

RESEARCH INITIATIVES BY THE DEPARTMENT DURING 2012-16

1) Dr. (Prof.) Ila Gupta

**Submitted Research Proposals**

No.	Submitted Research Proposals	Co-Coordinator	Year	Funding Agency	Amount
1	Extensive Survey, Digital Archiving, Audio-Visual documentation, End User Experience and Revival of traditional 'ChambaRumal' embroidery of Himanchal Pradesh	-	2012-13	Ministry of Culture, New Delhi	30 lakhs
2	Empowering Rural Women Artisan of Uttarakhand through Technological Innovations and Interventions in Development and Marketing of Folk Art & Craft	-	2013-14	DST	
3.	(Modified) Empowering Rural Women Artisans of Uttarakhand through Technological Developments and Dissemination: Focus on Aipan Art of District Almora	Ms Smriti Saraswat	2014-2015	DST	Rs. 67 lakhs
4.	(Further-Modified) Empowering Rural Women Artisans of Uttarakhand through Design and Technology Interventions: Focus on Aepan Art of District Almora"	Ms Smriti Saraswat	2014-2015	DST	Rs.85 lakhs
5.	Mapping the Evolution of art and architecture in the gardens of Bundalekhand : A case study of Chatterpur and Tilamgarh Distt.	Dr P S Chani	August 2015	UGC	Rs. 17,55,000 Lakhs
6.	PRESERVING ART AND ARCHITECTURE OF	Ms Smriti Saraswat	April 2015	UGC	Rs 16,25,000

	HAVELIS OF SHEKHAWATI (Churu Region) THROUGH DOCUMENTATION AND DEVELOPMENT OF COURSE WORK,				Lakhs
7	IMPACT OF COLORS, SPACE DESIGN AND ARTIFACTS ON COGNITIVE HEALTH IN GOVERNMENT HOSPITALS OF UTTARAKHAND	-	Feb, 2016	IMPRINT Gov. of India	Rs. 101.34 Lakhs

### **QIP Course Coordinated**

S. No.	Course	Co- Coordinators	Year	Funding Agency
1	Recent Trends in Applications of Art in Architecture'	Dr P S Chani	2015	QIP, IITR

### **Published Book**

Inlay Designs in the Mughal Monuments”, Lap Lambert, Academic Publishing, USA, 2012. Co-authored by Pooja Sharma

2) Harshit Lakra

### **Research Projects**

1. Harshit S. Lakra (Principal Investigator ) along with Smriti Saraswat (Co-investigator) is executing a research project “ Model Village Development for Juang Tribe of Odisha through Public and Private Partnership” sponsored by HUDCO/HSMI. Project cost 22 lacs. The project is presently on its second phase. Project start year 2014. Project Duration 2 years.
2. Member of pilot documentation team for project “Dharohar” in Almora, Uttarakhand, India funded by Indian Institute of Technology Roorkee, as Co-investigator with Prof Smriti Saraswat (PI) from June 29, to July 6, 2014.
3. Working on research project “Dharohar”, India funded by Indian Institute of Technology Roorkee, as Co-investigator with Prof Smriti Saraswat (PI), Prof Ila Gupta (CI) - Project start June 2014.
4. Working on the research project titled “Case Studies of Ethnic Settlements of Jharkhand for Culture Based Planning” under the Faculty Initiation Grant, IIT Roorkee. Project cost Rs 7.50 lacs. Project start May 2013. Project is in its final stage.

5. Conceptualised and initiated research project on “Heritage Preservation of Solani Aqueduct with Community University Partnership (Gateway to upper Ganga Eco-system and Culture) Under Green Cities Project on 14<sup>th</sup> June 2014. Project has been principally approved by National Mission on Clean Ganga. Project Cost: 6 Crores. Project status: detail proposal submitted for further review; Project duration: 3 years from start of the project; Project team: Prof. Pushplata, Prof. Gaurav Raheja, Prof Smriti Saraswat, Prof Sanjay Chikermane, Prof Arindam Biswas.

### **Books / Monographs**

1. Developed manual for Measured Drawing Camp titled “Measured Drawing Camp Manual”, sponsored by Continuing Education Cell, Quality Improvement Programme, IIT Roorkee.
2. Book section: Book section: My Voice Matters in the book Opening Doors published by FORD Foundation in 2013; edited by Mansukhani Vivek and Handa Neera Lakshmi.

### **Research Publications**

1. Barbhuiya M. R., Lakra H.S. and Munoth N. (27-29 Jan 2016); Building Energy Concept for Sustainability: Case of Green Buildings; *BRICS - Evolution from Acronym to Global Power; Organized by BRICS International Forum and Russian Centre of Science and Culture at Russian Centre of Science and Culture, New Delhi, India.*
2. Lakra H.S. and Barbhuiya M. R. (27-29 Jan 2016); Interpreting State NGO Relationship in Jharkhand; *BRICS - Evolution from Acronym to Global Power; Organized by BRICS International Forum and Russian Centre of Science and Culture at Russian Centre of Science and Culture, New Delhi, India.*
3. Pingua S. and Lakra H.S. (Jan, 2016). Initiative for Improving Cycle Rickshaw Transport in India, Learning from Informal Settlements: Innovations, Issues and Values; *Spandrel, SPA Bhopal Publication.*
4. Barbhuiya M. R. and Lakra H. S. (18-19 Dec 2015); Culturally Appropriate Community Development Strategies for Juang Tribe of Odisha; *The 9<sup>o</sup> Study Day of INU, University of Naples Federico II, Naples, Italy.*
5. Lakra H.S. (11-13 Dec 2015); Vernacular Architecture Education: Defining, Professional Scope and Creating Inclination. *South Asian Vernacular Architecture, School of Planning and Architecture Bhopal, Bhopal, India.*
6. Barbhuiya M. R. and Lakra H. S. (11-13 Dec 2015); Water Management Strategies for Juang Settlements of Odisha, India; *South Asian Vernacular Architecture, School of Planning and Architecture Bhopal, Bhopal, India.*
7. Lakra H. S. and Barbhuiya M. R. (9-11 Dec 2015); Municipal Finance Management and Municipal Governance: A Comparative Study of Dehradoon, Haridwar, Gangtok and Shimla; *Municipalika 2015, Jaipur Exhibition and Convention Centre, Jaipur, India.*

8. Pothula S.S.K. and Lakra H.S. (Nov 19-22, 2015); Resilient Infrastructure for the Capital City Amravati; *Second World Congress on Disaster Management; Visakhapatnam, Andhra Pradesh; Organized by Government of Andhra Pradesh.*
9. Kasthala S. and Lakra H.S. (Nov 19-22, 2015). Disaster Preparedness for Mass Religious Gatherings in India -Learning from Case Studies. *Second World Congress on Disaster Management; Visakhapatnam, Andhra Pradesh; Organized by Government of Andhra Pradesh.*
10. Lakra H.S. and Garg P. (20-21 July 2015); Beholders of Stories: Contemplating Traditional Cities; *Eight Global Studies Conference, Imperial College London, United Kingdom.*
11. Barbhuiya M. R. and Lakra H. S. (20-21 July 2015); Juang, a Primitive Community of Odisha, their Culture, Development and Future Trajectories; *Eight Global Studies Conference, Imperial College London, United Kingdom.*
12. Abhishek K, Satheesh A and Lakra, H.S. (10-11 April 2015); Strategies of Physical Infrastructure Development for Sustainable Industrialization of Haridwar; *National Conference on Sustainable and Smart Cities (SSC-15) (p. 430); Surat, Gujarat: TEQIP.*

### 3) Smriti Saraswat

#### Research Projects

S. No.	Title of Project	Funding Agency	Financial Outlay	Year of Start & Duration	Name of P.I. and other investigators	Status
1.	Documenting Space-Making Crafts of Uttarakhand	IITR(FIG)	7.5 Lakhs	May 2013 3 Years	Smriti Saraswat	In Progress
2.	Model Village Development for Juang Tribe in Odisha	HUDCO	22.25 Lakhs	Mar 2014 2 Years	P.I. Harshit Lakra Co-P.I. Smriti Saraswat	In Progress
3.	<i>Dharohar</i> (Pilot Study: Almora)	IITR	01 Lakh	July 2014	P.I. Smriti Saraswat Co-P.I. Ms. Harshit Lakra	Completed
4.	<i>Dharohar</i> - Heritage Preservation in Uttarakhand: Art and Craft Workshops, a Medium	MHRD & JSDF MHRD	02 Crores	June 2014	P.I. Ms. Smriti Saraswat Co-P.I. Dr. Ila Gupta Dr. Gaurav Raheja Ms. Harshit Lakra	Submitted
5.	Heritage Conservation of Solani Aqueduct, Roorkee	MHRD	06 Crores	Feb 2015	Patron Pradipta Banerji P.I. Harshit Lakra Co – P.I.s Dr. Pushplata Dr. Gaurav Raheja Mr. Sanjay Chikermane Ms. Smriti Saraswat Dr. Arindam Biswas	Submitted and Under Review

6.	Empowering Rural Women Artisans of Uttarakhand through Technological Developments and Dissemination: Focus on <i>Aepan</i> Art of District Almora	DST	67.82 Lakhs	Jan 2015	P.I. Dr. Ila Gupta Co-P.I. Smriti Saraswat	Submitted and Under Review
7.	Safeguarding the Traditional Craftmanship of Almora and Pithoragarh through Documentation and Workshops (Focus on <i>Aepan</i> and <i>Likhai Kaam</i> )	MOC	13 lakhs	Apr 2015	P.I. Smriti Saraswat Co-P.I. Harshit Lakra Dr. Ila Gupta	Submitted and Under Review
8.	GIAN – Summer/Winter School	MHRD	7 lakhs	Sep 15	P.I. Smriti Saraswat Co-P.I. Jay Thakkar Maarit Saalolainen	Approved 03 <sup>rd</sup> Oct 16 to 10 <sup>th</sup> Oct 16
09.	SWAYAM – Online Courses	MHRD	Yet to be decided	Oct 15	P.I. Smriti Saraswat Co-P.I. Priyanka Mangaonkar Shaam pahapalkar	Submitted and Under Review

## Research Publications

### I) Books

#### *Published*

i) “**Stone Buildings of Gujarat**” – The book is published by School of Interior Design in collaboration with Gujarat Mineral Research and Development Society in the year 2010 (ISBN 81-904096-4-3)

**Authors:** Nimish Patel, Muktirajsinhji Chauhan, Bishakha Shome, Mansi G Shah, Eesha Agarwal, Chinmay Patel

The author had worked as a Research Assistant for this book. This book documents in detail stone buildings and allied artefacts from the earliest efforts through the golden period of the Solankis, the Sultanate and the Colonial periods and use of stone in contemporary times. The book is illustrated with pictures of almost all the significant stone buildings of Gujarat including religious places, tombs, cemeteries, memorials, educational buildings, palaces, modest dwellings, step wells, tanks, lakes and utility structures. It includes a brief note summarizing the chronological history of Gujarat's stone

buildings by six types and an exhaustive picture cataloguing of the components called elements in the assembly of stone buildings.

### *In Progress*

i) **“Narratives in Interior Architecture, Stone Crafts, a Medium”** with Lap-Lambert Publishing Ltd., Germany

## **II) Research Papers in Journals**

### *Published*

i) **“Radhasoami Samadh, Agra: Stone Crafts as medium of Narration”**, CONTEXT – Journal of the Development and Research Organisation for Nature, Arts and Heritage, Volume VIII, Issue 1, Spring/Summer 2011, pp 91-96

ii) **“Emerging Trends in Tall Building Design: Environmental Sustainability through Renewable Energy Technologies”**, International Journal of Civil Engineering and Architecture, January 2014, pp. 116-120, Co-Author: Ar. Arif Kamal

iii) Saraswat, Smriti. **“Revival of Crafts and Social Change: Case Study on Dholka”**, Springer, 2015, pp. 174 to 187

iv) Saraswat, Smriti. **“Craft, a Narrative Barometer for Interior-Architecture: Specific Focus on Stone Crafts of India”**, Springer, 2015, Pp. 353-62; Co-Author: Dr. Gaurav Raheja

## **III) Research Papers in Conferences**

### *Presented*

i) **“Stone Crafts in Interior Architecture: Traditional Systems of Space Making (Specific Reference to Radhasoami Samadh, Agra)”** – presented at the Fourth Global Stone Technology Forum (15Dec – 16Dec 2011), organized by Centre for Development of Stones (CDOS), and Federation of Indian Chambers of Commerce and Industry (FICCI), in Jaipur, India

ii) **“Technology, Innovation and Social Change: Crafts as an Important Conjunction”** – presented in the international conference on "Technology, Innovation and Social Change", organized and conducted by Tata Institute of Social Sciences, Mumbai, 22-24<sup>th</sup> January 2013

iii) **“Importance of Art in Interior-Architecture: Specific Reference to Art Works, City Palace Udaipur, India”** - presented in the international seminar on "Importance of Art and it's Inter-relationship with other subjects", organized and conducted by Faculty of Visual Art, Kumaun University, Almora during 06-07<sup>th</sup> October 2013

iv) **“Craft, a Narrative Barometer for Interior-Architecture: Specific Focus on Stone Crafts of India”** – presented at ICORD 2015, 05<sup>th</sup> International Conference on Research into Design, organized and conducted by Centre for Product Design and Manufacturing, IISC Bangalore during 07<sup>th</sup> – 9<sup>th</sup> January 2015

v) **“Koti Banal Architecture of Uttarakhand: Indigenous Realities and Community Involvement”** – presented at the International Conference on South Asian Vernacular Architecture, organized and conducted by School of Planning and Architecture, Bhopal, at Bhopal, during 11<sup>th</sup> – 13<sup>th</sup> Dec 15; Co-Authors: Gautam Mayuresh and Priyanka Mangaonkar

### ***Accepted***

i) **“Narratives in Interior Architecture: Stone Crafts as a Narrative Medium to understand Methodology in Crafts”** - Paper Abstract Selected by Association of Art Historians for a conference organized at University of Warwick (31Mar 11 to 02Apr 11) for a Session – “Telling Stories: Making Research Accessible through Display”

ii) **“Narratives in Interior Architecture: Stone Crafts, a Medium”** – on the basis of this work, the author was invited in 2012 International Conference on Narratives (15Mar - 17Mar 2012, Las Vegas) as the moderator for one of the panels - "Space, Place and Travel”

### **IV) Works selected in National Conventions**

#### ***Published***

i) **Post-Graduate Dissertation: “Narratives in Interior Architecture: Stone Crafts as a narrative medium for Radhasoami Samadh (Soami Bagh, Agra)”** - selected by Institute of Indian Interior Designers for their Ninth National Convention 2011: **“Reflections” – Heritage ‘n’ Interiors**, held during 04Feb 11 to 06Feb 11 in Jaipur, India

### **V) Articles/Essays in Periodicals**

#### ***Published***

i) **“Understanding Courtyard Design through Havelis of Rajasthan”** – published in the periodical of Institute of Indian Interior Designers (IIID) – INSITE, Sep 11, pp. 18-21

ii) **“India’s Art Kitli”** – published in the periodical of Institute of Indian Interior Designers (IIID) – INSITE, Nov.11, pp. 18-20

iii) **“Space Making Crafts”** – published in the periodical of Institute of Indian Interior Designers (IIID) – INSITE, Dec. 11, pp. 18-20

iv) **“The Nuances of Thikri Kaam”** - published in the periodical of Institute of Indian Interior Designers (IIID) – INSITE, Jan 12, pp. 18-20

v) **“Spiral: A Representation of Process and Growth”** - in the periodical of Institute of Indian Interior Designers (IIID) – INSITE, April 12, pp. 18-20

vi) **“Natural Stones”** – published in the periodical of Institute of Indian Interior Designers (IIID) – INSITE, June 12, pp. 18-20

vii) **“TILES”** – published in the periodical of Institute of Indian Interior Designers (IIID) – INSITE, Cover Story, Dec. 2012, pp. 24-30

viii) **“Bottle Bricks and the Esthetics of Sustainability”** – published in the magazine POOL, Indi-design Group, Issue 35, 2013, pp. 50-55

ix) **“Dharohar: A National Workshop on Craft and Skill Development for Sustainable Design”**, published in the periodical of Institute of Indian Interior Designers (IIID) – INSITE, Dec 15, pp. 40-43

## **VI) Reports/Monographs**

i) The author had worked on two monographs: one on **‘Woodturning and Lacquer Craft, Dholka, Ahmedabad’** and second on **‘Stone Crafts of Gujarat’** at Design Innovation and Craft Resource Centre (DICRC), CEPT University, Ahmedabad - They are published as e-monographs. These monographs are uploaded online on the DICRC website.

ii) **‘Dharohar’** – Understanding the Importance of Art in Interior-Architecture (specific focus on City Palace, Udaipur), published by QIP centre, IIT Roorkee

iii) **‘Sanchay’** - Art-Craft and Interior Architecture of Almora, draft monograph launched during Dharohar: a National Workshop on ‘Craft and Skill Development for Sustainable Design’, organised and conducted under the aegis of CUDD, IIT Roorkee, during 16<sup>th</sup> – 18<sup>th</sup> August 2015 (received approval and funding for upcoming final publication by QIP, IIT Roorkee during 2016-17)

## **VII) Poster Presentations**

i) **Poster based on Post-Graduate Dissertation: “Narratives in Interior Architecture: Stone Crafts as a narrative medium for Radhasoami Samadh (Soami Bagh, Agra)”** - presented in an International Seminar: **Samvad**, held during September 11 in Ahmedabad, India

ii) **Poster based on Post-Graduate Dissertation: “Narratives in Interior Architecture: Stone Crafts as a narrative medium for Radhasoami Samadh (Soami Bagh, Agra)”** - presented in an International exhibition, organized by Institute of Indian Interior Designers (IIID), during September 11 in Mumbai, India

iii) **Poster based on Post-Graduate Dissertation: “Narratives in Interior Architecture: Stone Crafts as a narrative medium for Radhasoami Samadh (Soami Bagh, Agra)”** - presented in the International Seminar – ‘Inside Future-Future Inside’, organized and conducted by School of Interior Design, CEPT University, Ahmedabad, during 19<sup>th</sup> – 22<sup>nd</sup> December 2015

iv) **Poster based on “Professional Work during 2012-2015”** - presented in the International Seminar – ‘Inside Future-Future Inside’, organized and conducted by School of Interior Design, CEPT University, Ahmedabad, during 19<sup>th</sup> – 22<sup>nd</sup> December 2015

4) Dr. Arindam Biswas

## **Research Projects**

1. Framework to Manage Construction and Governance of Smart City Building in India, Sponsored by NBCC.
2. RCUK-NIUA joint research on Urban Development, Sponsored by NIUA/MoUD



3. Comprehensive Capacity Building program, Sponsored by World Bank
4. Country Research on National and Regional planning framework and analysis of planning and development of NCR Delhi and Modinagar, India; Institute for Urban & Environmental Development, Japan (UED)
5. Measuring Inclusiveness of Indian Metropolitan Cities and Establish Inclusive Growth Index for Indian Cities within the Diversified Governance Framework. Sponsored by IIT Roorkee.
6. Unnat Bharat Abhiyan (Mission for Developing India), Supported by Ministry of Human Resource Development, Government of India; P.I. Dr. (Prof.) Pradeep Bhargava.
7. IMPRINT India (Impacting Research, Innovation, Technology for India), Preparation a comprehensive policy document for Sustainable Urban Design in India, Sponsored by Ministry of Human Resource Development, Government of India; P.I. Dr. (Prof.) Pradipta Banerji.
8. Heritage Preservation of Solani Aqueduct (Gateway to Upper Ganga Eco-System and Culture) with Community and Institute Partnership, Supported by Ministry of Human Resource Development, Government of India; Patron - Dr. (Prof.) Pradipta Banerji, P.I. Harshit Lakra