



### **Bio-Data**

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Web: <http://civil.iisc.ernet.in/~siva>  
**Academic Qualifications:** Ph. D (II Sc) - 1977

**Age and Date of Birth:** 61 years; First July, 1951

#### **Membership of Professional Bodies:**

Life Fellow, Indian Geotechnical Society  
Life Member, 1. Clay Mineral Society of India  
2. Instrument Society of India  
3. Indian Society for Analytical Scientists  
Member, International Society for Soil Mechanics and Geotechnical Engineering  
Editor, 1. International Journal of Environmental Protection, World Academic Publishing, Inc.  
2. Recent Trends in Civil Engineering & Technology, STM Journals,  
Member,  
Member,  
1. Member, Academic Council of the Central University of Jammu,  
2. Board of Studies for several many Universities and Institutions like, NIITK, Surathkal, General BOS and related matters, Bangalore University, G Pulla Reddy College of Engineering, S I T Tumkur, BEC, Bagalkote, Adhiyamaan College of Engineering, Hosur,  
3. Member, Governing Council, Cambridge Institute of Technology, Bangalore,  
4. Evaluation and Monitoring Committees, Development of Integrated Waste Processing and Engineered Sanitary Landfill Facilities at Kannahalli, Bangalore,  
5. Member, Expert Committee for fixing qualifications to Scientific Staff Working in KSPCB, evaluation committee of scientist for UPSC, HAL, Selection/Promotions committee for Faculty of National Institute of Technology, Hazratbal, NIIT Surathkal etc.

## **Research Areas / Guidance of Students**

Environmental Geotechnics; Soil Stabilisation; Ground Improvement

Guided 15 students for Ph. D. conferments and guiding another 4 students of Ph. D at present.

Guided 4 students for M.Sc.(Engg.) and Several M E dissertation projects.

Evaluated several Ph. D thesis for Anna University, Andhra University, Cochin University, S V University, Osmania University, NIIT Allahabad, Surathkal, Warangal, Pondichery University, VTU, Belgaum, IIT Madras

Reviewed papers for many international journals and conferences

## **Publications**

Published more than 200 papers in International and National Journals and conference / seminar Proceedings. 4 Chapters in Books, 1 Edited Book

## **Awards**

Received IGS- Industrial and Minerals and Chemicals Company Annual Prize for **Best Paper**- 1995 and 1996

IGS Smt. Indra Joshi Biennial Prize for the Best Paper Published in National / International Conferences/Symposium for the year 2008-09.

Awarded UGC-BSR Grant

## **Teaching**

Teaching at Indian Institute of Science, Bangalore, for over 3 decades.

Delivered several Keynote addresses and invited lectures.

Organised several Short Term Courses and Seminars/Conferences

## **Visits Abroad**

Visited several countries like U S A, Canada, Japan, UK, France, Singapore etc.

## **Guidance of students for research conferment :**

1. K Vijayabhasker Raju (1991). Engineering behaviour of fine grained soils with chemical additives and the governing physico-chemical mechanisms
2. J V Gurumurthy (1993). Behaviour of expansive soils cushioned with stabilized rice husk ash and a critical appraisal of CNS soil as cushion
3. H N Ramesh (1993). Engineering behaviour of lime stablized fine grained soils containing sulphate and the governing physico-chemical mechanisms.
4. V K Stalin (1995). Factors and mechanisms controlling the index properties and engineering behaviour of soil mixtures
5. J P Prashanth (1999). Evaluation of the properties of fly ash for its use in Geotechnical Engineering
6. Lakshmikantha, H. (2001). Stabilised Mineral Liners for Waste Containment Facilities
7. B S Nagendra Prakash (2002) - Removal of Heavy Metal Ions from Fine Grained Soils by Electro Kinetic Extraction
8. Maya Naik (2003) Influence of Diffusion Coefficient and Retardation Factor in Contaminant Transport through Soil Liners

9. B. S. Narendra (2005). Improvement of Strength of Soils at High Water Content Using Pozzolanic Materials
10. Manju (2005). Alkali Induced Heave in Kaolinitic Soils and Remedial Measures.
11. Sankara, G. (2006). Geotechnical Behaviour of Soil Containing Mixed-Layered Illite-Smectite Contaminated with Caustic Alkali,
12. Guru Prasad, B. (2008). Mechanism and Control of Sulphuric Acid Induced Heave in Soils.
13. Hari Prasad Reddy, P. (2008). Remedial Measures for Alkali Induced Heave in Soils.
14. Bharat, T. V. (2010). Modeling of Contaminant Transport through Soils and Landfill Liners.
15. Arif Ali Baig Moghal (2010). Enhancing the Potential of Class F Fly Ashes for Geotechnical and Geoenvironmental Applications.

### **M Sc (Engg.)**

1. T G Sitharam (1986). Some studies on volume change and strength behaviour of soils as affected by environmental factors.
2. J P Prashanth (1993). Physical and engineering properties of soil - fly ash - lime systems
3. S Savitha (1997). Geotechnical evaluation of illite - bentonite mixtures as liners.
4. T V Bharat (2004) Simplified Methods of Evaluation of Diffuse Double Layer Parameters Employed in Geotechnical Engineering.

### **MAJOR PROJECTS HANDLED**

#### **A. Sponsored Research Projects**

1. Decontamination of fine-grained soils by electro kinetic process
2. An integrated study of hydrology and mineralogy for assessment of water quality and quality in sub-catchment watershed.
3. Strategy to counter the effects of pollutants on geotechnical properties of soils
4. Hydro-bio-geochemical Cycles in Two Experimental Watersheds of South India.
5. Sustainable water quality management for greater Visakhapatnam municipal corporation (GVMC) area, Andhra Pradesh

#### **B. Major Consultancy Projects**

1. Design for Hazardous Waste Landfill, for M/s. Mother Earth Environ Tech Private Limited, Bangalore
2. Remedial Measures for Chrome Contamination for M/s. Surya Hard Chrome Private Limited, Bangalore
3. Stability Analysis of Retaining Walls for Walk way portion in Sankey Tank, Bangalore for BBMP, Bangalore
4. Environmental Impact assessment of Iron ore mining on the flora and fauna of Kudremukh National Park, Karnataka
5. Rapid Impact Assessment of Mining of Bauxite ore for INDAL
6. Environmental Impact Assessment Studies for Bauxite Mining in the Inderganj area of Kolhapur District, Maharashtra.
7. Comprehensive Disposal Plan for Solid Waste for the Mysore Paper Mills Limited, Bhadravathi.
8. Investigation of red mud pond stability at Indal Factory, Belgaum.

9. Design of lined pond for caustic alkali liquor, for Hindalco Ltd. Belgaum.
10. Remedial Measures for Upliftment of Working Floor at Hindalco Ltd., Belgaum.
11. Development of Integrated Waste Processing and Engineered Sanitary Landfills at Bangalore, for Bangalore Mahanagara Palike, Bangalore
12. Restoration of Lakes, for Bangalore Mahanagara Palike, Bangalore
13. Protecting Quality of Mount Everest Mineral Water Ltd.

### **Special Lectures Delivered:**

1. Lecture on Electro kinetic remediation of fine grained soils for Karnataka Chapter of Indian Geotechnical Society on 8<sup>th</sup> November, 2002.
2. An invited lecture for AICTE - ISTE Course Advances in Geotechnical Practices for Waste Management during 14-26 July, 2003 at PES College, Mandya.
3. A Guest Lecture for AICTE-ISTE Sponsored Short Term Course on Chemical Engineering Applications in Bio-Technology during 9<sup>th</sup> August to 20<sup>th</sup> August, 2004.
4. An invited lecture for 2-day Programme on Design and Construction of Concrete Foundation in Difficult Soils & Aggressive Environment During 14-15 May, 2004.
5. Lecture during National Seminar on Problems and Remediation of Expansive Soils during 19<sup>th</sup> and 20<sup>th</sup>, 2004 at Basaveshwar Engineering College, Bagalkot.
6. Lecture for Competence Based Education Course: Environmental Management during 3<sup>rd</sup> September to 2<sup>nd</sup> October, 2004 organised by Centre for Ecological Sciences, Indian Institute of Science, Bangalore.
7. A keynote and invited lecture for National Level Workshop on Recent Construction Practices on Expansive Soils, Embankments & Highways at Vijaya Nagar Engineering College, Bellary During 15-16, April, 2005.
8. Invited Lecture at 14<sup>th</sup> Annual Convention and National Symposium of the Clay Mineral Society of India, at IARI. New Delhi on 15<sup>th</sup> July, 2005.
9. Key Note Address at National Conference on Geotechnics in Environmental Protection, at MNNIT, Allahabad on 9<sup>th</sup> April, 2005.
10. Seminar at **Sherbrooke University, Sherbrooke, Canada** on June 8, 2006.
11. Seminar at **Concordia University, Canada** on June 15, 2006.
12. Key Note Address at International Conference on Infrastructure Development on Expansive Soils, during February 1-3, 2006 at Erode.
13. Lecture during National Seminar on Recent Advances in Civil Engineering during September 15<sup>th</sup> and 16<sup>th</sup>, 2006 at Dayananda Sagar College of Engineering, Bangalore.
14. Expert Lecture for National Conference on Environmental Effects on Civil Engineering Structure at Sri Venkateswara university, Tirupathi during 14-15<sup>th</sup> July, 2006.
15. Invited Lecture for Civil Engineering Association on 21<sup>st</sup> September, 2006 at Kongu Engineering College, Erode.
16. Invited lecture on Pozzolanic Stabilization of Swell And Induced Swell In Soils
17. Delivered invited lecture on Fly Ash to Control Swell in Soils, of Two Day Seminar on Improvement of Problematic Soils and the Role of Civil Engineer, held during 17, 18<sup>th</sup> Sep. 2009, at Anna University, Chennai.
18. Delivered lecture at B N M Institute of Technology, Bangalore as chief guest on April 17, 2009. Plastic waste
19. Invited lecture on HANDLING IRREVERSIBLE SWELL IN SOILS at Hubli
20. Delivered lecture Emerging Trends on Green Chemistry at Adhiyamaan College of Engineering, Erode. 5<sup>th</sup> & 6<sup>th</sup> February 2010
21. Lecture on Geotechnical Applications of Fly Ash – Role of Physical and Chemical Properties, at International Conference on Advances in Mechanical and Building Sciences

- in the 3<sup>rd</sup> Millennium, ICAMB- 2009, Held during Dec. 14-16, 2009, at VIT University, Vellore, India.
22. Lecture on Green Energy from Food Processing Waste, for AP Pollution Control Board Sponsored Two Day National Workshop on Environmentally Friendly Food Processing Held at Sri Venkateswara College of Engineering & Technology, at Chittoor, A P. during April 5 and 6<sup>th</sup> 2010.
  23. Lecture on “Infrastructure Development for Waste Management” at National workshop on Geotechnical Engineering for Infrastructural development at Jayachamarajendra College of Engineering, Mysore on 5<sup>th</sup> October, 2010.
  24. Lecture on Pozzolanic Stabilization of Swelling Soils during National Seminar on Foundations and Construction techniques in Soils, in connection with the Birth Anniversary of Karl Terzaghi the father of Soil Mechanics on 2<sup>nd</sup> October, 2010, at Kakinada, A. P.
  25. Invited lecture on Clean and Green Remediation, for National Level Workshop on Emerging Green Technologies for Environmental Sustainability during March 19<sup>th</sup> and 20<sup>th</sup> 2010 at Brindavan Institute of Technology & Sciences, Kurnool.
  26. Invited lecture on “Clays for Environmental Applications” at GPR College of Engineering, Kurnool. A.P.
  27. Invited lecture on SANITARY LANDFILLS FOR MUNICIPAL SOLID WASTE, at Brindavan Institute of Technology & Sciences, Kurnool on January, 22<sup>nd</sup>, 2011.
  28. Invited lecture on “Pozzolanic Stabilization of Expansive Soils” on Role of Geotechnical Engineering in Infrastructural Development on 7<sup>th</sup> January, 2011 at GPR College of Engineering, Kurnool. A.P.
  29. Invited lecture on “Changing Behaviour of Fine Grained Soils at Indian Institute of Technology, Madras for Indian Geotechnical Society, Chennai chapter at Chennai
  30. Lecture on Structural; Distress due to Soil Contamination because of Industrial “Chemical Waste and Remediation” at National Work shop on Recent Advances in Geotechniques RAG- 11, for Infrastructure Developments, 18<sup>th</sup> June, 2011 organised by Indian Geotechnical Society, Baroda Chapter at Vadodara.
  31. Invited lecture on Environmental Perspective for Geotechnical Engineers, at National Seminar on Advances in Geotechnical Engineering, on 3<sup>rd</sup> September, 2011 organised by Indian Geotechnical Society Hubli-Dharwad Chapter at BVB College of Engg. & Tech. Hubli.
  32. Invited lecture on Soil contamination leading to problems and its restoration on 20<sup>th</sup> January, 2012 AT Seminar on Geotechnology and its importance in structures organized by INSTRUCT at Atria Hotel Bangalore pp. A4-A26.
  33. Invited Presentation on Emerging Trends in Solid Waste Disposal, at National Seminar on A Global Vision on Environmental Pollution held during 2<sup>nd</sup> and 3<sup>rd</sup> March, 2012 at Govt. College for Men, Kurnool.
  34. Keynote address on “Increased Water Scarcity and Conflicts due its Pollution” in the National Seminar on Climate Change and Sustainable Management of Water Resources (CCWR-2012) organized by Gitam University, Visakhapatnam during 17& 18, March, 2012.
  35. Keynote address on “Pozzolanic Stabilisation of Soils” in the International Conference on Advances in Architecture and Civil Engineering, June 21-23, 2012. At MSRIT, Bangalore.

## PUBLICATIONS

### Journals

1. Accurate estimation of hexavalent chromium concentration in soil, sediments and effluents in the presence of Zn and Fe, Ramesh, A., Nagendra Prakash, B. N., and Sivapullaiah, P. V. *International Journal of Earth Sciences & Engineering* (In Press).
2. Effect of Organic Modification on Adsorption Behaviour of Bentonite, Vandana Sreedharan and Sivapullaiah, P. V. (2012). *Indian Geotechnical Journal* (Accepted).
3. Identification of source of heavy metal contamination in a site- a case study, A. Ramesh, Dr. B.N.Nagendra prakash, Dr. P.V. Sivapullaiaiah, *Int. Natl. Journal of Environment and Waste Management, Inder Science* (Accepted).
4. Robust solver based on modified particle swarm optimization for improved solution of diffusion transport through containment facilities (2012). Bharat, T. V., Vol. 39, 10812-10820. Sivapullaiah, P. V. and Allam, M. M. *Expert system with Application*, **DOI:** 10.1016/j.eswa.2012.03.013
5. Assessment of ground water quality in designated Peenya industrial Area and Estate, Bangalore, India-A case study, Ramesh, A., Nagendra Prakash, B S N., Sivapullaiah, P. V. and Sadhashivaiah, A. S. (2012). *International Journal of Environmental Protection* (Accepted).
6. Diffusion coefficient of ions in migration through soil liners, Ramakrishna C. H., Maya Naik, Sumalatha, J., and Sivapullaiah, P.V. (2011). *International Journal of the Physical Sciences*, Vol. 6 (30), pp. 7044 - 7054, 23 November, 2011 DOI: 10.5897/IJPS10.403
7. Geotechnical properties of Shedi Soil affected by Alkali Contamination, Gowda, R. K., Yazi, R. K., Shivashankar, R., and Sivapullaiah, P. V. (2011). *International Journal of Environmental Protection*, Vol. 1, 45-52.
8. Disposal options for solid waste of Bangalore city based on its characteristics, Naveen, B. P., Sivapullaiah, P. V., and Sitharam T. G. (2011). *Int. Natl. Journal of Environment and Waste Management, Inder Science* (Accepted).
9. Characterization of Dispersive Soils, Umesh, T. S., Dinesh, S. V., and Sivapullaiah, P. V. (2011). *Materials Sciences and Applications*, 2, 629-633. Published Online June 2011 doi:10.4236/msa.2011.26085 (<http://www.SciRP.org/journal/msa>)
10. Role of Gypsum in the Strength Development of F Fly Ashes with Lime, Sivapullaiah P.V., and Arif Ali Baig (2011), *ASCE Journal of Materials in Civil Engineering*, Vol. 23, 197-206.
11. Gypsum Treated Fly Ash As A Liner For Waste Disposal Facilities, Sivapullaiah P.V., and Arif Ali Baig M. (2010), *Waste Management* 31, 359-369.
12. Geotechnical Properties of Pore Fluid Contaminated Soils, Umesh, T. S., Dinesh, S.V. and Sivapullaiah, P. V. (2010). *International Journal of Earth Sciences and Engineering*, Volume 3, SPECIAL ISSUE, January 2010, Pages 27-40.
13. Impact of Sulphate Counter Ion In The Migration of Sodium Ion through Soils, Sivapullaiah, P. V., Maya Naik, Hari Prasad Reddy, P. and Sumalatha, J. (2010). *Materials Sciences and Applications*, 1, 46-52. DOI: 10.4236/msa.2010.12009

14. CBR and Strength Behavior of Stabilised Low Lime Fly Ashes. Sivapullaiah, P. V. and Arif Ali Baig, M. (2010). International Journal of Geotechnical Engineering (In Press).
15. Reliability Analysis of Strength of Cement Treated Soils, Sivakumar Babu, G. L., Amit Srivatsava and Sivapullaiah, P. V. (2010). Georisk, Vol. 5, 157-162. DOI : 10.1080/17499518.2010.490116
16. Leachability of Trace Elements from Two Stabilized Low Lime Indian Fly Ashes. Sivapullaiah, P. V. and Arif Ali Baig, M. (2010). Environmental Earth Sciences (DOI: 10.1007/s12665-010-0487-5).
17. Role of Moulding Water Content in Lime Stabilisation of Soils, Ramesh, H. N. and Sivapullaiah, P. V. (2010). Ground Improvement, Vol. 164, 15-19. DOI 10.1680/grim.900040.
18. Potassium chloride treatment to control alkali induced heave in black cotton soil, Sivapullaiah, P. V. and Hari Prasad Reddy, P. (2010). Geotechnical and Geological Engineering, Vol. 28, 27-36.
19. Sitaram Nayak, B M Sunil, SriHari and P V Sivapulliah (2010). Interaction between soils and laboratory simulated electrolyte solution Journal of Geotechnical and Geological Engineering, Springer, Vol. 28, 899-906.
20. Mineralogical changes and geotechnical properties of expansive soil interacted with caustic solution, Sivapullaiah, P V. Sankara, G., and Allam, M M (2009), Environmental Earth Science, DOI 10.1007/s12665-009-0260-9.
21. Fly Ash to Control Alkali Induced Volume Changes In Soils, Sivapullaiah, P. V. and Hari Prasad Reddy, P. (2009). Ground Improvement, 162, 167-173.
22. Swarm intelligence-based solver for parameter estimation of laboratory through-diffusion transport of contaminants, Bharat, T. V., Sivapullaiah, P. V., and Allam, M. M. (2009), Computers and Geotechnics, Vol.984-992.
23. Swarm Intelligence Based Inverse Model for Characterization of Groundwater Contaminant Source, Bharat, T. V., Sivapullaiah, P. V. and Allam, M. M. (2009), Electronic Journal of Geotechnical Engineering, Vol.14, Bundle B (<http://www.ejge.com/2009/Ppr0850/Ppr0850.pdf>)
24. Effect of Sulfuric Acid on Swelling Behaviour of an Expansive Soil, Sivapullaiah, P. V., Guru Prasad, B., Allam, M. M. (2009). Soil and sediment Contamination, Vol.18 Issue 2, 121.
25. Modeling Sulfuric Acid induced Swell in Carbonate Clays using Artificial Neural Networks, Sivapullaiah, P. V., Guru Prasad, B., Allam, M. M. (2009), Geomechanics and Engineering. Vol.1, No. 4.
26. Methylene Blue Surface Area Method to Correlate with Specific Soil Properties. P V Sivapullaiah, B. Guru Prasad and M M Allam (2008), ASTM Geotechnical Testing Journal, 31(6), 503-512.
27. Electro osmotic flow behaviour of metal contaminated expansive soil, P. V. Sivapullaiah and B. S. Nagendra Prakash (2007), Special Issue of Hazardous Waste Management 143: 682-689.
28. Induced swelling of kaolinitic soil in alkali solution, Soils and Foundations, Sivapullaiah, P.V. and Manju (2007) Vol. 47, 59-66.

29. Effect of Zeolitization on the Swell Behaviour of Kaolinitic Soils, P. V. Sivapullaiah and Manju (2006), Canadian Geotechnical Journal, Vol. 43, 969-978.
30. Prediction of Unconfined Compressive Strength of Soft Grounds using Computational Intelligence Techniques: A Comparative Study, B. S. Narendra, P. V. Sivapullaiah, S. Suresh and S. N. Omkar (2006), Computers and Geotechnics, Vol. 33, pp. 196-208.
31. Lime treatment to control alkali induced heave in soils, P V Sivapullaiah and Manju (2006). Ground Improvement, Vol. 1-38.
32. Effect of sulphate on the shear strength of lime treated kaolinitic soil. P V Sivapullaiah, A Sridhran and H N Ramesh, (2006), Ground Improvement, Vol.3-30.
33. Relative Performance of lime Stabilised Mineral liners in Different Pore Fluid, Lakshmikantha H. and Sivapullaiah, P. V. (2006). Geotechnical and Geological Engineering 24, 425-1448.
34. Ferric Chloride Treatment to Control Alkali Induced Heave In Weathered Red Earth, P. V. Sivapullaiah and Manju. (2006). Geotechnical and Geological Engineering, Vol.115-1130.
35. Kaolinite – alkali interaction and effects on basic properties, P. V. Sivapullaiah and Manju. (2005). Geotechnical and Geological Engineering. Vol. 23, pp.601-614.
36. Chemical Compatibility of lime stabilised Indian red earth as Liner Material, P V Sivapullaiah and H. Lakshmikantha (2005). Journal of Soil and Sediment Contamination Vol. 14, 515-526.
37. Mini Compaction Test Apparatus for Fine Grained Soils, A. Sridharan and P. V. Sivapullaiah (2005). ASTM Journal of Testing and Evaluation, Vol. 28, pp. 240-246.
38. Lime stabilised illite as Liner, P. V. Sivapullaiah and H. Lakshmikantha (2005). Ground Improvement Vol. 9, 39-45.
39. Geotechnical Properties of Cement Treated Illite as Hydraulic Barrier, Lakshmikantha H. and Sivapullaiah, P. V. (2004). Clay Research, Vol. 22, 29-40.
40. Reliability of Illite as Liner Material under Chemical Environment, Lakshmikantha H. and Sivapullaiah, P. V. (2004). Clay Research, Vol. 22, 1-12.
41. Groundwater Flow Modeling of Gundal Sub-basin in Kabini River Basin, India, M. Sekhar, Rasmi, S. N., P. V. Sivapullaiah and L. Ruiz. (2004) Asian Journal of Water, Environment and Pollution, Vol.1, pp. 65-77.
42. Stabilisation of rice husk ash for use as cushion below foundations on expansive soils, P.V. Sivapullaiah, K. S. Subba Rao, and J. V. Gurumurthy. (2004). Ground Improvement, Vol. 7, pp 137-149.
43. Properties of Fly Ash as hydraulic Barrier, Sivapullaiah. P.V, and Lakshmikantha, H. (2004). Soil and Sediment Contamination, 13, 489-504.
44. Optimum lime content of fly ash with salt, Narendra, B. S., Sivapullaiah, P. V. and Ramesh, H. N. (2003), Ground Improvement, Vol. 7, pp. 187-191.
45. Geotechnical Properties of Stabilised Indian Red Earth, Sivapullaiah. P.V, Lakshmikantha, H., and Madhu Kiran, K. (2003). Geotechnical and Geological Engineering, Vol. 21, 399-413.
46. Pozzolanic fly ash as hydraulic barrier in land fills, J.P. Prashanth, P. V. Sivapullaiah and A. Sridharan (2001). Engineering Geology, Vol.245-252.



47. Optimum Lime Content for Fly Ashes and the Role of the curing Period, Sivapullaiah, P V, Prashanth, J.P., and Sridharan, A. (2000), ASTM Journal of Testing and Evaluation, Vol. 28, 499-506.
48. Consolidation Behavior of Bentonite in Electrolyte Solutions, Sivapullaiah, P V and Savitha S, (2000), ASTM Journal of Testing and Evaluation, Vol. 28, 519-525.
49. Strength Behaviour of Lime Treated Soils in the presence of Sulphate, Sivapullaiah, P. V., Sridharan, A. and Ramesh, H.N.(2000). Canadian Geotechnical Journal, Vol. 37, 1358-67.
50. Hydraulic Conductivity of Bentonite - Sand Mixtures, Sivapullaiah, Sridharan, A., and Stalin, V.K. (2000), Canadian Geotechnical Journal, Vol. 1-8.
51. Role of Amount and Type of Clay in the Lime Stabilisation of Soils, Sivapullaiah, Sridharan, A., and Bhaskar Raju, K.V.(1999), Ground Improvement Vol.3, 1-9.
52. Clay Mixtures as Liners for Waste Disposal Facilities, Sivapullaiah, P V. and Savitha, S. (1996), Vol.15, 35-43.
53. Improvement of Strength of Fly Ash with Lime and Sodium Salts, Ramesh, H.N., Siva Mohan, M. and Sivapullaiah, P.V. (1999), Ground Improvement, Vol. 3, 163-167.
54. Index properties of illite - bentonite mixtures in electrolyte solutions, Sivapullaiah, P.V. and Savitha, S. (1999). ASTM Geotechnical Testing Journal Vol.22, 1999, 71-79.
55. Compaction Behavior of Fly ashes, Prashanth, J.P., Sivapullaiah, P.V., and Sridharan, A. Ground Improvement, 1999. , Vol. 3, 77-88.
56. Effect of Delay Between Mixing and Compaction on Strength and Compaction Parameters, Sivapullaiah, P.V., Prashanth, J.P., and Sridharan, A. (1998), Geotechnical Engineering Bulletin, Vol.7, 277-286.
57. Reactive silica and strength of fly ashes, Sivapullaiah, P.V., Prashanth, J.P., Sridharan, A, and Narayana, B.V. (1998), Geotechnical and Geological Engineering, Vol.16, 239-250.
58. Compaction Curves on Volume Basis, Prashanth, J.P., Sivapullaiah, P.V., and Sridharan, A. (1998), ASTM Geotechnical Testing Journal, Vol.21,58-65.
59. Delay in compaction and importance of lime fixation point on strength and compaction characteristics of soil, Sivapullaiah, P.V., Prashanth, J.P. and Sridharan, A (1998), Ground Improvement, Vol.2, 1998, 27-32.
60. Effect of fly ash on the unconfined strength of black cotton soil, Sridharan, A., Prashanth, J.P., and Sivapullaiah, P.V. (1997), Ground Improvement, Vol.1,169-175.
61. The Role of Dolomitic Impurity on the Properties of Lime Treated Soil, Sivapullaiah, P.V., Sridharan, A and Raju, K.V.B. (1997), Indian Geotechnical Journal, Vol. 27, 377-394.
62. Swelling Behaviour of Soil-Bentonite Mixtures, Sivapullaiah, P.V., Sridharan, A., and Stalin, V.K. (1996), Canadian Geotechnical Journal, Vol.33/5, 808-814.
63. Effect of Fly Ash on the Index Properties of Black Cotton Soil, Sivapullaiah, P.V., Prashanth, J.P., and Sridharan, A. (1996), Soils and Foundations, Japan, Vol.36, 1996, 97-103.

64. Mechanisms controlling the index properties of lime treated black cotton soil in the presence of sulphate, Sivapullaiah, P.V., Sridharan, A., and Ramesh, H.N.(1995), *Indian Geotechnical Journal*, Vol.25, 379-394.
65. Optimization of lime content of fly ash, Sivapullaiah, P.V., Sridharan, A. and Prashanth, J.P.(1995), *ASTM J. of Testing and Evaluation*, Vol.23, 222-227.
66. Effect of short duration of loading on the compressibility characteristics of soils, Sridharan, A., Sivapullaiah, P.V., and Stalin, V.K. (1995), *ASTM Geotechnical Testing Journal*, Vol.17, 488-496.
67. Dimethyl Sulphoxide and Dimethyl Formamide Complexes of Kaolinite and Montmorillonite Clays, Sivapullaiah, P.V., Sitharam, T.G., and Subba Rao, K.S. (1994), *Clay Research*, Vol.13, 16-23.
68. Effect of sulphate on the physical properties of lime stabilized kaolinitic soil. *Clay Research Journal*, Vol.11, 1992, 6-12.
69. Clay organic interaction - Consolidation behaviour, Sivapullaiah, P.V., Sitharam, T.G. and Subba Rao, K.S. (1987), *Clay Research Journal*, Vol.6, 76-80.
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