

DR. BALBIR KUMAR PANDEY

Département of Civil Engineering, Guru Ghasidas Vishwavidyalaya (A Central University),
Koni. Bilaspur 495009, C.G., India.

☎: +91-8866542160.

Email: balbir.pandey@ggu.ac.in; balbirpandey123@gmail.com



[Google Scholar](#); [LinkedIn](#)

Academic Qualification

Course of Study	Board/University	Marks (%)	Year of Passing
PhD* (Geotechnical Engg.)	Indian Institute of Technology Kanpur, Kanpur	7.55 (CPI)	2021
M.Tech[#] (Geotechnical Engg.)	S.V. National Institute of Technology, Surat	8.81 (CGPA)	2014
B. E[§] (Civil Engineering)	Rewa Engineering College, Rewa, M.P. (Rajiv Gandhi Technical University) Madhya Pradesh.	70.34	2011

**Ph.D. Thesis Title:* A Study on the Electrokinetics in Stone Columns Encased by Conductive Geotextile

[#]*M. Tech Thesis Title:* The Effects of Prestressed Geotextile-Reinforced Sand Supporting an Embedded Square Footing

[§]*UG Major Project:* Geotechnical Investigation for Proposed Govt. Polytechnic Building, Rewa (M.P.)

Teaching/Professional Experiences

1. Assistant Professor

Feb 2023 - Present

Guru Ghasidas Vishwavidyalaya, Koni, Bilaspur - 495009, C.G., India.

- UG Subjects: Geotechnical Engineering I & II, Organizational Behaviour (Management): Research methodology and IPR; Air and Noise Pollution and Control.

2. Assistant Professor

Dec 2021- Jan 2023

Shri Mata Vaishno Devi University, Kakryal, Katra - 182320, J & K, India.

- UG Subjects: Geotechnical Engineering-I & II (CEL2061& CEL2062); Advance Foundation Engineering (CEE 3064)

3. Assistant Professor

July 2021- Dec 2021

Sharda University, Greater Noida, Uttar Pradesh, India

- UG Subjects: Geotechnical Engineering-I (CVL325), Sustainable Development and Environmental Planning (CVL438), Surveying Lab (CVP225)

4. Tutor and Teaching Assistant

July 2015- July 2020

Indian Institute of Technology Kanpur, Kanpur, Uttar Pradesh

- Tutor: Mechanics of Solid (ESO202A) and Field Investigation laboratory (CE352A)
- Teaching Assistant: Mechanics of Solid (ESO202A), Advance Soil Mechanics (CE631A) and Geotechnical Investigations Lab (CE638A)

5. Assistant Professor

July 2014- July 2015

RK University, Rajkot, Gujarat

- UG Subjects: Fundamentals of Civil Engineering (CVL114), Concrete Technology (CV412), Geotechnical Engineering –I (CV509) & II (CV609)
- PG Subject: Safety Practices in Construction (CN112)

6. Teaching Assistant

July 2013- July 2014

SV National Institute of Technology, Surat, Gujarat

- Subject: Solid Mechanics (AM 203)
- Foundation Engineering (AM 633)

7. Graduate Engineer Trainee (GET-Civil)

July 2011- July 2012

DB Power Limited (Dainik Bhaskar Group), Jangir, Champa, Chhattisgarh

- Planning, Supervision, and Execution of Civil work (Boiler, ESP, and TG foundation; Powerhouse building and TG deck slab) of 2*600 MW Super thermal power plant
- Excavation and Construction of Raw water reservoir and Ash Pond

Research Interest

- Physical and Numerical Modelling of Geotechnical Problems
- Application of Geosynthetics and Ground Improvement
- Electrokinetics for Mining, Geotechnical, and Geoenvironmental Issues
- Energy Geotechnics

Grants (Awarded/ Submitted)

1. **GGV Seed Money Grant** on the topic “*Performance Evaluation of Soft-Clay Improved with Encased Stone Column Encased Considering Construction Aspects*” in the year **2023-24 (Principal Investigator; Status: Granted (Order Number: R&D Notification No: 354 Dated 29/03/2023))**

Guided B.Tech. Projects & Thesis

- **Ph.D. Thesis:** 01 (Ongoing)

S.No.	Name of Student @ Institute	Title	Time		Co-Guide (s) if Any
			start	Completion	
1	Vinod Kumar @ Guru Ghasidas Vishwavidyalaya, Bilaspur	Evaluating Stress-Deformation Response of Embankments on ESC-Enhanced Soft Soil Across Various Load Scenarios	02/2024	Course work completed	No

- **M.Tech Thesis:** 01

S.No.	Name of Student @ Institute	Title	Time		Co-Guide (s) if Any
			start	Completion	
1	Aditya Shukla (20E2BSGTM40P601) @ Bikaner Technical University, Bikaner	Effect of construction time on the behavior of embankment constructed on ESC-improved clayey soil	02/2023	01/2025	Yes

- B. Tech Projects:**

S.No.	Name of Student (s) @ Institute	Title	Time		Co-Guide (s) if Any
			start	Completion	
1	Aaqib Javid (18BCE001); Abhinav Sharma (18BCE004); Archit Mahajan (18BCE013); Madhav Sharma (18BCE037); Dhananjay Kohli (18BCE063) & Yashodhan Dogra (18BCE061) @ Shri Mata Vaishno Devi University, Katra	Influence of voltage gradient and lime content on the electrokinetic treatment of clayey soil	02/2022	06/07/2022	No
2	Komal Bhardwaj (19BCE030); Shaleen Groach (19BCE049) @ Shri Mata Vaishno Devi University, Katra	Stress-Deformation Analysis of Rail Substructure Under Moving Load	17/8/2022	27/12/2022	No
3	Ashish Goswami (19BCE015); Ayush Raj (19BCE016) @ Shri Mata Vaishno Devi University, Katra	Deformation Behavior of Underground Conduit Under Embankment Loading	17/8/2022	27/12/2022	No
4	Jagrat Gupta (19BCE026); Mir Ashan (19BCE033); Nabeel Showkat (19BCE036) @ Shri Mata Vaishno Devi University, Katra	Behavior of Concrete After Partially Replacing Coarse Aggregate with Plastic Waste	17/8/2022	27/12/2022	No
5	Shushant Kumar Sinha (21024137); Ravi Kumar (21024127) @ Guru Ghasidas Vishwavidyalaya, Bilaspur	Electrokinetic Consolidation of Soft Clay	10/07/2024	Ongoing	No

Journal/ Special Publications

- Pandey, B.K.** and Rajesh, S. 2025. Monitoring Performance Indicators during Electrokinetic Treatment. *International Journal of Geomechanics*, 25(3), 06024027 (**SCI; CiteScore:6.0; Q1**)
- Pandey, B.K.**, Rajesh, S., and Chandra, S. 2024. Engineering and physicochemical response of soft clay with electrokinetic consolidation process. *Acta Geotechnica* <https://doi.org/10.1007/s11440-024-02227-w> (**SCI; CiteScore:7.3; Q1**)
- Pandey, B. K.**, Rajesh, S., and Chandra, S. 2024. Electrokinetics in a stone column encased by a conductive jute geotextile: The Role of anode materials. *International Journal of Geomechanics* DOI: 10.1061/IJGNALGMENG-9545 (**SCI; CiteScore:6.0; Q2**)
- Ingale, R., Salroo, S., and **Pandey, B.K.** 2024. Discontinuities-driven slope stability assessment and mineralogical studies along Mughal Road, Jammu and Kashmir, India. *International Journal of Geosynthetics and Ground Engineering* 10, 3. <https://doi.org/10.1007/s40891-023-00513-3> (**Scopus; CiteScore:2.4; Q2**)

5. Shukla, A., **Pandey, B.K.**, Ingale, R., Vivek, A.K. and Meshram, K. 2024. Effect of Construction Time on the Behavior of Embankment Constructed on ESC-Improved Clayey Soil. *Indian Geotechnical Journal*, 54, 1538–1548 (*Scopus; CiteScore:2.1; Q2*)
6. **Pandey, B.K.**, Shukla, C., Sillanpää, M., Shukla, S.K. 2023. A systematic Review on Application of Electrokinetics in Stabilization and Remediation of Problematic Soils. *Innovative Infrastructure Solutions* <https://doi.org/10.1007/s41062-023-01186-7> (*Scopus; CiteScore:2.6; Q2*)
7. Javid, A., **Pandey, B.K.**, and Srijan. 2023. Performance evaluation of clayey soil considering impact of lime during electrokinetic consolidation. *Arabian Journal of Science and Engineering*, <https://doi.org/10.1007/s13369-023-08148-2> (*SCI; CiteScore:4.4; Q1*)
8. Shukla, C., Gupta, D., **Pandey, B.K.**, Bhakar, S.R. 2023. Suitability Assessment of different cladding materials for growing bell pepper under protected cultivation structure using multi-criteria decision-making technique. *Environment, Development and Sustainability*, 26, 3713–3733 (*SCI; CiteScore:4.4; Q1*)
9. **Pandey, B. K.**, Rajesh, S., and Chandra, S. 2022. Time-dependent behavior of Embankment on Clayey Soil Improved using Stone Columns Encased by Geotextiles. *Transportation Geotechnics*, 36, 100809. (*SCI; CiteScore:4.9; Q1*)
10. **Pandey, B. K.**, Rajesh, S., and Chandra, S. 2022. Performance of Soft Clay Reinforced with Encased Stone Column: A Systematic Review. *International Journal of Geosynthetics and Ground Engineering*, 8, <https://doi.org/10.1007/s40891-022-00387-x> (*Scopus; CiteScore:2.4; Q2*)
11. **Pandey, B.K.**, Rajesh, S., Chandra, S., 2021. Performance enhancement of encased stone column with conductive natural geotextile under k_0 stress condition. *Geotextiles and Geomembranes*, 49 (5), 1095-1106. (*SCI; CiteScore:8.4; Q1*)
12. **Pandey, B.K.**, Rajesh, S., Chandra, S., 2020. Numerical evaluation of geogrid-encased stone columns in soft soil under embankment loading. *Geotechnical Special Publication 315, ASCE*, pp. 543-551. (*Scopus; CiteScore:0.8*)
13. Somen, D., Sharma, R.R.K., **Pandey, B.K.**, 2019. Relationship of manufacturing flexibility with organisational strategy. *Global Journal of Flexible System and Management*, 20:237–256. (*Scopus; CiteScore:8.5*)
14. **Pandey, B. K.**, and Rajesh, S., 2019. Enhanced engineering characteristics of soils by electro-osmotic treatment: An overview. *Geotechnical and Geological Engineering* 37(6), 4649–4673. (*Scopus; CiteScore:2.9; Q1*)
15. Kumar, S., Solanki, C.H., **Pandey, B.K.**, 2015. Behaviour of prestressed geotextile-reinforced fine sand bed supporting an embedded square footing. *International Journal of GEOMATE* 8 (2):1257–1262. (*Scopus; CiteScore:1.7; Q3*)

Conference/Book Chapter Publications

1. **Kongalla, A., B.K. Pandey, V. Kumar and Srijan.** 2025. Improving Embankment Performance Built on Soft Clay: Influence of Vehicle Characteristics. 10th YIGEC 2025, IIT Indore (**Accepted with paper id: 034**)
2. **Pandey, B. K.**, Srijan and Ingale, R. 2024. Deformation Behaviour of Buried Pipeline Due to Nearby Embankment Construction. Indian Geotechnical Conference 2024 (**Accepted with paper id: 024**)
3. **Pandey, B.K.**, Kongalla, A., Agidi, K., Kumari, S. and Mahant, P.D. 2024. Granular Debris Flows in the Himalayan Region: Mechanisms, Causes, and Mitigation Strategies. Indian Geotechnical Conference 2024

(Accepted with paper id: 025)

4. Srijan, Jasrotia, R., **Pandey, B. K.**, and Narula, G. 2024. Ordinary and Geosynthetic Encased Stone Column in Soft Clay Bed: Numerical Analysis. Indian Geotechnical Conference 2024 (Accepted with paper id: 080)
5. Kumar, V., Jain, A., and **Pandey, B. K.** 2024. Strength and Compressibility Characteristics of Plastic Clay Stabilized with Crumbled Rubber Tire. Indian Geotechnical Conference 2024 (Accepted with paper id: 141)
6. Javid, A., **Pandey, B.K.**, and Sinha, S.K. 2024. Prevention of Crack Formed During the Electrokinetic Consolidation of Clayey Soil. Indian Geotechnical Conference 2024 (Accepted with paper id: 300)
7. **Pandey, B. K.**, Santhoshkumar G., Shukla, C., and Ingale, R. 2023. Geoenvironmental aspects of carbon sequestration process: An overview. Indian Geotechnical Conference 2023 (Accepted with paper id: 185)
8. Srijan, Singh, A. Vasta, H., Narula, G., and **Pandey, B. K.** 2023. Behavioural Study of Reinforced Soft Soil Bed Supporting Embankment: Numerical Analysis. Indian Geotechnical Conference 2023 (Accepted with paper id: 217)
9. **Pandey, B. K.**, Rajesh, S., Chandra, S., and Dogra, V.K. 2022. Effect of Construction Parameters on the Behaviour of Embankment Resting Over Soft Soil Improved with ESC. In *Proceedings of the Indian Geotechnical Conference 2022, Volume 7, Lecture Notes in Civil Engineering* 491, https://doi.org/10.1007/978-981-97-2700-1_15 (Scopus; CiteScore:0.5)
10. Shukla, C. and **Pandey, B.K.** 2022. A systematic Review on Application of Electrokinetics in Treatment of Problematic Soils. *Proceedings of the Indian Geotechnical Conference 2022 Volume 8, Lecture Notes in Civil Engineering* 492, https://doi.org/10.1007/978-981-97-2704-9_35 (Scopus; CiteScore:0.5)
11. **Pandey, B.K.**, Rajesh S., and Chandra S., 2022. Numerical analysis of soft soil reinforced with geogrid encased stone column. In *Proceedings of the 7th Indian Young Geotechnical Engineers Conference, Lecture Notes in Civil Engineering* 195, https://doi.org/10.1007/978-981-16-6456-4_8 (Scopus; CiteScore:0.5)
12. **Pandey, B. K.**, Rajesh, S., and Chandra, S. 2023. Influence of Conductive Jute Geotextile -Encased Stone Column in Soft Clay. In: *Muthukkumaran, K., Rathod, D., Sujatha, E.R., Muthukumar, M. (eds) Transportation and Environmental Geotechnics. IGC 2021. Lecture Notes in Civil Engineering, vol 298. Springer, Singapore.* https://doi.org/10.1007/978-981-19-6774-0_5 (Scopus; CiteScore:0.5)
13. **Pandey, B. K.**, Rajesh, S., and Chandra, S. 2023. A State-of-The-Art Review on Electro-Osmotic Treatment for Stabilization of Soft Soils. In: *Muthukkumaran, K., Sathiyamoorthy, R., Moghal, A.A.B., Jeyapriya, S.P. (eds) Ground Improvement Techniques. IGC 2021. Lecture Notes in Civil Engineering, vol 297. Springer, Singapore.* https://doi.org/10.1007/978-981-19-6727-6_20 (Scopus; CiteScore:0.5)
14. **Pandey, B.K.**, Das, S.K., Kumar, S., 2021. Study of prestressed geotextile reinforced sand Supporting an embedded square footing. In: *Patel S., Solanki C.H., Reddy K.R., Shukla S.K. (eds.) Proceedings of Indian Geotechnical Conference 2019. Lecture Notes in Civil Engineering, Vol 137. Springer, Singapore.* https://doi.org/10.1007/978-981-33-6466-0_20 (Scopus; CiteScore:0.5)
15. **Pandey, B.K.**, Rajesh, S., Chandra, S., 2020. 3-D finite element study of embankment resting on soft soil reinforced with encased stone column. In: *Latha Gali M., Raghuvveer Rao P. (eds.) Problematic Soils and Geoenvironmental Concerns. Lecture Notes in Civil Engineering, Vol 88. Springer, Singapore.* https://doi.org/10.1007/978-981-15-6237-2_38 (Scopus; CiteScore:0.5)
16. **Pandey, B.K.**, Bajaj, K., Singh, A.P., 2013. Soil stabilization using pozzolanic material and jute fibre. In: *Proceedings of Indian Geotechnical Conference. Roorkee, India, pp 1–6*
17. Chandrakar, N., **Pandey, B.K.**, Sahu, S., 2013. Impact of global cities on architecture and it's challenges : Case

Manuscripts under Review

1. **Pandey, B.K.** and Rajesh, S. 202x. Response of soft clay improved with electrokinetic-assisted encased stone column. *Geomechanics and Engineering* (Submitted with Paper Id: GAE40933) (SCI; CiteScore:5.1)

Invited Talk/Oral Presentation/Poster Presentation Details

- **Expert Talk** on “Sustainable Ground Improvement for Soft Soil” In the **5-days Short-Term Course (STC) on Emerging Development in Geotechnical Engineering** " organized on January 3-7 March, 2025, by the Department of Civil Engineering, NIT Rourkela, Odisha.
- **Expert Talk** on “Sustainable Ground Improvement for Soft Soil” In the **Short-Term Training Programme (STTP) On “Geotechnical Engineering Aspects of Infrastructure Projects”** " organized on January 2-7, 2025, by the Department of Civil Engineering, Vidyavardini’s College of Engineering & Technology, K.T Marg, Vasai Road West, Palghar, Maharashtra, India.
- **Expert Talk** on “Electrokinetic Consolidation of Soft Clay: A sustainable approach to mitigate problematic soils” In the **Short-Term Training Programme (STTP) On “Recent Trends in Sustainable Construction Practices in Civil Engineering”** " organized on July 8-13, 2024, by the Department of Civil Engineering, Shivajirao S Jondhle College of Engg & Tech. Asangaon, Maharashtra, India.
- **Invited Talk** on “Performance of Soft Clay Reinforced with Encased Stone Column” In **Geotech Talks: Navigating the Depths of Engineering**, Organized On March 12-13, 2024, by the Department of Civil Engineering, Shri Mata Vaishno Devi University, Katra, Jammu and Kashmir, India.
- **Oral Presentation** on paper titled “Geoenvironmental aspects of carbon sequestration process: An overview” in the Indian Geotechnical Conference 2023, organized during December 14 - 16, 2023, by IGS Roorkee Chapter, Indian Institute of Technology, Roorkee and CBRI, Roorkee.
- **Invited Talk** on “Introduction to Soil Mechanics and It’s Practical Application” at College of Agricultural Engineering, Bihar Agriculture University Sabor, Bhagalpur, Bihar, India on 6th May 2023.
- **Oral Presentation** on paper titled “A State-Of-The-Art Review on Electro-osmotic Treatment for Stabilization of Soft Soils” in the Indian Geotechnical Conference 2021, organized during December 16 - 18, 2021, by IGS Trichy Chapter and National Institute of Technology, Tiruchirappalli - 620015.
- **Oral Presentation** on paper titled “Influence of Conductive Jute Geotextile-Encased Stone Column in Soft Clay” in the Indian Geotechnical Conference 2021, organized during December 16 - 18, 2021, by IGS Trichy Chapter and National Institute of Technology, Tiruchirappalli - 620015.
- **Poster Presentation** on paper titled “Numerical Evaluation of Geogrid-Encased Stone Columns in Soft Soil Under Embankment Loading” in the Geo-Congress 2020 organized by GI Institute, ASCE, at Minneapolis, Minnesota, the USA, from February 25-28, 2020
- **Oral Presentation** on paper titled “Study of Prestressed Geotextile Reinforced Sand Supporting an Embedded Square Footing” at the Indian Geotechnical Conference 2019, organized during December 19 - 21, 2019, by SVNIT Surat and IGS Surat local chapter.
- **Oral Presentation** on paper titled “3-D Finite Element Study of Embankment Resting on Soft Soil Reinforced with Encased Stone Column” at the Indian Geotechnical Conference 2018, organized during December 13 - 15, 2018, by IISc. Bangalore and IGS Bangalore local chapter.

- **Oral Presentation** on paper titled “*Soil Stabilization Using Pozzolanic Material and Jute Fibre*” at the Indian Geotechnical Conference 2013, organized on December 22 - 24, 2013, by IIT Roorkee and CSIR-CBRI Roorkee.

Workshops/Seminars/Conferences/Short-Term Course (Attended)

- Participated in the “In-Person NPTEL Awareness Workshop” conducted by NPTEL IIT Madras in association with Guru Ghasidas Vishwavidyalaya, Bilaspur on 22nd December 2023.
- Attended *Indian Geotechnical Conference* organized by IGS Roorkee Local Chapter in association with IIT Roorkee and CBRI Roorkee during 13th -15th Dec 2018.
- Attended webinar on “Geoenvironmental Engineering” by prof P.V. Sivapulliah on 31st August 2023.
- Attended webinar on “ChatGPT for Innovation” Conducted by Turnip Innovations on 23rd June 2023.
- Attended webinar on “Sustainable Hydraulic Engineering: Maccaferri Hydraulics and Watercourse Management Solutions” by Maccaferri on 31st May 2023.
- Attended webinar on “Modelling Corrosion processes and cathodic protection Systems with COMSOL Multiphysics” by COMSOL on 25th April 2023.
- Participated in the International Workshop on “BIOGEOTECHNICS” organized by IIT-ISM Dhanbad and the University of Queensland, Australia, under the 3rd edition of AGERP (Lecture Series on Advancements in Geotechnical Engineering: From Research to Practice) during 24 - 26 Feb 2022.
- Attended three days *Indian Geotechnical Conference* organized by NIT Trichy and IGS Trichy local chapter during December 16-18, 2021
- Participated in Indo-Canadian Workshop on “Interactive Design in Geotechnical Engineering: Theory to Practice” organized by NIT Surathkal, IGS Surathkal Chapter and IIT Kanpur, India, TC 206 of ISSMGE and University of Ottawa during 24 Sep- 2 Oct 2020.
- Attended International Conference (Geo-Congress, 2020) held in Minneapolis, Minnesota, USA, from February 25-28, 2020, organized by GI Institute, ASCE, USA.
- Attended three days *Indian Geotechnical Conference* organized by SVNIT Surat and IGS Surat local chapter during 19-21 Dec 2019.
- Attended three days *Indian Geotechnical Conference* organized by IISc. Bangalore and IGS Bangalore local chapter during 13th -15th Dec 2018.
- Actively worked and attended a workshop on “*Sustainable Geotechnique*” Organized by IIT Kanpur and IGS Kanpur local chapter, Kanpur. From 13th -14th Oct 2017.
- Attended TEQIP –II sponsored workshop on “*Ground Improvement Techniques*” organized by AMD, SVNIT Surat during 11-12 Feb 2014.
- Attended three days of IGC on “*Geotechnical Advances and Novel Geotechnical Applications (GANGA)*,” Organized by the IGC Roorkee chapter in association with IIT Roorkee and CSIR-CBRI Roorkee during Dec 22-24, 2013.
- Attended two days of international conferences on “*Advance Trends in Engineering and Technology (ICATET) 2013*” organized by Arya College of Engg & I.T. during 19-20 Dec 2013.

- Attended seminar on “Recent Trends in Industrial Engineering (RTIE 2013)” organized by MED, SVNIT, Surat, and IIIE, Surat Chapter on 6 April 2013.
- Attended Two Days National Seminar on “Advances in Geotechnical Engineering (AGE-2013)” Organized by the Applied Mechanics Department of SVNIT, Surat & IGS, Surat Chapter, during 8th -9th June 2013
- Attended 5-days STTP on “Geotechnical Investigations, Interpretations and Improvements (GIII -13)” organized by AMD, SVNIT, Surat from 18th -22 Oct 2013.
- Actively worked and attended an eighth biennial conference on “Structural Engineering Convention- 2012” Organized by Applied Mechanics Department SVNIT, Surat. During 19th -21st Dec 2012.
- Attended workshop on “Concrete Mix Design” Organized by Ambuja Cement Limited on 18th May 2012, at Raigarh.

Technical/Software Skills

- Operating System: Windows (all versions)
- Data Analysis and Graphing Software: Origin Pro
- Core Software Packages: Plaxis 2D and 3D, COMSOL Multiphysics, MDI Jade and SVOFFICE 5
- Image Processing Software: ImageJ
- VOSviewer: A software tool for constructing and visualizing bibliometric networks
- Advanced Instruments: JEOL’s JSM-6010 SEM and EDX, Eutech-Ion 2700, Thermo Scientific™ iCAP Q ICP-MS and Two-Circle Diffractometer (Rigaku MiniFlex 600)
- Sensors: Pore Pressure, Soil Moisture, Water Potential and Earth Pressure Cells

Membership in Professional Organizations

- Life Member Indian Geotechnical Society (LM: 5630)

Reviewer in Referred Journal

- International Journal of Geosynthetics and Ground Engineering, Springer.
- Scientific Reports - Nature.
- International Journal of Geomechanics, ASCE
- Indian Geotechnical Journal
- Ground Improvement (Proceedings of the ICE).
- Geomechanics and Engineering

Editorial Board Member in Referred Journal

- Scientific Reports - Nature.

Academic Awards/Achievements

- **IGS – Chennai Chapter YGE Best Paper Biennial Award – 2021** for the best paper published in the field of “*Solutions of Problematic Soils*” Paper entitled “*Performance Enhancement of Encased Stone Column with Conductive Natural Geotextile under k_0 Stress Condition*” by **B.K. Pandey, S. Rajesh and S. Chandra** published in Geotextiles and Geomembranes (2021).
- **Springer Best Paper Award** for the paper titled, “*Influence of Conductive Jute Geotextile-Encased Stone Column in Soft Clay*” under the theme, “*Geosynthetics Application*” presented in the Indian Geotechnical

Conference 2021- GEEO-INDIA, organized during Dec 16-18, 2021 by IGS Trichy Chapter and NIT Tiruchirappali-620015.

- Received **ISSMGE Foundation Award 2020** of US Dollar 1300 to attend Geo-Congress 2020 in Minneapolis, MN, USA.
- Recipient of “**Ministry of Human Resource Development**” Govt. of India Scholarships during Ph.D. (July 2015 - July 2020).
- Recipient of “**Ministry of Human Resource Development**” Govt. of India Scholarships during M. Tech. (July 2012 - July 2014).

Administrative Duties as a Student

- Acting Sports secretary and President, Hall 7, IIT Kanpur (2017-2018).
- Ph.D. Senator in Student Senate (Student Gymkhana) IIT Kanpur (2016-2017).
- Student Nominee in Senate Library Committee at IIT Kanpur (2016-2017).
- Election officer, Hall 7 Election at IIT Kanpur (2018-2019).
- Member in HMC of Hostel #4 (B.Tech. 1st & M. Tech. 2nd-year Hostel of SVNIT) as Joint Hostel Secretary (2013-2014).
- Member in HMC of Hostel #7 (M.Tech. 1st-year Hostel of SVNIT) as Auditor (2012-2013).

Administrative Duties as Faculty

At Shri Mata Vaishno Devi University:

S.No.	Responsibilities Assigned	Order No./Email dated
1	Member of SoCE committee for evaluation of final semester project/Internship	SMVDU/SoCE/22/375 dated July 01, 2022
2	Joint Warden-Basohli Hostel	SMVDU/Adm/Estt. -FA/22/876 dated July 04, 2022
3	Member of Hostel Disciplinary Committee as Joint warden of Basohli-hostel	SMVDU/Adm/Estt. -FA/22/876 dated July 04, 2022
4	Faculty In-charge Registration	Email dated: August 3, 2022
5	Faculty In-charge for Establishment of Geotechnical Engineering Laboratory	Email dated: September 10, 2022
6	Member of committee to prepare students for campus placements	Email dated: September 21, 2022

At Guru Ghasidas Vishwavidyalaya:

S.No.	Responsibilities Assigned	Order No./Email dated
1	Coordinator for technical event ‘ <i>Aakar</i> ’ in the Tech Fest Equilibrio 2023	Dean /SoS (E&T)/2023 dated March 27, 2023
2	Departmental NBA coordinator	792/NBA/Civil/E&T/GGV/BSP/2023 dated March 27, 2023
3	Member of Times Higher Education Ranking Committee of GGV	358/ IQAC/ Cell/GGV//2023 dated April 10, 2023

4	Member of QS Ranking Committee of GGV	360/ IQAC/ Cell/GGV//2023 dated April 10, 2023
5	Member Coordination Committee for R&M/E work of Type III quarters	32/Engg/MECON-R&M/EW/GGV/2023 dated April 21, 2023
6	Member of the Biodiversity Management Committee at GGV Campus	2063/Rec./Admn/2023 dated May 25, 2023
7	Departmental Anti Ragging Committee of Civil Engg. Department	814/Civil/E&T/GGV/BSP/2023 dated June 28, 2023
8	Member of Document Verification Committee for Ph.D. Admission in Civil Engg. Department	810/Civil/SoS, E&T/GGV/BSP/2023 dated June 8, 2023
9	External Examiner for B. Tech Six Semester for the Subject Computer-aided civil Engg Drawing at Govt. Engg College, Bilaspur (Center No. 07) on behalf of CSVTU, Bhilai	NA
10.	Member for framing and submitting Policy Document on “Waste management” Committee of GGV	405/ IQAC/GGV//2023 dated July, 4, 2023
11	Member of the Central Security Section at GGV	3191/Est.Admn/2023 dated August 13, 2023
12	School level NBA Coordinator for Criteria 6 at SoS, E&T	-
13.	Member for NIRF committee at SoS, E&T, GGV.	136/Dean /SoS (E&T)/2023 dated Oct. 5, 2023
14	Member Physical Verification Committee for Civil Engg Department. (Visvesvaraya Bhavan)	247/Engg/ /GGV/2023 dated Dec 10, 2023
15	Member of Times Higher Education Ranking Committee of GGV	508/ IQAC/GGV//2024 dated January 26, 2024
16	Member of QS Ranking Committee of GGV	508/ IQAC/GGV//2024 dated January 26, 2024
17	Assistant Exam Superintendent for Conducting Pre-PhD Course Work in Civil Engg Department	924 Civil/SoS, E&T/GGV/BSP/2024 dated Feb 2, 2024
18	Various work assigned for the NAAC Visit	946 Civil/SoS, E&T/GGV/BSP/2024 dated April 8, 2024
19	Assigned duty as micro-observer in general election 2024	534/micro-observer/Lok Sabha Election 2024/2024-25 dated April 18, 2024
20	Member of the external physical verification committee of the store section (Committee Number 13)	22/Physical Verification/Store/2024
21	JoSAA/CSAB Document Verification Committee	181/Dean /SoS, Engg. & Tech.)/2024 dated June 12, 2024
22	University Engineer (In-charge) & Assistant Engineer (In-charge)	2238/Est./Admn./2024 dated June 25, 2024

Hobbies

- Adventure activities like Running, Mountain cycling, Trekking, Hiking, etc.
- I completed the Manali to Leh (Khardungla) cycling expedition in 2019.
- I love to travel to new places and have traveled to almost all the states and UTs of India.

References

Prof. Rajesh Sathiyamoorthy

Professor

Department of Civil Engineering,
IIT Kanpur, Kanpur-208016.

Email: hsrajesh@iitk.ac.in

☎: +91 542 259 6054

Prof. Sarvesh Chandra

Freelance Consultant,

Former Professor, IIT Kanpur,
Kanpur-208016.India.

Email: sarviitk@gmail.com

☎: +91 7900644620

I now declare that the above details are accurate to my knowledge.

Place: **Bilaspur**

Date: January 2025


(Balbir K. Pandey)