

BIO-DATA

Name : Dr. Ran Bir Singh

Designation : Assistant Professor

Qualification : Ph.D., M. Tech., B. Tech.

Address : Room no. 113, SoET Block,
Department of Civil Engineering,
School of Engineering & Technology,
Central University of Haryana, Mahendergarh,
Haryana, India-123029.

Date of Birth : 27-07-1991

Email(s) : khatana27ranbir@gmail.com;
ranbirsingh@cuh.ac.in

Mobile no.(s) : +91-7982122672; 9467880529



Area of interests

Structural analysis, Reinforced concrete design, Rheology of concrete, Recycled aggregates, High-performance concrete, mineral admixtures, Supplementary cementitious materials, Thixotropy of concrete

Academic Qualifications

Degree	Year	Subject/Topic	University/Institution
Ph.D.	2019	Rheology of Self-Compacting Recycled Aggregate Concrete	I.I.T. Roorkee
M. Tech.	2015	Structural Engineering	N.I.T. Kurukshetra
B. Tech.	2013	Civil Engineering	D.C.R.U.S.T. Murthal

Work experience

Designation	Institute/University	From	To	Pay Scale
Assistant Professor	Central University of Haryana	17-01-2020	Till date	FPL-10
Lecturer	Govt. Polytechnic Education Society, Cheeka	21-02-2019	16-01-2020	FPL-9

Professional Recognition/ Award/ Prize/ Certificate, Fellowship

Sr. no.	Name of Award	Awarding Agency	Year
1	Life Member	Indian Concrete Institute	2020
2	International Travel Support (ITS)	SERB, New Delhi	2019
3	Associate Member	The Institution of Engineers (India)	2018
4	Graduate Member	The Institution of Fire Engineers, UK	2018
5	Fellowship for Ph.D.	MHRD, New Delhi	2015
6	Fellowship for M.Tech.	MHRD, New Delhi	2013

Courses Taught

- ✓ Structural Analysis-I
- ✓ Structural Analysis-II
- ✓ Building Construction and Materials
- ✓ Condition Assessment and Retrofitting of Structures

Administrative Responsibilities

- Coordinator Infrastructure, Central University of Haryana, 2020.
- M.Tech. Coordinator for Drafting and finalizing the M.Tech. Curriculum in Structural Engineering, CUH, 2021.
- Faculty Coordinator, Student's Chapter of the Institution of Engineers (India), CUH, 2020-2021.
- Convener in 7th Annual Convocation of the University, CUH, 2021.
- Member of the University Committee to Frame Full-fledged Policy for Undertaking Consultancy Projects by the Central University of Haryana, 2021.

Publications

SCI/Scopus Journals

- **Singh RB**, Singh B (2021) "Rheology of High-Volume Fly Ash Self-Compacting Recycled Aggregate Concrete", *Journal of Materials in Civil Engineering, American Society for Civil Engineers (ASCE)*, 33(10), [https://doi.org/10.1061/\(ASCE\)MT.1943-5533.0003907](https://doi.org/10.1061/(ASCE)MT.1943-5533.0003907)
- **Singh RB**, Debbarma S, Kumar N, Singh S (2021), "Hardened state behaviour of self-compacting concrete pavement mixes containing alternative aggregates and secondary binders", *Construction and Building Materials*, 266, 120624
- Riyar RL, Nazeer M, Kapoor K, **Singh RB**, Singh P (2020), "Hardened state behavior of beneficiated recycled aggregate concrete, *Journal of Sustainable Cement-Based Materials, Taylor and Francis*, DOI: [10.1080/21650373.2020.1864503](https://doi.org/10.1080/21650373.2020.1864503)

- **Singh RB** (2020), “Self-Compacting Concrete containing Ground Granulated Blast Furnace Slag: A review”, *The Indian Concrete Journal*, 94(12), pp.1-9.
- **Singh RB**, Singh B, Kumar N (2019) “Thixotropy of Self-compacting concrete containing recycled aggregates”, *Magazine of Concrete Research*, 71(1), pp. 14-25.
- **Singh RB**, Aggarwal P, Aggarwal Y (2019), “Utilization of super pozzolanic material in the production of self-compacting concrete”, *The Indian Concrete Journal*, 93(2), pp. 52-60.
- **Singh RB**, Singh B (2018) “Rheological behaviour of different grades of self-compacting concrete containing recycled aggregates”, *Construction and Building Materials*, 161, pp. 354-364.
- **Singh RB**, Kumar N, Singh B (2017) “Effect of supplementary cementitious materials on rheology of different grades of self-compacting concrete made with recycled aggregates”, *Journal of Advanced Concrete Technology*, 15, pp. 524-535.

Conferences/Seminars

- **Singh RB**, Singh B (2020) “Shear-thinning self-compacting concrete”, *74th RILEM Annual Week & 40th Cement and Concrete Science Conference*, The University of Sheffield, Sheffield, United Kingdom, Abstract ID: #461, 31 August-04 September, 2020.
- **Singh RB**, Singh B (2019) “Effect of fly ash and recycled aggregates on rheology of self-compacting concrete”, *2nd International RILEM conference on Rheology and processing of construction materials (RheoCon2) & 9th International RILEM Symposium on Self-Compacting Concrete (SCC9)*, TU Dresden, Germany. Paper ID: #84, 08-11 September, 2019.
- **Singh RB**, Singh B (2017) “Thixotropy of high-strength Self-compacting concrete made with recycled aggregates”, *15th NCB International Seminar on Cement, Concrete and Building materials*, New Delhi, India, Paper Id. - A175, 05-08 December, 2017.
- **Khatana RS**, Aggarwal P, Aggarwal Y (2015) “Effect of Alccofine on fresh and hardened properties of self-compacting concrete”, *National conference on Technological Innovations for Sustainable Infrastructure*, NIT Calicut. Paper Id.- T0052, 13-14 March, 2015.
- **Khatana RS**, Aggarwal P, Aggarwal Y (2014) “Self-Compacting Concrete using Supplementary Cementitious Materials: A Review”, *International conference on Recent Trend and Challenges in Civil Engineering*, MNNIT Allahabad, Paper Id.- 53, 12-14 December, 2014.