

# CURRICULUM VITAE

## SONAL BANCHHOR

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### CORRESPONDING ADDRESS:

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### EDUCATION QUALIFICATION:

Degree	Institute	Board/University	Year of Passing
PhD (Structures)	National Institute of Technology Raipur		Pursuing
Master's (M.Tech. in Structural Engineering)	Bhilai Institute of Technology, Durg	CSVTU, Bhilai, Chhattisgarh	2016 (Hons)
Bachelor's (B.E. in Civil Engineering)	Bhilai Institute of Technology, Durg	CSVTU, Bhilai, Chhattisgarh	2013
Higher Secondary Examination (12th Standard)	Swami Vivekananda Higher Secondary School, Raipur	Chhattisgarh Board of Secondary Education, Raipur	2009
High School Examination (10th Standard)	Swami Vivekananda Higher Secondary School, Raipur	Chhattisgarh Board of Secondary Education, Raipur	2007

### PAPER PUBLISHED IN INTERNATIONAL / NATIONAL JOURNAL

Sonal banchhor, MK Gupta International Journal of Engineering Sciences & Research Technology  
Experimental Investigation on Bolted cold formed steel angle under tension Date issued July 5  
2016 ISSN: 2277-9655 Impact factor 4.116

Sonal Banchhor, Meena Murmu sv deo International Journal of Advance Research ideas and  
innovations In Technology Role of mineral admixtures and chemical admixtures in concrete ISSN:  
2454-132X Impact factor 4.29 (Volume 4, Issue 6)

Sonal Banchhor, Meena Murmu sv deo International conference on Civil and Mechanical engineering A detailed review Alkali activated slag and flyash based concrete ISSN: 2456-1290 Volume 2, Issue 12, December 2017

Sonal Banchhor, Dr Meena Murmu, Dr Shirish V. Deo International journal of innovative technology and exploring engineering. Alkali-Activated Slag/ Fly Ash Concrete: Mechanism, Properties, Hydration Product and Curing Temperature ISSN: 2278:3075 (Scopus Index)

### **PAPER PUBLISHED IN INTERNATIONAL / NATIONAL CONFERENCES**

Sonal Banchhor, Meena Murmu, S V Deo, International conference on Civil and Mechanical engineering 2017 presented a paper titled A detailed review Alkali activated slag and flyash concrete at Gangtok.

National conference on Emerging Trends in Civil Engineering Presented a paper on Investigation on Bolted cold formed steel angle under tension at Bhilai Institute of Technology Durg (C.G.)

### **PROFESSIONAL MEMBERSHIP:**

Associate Member of Institution of Engineers (IEI) (India)

### **SEMINAR / WORKSHOP ATTENDED:**

Attended One-Day National Conference on Environmental and Sustainable Development-2019 on 21 February 2019 at NIT Raipur.

Attended "Two-Days Workshop on Energy Conservation and Building Codes-2017" on 2nd and 3rd February 2019 at NIT Raipur in Association with ECBC and CREDA.

Attended "National Workshop on National Building Code of India 2016" organized by Indian Building Congress at Raipur on 13-14 July 2018.

Attended one week short term training programme on Application of Research Methodology, Tools and Techniques on 21<sup>st</sup> Nov to 25<sup>th</sup> Nov 2016.

Attended one week TEOIP-III SPONSORED SHORT TERM TRAINING PROGRAMME ON Intellectual Property Rights for Research (IPRR 2018)

## **PROFESSIONAL EXPERIENCE**

- **Assistant Professor** (Feb 2020 – Present) , Department of Civil Engineering, Guru Ghasidas Central University, Bilaspur, (C.G)
- **Research Scholar** in National Institute of Technology Raipur Aug 2016
- **Assistant Professor** (Jan 2016 – Aug 2016) , Bhilai Institute of Technolgy, Durg, (C.G)

## **PROJECTS**

### **PhD: Experimental investigation on alkali activated slag and fly ash concrete**

**Alkali Activated Material** has a significant ability for consumption not only in the building industry. Their pervasive utilization in building practice prohibits the need for considerable technological discipline. During the alkaline activation process, the cessation of which ultimately leads to significant fluctuations in the values of monitored parameters. The broad application of AAC is also obstructed because of the absence of a standard for testing, using liquid activator and the moderate approach. Builders are anxious about utilizing these AAM. Because of the prerequisite of sustainable advancement and conservation of mineral resources. A growth of products in the market based on alkali-activated systems is expected slightly in a brief timeframe. In 1999-2000, researchers in Ukraine inspected few structures developed using AAS cement, among which it is worth featuring diverse structure, for instance, silage pits, railway embankments, structures up to 15<sup>th</sup> floor etc. In such cases, AASC was effective and demolish the Portland cement concrete performance utilized in a similar region. Diverse applications were urbanized by Australian and Spanish scientists using AAF concrete: channeling pipes and railroad ties.

### **M.E: Experimental Investigation of Bolted Cold Formed Steel Angle Under Tension**

Tension members are used in a variety of structures such as trusses, transmission towers etc. The most widely used structural shapes are the angle sections and the channel sections. Angle may use as single angle or double angles and the connection may be bolted or welded. Most of the design provisions for hot- rolled tension members are available and only few studies were reported in literature regarding behavior of cold formed steel bolted angle tension members. The main objective of this study is to investigate the behavior of cold steel single and double angle subjected to tension. Experimental, theoretical investigations were carried out for single angle, double angle connected to opposite sides of gusset plates and double angle connected to same side of gusset plates.

### **B.E. Green Concrete for the future**