

CURRICULUM - VITAE**B. R. PHANIKUMAR***Professor***Contact Details :**phanikumar_29@yahoo.com 9894204273 **EDUCATION QUALIFICATION**

Degree/Certificate	Class/Division	College/University	Year
Doctor of Philosophy (Geotechnical Engineering)	—	Jawaharlal Nehru Technological University, Kakinada 533003 India	1997
Master of Technology (Geotechnical Engineering)	1 st Division	Jawaharlal Nehru Technological University, Kakinada 533003 India	1986
Bachelor of Technology (Civil Engineering)	1 st Division	Jawaharlal Nehru Technological University, Kakinada 533003 India	1983

Experience

Organization	Capacity	Nature of job	Period
SRKR Engg College, Bhimavaram, AP	Senior Professor	Teaching and Research	July 2016 to date
Vellore Institute of Technology, Vellore, TN	Senior Professor	Teaching and Research	February 2006 to May 2016
GMR Institute of Technology, Rajam AP	Professor and Head	Teaching, Administration and Research	April 2005 to February 2006
Iowa State University, Ames, USA	Post-Doctoral Research Associate	Research in Pavement Geotechnics	April 2004 to October 2004
University of Bradford, Bradford, U.K.	Post-Doctoral Research Associate	Research in Geoenvironmental Engineering	June 2001 to May 2002
Jawaharlal Nehru Technological University, Kakinada 533003 India	Co-Principal Investigator on a Research Project funded by INCGE	Research supervision of a Ph. D work	April 2001 to April 2005
Jawaharlal Nehru Technological University, Kakinada 533003 India	Associate Faculty	Teaching and research	November 1994 to April 2001
Jawaharlal Nehru	Research Scholar	Research	January 1990 to October

Technological University, Kakinada 533003 India			1994
S.V.H.College of Eng, Machilipatnam, AP	Lecturer	Teaching and research	November 1986 to March 1988

Teaching Experience

Under-graduate level courses

- Soil Mechanics Theory and Laboratory at JNT University, GMRIT and Vellore Institute of Technology (VIT)
- Soil Mechanics Theory and Laboratory at Iowa State University, USA
- Soil Mechanics Theory and Laboratory at the University of Bradford, UK
- Foundation Engineering Theory at JNT University, GMRIT and VIT
- Ground Improvement Techniques at JNT University, GMRIT and VIT
- Expansive Soils at JNT University, GMRIT and VIT
- Advanced Foundation Engineering at JNT University and VIT

Graduate level courses

- Foundations in Expansive Soils
- Earth Dam Engineering
- Advanced Soil Mechanics
- Advanced Foundation Engineering
- Ground Improvement Techniques

Laboratory Development

- Developed the Soil Mechanics Laboratory at GMRIT with all the basic equipment required for the conduct of undergraduate lab course
- Developed the Soil Mechanics Laboratory at VIT with excellent equipment required for research and the conduct of undergraduate lab course; further some advanced research equipment with digitized measurement facility such as (i) direct shear apparatus, (ii) three gang consolidometer and (iii) triaxial compression equipment was also purchased under my stewardship
- Further, some model test tanks with pulleys were fabricated for conduct of research on pile-anchors

Research Interests

1. Fundamental behaviour of unsaturated expansive soils
2. Ground improvement with granular pile-anchors, granular piles and geosynthetics
3. Chemical stabilization of expansive soils
4. Environmental geotechnics
5. Collapsible soils
6. Pavement geotechnics

Research Supervision

Doctoral level

S. No	Scholar	Thesis title	Institute	Status
1	Geeta Kaarthy	Development of adsorbents from tannery sludge for the removal of reactive dyes	VIT University Vellore, TN	Degree awarded (2012)
2	Govinda Samy	A study on equivalent dye adsorption capacity of industrial sludge based activated carbons	VIT University Vellore, TN	Degree awarded (2012)
3	Umashankar	Efficacy of fly ash-stabilised expansive clay liners	VIT University Vellore, TN	Degree awarded (2014)
4	Muthukumar	Swell-shrink behaviour of granular pile-anchors in expansive soils	VIT University Vellore, TN	Degree awarded (2014)
5	Saravana Kumar	Immobilisation of Cr+6 in contaminated soils using Neem bark powder	VIT University Vellore, TN	Degree awarded (2014)
6	Arthy	Immobilization of Cr ³⁺ in tannery sludge through S/S technique using organic waste mediated iron nanoparticles	VIT University Vellore, TN	Degree awarded (2016)
7	Sofi	Effect of pond ash and steel fiber on engineering properties of concrete	VIT University Vellore, TN	Degree awarded (2016)

Post-graduate or Masters level

S. No	Student	Thesis title	Year	Institution
Abroad: 1	Sonal Singhal	A laboratory study on volume change behaviour of loess under controlled and uncontrolled wetting	2004	Iowa State University, USA
2	Kumaravel Kurusamy	Behaviour of steel piles in sands	2002	Bradford University, UK
3	Efi Georgiadou	Behaviour of pipe piles in clays	2002	Bradford University, UK
India: 4	Ashwari Begum	Correlation studies on heave in granular pile-anchor reinforced expansive clay beds	2000	Jawaharlal Nehru Technological University, Kakinada
5	Padmavathi	Variation of heave in granular pile-anchor reinforced expansive soils	1999	Jawaharlal Nehru Technological University, Kakinada
6	Ramachandra Rao	Increasing pull-out capacity of granular pile-anchors by base-geotextiles	1999	Jawaharlal Nehru Technological University, Kakinada
7	Ramesh	Effect of calcium chloride on the swell and strength characteristics of expansive clays	1999	Jawaharlal Nehru Technological University, Kakinada
8	Sekhara Rao	Pull-out behavior of granular pile-anchors reinforced by geogrid reinforcement	1999	Jawaharlal Nehru Technological University, Kakinada
9	Madhusudan	Behaviour of expansive soils reinforced by geocells	1999	Jawaharlal Nehru Technological University, Kakinada
10	Rajesh	Strength behavior of fibre-reinforced soft clays	1999	Jawaharlal Nehru Technological University, Kakinada

11	Trimurthulu	A comparative study of the effects of CNS and MSM on swelling characteristics	1998	Jawaharlal Nehru Technological University, Kakinada
12	Mallayya	Strength characteristics of fly ash	1998	Jawaharlal Nehru Technological University, Kakinada
13	Ravikumar	Efficacy of geocell-anchors in expansive soils	1998	Jawaharlal Nehru Technological University, Kakinada
14	Nagendra	Compressive load response of granular piles reinforced by geogrids	1998	Jawaharlal Nehru Technological University, Kakinada
15	Prasad	A study of swelling characteristics of expansive soil beds with CNS cushion stabilized by fly ash	1998	Jawaharlal Nehru Technological University, Kakinada
16	Sanjeev	Improving bearing capacity of expansive soil beds with CNS cushion stabilized by fly ash	1998	Jawaharlal Nehru Technological University, Kakinada
17	Phanikumar	Engineering behavior of expansive soils stabilized by fly ash	1998	Jawaharlal Nehru Technological University, Kakinada
18	Nagareddy	Volume change behaviour of fly ash-treated expansive and non-expansive clays	1998	Jawaharlal Nehru Technological University, Kakinada

Under-graduate level (in total, 50 Final Year under-graduate theses supervised)

- Eight batches of students worked under my guidance in JNTU College of Engineering, Kakinada 533004.
- Two batches of students worked under my guidance at GMRIT, Rajam 632014, India
- Forty batches of students worked under my guidance at VIT, Vellore 632014, India during 2006-2016

RESEARCH PROJECTS

1. Laboratory Investigation of Granular Pile-Anchors, A University Grants Commission Project, JN Technological University College of Engineering, Kakinada, India (Collaborator: Prof. A. Srirama Rao; Grant amount: 2 lakhs; Duration: 3 years)
2. Risk Assessment from Ground Contamination in Glasshoughton Site in West Yorkshire, University of Bradford, United Kingdom (Collaborator: Dr. Radhey S. Sharma)
3. Engineering Behaviour of Unsaturated Collapsible Soils, Iowa State University, USA (Collaborator: Dr. Radhey S. Sharma)
4. Optimisation and Management of Pavement Geotechnical Materials in Earthwork Construction, Iowa State University, USA (Collaborators: Dr. Radhey S. Sharma, Prof. Vernon Schaefer and Dr. David White)
5. Efficacy of Granular Pile-Anchors In-Situ: An INCGE Project, JN Technological University College of Engineering, Kakinada, India (Collaborator: Prof. A. Srirama Rao; Grant amount: 7 lakhs; Duration: 3 years)

PUBLICATIONS

Journals:

International:

1. Phanikumar, B. R. (2017). Compaction and strength characteristics of lime-blended fly ash, *International Journal of Waste Resources* (accepted for publication)
2. Phanikumar, B. R. and Nagaraju, T. V. (2017). Influence of pozzolanic additives on index properties of expansive clays, *Arabian Journal of Geosciences* (accepted for publication).
3. Phanikumar, B. R. and Nagaraju, T. V. (2017). Swell and compressibility of lime-blended expansive clay lumps and powders – A comparison, *Environmental Geotechnics* (accepted for publication).
4. Phanikumar, B. R. (2017). Engineering characteristics of fly ash blended with lime, *Environmental Geotechnics* (accepted for publication).
5. Phanikumar, B. R. (2017). Swell-consolidation response of an expansive clay blended with pond ash, *Environmental Geotechnics* (accepted for publication).
6. Phanikumar, B. R. and Muthukumar, M. (2017). Swell-shrink behaviour of GPAs in expansive clay beds, *Geotechnique* (under review).
7. Phanikumar, B. R. and Nagaraju, T. V. (2017). Compaction and strength characteristics of an expansive clay stabilised with cement and GGBS, *Environmental Geotechnics* (under review).
8. Phanikumar, B. R. and Nagaraju, T. V. (2017). Compaction and strength characteristics of a lateritic soil stabilised with cement and GGBS, *Arabian Journal of Geosciences* (under review).
9. Phanikumar, B. R. and Nagaraju, T. V. (2017). Swell-compressibility characteristics of a remoulded expansive clay blended with fly ash and lime, *Environmental Geotechnics – ICE Publishing* (under review).
10. Phanikumar, B. R. and Nagaraju, T. V. (2017). Swell-compressibility characteristics of a remoulded expansive clay blended with fly ash and lime, *Geomechanics and Geoengineering: An International Journal* (under review).
11. Phanikumar, B. R. (2016). Behaviour of expansive clay beds with fly ash-clay cushion, *Environmental Geotechnics – ICE Publishing* (accepted for publication).
12. Babu, R. D., Rao, S. N. and Phanikumar, B. R. (2016). Influence of fill gradation and density on the behaviour of stone columns in a soft marine clay bed, *Geomechanics and Geoengineering: An International Journal* (accepted for publication).

13. Phanikumar, B. R. and Muthukumar, M. (2016). Pullout behaviour of GPAs subjected to varied swelling and shrinkage, *Geotechnical and Geological Engineering* (accepted for publication).
14. Phanikumar, B. R. (2016). Influence of Geogrid Reinforcement on Pullout Response of Granular Pile-Anchors (GPAs) in Expansive Soils, *Indian Geotechnical Journal*, 46(4), 437-444; DOI: 10.1007/s40098-016-0180-z.
15. Phanikumar, B. R. and Singla, R. (2016). Swell-consolidation characteristics of fiber-reinforced expansive soils, *Soils and Foundations*, DOI: 10.1016/j.sandf.2016.01.011.
16. Phanikumar, B. R., Rishi, R. and Bhargav, K. (2016). Collapse compression of a lateritic soil, *Geomechanics and Geoengineering – An International Journal*, Volume 11, Issue 2, pp 119-124.
17. Phanikumar, B. R. and Umashankar, M. (2016). Studies on hydraulic conductivity of fly ash-stabilised expansive clay liners, *Geotechnical and Geological Engineering*, 34(2), 449-462 (DOI: 10.1007/s10706-015-9956-7).
18. Umashankar, M. and Phanikumar, B. R. (2016). Leachate studies on fly ash-stabilised expansive clay liners, *Geomechanics and Geoengineering – An International Journal*, Volume 11, Issue 2, pp 114-118.
19. Phanikumar, B. R. and Umashankar, M. (2016). Heave studies on fly ash-stabilised expansive clay liners, *Geotechnical and Geological Engineering*, DOI: 10.1007/s10706-016-0088-5.
20. Sonal, S., Sharma, R. S. and Phanikumar, B. R. (2016). A laboratory study on volume change behaviour of loess under controlled and uncontrolled wetting, *Geomechanics and Geoengineering – An International Journal*, Volume 11, Issue 2, pp 159-163.
21. Arthy, M. and Phanikumar, B. R. (2016). Efficacy of iron-based nano particles and nano biocomposites in the removal of Cr^{+3} , *ASCE Journal of Hazardous, Toxic and Radioactive Waste* (DOI:10.1061/ASCE) HZ.2153-5515.0000317.
22. Phanikumar, B. R. (2016). Efficacy of geopile-anchors in controlling heave of expansive clay beds, *Geotechnical and Geological Engineering* (under review).
23. Nagaraju, T. V. and Phanikumar, B. R. (2016). Influence of fly ash (FA) and rice husk ash (RHA) on properties of expansive clays – A comparative study, *Geomechanics and Geoengineering – An International Journal* (under review).
24. Phanikumar, B. R., Supriya, D. and Yatindra, A. (2016). Swelling behavior of an expansive clay blended with fine sand and fly ash, *Geomechanics and Geoengineering: An International Journal* (under review).
25. Phanikumar, B. R., Nishantkumar and Luckwani, A. (2016). Influence of lime on swell-compressibility characteristics of pond ash-clay blends, *Geotechnical and Geological Engineering* (under review).
26. Arthy, M., Phanikumar, B.R. (2016). Solidification/stabilization of tannery sludge with iron-based nanoparticles and nano-biocomposites, *Environmental earth Sciences*, Vol 76, Issue 158, pp 1-17.
27. Arthy, M. and Phanikumar, B. R. (2016). Removal of heavy metals using nano particles – A review, *International Journal of Environmental Research* (accepted for publication).
28. Arthy, M. and Phanikumar, B.R. (2016), Leachate analysis of the tannery sludge amended by zero-valent iron nanoparticles under dynamic condition. *Journal of Chemical and Pharmaceutical Sciences*. ISSN:0974-2115, No. 2, pp. 1-3.
29. Sofi, A. and Phanikumar, B. R. (2016). Durability properties of fibre- reinforced pond ash-modified concrete, *Journal of Engineering Science and Technology*, Vol 11, No. 10, 1385-1402.
30. Phanikumar, B. R. (2016). Granular pile-anchors in expansive clay beds: Part I - Swell behaviour, *Geomechanics and Geoengineering – An International Journal* (under review).
31. Phanikumar, B. R. (2016). Granular pile-anchors in expansive clay beds: Part II - Shear behaviour, *Geomechanics and Geoengineering – An International Journal* (under review).
32. Phanikumar, B. R. Expansive Soils: Problems and Remedies – A Review, *Indian Geotechnical Journal – Springer Publication* (under review).

33. Phanikumar, B. R. and Sana Suri (2016). Chemical amelioration of expansive clays: Part I - Swelling, *Geomechanics and Geoengineering – An International Journal (under review)*.
34. Phanikumar, B. R. and Sana Suri (2016). Chemical amelioration of expansive clays: Part II - Compression, *Geomechanics and Geoengineering – An International Journal (under review)*.
35. Arthy, M., Phanikumar, B.R. (2016). Immobilization of chromium in tannery sludge using iron based nanoparticles and nano-biocomposites, *Water, Air, and Soil Pollution*, Volume 226, No. 7, pp 1-25.
36. Phanikumar, B. R. and Sofi, A. (2015). Effect of pond ash and steel fiber on engineering properties of concrete, *Ain Shams Engineering Journal – Elsevier* (in press: DOI: 10.1016/J.ASEJ.2015.03.009).
37. Sofi, A. and Phanikumar, B. R (2015). An experimental investigation on flexural behaviour of fibre-reinforced pond ash-modified concrete, *Ain Shams Engineering Journal - Elsevier*, in press: DOI: 10.1016/J.ASEJ.2015.03.008).
38. Muthukumar, M. and Phanikumar, B. R. (2015). Shrinkage behaviour of GPAs in expansive clay beds, *Geotechnical and Geological Engineering*, Volume 33, Issue 3, pp 475-485.
39. Phanikumar, B. R. and Muthukumar, M. (2015). Swelling behaviour of GPA-reinforced expansive clay beds subjected to swell-shrink cycles, *Geomechanics and Geoengineering-An International Journal*, Volume 10, Issue 4, pp 261-270.
40. Phanikumar, B. R., Rishi Sreedharan and Aniruddh (2015). Swell-compressibility characteristics of lime-blended and cement-blended expansive clays – A comparative study, *Geomechanics and Geoengineering – An International Journal*, Volume 10, Issue 2, pp 153-162.
41. Phanikumar, B. R. and Amrutha, K. (2014). Effect of overburden pressure and degree of saturation on compressibility characteristics, *Geomechanics and Geoengineering – An International Journal* Volume 9, Issue 1, pp 52-62.
42. Saravana Kumar, M. P. and Phanikumar, B. R. (2014). Use of NBP as amendment for effective immobilization of Cr⁶⁺ in sands, *Journal of Environmental Management – Elsevier* (under review).
43. Phanikumar, B. R. and Muthukumar, M. (2013). Reducing heave of expansive clay beds through GPA groups. Proceedings of the Institution of Civil Engineers - *Ground Improvement*, <http://dx.doi.org/10.1680/grim.12.00009>
44. Phanikumar, B. R., Amshumalini, C. and Karthika, R. (2012). Swell-consolidation characteristics of artificial sand-clay mixes, *Geomechanics and Geoengineering – An International Journal*, Vol. 7, Issue 1, pp. 69-74.
45. Umashankar, M. and Phanikumar, B. R. (2012). Correlation studies on index properties of fly ash-stabilised expansive clay liners, *Geomechanics and Geoengineering – An International Journal*, 7:4, 283-291.
46. Saravana Kumar, M. P. and Phanikumar, B. R. (2012). Response surface modelling of Cr⁺⁶ adsorption from aqueous solution by neem bark powder, *Journal of Environmental Science and Pollution Research*, 20:1327-1343.
47. Geethakarathi, A, Phanikumar, B.R. (2012). Characteriation of tannery sludge activated carbon and its utilization in the removal of azo reactive dye. *Environmental Science Pollutant Research*. Vol.19(3), pp. 656-665.
48. Geethakarathi, A. and Phanikumar, B.R. (2011). Development of adsorbents from industrial sludge for the Removal of reactive dyes – A review. *Int. Jr. of Water Resources and Environmental Engg.* Vol.3(1), pp. 1 – 9.
49. Geethakarathi, A., Phanikumar, B.R. (2011). Adsorption of reactive dyes from aqueous solutions by tannery sludge developed activated carbon: kinetic and equilibrium studies. *International Journal of Environmental Science and Technology*, Vol.8(3), pp.561-570.
50. Geethakarathi, A. and Phanikumar, B. R. (2011). Decolorization of dyeing effluents by development of low cost biosorbents – A review, *Dyes and Pigments*.

51. Sharma, R. S., Phanikumar, B. R. and Kumaravel, K. (2011). Laboratory investigation of investigation of load-settlement behavior of sand beds reinforced with geopiles, *ASCE Journal of Geotechnical and Geoenvironmental Engineering*.
52. Govindasami, S., B. R. Phanikumar, C. Balamuralikrishna and P. Rajeswari (2011). A study on adsorption capacity of tannery industry sludge activated carbon in the removal of dye, *Journal of Technology- A Technical Journal*, 7 (3), pp. 5-10.
53. Govindasami, S. and B. R. Phanikumar (2010). Effectiveness of paper mill sludge activated carbon on dye adsorption, *Indian Journal of Environmental Protection*, 30 (5), pp. 390-398.
54. Govindasami, S., and B. R. Phanikumar (2010). Adsorption intensity of sludge based carbon on dye removal through equilibrium studies, *International Journal of Civil Engineering*, 2(2), pp. 127-141.
55. Rajesh, S., Krajewski, W., Bormann, A., and Phanikumar, B.R. (2010). Investigation of a landslide in Russia - Finite element and Probabilistic approach. *International Journal of Geotechnical Engineering*, J. Ross Publishing, 4(4), 517-525.
56. Govindasami, S., B. R. Phanikumar, C. Balamuralikrishna and R. Mayildurai (2009). Equilibrium and isotherm studies of sludge based activated carbon on dye removal, *Journal of Ecology, Environment and Conservation*, 15 (4), pp. 817-824.
57. Phanikumar, B. R., Anand J. Mani, Sathiyasheelan, S. and Reddy, P. R. (2009). Fly ash columns (FAC) as an innovative foundation technique for expansive clay beds, *Geomechanics and Geoengineering – An International Journal*, Vol. 4, Issue 3, pp. 183-188.
58. Phanikumar, B. R. (2009). Effect of lime and fly ash on swell, consolidation and shear strength characteristics of expansive clays – A comparative study, *Geomechanics and Geoengineering – An International Journal*, Vol. 4, Issue 2, pp. 175-181.
59. Phanikumar, B. R., Ramprasad, M. and Singh, A. (2009). Compressive load response of geogrid-reinforced fine, medium and coarse sands, *Geotextiles and Geomembranes*, Vol. 7, Issue 3, pp. 183-186.
60. Viswanadham, B. V. S., Phanikumar, B. R. and Mukherjee, R. V. (2009). Effect of polypropylene tape fibre reinforcement on swelling behaviour of an expansive soil, *Geosynthetics International*, Vol. 16, No. 5, pp. 393-401.
61. Viswanadham, B.V.S., Phanikumar, B.R. and Mukherjee, R.V., (2009). Swelling behaviour of a geofiber-reinforced expansive soil, *Geotextiles and Geomembranes International Journal*, Vol. 27, No. 1, pp. 73-76.
62. Sharma, R. S., Phanikumar, B. R. and Rao, B. V. (2008). Engineering behaviour of remoulded expansive clay blended with lime, calcium chloride and rice husk ash, *ASCE Journal of Materials in Civil Engineering*, Vol. 20, No 8, pp. 509-515.
63. Rao, A. S., Phanikumar, B. R., and Suresh, K. (2008). Response of granular pile-anchors under compression, *Ground Improvement*, Vol. 161, Issue 3, pp. 121-129.
64. Phanikumar, B. R., Rao, A. S., and Suresh, K. (2008). Field behavior of granular pile-anchors in expansive soils, *Ground Improvement*, Vol. 161, Issue 4, pp. 199-206.
65. Rao, A. S., Phanikumar, B. R., Babu, R. D. and Suresh, K. (2007). Pullout Behavior of Granular Pile-Anchors in Expansive Clay Beds In Situ, *ASCE Journal of Geotechnical and Geoenvironmental Engineering*, Volume 133, Issue 5, pp. 531-538.
66. Phanikumar, B. R., and Sharma, R. S. (2007). Volume change behaviour of fly ash-stabilized clays, *ASCE Journal of Materials in Civil Engineering*, 19:1, pp. 67-74.
67. Chakravarthi, V. K., and Phanikumar, B. R. (2006). Efficacy of preloading combined with prefabricated vertical band drains in improving a clayey silt stratum *in situ*, *Ground Improvement*, 10, No. 4, 147-152.
68. Sharma, R. S., and Phanikumar, B. R. (2006). Site investigation of a contaminated land, *Journal of Engineering Geology*, Vol. 85 (2006), 229-237.

69. Sharma, R. S., and Phanikumar, B. R. (2005). Laboratory study of heave behaviour of expansive clay reinforced with geopiles, *Journal of Geotechnical and Geoenvironmental Engineering, ASCE*, Vol. 131, No. 4, 512-520.
70. Phanikumar, B. R., Sharma, R. S., Rao, A. S., and Madhav, M. R. (2004). Granular pile-anchor foundation (GPAF) system for improving the engineering behavior of expansive clay beds, *Geotechnical Testing Journal, American Society for Testing Materials*, Vol. 27, No. 3, pp. 279-287.
71. Phanikumar, B. R., and Sharma, R. S. (2004). Effect of fly ash on engineering properties of expansive soils, *Journal of Geotechnical and Geoenvironmental Engineering, ASCE*, Vol. 130, No. 7, pp. 764-767.
72. Sharma, R. S., Phanikumar, B. R., and Nagendra. (2004). Compressive load response of geogrid-reinforced granular piles in soft clays, *Canadian Geotechnical Journal*, Vol. 41, No. 1, pp. 187-192.
73. Rao, A. S., Phanikumar, B. R., and Sharma, R. S. (2004). Prediction of swelling characteristics of remoulded and compacted expansive soils using free swell index, *Quarterly Journal of Engineering Geology and Hydrogeology*, 37: 217-226.
74. Phanikumar, B. R., and Rao, N. R. (2000). Increasing pull-out capacity of granular pile-anchors with base geosynthetics, *Canadian Geotechnical Journal*, Vol. 37, No. 4, pp. 870-881.

National:

75. Sofi, A., Phanikumar, B. R. and Sama, T. (2015). Mechanical properties of concrete containing high volume pond-ash and steel fibre, *International Research Journal - Engineering Sciences*, Volume 3, Issue 1, 2015, ISSN 2320-4338, pp. 77-81.
76. Arthy, M. and B. R. Phanikumar. (2015). Efficacy of tea waste and sugarcane bagasse in the adsorption of trivalent chromium, *Journal of Civil Engineering Technology and Research*, Volume 2, Number 1, pp. 585-595.
77. Govindasami, S. and Phanikumar, B. R. (2015). Factor analysis on adsorption capacity of industrial sludge based activated carbons on dye removal, *Journal of Current Environmental Engineering*, Bentham Science Publishers, 2(2), pp 89-100.
78. Phanikumar, B. R., Rekha, V. A., and Rao, A. S. (1991). Swelling behavior of a remoulded expansive soil, *Journal of Institution of Engineers, India*, Vol 76, No. 5, pp 1-5.
79. Phanikumar, B. R., and Sastry, M. V. B. R. (2001). Stabilizing swelling subgrades with calcium chloride, *Highway Research Bulletin, Vol. 65, Journal of Indian Roads Congress*, pp. 77-82.
80. Chandrasekhar, B. P., Raju, G. V. R. P and Phanikumar, B. R. (2001). Investigations on the Relative Performance of Stabilizing Additives in Black Cotton Soil Subgrades, *Highway Research Bulletin, Journal of Indian Roads Congress*, Vol. 65, pp. 37-49.

(B) Conference Proceedings:

81. Phanikumar, B. R. (2017). A parametric study on collapse potential, *5th International Conference on Civil, Structural and Environmental Engineering, ACSEE, Zurich, Switzerland*.
82. Phanikumar, B. R. (2017). Swelling characteristics of fiber-reinforced expansive soils, *5th International Conference on Civil, Structural and Environmental Engineering, ACSEE, Zurich, Switzerland*.
83. Phanikumar, B. R. (2017). Experimental studies on swelling behaviour of GPA-reinforced expansive clay beds subjected to swell-shrink cycles, *5th International Conference on Civil, Structural and Environmental Engineering, ACSEE, Zurich, Switzerland*.
84. Phanikumar, B. R. (2017). An experimental study on influence of fly ash content and solute concentration on hydraulic conductivity of fly ash stabilised expansive clay liners, *5th International Conference on Civil, Structural and Environmental Engineering, ACSEE, Zurich, Switzerland*.
85. Shabareesh and Phanikumar (2017). Recent advances in durability of concrete, *5th International Conference on Civil, Structural and Environmental Engineering, ACSEE, Zurich, Switzerland*.

86. Shabareesh and Phanikumar (2017). Recent advances in additive-modified self-compacting concrete, *5th International Conference on Civil, Structural and Environmental Engineering, ACSEE, Zurich, Switzerland*.
87. Nagaraju, T. V. and Phanikumar, B. R. (2017). Index and engineering properties of lime-blended expansive soils, *5th International Conference on Civil, Structural and Environmental Engineering, ACSEE, Zurich, Switzerland*.
88. Nagaraju, T. V. and Phanikumar, B. R. (2017). Engineering behaviour of expansive soils modified by lime and rice husk ash, *5th International Conference on Civil, Structural and Environmental Engineering, ACSEE, Zurich, Switzerland*.
89. Phanikumar, B. R. and Nagaraju, T. V. (2016). Effect of rice husk ash (RHA) on the engineering behaviour of expansive clays, *NCS2MCE, CBIT, Hyderabad*.
90. Phanikumar, B. R. (2016). Effect of fly ash content and solute concentration on heave and hydraulic conductivity of fly ash stabilised expansive clay liners, *ICEMRCI 2016*.
91. Phanikumar, B. R. and Muthukumar, M. (2016). Swelling behaviour of GPA-reinforced expansive clay beds subjected to swell-shrink cycles, *Indian Geotechnical Conference IGC 2016, IIT Madras, Chennai, India*.
92. Phanikumar, B. R. and Umashankar, M. (2016). Influence of fly ash content and NaCl concentration on hydraulic conductivity of fly ash stabilised expansive clay liners, *Indian Geotechnical Conference IGC 2016, IIT Madras, Chennai, India*.
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1. Pile Load Test for Nagarjuna Fertilizers and Chemicals (P) Ltd., Kakinada, India.
2. Site Investigation, field testing, and foundation design for Roads & Buildings, Machilipatnam, India.
3. Consolidation tests and reports for Goutami Bridge over the river Godavari, A.P., India.
4. Design of stone columns for a State Government Office Building, Tanuku, India.
5. Investigation of 6 summer storage tanks made of expansive soils, Amalapuram, India
6. Investigation of a collapsed school building constructed on expansive soils, Vijayawada, India.
7. Various consultancy projects from VIT.

Acts as

: Reviewer for various International Journals of Geotechnical Engineering including *ASCE, ASTM, Thomas Telford (UK), Soils and Foundations, Geotextiles and Geomembranes, Geosynthetics International and Geotechnical and Geological Engineering (Netherlands)*