Kumar Verma	2002-2003
6.	Five Star Deluxe Hostel Radisson at Jaipur	Manish Maurya	2006-2007
7.	Engineering College at Bikaner	Vikas Jonwal	2006-2007
8.	Institute of Hotel Management, Greater Noida	Vandana Singh	2006-2007
9.	Engineering College at kuchaman	Abhishek Agarwal	2007-2008

10.	Mohali Integrated Passenger Terminal	Nidhi Gulati	2007-2008
11.	5-Star Hotel, Nagpur	Prasad A. Kawadkar	2008-2009
12.	Engineering College at Jagatpura, Jaipur	Jaivardhan Khandelwal	2008-2009
13.	Museum of Independence, New Delhi	Sneha	2009-2010
14.	National Institute of Design Bhopal	Udai Singh Verma	2010-2011
15.	Formula One Race Circuit at Noida	Juttu Prabhat Bhanu	2010-2011
16.	Engineering College at Jaipur	Ashok Kumar Meena	2010-2011
17.	Indian Institute of Information Technology, Lucknow	Anil Kumar	2014-2015
18.	International Cricket Stadium and sport complex Lucknow	Vikas Saini	2014-2015
19.	Center for Music Experience Bangalore	Shubham Jangir	2014-2015
20.	International Sport Academy at Raigarh, Bihar	Piyush Kumar	2014-2015
21.	Housing High Rise Residential Apartments	Dherya Mehta	2015-2016
22.	NIFT Panchkula	Tarun Varma	2015-2016
23.	Film Institute Noida	Rahul Jangid	2015-2016
24.	200 Bedded General Hospital, New Delhi	Gaurav Jain	2015-2016
25.	Socio-Cultural Center, Dwarka, New Delhi	Aishwarya Dwivedi	2016-2017
26.	Shopping Complex at Gurgaon	Ankit Malik	2016-2017
27.	India Habitat Centre, Gurgaon	Mrinalini Prahlad	2016-2017
28.	IIM in Amritsar	Malvika Choudhary	2016-2017
29.	Group Housing at Sikar Road	Yatin Ghera	2016-2017
30.	Residential High School, Bikaner	Ajay Kumar	2016-2017
31.	College of Architecture, Fathepur, Rajasthan	Varsha Verma	2017-2018
32.	Group Housing at Jaipur	Yashwant Bajiya	2017-2018
33.	Metro Station, Pushp Vihar, Delhi	Zothazuala	2017-2018
34.	Freedom Fighter Museum Chhindwara	Akash Paredkar	2018-2019
35.	Cultural Center, Gurugram	Aditya Ranajan	2019-2020
36.	Tech Park, Bangalore	Aditya Srivastava	2019-2020
37.	Lake Side Wellness Report at Gorean, Tehri, Uttarakhand	Abhishek Kumar	2020-2021
38.	Kendriya Vidhalaya, CRPF, Kadarpur	Monika	2020-2021

39.	IT Office Building, Sector 66, Gurugram	Shambhav Jain	2020-2021
40.	Urban Center for Excellences	Harsh Khandelwal	2021-2022
41.	Education Campus Design, Gujrat	Supriya Shah	2021-2022
42.	War Memorial Museum New Delhi	Abhishek Bairwa	2021-2022
43.	Greenfield Group Housing Project at Ahmedabad	Shah Vatsal Minesh	2022-2023
44.	Development of Wellness Resort in Madan Negi, Tehri, Uttarakhand	Divyansh Soni	2022-2023
45.	450-Bedded Cancer Hospital Design	Kriti Bansal	2022-2023

16. PATENT (In Process)

Sunil Sharma, Ashwani Kumar, Nand Kumar, Satish Pipralia, A Method for implementing Energy Efficiency Measures in Institutional Buildings, (in process App. No. 202111020563) concept submitted on May 5th, 2021.

17. List of Research Publications

A. Research Papers Published in Journals:

1. Kumar, N., 2013, “**Analysis of National Highway-47 in Kanyakumari District, Tamil Nadu**”, Journal of the Institute of Town Planners, India, Vol. 10, No. 3, July-Sept 2013 (Co-Author: Dr. V. Devadas, Tejas Rawal).
2. Kumar, N., 2015, “**Analysis of Energy Consumption for Personal Transportation System in Jaipur City**”, Journal of the Institute of Town Planners, India, Vol. 12, No. 02, Pp 28-48 (Co-Author: Dr. V. Devadas).
3. Kumar, N., 2015, “**Analysis of Residential Building Energy Consumption in Jaipur City, India**”, Journal of the Indian Institute of Architects, Vol. 80, Issue 09, Pp 30-37 (Co-Author: Dr. V. Devadas).
4. Kumar, N., 2016, “**A Household Based Analysis of Domestic Energy Consumption for Lighting in Jaipur City**”, International Journal of Built Environment and Sustainability, IJBES 3(2), Pp 126-133 (Co-Author: Dr. V. Devadas).
5. Manish Sharma, Nand Kumar, Ashwani Kumar (2017) **Need for Disaster Risk Resilience: A case of India**, International Research Journal of Engineering and Technology (IRJET) Volume: 04 Issue: 11 pp 335-339.
6. Kumar, N., Kumar, A. and Sharma, S., 2018 “**The Quest for Environmental Sustainability in Educational Institutions.**” International journal of Engineering & Technology, 7(1.4), pp.33-38.
7. Sharma, S., Kumar, A., Kumar, N. and Gupta, S., 2018. **Developing a Net Zero Energy Building: A Case Study of an Institutional Library.** Available at SSRN 3198651.

8. S. Choudhary, S. Pipralia, N. Kumar (2018). **Energy Efficiency Assessment of Indo Saracenic Buildings In India**, conference publication of International conference on Energy efficiency in Historic buildings (EEHB), Swedish Energy Agency, University, September 2018, Visby, Sweden.(isbn-978-91-519-0838-0).
9. S. Choudhary, S. Pipralia, N. Kumar (2018) **Revisiting Architectural Heritage Towards a sustainable Environment**, Advanced Science Engineering and Medicine (ASEM), Vol 10,01-5,02018, American Scientific Publishers, United states of America. (ISSN: 21646627).
10. S. Choudhary, S. Pipralia, N. Kumar (2018) **Old Building, New Aspirations: The Future of Heritage in the Era of Energy Efficiency- A case of Jaipur city**, Conference Proceedings of International conference on urban Sustainability: Emerging Trends, themes, concepts and practices, 16th-18th March, 2018, Department of Architecture and planning, Malaviya National Institute of technology, Jaipur.
11. S. Choudhary, N. Kumar, S. Pipralia (2019) **Old Buildings, New Aspirations: The Future of Heritage in the Era of Sustainability-The Scenario in Rajasthan**, 16, I J publication, India. May 2019, Vol 6, Issue 5. (ISSN-2349-5162).
12. S. Choudhary, S. Pipralia, N. Kumar (2020) **Energy Efficiency Assessment of Indo-Saracenic Buildings Assessments and Material Evaluation of Historic Buildings**, Materials Today: Proceeding (MATPR), Accepted for publication, Reference no. MATPR 19348, Elsevier, (ISSN-2214-7853).
13. S. Choudhary, S. Pipralia, N. Kumar (2020), “**Need for Integrated Approach for Energy Efficiency Assessments and Material Evaluation of Historic Buildings**”, In Press: Materials Today: Proceedings, Elsevier ([https://doi.org/ 10.1016/14](https://doi.org/10.1016/14)).
14. P. Bhyan, N. Kumar, B. Srivasatva, **Cognitive Occupancy Appraisal for Sustainable Housing**” International Journal of Recent Technology and Engineering (IJRTE) ISSN:2277-3878, Volume-9 Issue-1, May 2020 DOI: 10.35940/ijrte.F9597.059120.
15. Manish Sharma, Bansari Sharma, Nand Kumar, Ashwani Kumar, 2022, **Measuring Urban Water Resilience at Household Level: A Comparative Study through a Framework for Developing Countries**, accepted for publication in Urban Water Journal [DOI:10.1080/1573062X.2022.2075767] [SJR 2019 Q1, SJR2020 Q2, SJR2021 Q2]. Need for Integrated Approach for Energy Efficiency.
16. Sharma B., Sharma S., Kumar A., Kumar N., Pipralia S., (2022) **Analysis of Urban Development Plan Formulation in India with Special Reference to Public Participation** accepted for publication in International Review for Spatial Planning and Sustainable Development on 30th August 2022 [SJR2021 Q2].
17. Manish Sharma, Bansari Sharma, Nand Kumar, Ashwani Kumar, 2022, **Establishing Conceptual Components for Urban Resilience: Taking Clues from Urbanization through a Planner’s Lens**, accepted for publication in ASCE's Natural Hazards Review [SJR2021 Q1] [DOI: 10.1061/NHREFO/NHENG-1523].
18. Parul Bhyan, Nand Kumar, Bhavna Shrivastava, “**A Systematic Literature Review of Sustainability Assessment Methods in Residential Buildings: Using**

Bibliometric Analysis 2000-2020” Environment, Development and Sustainability (2022). <https://doi.org/10.1007/s10668-022-02636-5> (SCI-E and Scopus indexed).

19. Tyagi, P., Shrivastava, B., & Kumar, N. (2023). **Investigating Rural Housing Quality Indicators in the Indian Scenario for Inclusive Imageability**. Environment, Development and Sustainability (Issue 0123456789). Springer Netherlands. <https://doi.org/10.1007/s10668-023-03699-8> (SJR 2022: 0.84, Q1).
20. Tyagi, P., Shrivastava, B., & Kumar, N. (2023). **Towards Creating Inclusive Villages: The Types of Rural Settlements**, ISVS E-Journal, 10(2), 91–106. (SJR 2022: 0.21, Q1).
21. Parul Bhyan, Bhavna Shrivastava, Nand Kumar, “**Allocating Weightage to Sustainability Criteria’s for Performance Assessment of Group Housing Developments: Using Fuzzy Analytic Hierarchy Process**”, Journal of Building Engineering, 65 // 2023 / 7.2 DOI: <https://doi.org/10.1016/j.job.2022.105684>.
22. Akanksha Sangwan, Nand Kumar and Ashwani Kumar, "**Defining the Urban Greenspaces in the Indian Context**", Architecture and Urban Planning 19 // 2023 / 0.59 DOI: <https://doi.org/10.2478/aup-2023-0008>.

B. Research Papers Presented in Conferences:

1. Waste- **An Energy Substitute in Construction**, MREC, Jaipur, 2002.
2. Kumar, N., & Devadas, V. (2007). **Integrated Urban Development Plan: A Scientific Approach**. Seminar on Integrated Development of Towns as New Growth Centres (pp. 35-42). New Delhi: Journal of Indian Building Congress.
3. **Integrated Multi-Modal Transportation in India**, GNDU, Amritsar, 2014.
4. Kumar N., Kashmiri A, (2015), **Analysis of Planning Provisions for Industrial Estates in India**, International Conference on Recent Advances in civil engineering, architecture and environmental engineering for sustainable development, 11 th -12 th July 2015 JNU New Delhi
5. Kumar, N., Devadas, V., & Panwar, M. (2016). **Energy Management for Smart Habitat**. Seminar on Towards Building Smart & Sustainable Infrastructure in Urban Development (pp. 159-166). New Delhi: Journal of Indian Building Congress.
6. **Impact of Urbanization on Urban Water Bodies in Hyderabad city**, JNT University, Hyderabad, 2016
7. Kumar, N., Sharma, S., Paul, S. K., & Jawaid, M. F. (2017). **Land Use Suitability Analysis for Zone K-1 (Urban Extension)**, New Delhi. National Conference on Urban Environmental Management in India: Problems and Prospects (pp. 478-484). Jaipur: International Journal on Emerging Technologies.
8. Kumar, N., Kashmiri, A., & Chandra, T. (2017). **Assessing the Needs and Planning**

Provisions for Industrial Areas in India: Jaipur. National Conference on Urban Environmental Management in India: Problems and Prospects (pp. 470-474). Jaipur: International Journal of Emerging Technologies.

9. Kumar, N., Gaur, J., Basist, K., Mohindru, P., & Kumar, A. (2017). **Status of Solid Waste Management In Reference To Smart City Guidelines: A Case Study of Walled City Jaipur.** International Conference on Trends in Architecture and Construction.
10. Kumar, N., Gochar, S., Sachdeva, N., & Kirat K. Narzary, A. K. (2017). **Appraisal of Social Infrastructure in Walled City, Jaipur.** International Conference on Trends in Architecture and Construction. Chandigarh: University Institute of Architecture Chandigarh University.
11. Kumar, N., Kumar, A., & Varun, B. M. (2017). **Review of Building Byelaws of Walled City of Jaipur.** International Conference on Trends in Architecture and Construction. Chandigarh: University Institute of Architecture Chandigarh University.
12. Kumar, N., Kumar, A., S, V. S., Yadav, K. G., & Krishnani, V. (2017). **Need of Preserving Green Spaces, A Case Study Of Walled City, Jaipur.** International Conference on Trends in Architecture and Construction. Chandigarh: University Institute of Architecture Chandigarh University.
13. Kumar, N., & Preet, G. (2017). **Stringent Traffic Policies: A study of Traffic Congestion in Commercial Areas of Malaviya Nagar Jaipur.** International Conference on Modern Research in Architecture, Civil Engineering, Environmental Science for Sustainable Development (pp. 515-517). New Delhi: Krishi Sanskriti.
14. Kumar, N., & Singh, A. (2017). **Master Plan and Land Use Proposals: An analysis of Malaviya Nagar area.** International Conference on Modern Research in Architecture, Civil Engineering, Environmental Science for Sustainable Development (pp. 510-513). New Delhi: Krishi Sanskriti.
15. Kumar, N., & Thapa, V. (2017). **Study of Open and Green Spaces in an Urban Neighborhood: Case Study of Malaviya Nagar, Jaipur.** International Conference on Modern Research in Architecture, Civil Engineering, Environmental Science for Sustainable Development (pp. 523-525). New Delhi: Krishi Sanskriti.
16. Kumar, N., & Varun, B. M. (2017). **Urban Land Entitlement- A Case Study of Rajasthan.** International Conference on Modern Research in Architecture, Civil Engineering, Environmental Science for Sustainable Development (pp. 494-499). New Delhi: Krishi Sanskriti.
17. Kumar, N., Chandan, S., & Verma, N. (2017). **Non-Motorized Transport- A Sustainable Way to Streamline traffic congestion in commercial areas.** International Conference on Modern Research in Architecture, Civil Engineering, Environmental Science for Sustainable Development (pp. 526-529). New Delhi:

Krishi Sanskriti.

18. Kumar, N., Doye, T., & Mathur, A. (2017). **Assessment of Social Infrastructure in Malaviya Nagar, Jaipur city**. International Conference on Modern Research in Architecture, Civil Engineering, Environmental Science for Sustainable Development (pp. 530-533). New Delhi: Krishi Sanskriti.
19. Kumar, N., Kumar, T., & Chaudhary, A. (2017). **A Spatial Temporal Analysis of a Commercial Area- A Case of Gaurav Tower, Jaipur**. International Conference on Modern Research in Architecture, Civil Engineering, Environmental Science for Sustainable Development (pp. 518-522). New Delhi: Krishi Sanskriti.
20. Kumar, N., Sharma, Y., & Yogesh. (2017). **Status of Solid Waste Management in Malaviya Nagar of Jaipur city**. International Conference on Modern Research in Architecture, Civil Engineering, Environmental Science for Sustainable Development (pp. 534-536). New Delhi: Krishi Sanskriti.
21. Kumar, N., Tyagi, R., & Gupta, P. (2017). **Study of Change in Land Use/ Activity in Malaviya Nagar, Jaipur city**. International Conference on Modern Research in Architecture, Civil Engineering, Environmental Science for Sustainable Development (pp. 537-539). New Delhi: Krishi Sanskriti.
22. Manish Sharma, Nand Kumar, Ashwani Kumar (2017) **Need for Disaster Risk Resilience: A case of India**, International Research Journal of Engineering and Technology (IRJET) Volume: 04 Issue: 11 pp 335-339.
23. Sharma Sunil, Kumar Ashwani, Kumar Nand, Gupta Sobhagyawati, (2018) **Developing a Net Zero Energy Building: A Case Study of an Institutional Library**, International Conference on Urban Sustainability: Emerging Trends, Themes, Concepts & Practices, MNIT Jaipur, March 16th – 18th, ISBN: 9789386238481
24. Sharma Manish, Kumar Nand, Kumar Ashwani (2018), **Need for Water Management: A Case of Jaipur**, International Conference on Urban Sustainability: Emerging Trends, Themes, Concepts & Practices, MNIT Jaipur, March 16th – 18th, ISBN: 9789386238481.
25. Sharma Manish, Kumar Nand, Kumar Ashwani (2019), **A Quest for Networked City in Developing Countries by Spatial Assessment of the Status of Urban Water System: A Case of Jaipur City**, Architecture and Civil Engineering Conference (ACE 2019) Singapore (DOI: 10.5176/2301-394X_ACE19.613).
26. Khan Abdur Raouf, Nand Kumar, Tarush Chandra, “**Case Study of Energy Consumption and Carbon Emissions in Lucknow City Based on System Dynamic Approach.**” The 38th International system dynamics conference of System Dynamic Society, 2020, New York USA
27. Manish Sharma, Dr. Nand Kumar and Dr. Ashwani Kumar, 2021, **Existing**

Resilience Framework for Disaster Risk Management in India, 5th World Congress on Disaster Management (WCDM), November 24-27, 2021 Delhi [ISBN 9781032355429].

28. Manish Sharma, Nand Kumar, Ashwani Kumar, Bansari Sharma, 2021, **Urban Water Resilience in Landscape of Digitally Connected Built Environment: An Assessment Matrix for Cities of Developing Nations**, First International conference on technologies for smart green connected society 2021, 29-30 November 2021 Hyderabad India [<https://doi.org/10.1149/10701.18457ecst>].
29. Khan Abdur Raof, Nand Kumar, Tarush Chandra, “**Examining the Potentialities of Intelligent Transportation System in Improving the Transportation Facilities of Lucknow City.**” The 1st International conference on infrastructure Development (ICID); Theory Practice and Policy, April 29-30, 2021, by Adani Institute of Infrastructure Management. ISBN; 978-81-952843-4-4(e Book)
30. Sharma Manish, Sharma Bansari, Kumar Nand, Kumar Ashwani, 2022, **Water Stress: Vulnerable Urban Areas**, International Conference of Creative Future (ICCF’22), May 20-21, 2022 MU Jaipur.
31. Sangwan Akanksha, Kumar Nand, Kumar Ashwani, 2022, **Dialogues and Advocacy for Sustainable Urban Greenspaces in the Urban Planning Process**, International Conference of Creative Future (ICCF’22), May 20-21, 2022 MU Jaipur.
32. Kshitiz Agarwal, Priya tyagi, Dr. Nand kumar (2022). **Analysis of Public Awareness about District Disaster Management Plan: A Case of Dehradun City.** International Conference on Multidisciplinary Aspects of Design. Enhancing the Connections K.R. Mangalam University 24th June 2022.
33. Pushpendra CK, Kumar N, Lamba R, Nirwal V., "A **Parametric Optimization for Decision Making of Building Envelope Design: A Case Study of High-Rise Residential Building in Jaipur (India).**," International Conference on Advances in Energy Research (ICAER) by: Springer at IIT Bombay (Online) / 1-10 / 2022.
34. Somya Mahlawat, Nand Kumar, Satish Pipralia, "A **Review of Sustainability Lessons by Revisiting Traditional Built Environments**", International Conference on Future Cities by: IIT Roorkee at IIT Roorkee // 2022.
35. Pushpendra K, Kumar N, Lamba R, **Retrofitting Strategies Towards Enhancing Visual Comfort for An Institutional Building: Optimizing Daylight, Uniformity and Glare in Grasshopper-** 2nd International Conference on Innovations in Clean Energy Technologies 8th to 10th April 2023- MANIT Bhopal.
36. Pushpendra K, Kumar N, Lamba R, **Multi-Objective Optimization-Based Methodological Framework for Net Zero Energy Building Design in India-** International Conference on Artificial Intelligence, Blockchain, Computing and Security, 24-25 Feb 2023.

37. Pushpendra K, Kumar N, Lamba R, **Assessment of Green Rating Systems in India: Barriers to Urban Development**, ICUT-2023, International Conference on Urban Transformation for Climate Change Adaptation- 15-16 June 2023.
38. Pushpendra K, Kumar N, Lamba R, **Exploring the Status of Urban Greenspaces in Indian Cities: An Analysis of Master Plan Documents and Recommendations for Improvement**, ICUT-2023: International Conference on Urban Transformation for Climate Change Adaptation- 15-16 June 2023.
39. S. Choudhary, S. Pipralia, N. Kumar (2020) **Reforming significance of Historic buildings with Energy Efficiency Studies: A case study of Indo Saracenic buildings in Jaipur, Rajasthan**. Preliminary acceptance received, 4th Edition CITTA 2020, IEREK's International conference.

C. Author/ Co-author of book chapter, reference material:

1. Parul Bhyan, Nand kumar, Bhavna Srivasatava, (2021). **Behavioral Factors Affecting the Adoption of Sustainable Housing Practices: Indian Context**” in Advanced Aspects of Engineering Research Vol. 14, 20 May 2021, Page 92-97.
2. Parul Bhyan, Nand kumar, Bhavna Srivastava, **Requisite Sustainable Development Contemplating Buildings: Economic and Environment Sustainability.**” Addressing Environmental Challenges Through Spatial Planning (pages 269-288).
3. Bhavna Shrivastava, Nand kumar, Priya Tyagi (2022). **Expedition of Architectural Design to Virtual Reality and Digital Design**. ISBN: 978-93-5547-244-1, eBook ISBN: 978-93-5547-245-8. DOI: 10.9734/bpi/nvst/v10/5274F.
4. Manish Sharma, Nand Kumar, Ashwani Kumar (2022). **Existing Resilience Framework for Disaster Risk Management in India**. Routledge Publication. 5th World Congress on Disaster Management: Volume I. ISBN- 9781003341956
5. Bhyan, P., Tyagi, P., Doddamani, S., Kumar, N., & Shrivastava, B. (2023). **Life Cycle Assessment of Lightweight and Sustainable Materials**. Elsevier (pp. 117–142). <https://doi.org/10.1016/B978-0-323-95189-0.00013-5>.
6. Akanksha Sangwan, Nand Kumar and Ashwani Kumar (2023). **Dialogues and Advocacy for Sustainable Urban Greenspaces in the Urban Planning Process**. Cambridge Scholars Publishing. ISBN- 1-5275-1253-3.

D. List of Books Published /Edited

1. Edited International Conference proceedings on **Urban Sustainability: Emerging Trends, Themes, Concepts & Practices**, MNIT Jaipur, March 16th – 18th, ISBN: 978-93-86238-48-1(co-editors Dr. Tarush Chandra, Dr. Ashwani Kumar, Dr. Nand Kumar and Dr. Pooja Nigam) published by Excellent Publishing House India.
2. Edited conference proceedings on **‘Urban Environmental Management in India: Problems and Prospects’** (2017), ISBN No. 978-93-86238-12-2(co-editors Dr.

Tarush Chandra, Dr. Ashwani Kumar, Dr. Nand Kumar, Dr. Pooja Nigam and Ar. Niruti Gupta), published by Excellent Publishing house India.

3. Kumar, N., & Chetiwal, S. (2017). **The Urban Challenge: An Assessment of Public Transportation Systems**. Germany: LAP Lambert Academic Publishing, ISBN 978-620-2-07877-1.
4. Kumar, N., & Devadas, V. (2017). **Planning for Sustainable Development of Walled City Area of Jaipur**. Germany: LAP Lambert Academic Publishing, ISBN 978-3-659-59680-3.
5. Kumar, N., & Kashmiri, A. (2017). **Planning Guidelines for Developing Industrial Areas in Jaipur**. Germany: LAP Lambert Academic Publishing, ISBN 978-620-2-07124-6.

18. International and National Conferences Organized

1. Organized National Conference on ‘**Urban Environmental Management in India: Problems and Prospects**’ on 20th and 21st January 2017 at Department of Architecture and Planning, MNIT Jaipur
2. Organized International Conference on ‘**Urban Sustainability: Emerging Trends, Themes, Concepts and Practices**’, from 16th to 18th March, 2018 at Department of Architecture and Planning, MNIT Jaipur.
3. International Level Conference on **International Conference on Future Cities-2019** at IIT Roorkee, India from 11-12-2019 to 13-13-2019.
4. Organized National Conference on ‘**CITIES 2050: Planning, Governance and Management**’, from 23rd to 24th July 2021 at Department of Architecture and Planning, MNIT Jaipur.
5. 1st International conference on “**Urban Transformation for Climate Change Adaptation**” from 6th -7th April 2023 at COEP technological university, Pune, India.

19. STTP/FDP/ Capacity Building Programs Organized Courses:

1. **Application of Remote Sensing and GIS in Urban Planning**; 11th – 15th March 2021, TEQIP-III sponsored; MNIT Jaipur.
2. **Formulation of City Master Plans and Use of Geospatial Technologies**; 21st – 25th Feb. 2020, TEQIP-III sponsored at MNIT Jaipur.
3. **System Dynamics Simulation & Research Techniques**; 31st Aug.- 4th September 2019, TEQIP-III sponsored at MNIT Jaipur.
4. **Indigenous Built Forms in Mountain Regions of India and Implementation of Building Codes**; HIA Ladakh from 17th – 21st June 2019.

5. **FDP on Sustainable and Energy Efficient Buildings**; Council of Architecture (COA) funded; 25th Feb. – 1st March 2019; MNIT Jaipur .
6. **Application of Remote Sensing and GIS in Preparation of Master Plan and Zonal Development Plan**; 31st Jan. - 4th Feb. 2019, TEQIP-III sponsored at MNIT Jaipur.
7. **Climate Responsive Design Development for Energy Efficient Buildings**; GIAN sponsored; 5th February- 9th February 2018; MNIT Jaipur
8. **Resource Sensitive Urban Design**; GIAN sponsored; 26th Feb.- 2nd March 2018; MNIT Jaipur.
9. **City Energy Management Modelling and Practices**; GIAN sponsored; 10th March- 14th March 2018; MNIT Jaipur
10. **Application of System Dynamics Modeling & Research Methodology**; TEQIP-III sponsored; 4th – 8th Sept.2018, at MNIT Jaipur.
11. FDP on **Vernacular Architecture and Traditional Constructional Practices in Hot and Dry Climate Region**, Council of Architecture (COA) funded, 21st - 25th May 2018; MNIT Jaipur.
12. FDP on **Development Regulations and Built Environment**, Council of Architecture (COA) funded, 22nd - 26th Jan.2018; MNIT Jaipur.
13. FDP on **Energy Efficient Building Design**, Council of Architecture (COA) funded, MNIT Jaipur 18th - 22nd December 2017.

20. Summer/Winter Schools Attended

1. **Energy Conservation and Environment Management** in mini steel plant and foundry industries at MREC Jaipur in 2000.
2. **Seismic Design and Control Methods** at MNIT Jaipur in 2003
3. **Techno-Economic Aspect of Land Filing and Recycling** at MNIT Jaipur 2003
4. **Application for FEM for Structural Analysis** at MNIT 2004
5. **Remote Sensing and GIS Application Special** at IIT Roorkee in 2005
6. **Contemporary Trends in Interior Design** at IIT Roorkee in 2007
7. **Water Management: A Global perspective** at MNIT in 2007
8. **Urban Water Management** at MNIT in 2007
9. **Application Orientation in Engineering Mathematics** at MNIT in 2007
10. **Earthquake Resistant Design & Constitution** at MNIT in 2009
11. **Literature Review and Reference Management** at MNIT Jaipur in July 1-2, 2016
12. GIAN Programme: **Land Use / Land Cover Change Modelling and Prediction** at

MNIT Jaipur in July 4-8, 2016

13. GIAN Programme: **Housing for All**: An urban districts and area-based approach towards sustainability at IIT Roorkee in November 4-10, 2016
14. **Energy Efficient Building Design** at New Delhi in November 29-30, 2016
15. **Modeling Techniques for Sustainable Built Environment** at IIT Roorkee in March 17-19, 2017
16. GIAN Programme: **Low Carbon Built Environments**: Design approach and performance assessment at IIT Roorkee in April 9-18, 2017
17. GIAN Programme on **Urban Analysis** at IIT Roorkee in March 15-18, 2018.
18. **Urban Dynamics and Planning Techniques** at IIT Roorkee in June 26-30, 2017.

21. International Visit.

1. Visiting Guest Lecturer at Technische University, Darmstadt, for lecture series on **Urbano Course** between 15-october-2018 and 19 October 2018.

21. Advisory and Technical Committee Membership of Conferences

1. Co-chaired a session at International Conference on **Future Cities-2019**, 11th to 13th December 2019 IIT Roorkee
2. Member Technical committee and Review Committee for International Conference on **Future Cities-2019**, 11th to 13th December 2019 IIT Roorkee
3. Chaired a session at National Conference on '**Urban Environmental Management in India: Problems and Prospects**' on 20th and 21st January 2017 at Department of Architecture and Planning, MNIT Jaipur
4. Chaired a session International Conference on '**Urban Sustainability: Emerging Trends, Themes, Concepts and Practices**', from 16th to 18th March, 2018 at Department of Architecture and Planning, MNIT Jaipur.

22. Outreach Activities:

S. No.	Category	Name of Activity	Organization	Place	Position	Schedule
1.	National	Attending 10th GRIHA Summit	TERI	New Delhi	Participant	May-2018
2.	National	FDP	Shri Mata Vaishno Devi University	Katra	Speaker	Feb-2019

3.	National	Editing Process for ICFC-2019	IIT	Roorkee	Professional Activity	May-2019
4.	National	ICFC 2019	IIT	Roorkee	Technical Committee Member	May-2019
5.	National	Committee for Prevention of Accidents at Various Traffic Junctions	Jaipur Development Authority	Jaipur	Member	Sep-2019
6.	National	Question Paper Formation	Jagannath University	Jaipur	Paper Settler	Aug-2021
7.	National	Board Oo Studies	VGU	Jaipur	Member	May-2022

For more informational kindly logon to:

- i. **Google Scholar Link:** Dr. Nand Kumar - Google Scholar
- ii. **MNIT Profile Link:** Nand Kumar (mnit.ac.in)
- iii. **ORCID ID:** <https://orcid.org/0000-0002-0390-6831>
- iv. **Research gate:** <https://www.researchgate.net/profile/Nand-Kumar-19>

Signature of Applicant