Resume

Akshay Ramesh Bura

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OBJECTIVE

To be in a position where I can maximize my potentials as a productive and active individual giving quality performance at all times for the attainment of the goals in the field of academics and research.

PERSONAL DETAILS

Full name	Akshay Ramesh Bura
Date of Birth	11th Feb 1991
Gender	Male
Nationality	Indian
Mailing Address	AS-12, Raman Bhawan, SVNIT campus, Surat, Gujarat 395007
Permanent Address	C/o Ramesh Ambadas Bura 102, UTKARSHA-B Appt., Borude mala, Ahmednagar, Maharashtra 414003

EDUCATION

Ph.D.

- Department of Civil Engineering, Sardar Vallabhbhai National Institute of Technology Surat, Gujarat, India. July 2017 – till date.
- **Research Area:** Carbonation induced corrosion in reinforced natural zeolite contained concrete.

M. TECH. (Structural Engineering)

- Department of Civil Engineering, Indian Institute of Technology Guwahati, Assam, India. July 2012 – July 2014.
- **Dissertation title:** Effect of replacement level of fly ash on strength and chloride induced. corrosion of steel reinforcement in concrete.

B. TECH. (Civil Engineering)

- Department of Civil Engineering, Walchand college of Engineering Sangli, Maharashtra, India. June 2008 – May 2012
- **Dissertation title:** Utilization of sugarcane Bagasse ash in concrete.

WORKING EXPERIENCE

1. Worked as an Assistant Professor in the Civil Engineering Department at Vishwakarma Institute of Information Technology Pune, Maharashtra, India. August 2014 – July 2017.
   Subjects Taught: Engineering Mechanics, Structural Analysis I and II, Concrete Technology, Advanced Concrete Technology.
   Positions of Responsibilities held: Oral Examiner for Savitribai Phule Pune University, Subject coordinator for Advanced concrete technology, Faculty advisor for technical events, Project supervisor for undergraduate students.

RESEARCH INTEREST

1. Chloride and carbonation induced corrosion in reinforced concrete structures.
2. Durability of reinforced cement concrete.
3. Strength and durability studies on cement concrete added with secondary cementitious materials.
4. Micro-structural studies of cement-based materials.
5. Electrochemical studies of reinforced cement concrete.

PUBLICATIONS

Journals

1. Bura Akshay Ramesh, and B. Kondraivendhan. "Effect of Accelerated Carbonation on the Performance of Concrete Containing Natural Zeolite." *Journal of Materials in Civil Engineering (ASCE),* Vol. 32, No. 4,2020, pp. 04020037.
2. Akshay Ramesh Bura and B. Kondraivendhan. “An accelerated carbonation and its effect on concrete containing natural zeolite.” *Innovative Infrastructure Solution,* Vol. 7, No. 194, 2022.
3. Bura Akshay Ramesh, and B. Kondraivendhan. "An Alternative Technique for Accelerated Carbonation of Normal Concrete." *IOP Conference Series: Materials Science and Engineering*, V. 829, No. 1, 2020, pp. 012019.
4. Akshay Ramesh Bura and B. Kondraivendhan. “A Novel process of CO_2 reduction and CO_2 sequestration through an innovative accelerated carbonation technique.” *Journal of Wuhan University of Technology-Mater. Sci. Ed.* (Accepted for publication).

Conferences

1. Bura, A. and Kondraivendhan, B. "Various Techniques of CO_2 Sequestration in Concrete – A Review." Structural Engineering Convention (SEC'18), Jadavpur University, Kolkata, India, 2018.
2. Akshay Ramesh Bura and B. Kondraivendhan. "Study of Accelerated Carbonation performance of concrete containing Natural zeolite with the help of Electrochemical Impedance Spectroscopy." International Conference on Sustainable Building Materials and Construction (ICSBMC 2021), SVNIT Surat, Gujarat, India, 2021.
3. Akshay Ramesh Bura and B. Kondraivendhan. "Effect of an innovative accelerated carbonation technique on the performance of rebar in natural zeolite-contained concrete." *CORCON 2021* – 27th International Conference on Corrosion, NACE India, 2021.

AWARDS & RECOGNITION

- Received NACE Foundation India Scholarship 2021 of INR 1,50,000 from NACE International Foundation, Houston, United States.
- Received Best Young Researcher Presentation Award in International Conference on Sustainable Building Materials and Construction (ICSBMC) - 2021, SVNIT Surat, Gujarat, India, 2021.
- Received MHRD scholarship for pursuing Ph.D. at SVNIT Surat, Gujarat, India during July 2017- July 2022
- Received MHRD scholarship for pursuing M.Tech at IIT Guwahati, India during July 2012- July 2014

I hereby declare that, all information provided above is true, complete and correct to the best of my knowledge and belief.

Akshay Ramesh Bura