

RESUME

RICHA SINGH

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Objective:

Wish to explore my abilities in research with a sense of dedication towards my duties for the progress of the organization and country.

Educational Qualification:

- Ph.D : Studies on jute/glass fibres polymer composites using unsaturated polyester resin based network matrices, CSIR-Central Building Research Institute, Roorkee (2022).
- M.Sc. Chemistry, CCS University, Saharanpur (2008)
– First Division, 71% (obtained second rank in class)
- B.Sc. (Environmental Science), Kurukshetra University, Yamuna Nagar (2006) –
First Division, 70%
- Class XII, Saharanpur (2003)
- Class X, Saharanpur (2001)

Work Experience:

Employer Details:

1. Organization: CSIR-Central Building Research Institute, Roorkee

Designation: Project Fellow

Projects: I joined as a project fellow in CSIR- Central Building Research Institute, Roorkee under the project entitled “*Development of Technology for Bio-degradable Nursery pots from forest waste*” sponsored by the Ministry of Environment & Forest (Govt. of India), New Delhi. After the completion of project, I have joined in Supra institutional project entitled “*High performance materials and construction technologies for sustainable built space*” sponsored by the Planning Commission of India. Besides these, I was associated with industrial project entitled “*Evaluation of waterproofing compound*” and in-house project entitled “*Translucent concrete in buildings*”.

Technical Expertise:

- Synthesis of PU prepolymer.
- Experience of handling instruments like FTIR, Dynamic mechanical analyser, Differential scanning calorimetry, Rheometer, UTM, Planetary ball mill, Atomic force microscope, Hydraulic press.

Publications Details:

1. Richa Singh, B.Singh, M. Gupta and V.K.Singh. Mechanical Properties and Dimensional Stability of jute/ VER-isocyanate hybrid matrix composites, *Polymers and Polymer Composites*, Vol.29, pp.803-816, **2021**.
2. Richa Singh, B.Singh, M.Gupta and Hina Tarranum. Composite Building materials from natural fibers/agro-forest residues, *Indian Journal of Engineering and Material Sciences*, Vol.27, No.2, pp 137-149, **2020**
3. Richa Singh, B.Singh and Hina Tarannum. Mechanical properties of jute fiber reinforced UP/PU hybrid network composites, *Polymers and Polymer Composites*, Vol.27, pp 546-556, **2019**.

4. B.Singh, Hina Tarannum and Richa Singh. Advances in repair materials for strengthening of deteriorated buildings/structures, Conference on Advances in Repair and Rehabilitation of Concrete Structures, **2016**, Roorkee, India.
5. Brajeshwar Singh and Richa Singh. Jute Composites in Buildings, In: Cellulose and cellulose composites (Nova Science Publishers, USA) Chapter 9, pp 243-257, **2015**.
6. B.Singh, Richa Singh and Hina Tarannum. Performance of alkali treated jute/vinylester urethane composites under hygro/hydrothermal conditions, 2nd International Conference on Natural Fibers, held on 27-29 April, **2015** Azores Portugal.
7. Richa Singh and S.P.Agrawal. Review of biodegradable composites for buildings. *Civil Engineering & Construction Review*, Vol.24, pp 100-106, **2011**.
8. Two days Workshop on “Artificial Intelligence in Digital Pedagogy: Shaping the Future of Learning in HEIs” organized by Inter University Centre for Teacher Education, BHU, Varanasi on February 13-14, **2025**.
9. Two days workshop on “Instrumentation Enrichment: Tools for Basic Science Research organized by Dr. Ghanshyam Singh Mahavidyalaya, Varanasi in Collaboration with Chemistry Department, Institute of Science, BHU,Varanasi on February 2-3, **2026**.

Patent

B. Singh, Humaira Athar and Richa Singh, “Translucent Concrete composition using pre-treated plastic optical fibers for making building panels, facades and blocks and a process thereof” (*Indian patent: 201611042095 dated 09/12/2016*).

Personal Details:

Father’s Name:	Mr. Shashi Kumar
Sex:	Female
Nationality:	Indian
Marital Status:	Married
Language Known:	English, Hindi