



JULY 2025 ISSUE



Department of Civil Engineering



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Prof. Bandita Barman, Assistant Professor

Student Coordinator

Satyam Tiwari & Ravi Kumar Mishra

Contact

E-mail : ce@iitism.ac.in | Phone : +91-326-2235289

NEWSLETTER

An Insight into the Department of Civil Engineering. Exploring Key Events, Research Highlights and Sustainable Initiative - July 2025 Issue.

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MESSAGE *from the* HOD's Desk



Dear all,

Welcome to the July edition of our departmental newsletter "CiviLens"! This newsletter serves as a platform to unveil our achievements and keep you informed about the major events, publications, R&D projects of our Research, Academics, and outreach activities.

These events and activities underline the academic, research, and extracurricular ecosystem at Department of Civil Engineering of IIT (ISM) Dhanbad.

It gives me great satisfaction and pleasure to perceive the achievements of the Department of Civil Engineering with incessant efforts from dynamic faculty colleagues, talented research scholars duly supported by dedicated technical staff members.

Best Wishes!

Prof. Srinivas Pasupuleti



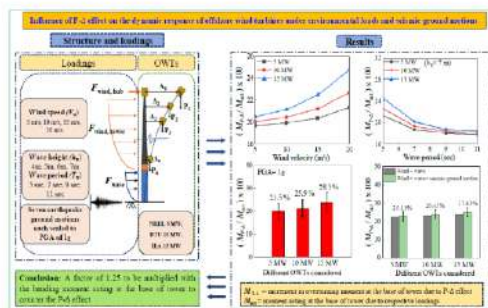
Publications

Journals

Sahu, S. K., & Dutta, S. C. (2025).

Influence of P- Δ effect on the dynamic response of offshore wind turbines under environmental loads and seismic ground motions. *International Journal of Mechanical Sciences*, 110638 (Q1, I.F.:9.4).

<https://doi.org/10.1016/j.ijmecsci.2025.110638>



Ansari, F. A., Pani, A., Oh, S., & Mohapatra, S. S. (2025).

Systematic review and meta-analysis exploring safety performance measures of work zone. *International Journal of Injury Control and Safety Promotion*, 1–14 (I.F.: 2.0).

<https://doi.org/10.1080/17457300.2025.2537684>

Jana, K., Sarkar, R., & Bhattacharya, S. (2025). Effects of liquefaction on seismic fragility of monopile-supported multi-megawatt offshore wind turbines for Indian coastal regions. *Structures*, Elsevier, 80: 109694 (IF 4.3).

<https://doi.org/10.1016/j.istruc.2025.109694>

Book

Seismic Hazard Analyses, Wave Propagation and Site Characterization: Select Proceedings of 8th ICORAGEE 2024, Kumar, Abhishek, Sarkar, Rajib, Maheshwari, B.K.(Eds.), Springer Nature, 2025, ISBN: 978-981-96-1354-0.

DOI: <https://doi.org/10.1007/978-981-96-1352-6>.

Seismic Design and Performance of Structures, Soil-Structure Interaction: Select Proceedings of 8th ICORAGEE 2024, Maheshwari, B.K., Sarkar, Rajib, Kumar, Abhishek (Eds.), Springer Nature, 2025, ISBN: 978-981-96-2098-2.

DOI: <https://doi.org/10.1007/978-981-96-2096-8>.

R&D and Consultancy Project

Sl. No.	PI/Co-PI or CI/Co-CI	Project Title	Status	Project Value (Lakhs)	Funding Agency
1.	CI: Prof. Tanish Dey, CE Co-CI: Prof. S. Chakraborty, CE Co-CI: Prof. Sanket Nayak, CE	To Provide Structural Safety Audit of Old Structural (IPD Block) of Rajendra Institute of Medical Sciences (RIMS)	Ongoing (Consultancy Project)	Rs. 22.42	M/s Jharkhand State Building Construction Corporation Limited, Ranchi
2.	CI: Prof. Rajib Sarkar, CE	Scientific Study on Slope Stability for Lasarda Pacheri Iron & Manganese Mine	Ongoing (Consultancy Project)	Rs. 05.90	M/s Thriveni Earthmovers Pvt. Ltd., Salem
3.	CI: Prof. Sanket Nayak, CE Co-CI: Prof. Tanish Dey, CE Co-CI: Prof. S. S. Mohapatra, CE	Structural Vetting for Buildings Constructed at IIT Bhubaneswar	Ongoing (Consultancy Project)	Rs. 11.80	M/s NBCC India Ltd., Bhubaneswar

Individual Faculty Achievement

Prof. Satadru Das Adhikary acted as an External Expert Peer Review Committee member for evaluation of Research Proposal of CFEES-DRDO Delhi in July 2025.

Rajib Sarkar: Appointed as the Editor of the ISET Journal of Earthquake Technology for the term 2025-2027.

Outreach Activities

Lecture

Prof. Satadru Das Adhikary delivered a lecture (online) at Short Term Course on "Sustainable Applications and Research Perspectives in Civil Engineering" on 08 July 2025 at NIT Jalandhar.

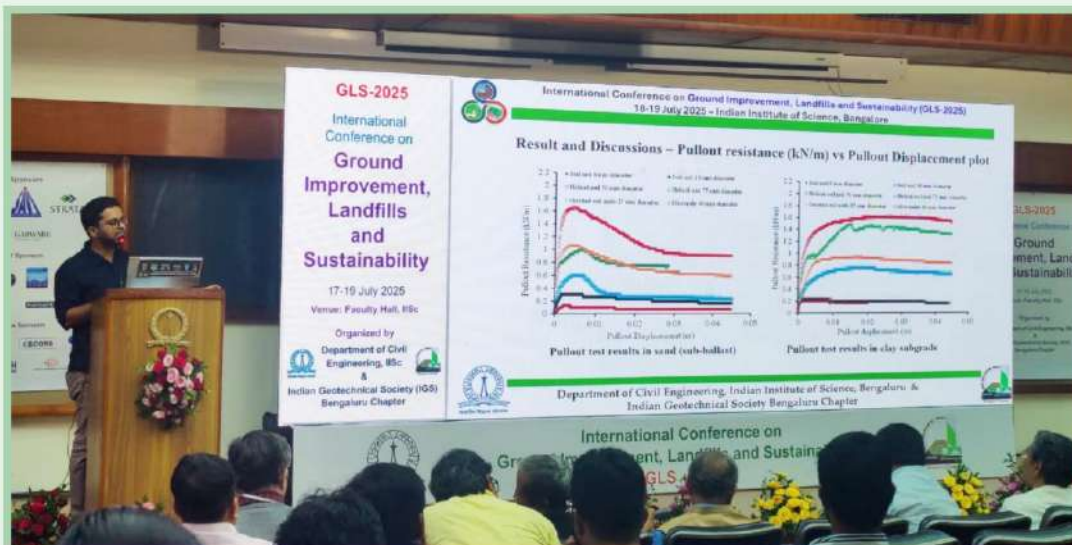
PhD Thesis Awarded

Awardee	Supervisor	Thesis Title	Submitted/ Awarded
Mr. Subham Jena	Prof. V. N. Khatri	"Application of surface modified sisal geotextile in geotechnical engineering"	Awarded

Student Achievement

Conferences

The IGS Bengaluru Chapter, in association with the Department of Civil Engineering, IISc, organized the International Conference on Ground Improvement, Landfills and Sustainability (GLS-2025) on 18-19 July 2025 at IISc, Bengaluru. The event brought together experts, researchers, practitioners, and stakeholders to share knowledge and advancements in the geotechnical engineering domain. As a part of the ongoing research work at IIT(ISM) Dhanbad in the field of retrofitting existing railway tracks for higher speed and heavier axle load trains under the supervision of Prof. Sowmiya Chawla (IIT(ISM) Dhanbad) and Prof. J. S. Vinod (University of Wollongong, Australia), Rahul Abhishek presented on the topic "Pullout Resistance of Drilled Corrugated, Helical and Grouted Soil Nails, Micropiles in Sub-ballast and Clay Subgrade using Laboratory Investigations" highlighting the relative pullout performance of the different retrofitting measures in sand and clay subgrades.



Alumni Bites

From IIT (ISM) to Industry: Reflections from My Journey

Abhishek Kumar Singh

Director – RDCPL Green Pvt. Ltd.

Ex-HPCL Senior Officer

B.Tech. Civil Engineering, IIT (ISM) Dhanbad

Class of 2014–2018



Looking back, my years at the Department of Civil Engineering, IIT(ISM) Dhanbad, were among the most formative chapters of my life, where the rich culture of academic rigor and the invaluable guidance of professors shaped my foundation for the professional world.

Getting placed through campus in Hindustan Petroleum Corporation Limited (HPCL) was a turning point, and my career with HPCL gave me the opportunity to work on large-scale industrial projects, instilling in me the discipline, professionalism, and exposure to complex project management that continue to guide me today.

I started my career by leading civil works for HPCL's Gas Bottling Plant at Harsiddhi, East Champaran. Later, as Projects In-charge at HPCL Biofuels Ltd., I had the opportunity to manage two integrated complexes consisting of sugar, ethanol, and co-gen power plants. Over 3+ years, I directed operations of a 3500 TCD sugar plant, 20 MW bagasse-based co-gen power plant, an 18,000 Nm³ biogas plant and a 60 KLPD ethanol plant, while also executing modernization and efficiency-driven projects. These experiences tested not only my technical knowledge but also the softer skills I had developed at ISM—teamwork, time management, and the ability to stay calm under pressure.

After resigning from HPCL, I ventured into entrepreneurship and founded RDCPL Green. With a focus on renewable and sustainable infrastructure, the company today has work orders worth ₹110 crores in the current financial year and is on track to achieve a turnover exceeding ₹100 crores. We are also embarking on an ambitious mission of setting up 10 CBG plants across India. What I treasure equally are the friendships and bonds formed during my college years. The support of peers, the guidance of mentors, and the collaborative spirit of the campus created a foundation that continues to give me strength in business and in service.

I remain deeply thankful to all my professors, especially Prof. S. D. Adhikary, Prof. S. Pasupuleti, Prof. S. Nayak, Prof. D. V., Prof. S. S. Mohapatra, and the entire department, whose unique approaches and belief in my abilities played a pivotal role in shaping me into who I am today.

To my juniors, I would say: cherish your years here. Focus not only on academic excellence but also on developing qualities like resilience, integrity, and teamwork. The degree you earn will open doors, but the values and habits you cultivate at IIT (ISM) will shape your ability to lead, create, and serve.

For me, IIT(ISM) was not just a college, it was the place that taught me how to think big, stay grounded, and pursue purpose with passion. Those lessons remain at the heart of everything I do today.

Alumni Bites

Memories, growth and evolution: My defining years at IIT(ISM), Dhanbad

Abhiroop Goswami, Ph.D.

Associate Scientific Editor, Elsevier

B.Tech. (Amity University Uttar Pradesh)

M.E. (Birla Institute of Technology, Mesra, Ranchi)

Ph.D. [Indian Institute of Technology (ISM), Dhanbad]

Batch of 2022



It is an absolute honour and a singular pleasure to have had been bestowed with this opportunity to reach out and connect with everyone here at the Indian Institute of Technology (Indian School of Mines), Dhanbad- the place where my journey took a significant leap forward. Having spent five full years here- i.e., from 2017 till 2022, I can state with full conviction that my time here was truly memorable and defining!

During these years, I had the privilege of learning from some of the most esteemed and exceptional faculty members- whose guidance shaped my professional and personal development. Here, at the very outset, I would like to take a moment to express my deepest gratitude to my adviser- Professor Satadru Das Adhikary. Professor Adhikary was not only an exemplary mentor and resolute teacher- but was also a wholeheartedly dedicated adviser- who genuinely invested in my growth. Professor Adhikary's continued guidance and unending encouragement were invaluable gifts- especially during the most challenging moments of my journey. Without Professor Adhikary's support- navigating those difficult times would have been far more daunting!

My time here, at IIT (ISM), Dhanbad, instilled in me with the intent to look beyond a problem. My time here- shaped me to perceive challenges- not as obstacles, but rather as opportunities- the potential gateways to innovation and growth! This disposition has been critical in my journey, especially as I have taken on my current role as an Associate Scientific Editor with Elsevier- which is both- extremely demanding but is also equally rewarding. I am truly grateful to my alma mater- IIT (ISM), Dhanbad, for this foundation. This has not only prepared me for the challenges of my profession but has also poised me to take on life's unpredictability