

# Dr. Sonal Tiwari

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Name and Designation: Sonal Tiwari, Associate Professor, Department of Landscape Architecture

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Organization SPA Bhopal, School of Planning and Architecture, Neelbad Road, Bhauri, Bhopal - 462030

## Educational Qualification

PhD "Exploring Interrelationship of Traditional Livelihoods and Riparian landscape of River Narmada", SPA Bhopal, 2022

Masters in Landscape Architecture (M. L. Arch) CEPT University, Ahmedabad, 2008

Bachelor of Architecture (B.Arch) School Of Architecture , RGPV University , 2006, Indore

Certifications and courses

Leadership course in Biodiversity Conservation (LCBC), 2012 Bombay Natural History Society

Introductory course on climate change 2012

Disasters and ecosystems: Resilience in a changing climate 2014

## Professional Experience

- July 2011-present Assistant Professor, School of Planning and architecture, Bhopal
- Landscape Architect at Site Concepts International (Mumbai Office) (January 2010 – January 2011)
- Landscape Architect at Edifice Consultants Private Limited ( Mumbai Office) (July 2009 – January 2010)
- Landscape Architect at R.K. Associates Private Limited (September 2008- March 2009)
- Architectural training At Hiren Patel Associates, Ahmedabad

## Specialization and Expertise:

Landscape architecture, regional planning, ecological planning, water management, landscape conservation

## Affiliations:

Life member Bombay Natural History Society

Member Council of Architecture

Fellow Member Indian Society of Landscape Architects

Associate member Indian Institute of Architects

### Publications in last ten years

S.No.	Title of Paper	Authors	Publisher	Year of publication	Page number	ISBN/ISSN
1.	Investigating Urban Post-Industrial Landscapes in India: A Case of Kollam, Kerala	Ar. Sindhuja Sarasram <sup>1</sup> , Ar. Hind Haneefa <sup>2</sup> , Ar. Janaki S. Nair <sup>3</sup> , Ar. Mary Riannan <sup>4</sup> , Malavika Suresh <sup>5</sup> , Ar. Richa Rajee <sup>6</sup> and Dr. Sonal Tiwari <sup>7</sup>	The Architectural Science Association (ANZAScA)	2022	381-393	ISBN 978-0-9923835-8-9
2	Risk resilience in forest fires, Tadoba Andheri Tiger reserve (Maharashtra)	Ojaswini Sadhu, Sanzi Bajaj, Ashwini Ragit and Richa Raje, Sonal Tiwari, Anupama Bharti	International Conference on Climate and Weather-related Extremes (ICCWE 2022)	2022	134	ICCWE/2022/9750
3	Landscape Based Mitigation Proposals for Risk Resilience in Cyclone Hit Area of Pudimadaka, Vishakhapatnam	Shreya Singh, Bhagyasri S., Yakshi Dalal, Sonal Tiwari	Routledge	2023	4	ISBN 9781032355528
4	Landscape Based Mitigation Proposals for Risk Resilience in Flood Prone Area of Munroe Island, Kollam, Kerala	Hajara Hilal Yusuf, Driya G Hari, Fathima Anz, Sonal Tiwari	Routledge	2023	6	ISBN 9781032355528
5	Cyclone Risk Resilience and Disaster Management at the Mouth of Devi River, Orissa—A Landscape Design Based Approach	Tanya Kansal, Debleena Nath, Kashish Chandel, Sonal Tiwari.	Routledge Fifth World Congress on Disaster Management: Volume V	2023	8	ISBN 9781032355528

6	Causes and Mitigation for Risk Resilience in Landslide Prone Area-Kasol, Himachal Pradesh	Sanpreet Kaur Dua, Prabhsharan Singh, Rajshree Sakariya, Sonal Tiwari et al	Routledge	2023	49	ISBN 978103235552 8
7	Sacred and Cultural Manifestation of Vernacular Riverine Landscapes: A case of textile town of Maheshwar, India	Shivani Paliwal and Sonal Tiwari	School of Planning and Architecture, Bhopal, Re-Domestication Of The World After The Pandemic: A Re-Visit To The Origins And Manifestations Of Domesticity In Vernacular Settlements, Copal Publishing Group, International seminar on Vernacular settlements	2021	119-1 27	<b>ISBN:</b> 978-975-8401-8 2-6
8	Transformation in Vernacular Architecture of Baiga Tribe of Central India. In J. N. G. A. M. Suartika, <i>Reframing the Vernacular: Politics, Semiotics, and Representation</i>	Sonal Tiwari	Springer Nature Switzerland  <a href="https://link.springer.com/book/10.1007/978-3-030-22448-6">https://link.springer.com/book/10.1007/978-3-030-22448-6</a>	2020	107-1 26	ISBN 978-3-030-224 48-6
9	Interrelationship of traditional Livelihoods and biophysical environment of Narmada River Riparian zone in India in Asia	Sonal Tiwari	<i>Journal of the International Society for the Study of Vernacular Settlements</i> ISVS e journal  <a href="https://isvshome.com/pdf/ISVS_6-1/ISVSej6.1.2-Tiwari.pdf">https://isvshome.com/pdf/ISVS_6-1/ISVSej6.1.2-Tiwari.pdf</a>	2019	10-21	ISBN 978-3-030-224 48-6

10	Traditional Crafts as Livelihoods, Pandavad and Budni villages. <i>Mapping Living Tradition, XIV</i> (Indigenous Knowledge System)	Sonal Tiwari	DRONAH <a href="https://www.dronah.org/publications/current-issue/#">https://www.dronah.org/publications/current-issue/#</a>	2018	50-65	ISSN No : 0973-502X
11	Interrelationship of Traditional livelihoods & Riparian landscape of Narmada basin	EDA, PUBLICATIONS WITH PEER REVIEW ISSN [print version]: 2384-9576   MIUR E211002 ISSN [electronic version]: 2035-7982   MIUR E199789 INTERNATIONAL JOURNAL OF ARCHITECTURE AND ENGINEERING ANVUR – SCIENTIFIC JOURNAL				
12	Monitoring Impact of land use and land cover change in livelihood zones along the Narmada river Riparian Buffer zone, Madhya Pradesh in India	Sonal Tiwari	RSAI	2018		ISBN: 978-975-8401-82-6
13	Panch kosi Narmada Parikrama” Parikramas as a medium to experience landscape.	Sonal Tiwari	<i>Journal of Association of Asian Cultural Landscape Architects</i>	2014	34-44	

14	Housing Policy for Particularly Vulnerable Tribal Groups: A Case of Baiga Tribe in India,	Shikha Patidar, Sonal Tiwari	PLEA	2018	1097-1099	ISBN: 978-962-8272-36-5
15	Community priorities in heritage conservation, case of Tranquebar, India	Sonal Tiwari	Elsevier, SSRN	2018		ISSN 1556-5068
16	Mapping Changing Regional livelihood benefits from local ecosystem services in Cultural landscape of Hoshangabad	Sonal Tiwari	National Seminar on "Environmental Issues and Present Society: Challenges and Possibilities for its Preservation and Restoration" (December 21 and 22,)	2021		
17	A geospatial analysis of anthropogenic activities on River Narmada in India	Sonal Tiwari	Elsevier, SSRN	2018		ISSN 1556-5068
18	Designing healing outdoor spaces for Alzheimer's patients in India	Sonal Tiwari	Conference: Studies in Habitat with Academic Alliance in Planning Environment and Design (SHAAPED)	2020		

18	Ecological sustenance of vernacular settlements: A case of Baiga settlements in Amarkantak, in Madhya Pradesh in India	Sonal Tiwari	<i>International seminar on vernacular settlements , II</i>	2014	649-658	ISBN: 978-975-8401-82-6
20	Review of Approaches to Delineate Riparian Zones Journal of Landscape Architecture and Planning	Sonal Tiwari	International Journal of Landscape Planning and Architecture	2016	1-27	eISSN: 2456-5091
21	Identification of ecological open spaces of urban areas for smart city development: a case of Jabalpur city in India	Sonal Tiwari	International Journal of Urban Design	2018	23-43	eISSN: 2456-5091
22	Identification of Stressors and Their Impact on Riparian Zones	Sonal Tiwari	International Journal of Urban Design	2018	1-12	<b>eISSN: 2456-5091</b>
23	<i>Heritage landscape conservation: Tarangampadi, Auroville, Tamil Nadu.</i>	Sonal Tiwari	INTACH, CEPT Landscape Department, B. 2.-0.	2008		
24	<i>Sustainable tourism on mountainous region: A case study of Kullu Manali in</i>	Sonal Tiwari	IFLA	2015		

	<i>Himalayan ranges in India</i>					
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### Papers presented in International conferences

SN	Paper	Conference
1	Mapping Changing Regional livelihood benefits from local ecosystem services in Cultural landscape of Hoshangabad	National Seminar on “Environmental Issues and Present Society: Challenges and Possibilities for its Preservation and Restoration” (December 21 and 22, 2021)
2	Landscape based mitigation proposals for risk resilience in cyclone hit area of Pudimadaka, Vishakhapatnam	World Congress on Disaster Management (WCDM) 2021
3	Landscape based mitigation proposals for risk resilience in Flood prone area of Munroe Island, Kollam, Kerala	World Congress on Disaster Management (WCDM) 2021
4	Landslides-Land On The Run: Causes And Mitigation For Risk Resilience In Landslide Prone Area-Kasol, Himachal Pradesh	World Congress on Disaster Management (WCDM) 2021
5	Revitalizing the Integrity of Sacred Cultural Landscape of Old Bhubaneswar through green infrastructure development	Cultural Landscapes: transformations and emerging ideas 19 th – 20 th November 2021
6	Mapping Changing Regional livelihood benefits from local ecosystem services in Cultural landscape of Hoshangabad	National Seminar on “Environmental Issues and Present Society: Challenges and Possibilities for its Preservation and Restoration” (December 21 and 22, 2021)
7	Changes in cultural and structural linkages of sacred groves of India	International Conference & 52nd Annual Meet of the Regional Science Association, India.
8	Revitalizing the Integrity of Sacred Cultural Landscape of Old Bhubaneswar through green infrastructure development	Cultural Landscapes: transformations and emerging ideas ICOMOS, 19 th – 20 th November 2021
9	Ecological Landscape Planning for Lake Conservation: Case of Damdama Lake, Gurugram (Gurgaon) Haryana, India.	Cultural Landscapes: transformations and emerging ideas, ICOMOS 19 th – 20 th November 2021
10	"Monitoring impact of land use & land cover change in livelihood zones along the Narmada riparian zone , Madhya Pradesh, India"	June 2018, RSAI World Congress
11	Monitoring Changes in Land Use Land Cover in Periurban Areas Of Towns of Riparian Zone of Narmada River	December 2020, Asian Regional Conference on Peri urbanisation Sustainable Urban Rural Future,
12	Sacred and Cultural Manifestation of Vernacular Riverine Landscapes: A case of textile town of Maheshwar, India	February 2021, International seminar on Vernacular settlements,
13	Transformation in Vernacular architecture of Baiga tribe of Central India	Reframing the Vernacular: Politics, Semiotics and Representation

14	A landscape of Faith and hope “ A Case Of Healing Landscape Design Of Sambhavna A Model Clinic In Bhopal”	Amity University, 2019
15	"Interrelationships between indigenous traditional livelihoods and biophysical environment of Narmada River, in India"	ICCCS ISVS "International Seminar on vernacular settlements, Bali"
16	Transformation in Vernacular architecture of Baiga tribe of Central India	ICCCS ISVS "International Seminar on vernacular settlements, Bali"
17	Risk resilience in forest fires, Tadoba Andhar Tiger reserve (Maharashtra)	ICCWE/2022/9750  International Conference on Climate and Weather Related Extremes
18	Ecosystem conservation through sacred groves. Innovative energy technology system and environmental concerns: A sustainable approach .	Tiwari, S. (2014).
19	Tiwari, S. (2014). Landscape studio project: transformation of a polluted stream to an urban park.	Cities and water (p. 372). Incheon, South Korea: URBIO.
20	Tiwari, S. (2014). Sacred grove as conservation tools in riparian landscapes: case of Mai Ki Bagiya in Amarkantak	Cities and water, conservation restoration and biodiversity (p. 264). Incheon: URBIO.
21	Sustainable tourism on mountainous region: case study of Kullu Manali in Himalayan ranges in India	Sonal Tiwari IFLA 2015

### Poster Presentations

- Tiwari, S. (2014). “Panch kosi Narmada parikrama” Parikramas as medium to experience landscape. Seoul, Korea: ACLA Asian Cultural landscape architects association.
- Tiwari, S. (2014). Ecological sustenance of vernacular settlements: A case of Baiga settlements in Amarkantak, in Madhya Pradesh in India. *International seminar on vernacular settlements , II*, 649-658.
- Tiwari, S. (2014). Ecosystem conservation through sacred groves. *Innovative energy technology systems and environmental concerns: A sustainable approach .*
- Tiwari, S. (2014). Landscape studio project: transformation of a polluted stream to an urban park. *Cities and water* (p. 372). Incheon, South Korea: URBIO.
- Tiwari, S. (2014). Sacred grove as conservation tools in riparian landscapes: case of Mai Ki Bagiya in. *Cities and water, conservation restoration and biodiversity* (p. 264). Incheon: URBIO.
- Tiwari, S. (2014). Sacred grove as conservation tools in riparian landscapes: case of Mai Ki Bagiya in. *Cities and water* (p. 264). Incheon , South Korea: URBIO.
- “Impact of Agriculture on landscape” unpublished
- “Habitat fragmentation as a consequence of transport infrastructure” unpublished
- **Role of sacred groves in conserving Urban ecology, Paper presentation at ETSD2014, IIITM Gwalior**

**Monograph publications: Regional landscape study reports** (Academic projects)

1. Riparian zone Restoration
2. Reimagining Sacred Groves of India
3. Socio ecological restoration of water scapes of Braj
4. Campus Plan IISER Bhopal
5. Campus Plan: SPA Bhopal
6. Reimagining water edge of Bhoj Wetland
7. Historical landscape Management of Mandu
8. Re-envisioning urban landscape of Kota, Nagpur and Cochin
9. Landscape mitigation plan for disaster preparedness
10. Industrial Landscape management
11. Restoring Eco Cultural landscape of Braj
12. Regional landscape conservation monograph: Ujjain, Madhya Pradesh, India,
13. Regional landscape conservation monograph: Amarkantak, Madhya Pradesh, India
14. Urban lakes conservation: Jabalpur in Madhya Pradesh in IndiaLandscape conservation in Amarkantak
15. Conservation of urban lakes: case study of Hanuman Taal and Supa taal in Jabalpur

**Landscape architecture thesis:** "Identification of natural resources as potential open spaces in urban regions: Case study of Jabalpur City

**Bachelor of Architecture thesis:** Centre of special Education for mental disability