Veermata Jijabai Technological Institute (VJTI), Matunga, Mumbai-400019
Civil and Environmental Engineering Department

Name of the faculty	T. AISHWARYA
Designation	ASSISTANT PROFESSOR (ADHOC)
Qualification	Ph. D. in Civil Engineering Thesis submitted (June 2024) Indian Institute of Technology Bombay, Mumbai, Maharashtra, India • M. E. in Soil mechanics and Foundation Engineering Engineering College of Engineering, Guindy, Anna University, Chennai, Tamil Nadu, India June 2013 • B.E in Civil Engineering Thanthai Periyar Government Institute of technology, Tamil Nadu, India April 2010

Photo

Date of Joining VJTI	5th August 2024
Previous Experience	Assistant Professor (June 2013 – Dec 2014) Jeppiar Engineering College, Chennai, Tamil Nadu, India
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Area of Research	Bio mediated ground improvement Liquefaction susceptibility and cyclic instability of soils Microscopic analysis of soils
Subjects Taught	○ Soil Mechanics ○ Applied Geology ○ Foundation Engineering ○ Sustainable Development ○ Professional Ethics ○ Geotechnical Engineering Laboratory ○ Building Services Drawing Laboratory

Publications

Journal Publication		Conference Publication		Book Chapters
International	National	International	National	
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Journal Articles

1.Aishwarya, T. and Juneja, A. (2023). Impact of solution chemistry on morphology of enzyme-induced calcium carbonate precipitate. Emerging Materials Research, 12(4), 346-357.

	2.Aishwarya, T. and Juneja, A. (2024). Efficiency and Morphology of Calcium Carbonate Precipitate Induced by Urease Enzymes. Geotechnical and Geological Engineering, 42(2), 1153-1171. 3.Karandi, P. K., Aishwarya, T., Marbaniang, C., and Juneja, A. (2024). The effect of preparation of biocemented sand sample on its strength measured using direct shear tests. Proceedings of the Institution of Civil Engineers-Ground Improvement, 1-32. **Book Chapter** 1.Aishwarya, T., Siddharth Prabhu, N., and Juneja, A. (2019). Stress–Dilatancy Relation of Sea Deposits of Mumbai Coast. In Geotechnical Characterisation and Geoenvironmental Engineering: IGC 2016 Volume 1 (pp. 289-296). Springer Singapore. **Geotechnical special publication** 1.Aishwarya, T., and Juneja, A. (2018). Sand bonded with calcite precipitation under cyclic simple shear. In Geotechnical Earthquake Engineering and Soil Dynamics V (pp. 554-560). Reston, VA: American Society of Civil Engineers. **Peer reviewed international conference articles** 1.A. Juneja and T. Aishwarya (2019). Effect of particle crushing on the strength and dilatancy of offshore deposits. International conference on case histories and soil properties 5-6 Dec 2019, Singapore. 2.A. Juneja and T. Aishwarya (2019) “Prevention of liquefaction disaster using novel and eco-friendly approach” 4th world congress on disaster management, Mumbai **•Peer reviewed national conference articles** 1.Juneja, A., Aishwarya, T., Kumar, A. A*., and Christy, C. F. (2017) Bio cemented Sands. Indian Geotechnical conference 2017
Membership of Professional Body/ NGO	American Society of Civil Engineers (ASCE) Indian Geotechnical Society