Curriculum Vitae

Dr. Awdhesh Kumar Choudhary
Assistant Professor
Department of Civil Engineering
NIT Jamshedpur
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Education	**University/Institution/Board**	**Discipline**
Ph. D.	Indian Institute of Technology Kharagpur	Geotechnical Engineering
M. Tech.	Indian Institute of Technology Guwahati	Geotechnical Engineering
B. E.	North Maharastra University	Civil Engineering
Intermediate	B.I.E.C. Patna	Science
Matric	B.S.E.B. Patna	General

Work Experience	**Organization**	**From**	**To**	**Designation**
	NIT Jamshedpur	02/07/2018	Till date	Assistant Professor
	IISc Bangalore	30/01/2017	29/06/2018	Post-doctoral Fellow

Research

Post-Doctoral work

Title: Performance Improvement of Ground Anchors using Geosynthetics Reinforcement

Mentor: Prof. G. L. Sivakumar Babu, Indian Institute of Science Bangalore

Doctoral Thesis

Title: Pullout Behaviour of Vertical Plate Anchor Embedded in Geocell Reinforced Sand

Supervisor: Prof. Sujit kumar Dash, Indian Institute of Technology Kharagpur

Master Thesis

Title: Influence of Different Types of Soils on Soil-Geosynthetics Interaction Behaviour

Supervisor: Prof. A. Murali Krishna, Institute of Technology Guwahati

Sponsor research and consultancy

Project Title	Agency	Status	PI/Co-PI	Grant (Lakhs)
Analysis of Performance of Inclined Plate Anchors Embedded in Geosynthetics Reinforced Soils for Transmission Tower Foundations **(Sponsored Research).**	CPRI, Bangalore (Ministry of Power)	On going	Co-PI	34.89816
Role of Geosynthetics Reinforcement in Increasing the Stability of Buried Pipes in Soil Slopes	TEQIP III in the form of Minor Research (Seed) Grant	On going	PI	2.940

Publications

Journals

1. Mukherjeea S., Kumar L., Choudhary A. K. and Babu G.L.S. (2021). "Pullout resistance of inclined anchors embedded in geogrid reinforced sand." ***Geotextiles and Geomembranes***.doi.org/10.1016/j.geotexmem.2021.05.009.

2. Choudhary, A. K. and Dash, S. K. (2020). "Influence of soil density on performance of geocell-reinforced vertical anchor in sand." ***Geosynthetics International***. *https://doi.org/10.1680/jgein.20.00047*.

3. Choudhary, A. K., Pandit, B. and Babu, G.L.S (2019). "Experimental and Numerical Study on Square Anchor Plate Groups in Geogrid Reinforced Sand." ***Geosynthetics International***, 26, 657-671.

4. Choudhary, A. K., Pandit, B. and Babu, G.L.S (2019). "Uplift capacity of horizontal anchor plate in geocell reinforced sand." ***Geotextiles and Geomembranes***, 47, 203-216.

5. Dash, S. K. and Choudhary, A. K. (2019). "Pullout Behavior of Geocell-Reinforced Vertical Plate Anchors under Lateral Loading." ***Int. J. of Geomech.,*** **ASCE**, 2019, 19(8), 04019082-13.

6. Choudhary, A. K., Pandit, B. and Babu, G.L.S (2019). "Three-Dimensional Analysis of Vertical Square Anchor plate in Cohesionless Soil." ***Geomechanics and Geoengineering: An International Journa****l*, doi.org/10.1080/17486025.2019.1601265.

7. Choudhary, A.K. and Dash, S.K. (2018). "Pull-out behaviour of vertical plate anchor in granular soil." ***Proceedings of the Institution of Civil Engineers-Geotechnical Engineering***, 171(5), 379-390.

8. Dash, S. K. and Choudhary, A. K. (2018). "Geocell reinforcement for performance improvement of vertical plate anchors in sand." ***Geotextiles and Geomembranes***, 46, 214–225.

9. Choudhary, A. K., Pandit, B. and Babu, G.L.S (2018). "Three-Dimensional Analysis of Uplift Behaviour of Square Horizontal Anchor Plate in Frictional Soil." ***Int. J. of Geosynth. and Ground Eng***. 4(14), 1-9.

10. Choudhary, A.K. and Dash, S.K. (2017). "Load Carrying Mechanism of Vertical Plate Anchors in Sand", ***Int. J. of Geomech., ASCE***, 17(5), 04016116-12.

11. Choudhary, A. K. and Krishna, A. M. (2016). "Experimental Investigation of Interface Behaviour of Different Types of Granular Soil/Geosynthetics." ***Int. J. of Geosynth. and Ground Eng***. 2(4), 1-12.

Conferences

1. Naskar, S. and Choudhary, A.K. (2020). “Behavior of Buried Pipelines in Geosynthetics Reinforced Soil Slopes” Indian Geotechnical Conference, Andhra University Vishakhapatnam, India 2020.
2. Choudhury, A. and Choudhary, A.K. (2020). “Numerical Analysis on Interaction of Single Pile Tunnel System” Indian Geotechnical Conference, Andhra University Vishakhapatnam, India 2020.
3. Choudhury, A. and Choudhary, A.K. (2020). “Response of Pile Foundation underlain by a Single Tunnel system” Second ASCE India Conference on Challenges of Resilient and Sustainable Infrastructure Development in Emerging Economies" (CRSIDE2020)
4. Pratap, U., Choudhary, A.K., and Sinha, A.K. (2020). “Lateral Load Carrying Capacity of Vertical Micropiles” Indian Geotechnical Conference, Andhra University Vishakhapatnam, India 2020.
5. Muni, P. Choudhary, A.K., and Choudhary, A. (2019). “An Experimental Study on Improving the Performance of Silty Soil by Encased Granular Column Using Shredded Tire Chips, Indian Geotechnical Conference NIT Surat, India 2019.
6. Gupta, A., Choudhary, A.K., and Choudhary, A. (2019). “Experimental Investigation of Silty Soil Treated with Sodium Lignosulfonate” Indian Geotechnical Conference, NIT Surat, India 2019.
7. Choudhary, A.K., Pandit, B. and Babu, G.L.S. (2017). “Pullout Behaviour of Strip Anchor in Soil Using FLAC2D”, Proceedings of Indian Geotechnical Conference, IIT Guwahati, India 14-16 December 2017.
8. Choudhary, A. K. and Dash, S. K. (2014). “Pullout Behaviour of Vertical Plate Anchor Embedded in Sand.” e-Proceedings of Indian Geotechnical Conference 2014, Kakinada, India,18-20 December 2014, CD-ROM.
9. Choudhary, A. K. and Dash, S. K. (2013). “Uplift Behaviour of Horizontal Plate Anchor Embedded in Geocell-Reinforced Sand.” e-Proceedings of Indian Geotechnical Conference 2013, Roorkee, India, 22-24 December 2013
10. Choudhary, A. K. and A. Murali Krishna (2013). “Experimental Investigation of Interface Behavior of Different Types of Soil/Geosynthetics.” Indian Geotechnical Conference, Roorkee, India, 22-24 December 2013.
11. Awdhesh K, C. and Murali Krishna, A. (2011). “Soil-geosynthetics interaction properties for different types of soil.” Indian Geotechnical Conference, 15-17 December 2011, Kochi, Kerala, India.

Invited Lectures	• Deliver expert lecture under twining activity at WIT Dehradun from 10/10/2019 to 11/10/2019 • Deliver expert lecture (online) on "Career Opportunity through Research "at Sandip University, Nasik, Maharastra on 19/04/2020 • Expert lecture in three days online workshop (11/06/2020 to 13/06/2020) on "Advances in Construction Techniques and Materials at Nalanda College of Engineering, Chandi (Government) • Deliver two lectures in 5 Days Online Faculty Development Program on "Recent Trends & Research Opportunities in Civil Engineering Field" (17-21 August 2020) organised by Bhagalpur College of Engineering (Government)
Research Interests	• Anchored Structures • Reinforced Soil Structures • Ground Improvement • Foundation Engineering • Physical and Numerical Modeling
Teaching Experience	**UG course taught/teaching at NIT Jamshedpur** • Geotechnical Engineering-II, • Ground Improvement Techniques, • Environment and Ecology • Earth Retaining Structures **PG course taught/teaching at NIT Jamshedpur** • Ground Improvement Techniques
Computer Skills	• Computer Languages Known: C Language, Matlab • Software Packages: FLAC^{2D}, FLAC^{3D}, Plaxis, AutoCAD, Staad Pro, SPSS
Awards/ Achievements	• Secure AIR-364 in GATE Exam 2010 • Awarded with MHRD institute assistantship for M. Tech. in 2010-2012 • Awarded with MHRD institute assistantship for Ph. D. in 2012 to 2016 • Selected for the post-doctoral fellowship under NPDF scheme provided by DST-SERB from 2017 to 2019.
Thesis Guidance	**Ph.D. Thesis Guidance:** Three ongoing (Co-supervisor) **M.Tech. Thesis Guidance:** Three completed **B.Tech. Thesis Guidance:** Thirteen completed
Administrative and development works	• **Associate Dean**, Planning and Development Division at NIT Jamshedpur • Organised National Conference on "**Geo-Science and Geo-Structures**" (GSGS 2020) from 03-04 September 2020, at National Institute of Technology Jamshedpur. • Organised short term course on "**Geo-Systems and Geo-Materials**" (GSGM 2019) from 03-08 June 2019 • Faculty advisor for M.Tech. batch 2018-2020 at NIT Jamshedpur. • I worked as a core committee member for the NBA accreditation of the Civil Engineering Department • Proposed a new laboratory "Geosynthetics and Geoenvironmental Engineering" along with two other faculties in the Department of Civil

	Engineering at NIT Jamshedpur, which has been accepted and funding has been provided by TEQIP-III.
Professional	**Reviewer of journals/Conference:** Geotextiles and Geomembranes, Geosynthetics International, Soils and Foundation, Int. journal of geomechanics ASCE, European Journal of Environmental and Civil Engineering, Indian geotechnical conference, Innovative Infrastructure Solution, Cogent Engineering

References	**(i) Prof. Sujit Kumar Dash** Professor, Civil Engineering Department, Indian Institute of Technology Kharagpur, Dist-West Midnipur, West Bengal-721302, India Phone: +91 9475838112 Email: sujit@civil.iitkgp.ac.in **(iii) Dr. A. Murali Krishna** Associate Professor, Civil and Environment Engineering, IIT Tirupati, Tirupati-517 506, India Phone: +91 9435199213 Email: adapamk@gmail.com	**(ii) Prof. G. L. Sivakumar Babu** Professor, Department of Civil Engineering, Indian Institute of Science Bangalore, Bangalore-560012, India Phone: +91 9448480671 Email: glsivakumar@gmail.com

Declaration:

I hereby declare that the above mentioned information is correct to the best of my knowledge and I bear the responsibility for the correctness of the above mentioned particulars.

Awdhesh Kumar Choudhary