

BIO-DATA

Name : Dr. M.V.S.Sreedhar

Designation : Associate Professor
Dept. of Civil Engineering, UCE(A), OU

Educational Qualifications : Ph.D. (Civil / GTE) : OU, 2013
M.Tech (Civil / GTE): IITB, 1994
B.Tech (Civil) : JNTUCEA, 1992

Professional Experience : Industry : 7 years
Teaching : 16 years

Academic Performance :
Subjects taught in **BE-CIVIL** : Soil Mechanics
Foundation Engineering
Ground Improvement Techniques

Subjects taught in **ME-GTE** : Advanced Soil Mechanics
Foundation Engineering – II
Soil Dynamics & Machine Foundations
Ground Improvement Techniques
Sub-Surface Exploration Methods

Research Performance:

ME-GTE Dissertations supervised : 28
BE projects in GTE area supervised : 30
No. of publications in Journals : 8
No. of publications in Conferences : 25
No. of chapters in Books : 3
No. of Sponsored Research projects : 3

Research Areas of interest:

Applications of Geosynthetics, Pavement Geotechnics
Correlation between monotonic and cyclic behavior
Effect of fines, Effect of Saturation, Behavior of soil mixtures
Utilization of Pond Ash and Constructions on Abandoned Ash Ponds etc.

Title of Thesis:

Ph.D. : Monotonic and Cyclic Response of Geosynthetic Reinforced Pond Ash
M.Tech : Study of Consolidation process in a small sized Geotechnical Centrifuge
B.Tech : Design of a Balanced Cantilever Bridge

Consultancy Performance

GT Investigations & BC Reco.	:	244 Sites
Ground Improvement Reco.	:	4
Forensic GT Investigations	:	5
Routine Laboratory Tests	:	1824 Assignments
GT Proof Check	:	12

Conferences / Workshops

Organised as a convener	:	6
Organized as a member	:	18
Attended	:	24
Sessions Chaired	:	6

Expert lectures delivered : 84

Contribution to the Dept. / Institution : Coordinator, TEQIP-II
Coordinator, NBA, GTE Specialization
Member, NBA Co-ord.Team, UCE(A),OU.
Incharge, GTE Laboratory
Faculty Advisor, GTE Specialization
Member, Department Committee & DRC, CED.
Member, Purchase Committee, CED.

Achievements : Consistently good feedback from students
Pursued Ph.D. work in OU, effectively utilizing the procurements under TEQIP-I
Contributed to IRG through consultancy

Self Appraisal / SWOT Analysis

Strengths	:	Adequate academic, research & consultancy capabilities. Cooperation from CED/UCE/OU
Weaknesses	:	Only one faculty member in GTE specialisation. Excessive academic pressure. Shortage of motivated students & Laboratory staff.
Opportunities	:	Prospects of recruitment of new faculty in GTE Allocation of new Res. Projects & Scholars.
Threats	:	Effect on personal health due to over stress.

Vision : To be a renowned Teacher & a reputed researcher.
To take up research that contribute to the sustainable development of the society.

Mission : Interaction with the higher learning institutions.
Identification of the thrust areas.
Integrating the available resources.
Conduct of purposeful research.

Details in the following pages

Appointments held prior to joining in the Osmania University service

Designation	Name of the Employer	Date of		Salary with Grade pay	Reason for Leaving
		Joining	Leaving		
Jr. Manager (Civil Engg.)	NMDC (A Govt. of India Enterprise)	18.12.95	19.01.98	Central Gazetted	Lack of scope for research and innovation.
Asst. Executive Engineer (Civil)	PRED, Govt. of Andhra Pradesh	20.01.98	05.02.2002	State Gazetted	

Posts held after appointment in the Osmania University

Designation	Department	Date of actual Joining		Grade (AGP) Rs.
		From	To	
Asst. Professor	Civil Engineering	06-02-2002	05-02-2007	6000
Asst. Professor – Sr.Scale	Civil Engineering	06-02-2007	05-02-2012	7000
Asst. Professor – Sel. Grade	Civil Engineering	06-02-2012	05-02-2015	8000
Associate Professor	Civil Engineering	06-02-2015	Till date	9000

Sponsored Research Projects : (Details in the picture gallery from page-9 onwards)

1. “Effectiveness of different stabilizers on stabilization of soft clays of Telangana Region – A comparative Study”, Sponsored under **TEQIP-II Seed Money Project**, Project cost Rs. 1.00 lakh - Completed.
2. “Development of a model for effectiveness of Geosynthetics in erosion control”, Sponsored by **M/s GEOSOL Associates, Hyderabad**, Cost Rs. 1.20 lakh - completed.
3. “Laboratory Investigations on the Uplift Capacity of Shallow Foundations” Sponsored by **M/s RAMBOLL Engineers, Hyderabad** – Cost Rs. 3.20 lakh – in progress

Chapters in Books :

S.no.	Title with page no.	Book title, editor & publisher	ISSN / ISBN No./ Year of Publication
1	Chapter 9 Geotechnical Investigations for Design & Construction of Reinforced Soil Structures (pp.122-132)	Advances in Geosynthetics G.V.Rao & G.V.S.S.Raju SAGES publications, Hyderabad.	ISBN 978-81-921790-3-2 (2012)
2	Chapter 19 Geosynthetic Reinforced Pond Ash (pp.246-274)	Advances in Geosynthetics G.V.Rao & G.V.S.S.Raju SAGES publications, Hyderabad.	ISBN 978-81-921790-3-2 (2012)
3	Chapter 9 “Geotechnical Investigations for Design and Construction of Reinforced Soil Structures”, , pp.122-131.	“Earth reinforcement – Design and construction” , Central board of Irrigation & Power.	ISBN 81-7336-321-8 (2012)

Journal Publications :

1. Sreedhar, M.V.S., Venkatappa Rao, G and Ramesh Reddy, R. (2011), "*A constitutive model for bearing capacity of Pond Ash based on laboratory model tests*", International Journal of Earth Sciences & Engineering, Spl.issue,October,2011,pp.7-10.
2. Heeralal, M., Sreedhar, M.V.S. and Yakaiah, B. (2011), "*Investigations on dynamic response of coir reinforced fly ash stabilized black cotton soil*", Journal of Environmental Research and Development, Vol.6, Issue 2, Oct-Dec, 2011, pp. 212-221.
3. Rao, G.V. and Sreedhar, M.V.S. (2015), "*Pre-fabricated Vertical Drains – Recent Developments*", Journal of the Indian National Group of the International Association for Bridge and Structural Engineering, B&SE, Vol.45, No.4, December-2015, pp.54-63.
4. Sriharsha, B. and Sreedhar, M.V.S. (2016), "*Development of Correlation between Un-soaked and Soaked CBR Values*", International Journal of Emerging Technology and Advanced Engineering, Vol.6, Issue 11, November-2016, pp. 37-41.
5. Sreedhar, M.V.S. and Zainab Fatima (2017), "*Influence of Plastic Fines on Compaction and CBR Characteristics of Soil Mixtures*", International Journal of Engineering Research & Technology, Vol.6, Issue 07, pp.233-239.
6. Sreedhar, M.V.S. and Zainab Fatima (2017), "*Influence of Plastic Fines on Compaction and Shear Strength Characteristics of Soil Mixtures*", Australian Journal of Engineering and Technology Research , Vol.2, Issue 02, pp. 15-34.
7. Sreedhar, M.V.S., (2017), "*Model studies on the Effect of Cavity on Bearing Capacity of a Shallow Foundation*", International Journal of Emerging Technology and Advanced Engineering, Vol. 7, Special Issue 2, December-2017, pp. 583-587.
8. Sreedhar, M.V.S., (2017), "*Laboratory Investigations on Carrying Capacity of Piles in Ash Ponds*", International Journal of Emerging Technology and Advanced Engineering, Vol. 7, Special Issue 2, December-2017, pp. 588-591.

Conference Publications – International :

9. Venkatappa Rao, G. and Sreedhar, M.V.S. (2012), "*Monotonic and Cyclic behavior of Pond Ash reinforced with Coir geotextile*", Geosynthetics Asia, GA-2012, Bangkok, pp.907-915.
10. Venkatappa Rao, G. and Sreedhar, M.V.S. (2012), "*Static and Cyclic behavior of Pond Ash reinforced with a non-woven geotextile*", Geosynthetics Asia, GA-2012, Bangkok pp.1044-1050.
11. Sreedhar, M.V.S., (2017), "*Model studies on the Effect of Cavity on Bearing Capacity of a Shallow Foundation*", International Conference on Innovations in Structural Engineering, CED, OU, Hyderabad (28-31, Dec-2017) pp. 563-565.
12. Sreedhar, M.V.S., (2017), "*Laboratory Investigations on Carrying Capacity of Piles in Ash Ponds*", International Conference on Innovations in Structural Engineering, CED, OU, Hyderabad (28-31, Dec-2017) pp. 563-565.

Conference Publications – National :

13. Sreedhar, M.V.S., Prashanth Kumar, C and Raju, P.T. (2017), “*Laboratory Evaluation of Erosion Control Using Coir Geoproducts*”, IGC-2017, IIT, Guwahati (14-16, December-2017), pp.1-4.
14. Sreedhar, M.V.S. and Abhishek, J. (2016), “*Effect of Geosynthetic Reinforcement on Dynamic Characteristics through Model Block Resonance Tests*”, IGC-2016, IIT Madras, paper no. 289, pp. 1-4.
15. Sreedhar, M.V.S. and Karunakar, J. (2014), “*Effectiveness of Bamboo products as Georeinforcement – A comparative study*”, IGC-2014, JNTU Kakinada, pp. 1373-1377.
16. Sreedhar, M.V.S. et.al.(2013), “*Effectiveness of Bitumen Stabilizer Pond Ash As On Overlay On Soft Clayey Silt*”, IGC-2013,IIT Roorkey, pp.216-220.
17. Sreedhar, M.V.S. et.al.(2013), “*Shear Strength of Fiber Reinforced Pond Ash*”, IGC-2013,IIT Roorkey, pp.238-242.
18. Sreedhar, M.V.S. (2013), “*Distress of base of a Raw Water Collection Tank due to Seepage Pressure – A case study*”, RACE-2013,OU, Hyderabad, Pp. 125-128.
19. Sreedhar, M.V.S. (2013), “*Investigations on the feasibility of construction of structures on abandoned ash ponds*”, RACE-2013,OU, Hyderabad, Pp. 478-484.
20. Sreedhar, M.V.S. and Prathibha, A. (2012), “*Investigations On Effectiveness Of Geo-Synthetic Reinforced Pond Ash On Overlay On Soft Clay Sub Grade*”, National Conference on Recent Advances in Geo-Sciences, Engineering and Technology (NCRAGE), JNTU Kakinada (20-21 December, 2012), pp.255-262.
21. Sreedhar, M.V.S. and Rambabu, P. (2012), “*Study Of Geocell As a Basal Mattress For Improvement Of Bearing Capacity Of Soft Soils*”, National Conference on Recent Advances in Geo-Sciences, Engineering and Technology (NCRAGE), JNTU Kakinada (20-21 December, 2012), pp. Pp.325-332.
22. Sreedhar, M.V.S., Venkatappa Rao, G. and Ramesh Reddy, R. (2011), “*Bearing Capacity of Pond Ash reinforced with a non-woven geotextile*”, Indian Geotechnical Conference, IGC-2011, Kochi, pp.545-548.
23. Sreedhar, M.V.S., Venkatappa Rao, G. and Ramesh Reddy, R. (2011), “*Bearing Capacity of Pond Ash reinforced with a coir geotextile*”, National conference on recent advanced in Civil Engineering, RACE-2011, IT, BHU, pp.584-587.
24. Sreedhar, M.V.S., Venkatappa Rao, G. and Ramesh Reddy, R. (2011), “*Influence of crushability and migration of moisture on CBR characteristics of Pond Ash*”, National conference on recent advanced in Civil Engineering, RACE-2011, IT, BHU, pp.388-391.
25. Sreedhar, M.V.S. and Pradeep Kumar Goud, A. (2011), “*Behaviour of Geosynthetic Reinforced Sand Bed under Cyclic Loading*”, IGC-2011, Kochi, pp. 519-522.
26. Sreedhar, M.V.S. and Manoj, K. (2011), “*Compaction and CBR characteristics of Lime Stabilised Pond Ash*”, Indian Geotechnical Conference, IGC-2011, pp.697-699.
27. Sreedhar, M.V.S., Srinivasa Reddy, Y. and Jyothi, A. (2011), “*CBR characteristics of pond ash with reinforcement in fabric and fiber forms*”, Indian Geotechnical Conference, IGC-2011, Kochi, pp.549-552.
28. Sreedhar, M.V.S., Sujan, M. (2011), “*Investigations on Effectiveness of Fly Ash as a Stabilizer of Soft Clay in Admixed and Overlay Forms*”, Third Indian Young Geotechnical Engineers Conference (3IYGEC), New Delhi, 25-26, March,2011,pp.205-210.
29. Sreedhar, M.V.S. et.al (2009), “*Investigations on the role of fines content on CBR Characteristics of Sand-Clay mixtures*”, IGC-2009, Guntur, pp. 198-200.
30. Sreedhar, M.V.S. (2009), “*Investigations on the effect of Reinforcement in Planar and Fiber forms on CBR value of Sand*”, IGC-2009, Guntur, pp. 194-197.

31. Sreedhar, M.V.S. (2008), “*Improvement of Bearing Capacity of Sand Reinforced with Randomly Distributed Polypropylene Staple Fiber*”, National Conference on Urban Infrastructure Development – Issues & Challenges, 18-19, December-2008, pp 173-180.
32. Sreedhar, M.V.S. (2008), “*Evaluation of Compaction, CBR and Swell Characteristics of a BC Soil admixed with Lime and Fly Ash*”, IGC-2008, IISc., Bangalore, pp.46-49.
33. Sreedhar, M.V.S. (2007), “*Study of Liquefaction behavior of Aleru River Sand*”, National Conference on Recent Developments in Geotechnical Engineering and Rock Mechanics, NCGRM, Pune.

Research Guidance – ME Dissertations

S.no.	Name of the Student	Title of the Thesis	Year Awarded
1	Ms. G.S.Kalyani (0105-1124)	Parametric Study on Liquefaction behavior of Aleru River Sand	2006-07
2	Ms. Amina Sarwar (0106-1129)	Effect of Clay on Liquefaction Behaviour of Sand-Clay Mixtures	2007-08
3	Mr. G. Laxman (0106-1124)	Evaluation of Compaction, CBR and Swell Characteristics of a BC Soil admixed with Lime and Fly Ash	2007-08
4	Mr. B. Vijaya Kumar (0106-1130)	Effectiveness of Pond Ash to serve the function of Cushion – A comparison with Sand	2010-11
5	Mr. B. Yakaiah (0107-1128)	Investigations on dynamic response of coir reinforced fly ash stabilized black cotton soil	2008-09
6	Mr. K. Manoj (1005-09-741301)	Investigations on CBR characteristics of Pond Ash stabilized using Lime and Cement	2011-12
7	Mr. A.Pradeep Kumar (1005-09-741303)	Behaviour of Geosynthetic reinforced Sand Bed under Cyclic loading	2011-12
8	Mr. M. Sujan (0109-1123)	Investigations on Effectiveness of Fly Ash as a Stabilizer of Soft Clay in Admixed and Overlay Forms	2011-12
9	Ms. A.Prathibha (1005-10-741301)	Investigations on Effectiveness of Pond Ash as an Overlay on Soft Clayey Sub-grade	2012-13
10	Mr. Rambabu, G. (1005-10-741303)	Study of Geocell as a Basal Mattress for improvement of Bearing Capacity of Soft Soils	2012-13
11	Endalamaw Aragie Tefera (1005-11-741306)	Improvement of Expansive Soft Ground using Wood Ash and Geotextile Encased Columns	2013-14
12	Mr. Karunakar, B (1005-11-741308)	Effectiveness of Bamboo Products as Geo-reinforcement – A comparative Study	2013-14
13	Mr. Mustafa Ahmadi (1005-11-741307)	Effect of Saturation on Bearing Capacity of Pond Ash	2013-14
14	Mr. Sriharsha, B (1005-12-741309)	Role of Sand Bed Beneath the Foundation on the Soil-Structure Interaction	2013-14
15	Mr. Mohammad Muzaffar Khan (1005-12-741306)	Effect of Density of Fill Material on Performance of Reinforced Soil Wall Models	2013-14

16	Mr. J.Abhishek (1005-13-741301)	Response of Geosynthetic Reinforced Soil Beneath Machine Foundation	2014-15
17	Ms. Swetha Rani, M (1005-13-741309)	CBR Characteristics of Zycobond and Terrasil Stabilized Clay – A comparison with Cement Stabilization	2014-15
18	Mr. Rakesh, G. (1005-13-741306)	Effect of Saturation on Improvement of Soft Clay partially replaced by Geosynthetic Rock Dust	2015-16
19	Ms. Anooa Jadhav (1005-13-741303)	CBR Characteristics of Clay stabilized using Fly Ash and Pond Ash- A comparative Study	2016-17
20	Ms. Zainab Fathima (1005-14-741306)	Influence of Plastic Fines on Geotechnical Characteristics of Soil Mixtures – A study in to possible correlations	2016-17
21	Ms. S. Ravali (1005-14-741307)	Effectiveness of Sugarcane Bagasse Ash in Stabilisation of Soil – A comparison with Cement	2016-17
22	Ms. P. Sravanthi (1005-14-741310)	Effect of shape and depth factors on Bearing Capacity of Shallow Foundations on Pond Ash	2016-17
23	Mr. A.V.Dheeraj Ram (1005-15-741301)	Capacity of Piles in Pond Ash based on Model Pile Load Tests	2017-18
24	Mr. Mohammad Noor Ibrahim H.K. (1005-15-741310)	Influence of Cavity Beneath Shallow Foundation on Bearing Capacity – An experimental and Numerical Study	2017-18
25	Mr. C.Prashanth Kumar (1005-15-741312)	Effectiveness of Coir Geo-products in Erosion Control Applications	2017-18
26	Mr. Mohammed Abdalla Yagoup (1005-16-741311)	Monotonic and Cyclic response of a model footing resting on Geosynthetic Reinforced Pond Ash Bed	2018-19
27	Mr. Moamer Raek Hussain Al-Samomi (1005-16-741312)	Effect of Submergence on the Bearing Capacity of Geosynthetic Reinforced Clayey Sand Bed	2018-19
28	Mr. T.Harish (1005-16-741302)	Laboratory Model Studies on the Effect of Dry Density on Embankment Soil Erosion	2018-19

Conferences / Workshops Organised :

1. A two day National Workshop on “**Ground Improvement Techniques**”, 2008.
2. A two day National Conference on “**Geosynthetic Reinforced Structures**”, 2010.
3. A two day National Conference on “**Geosynthetics in Infrastructure – Issues and Challenges**”, 2012.
4. A two day Workshop on “**Research Methodologies**”, 12-13, Sep. 2014.
5. A one day seminar on “**Combating Corruption – Technology as an enabler**”, 29th Oct-2014.
6. A three day Students Symposium, **NIRMAAN-2015**
7. A three day Students Symposium, **NIRMAAN-2016**

Major Consultancy Projects completed :

I. Geotechnical Investigations & Bearing Capacity Recommendations

1. Rajiv Gandhi Institute of Medical Sciences, Ongole
2. Southside development of Yadagirigutta Temple
3. Review of Foundation Recommendations in IIIT, Basar campus.
4. Construction of Educational Institution near Machilipatnam and others.

II. Ground Improvement Recommendations

1. Construction of WTP in Kodandapur
2. Construction of STP in Bihar
3. Development of Roads in RIMS, Ongole
4. Foundation construction feasibility of a GHMC Office complex and others

III. Forensic Geotechnical Investigations

1. Failure of a bridge abutment near Vijayawada
2. Evaluation of foundation capacity of a G+5 building in Mehdipatnam
3. Distress of a Electrical substation in Mahaboobnagar
4. Distress of a M/s BPCL RO in Manavpadu and others

IV. Proof Check of Geotechnical Reports

1. GTI Reports pertaining to Minor Bridges in Southern Railways for M/s Aarvee Associates
2. GTI Reports pertaining to Major Bridges in Southern Railways for M/s Aarvee Associates

Thank you
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A glimpse of Research and consultancy works performed follows

GLIMPSES OF RESEARCH AREAS

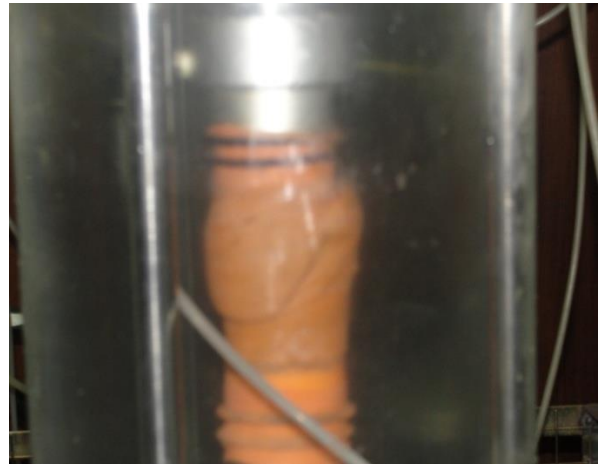


Fig. 1 Specimen before and after the tests in a PC Controlled Cyclic Tri-axial facility



Fig. 2 The PC Controlled Cyclic Triaxial converted in to Cyclic Load Test Facility

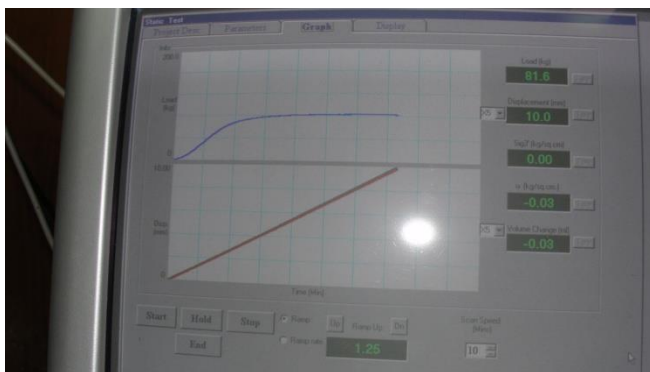


Fig. 3 Monotonic Load Tests on Pond Ash test bed

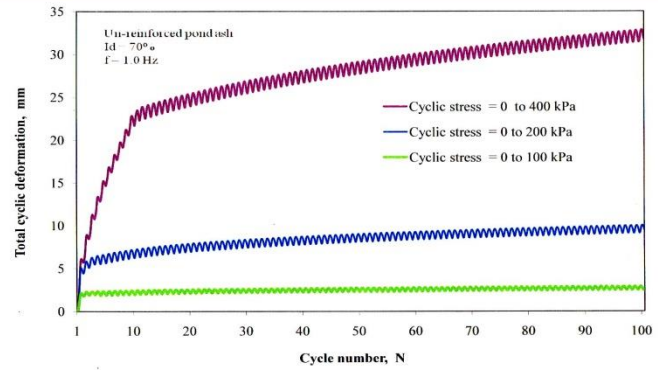
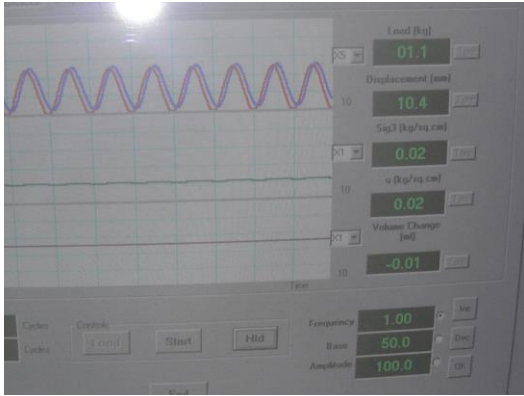


Fig. 4 Cyclic Load Tests on compacted pond ash test bed



Fig. 5 Industry (M/s Geosol Associates) Sponsored Research Project on Embankment erosion control (Rainfall simulator and embankment model without and with protection)

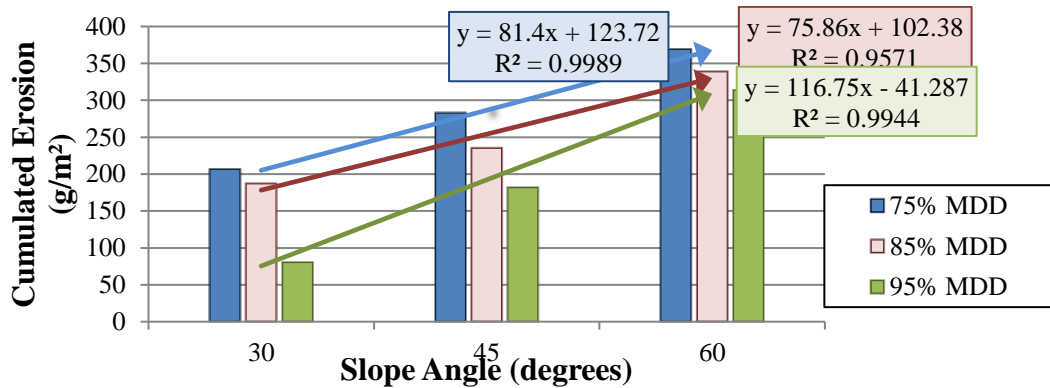


Fig. 6 Effect of dry density of the embankment fill on erosion



Fig. 7 Industry (M/s Rambol Engineers) Sponsored research project on Effect of submergence on the uplift capacity of shallow foundations

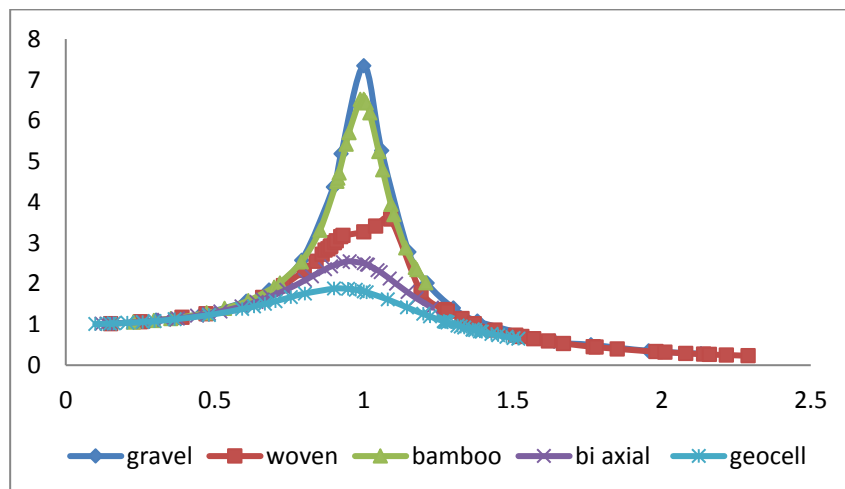


Fig. 8 Research on Block Resonance Tests on Geosynthetic reinforced Test Bed

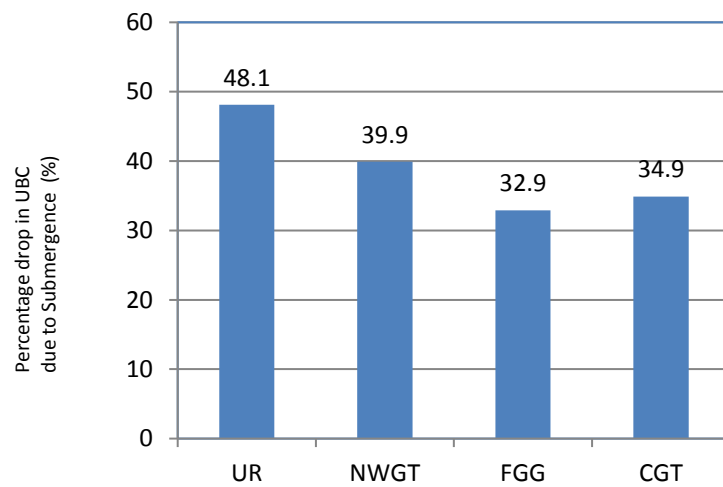


Fig. 9 Research on Effect of submergence on the Bearing Capacity of Shallow Foundations laid on Geosynthetic Reinforced Test Bed

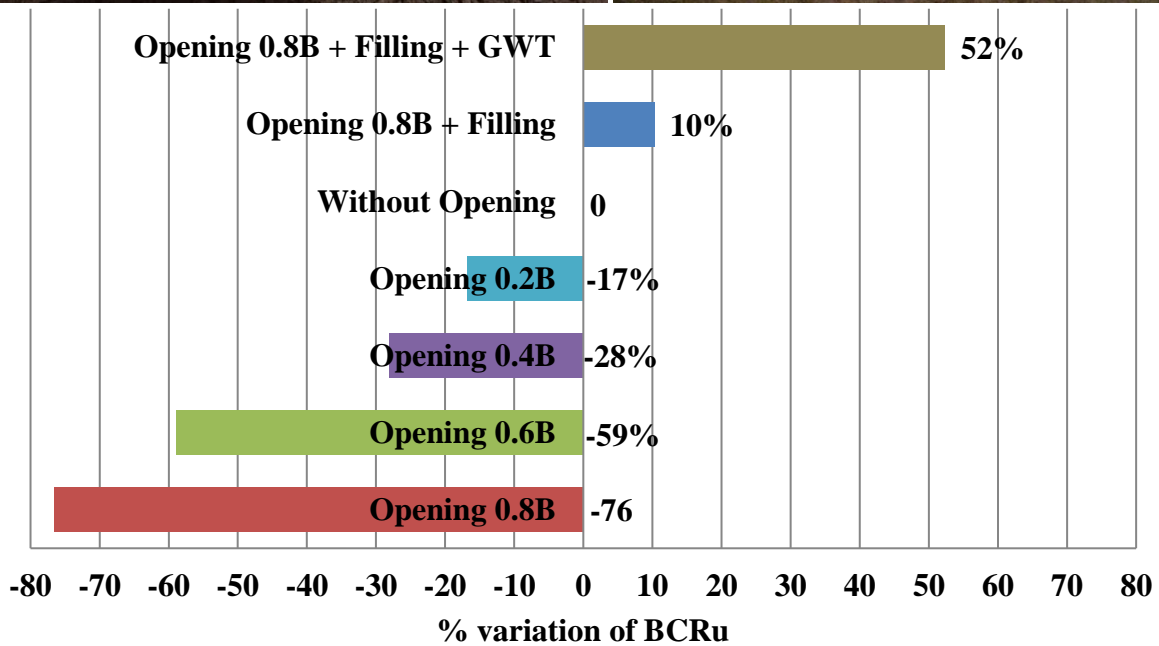
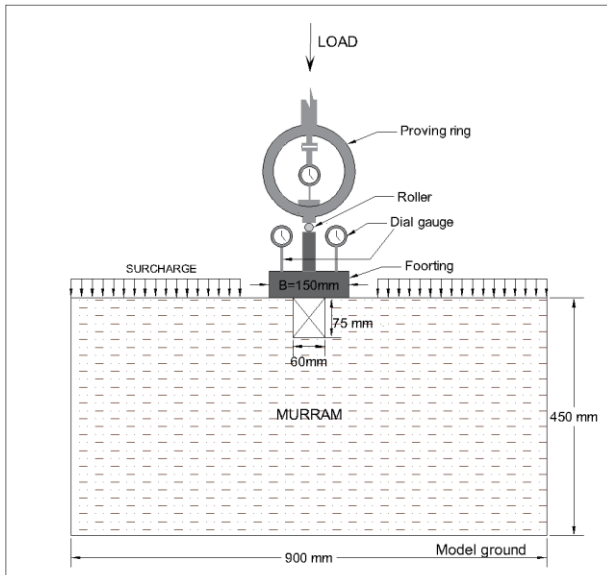


Fig. 10 Research on effect of Cavity on Bearing Capacity of Shallow Foundations

GLIMPSES OF CONSULTANCY PROJECTS

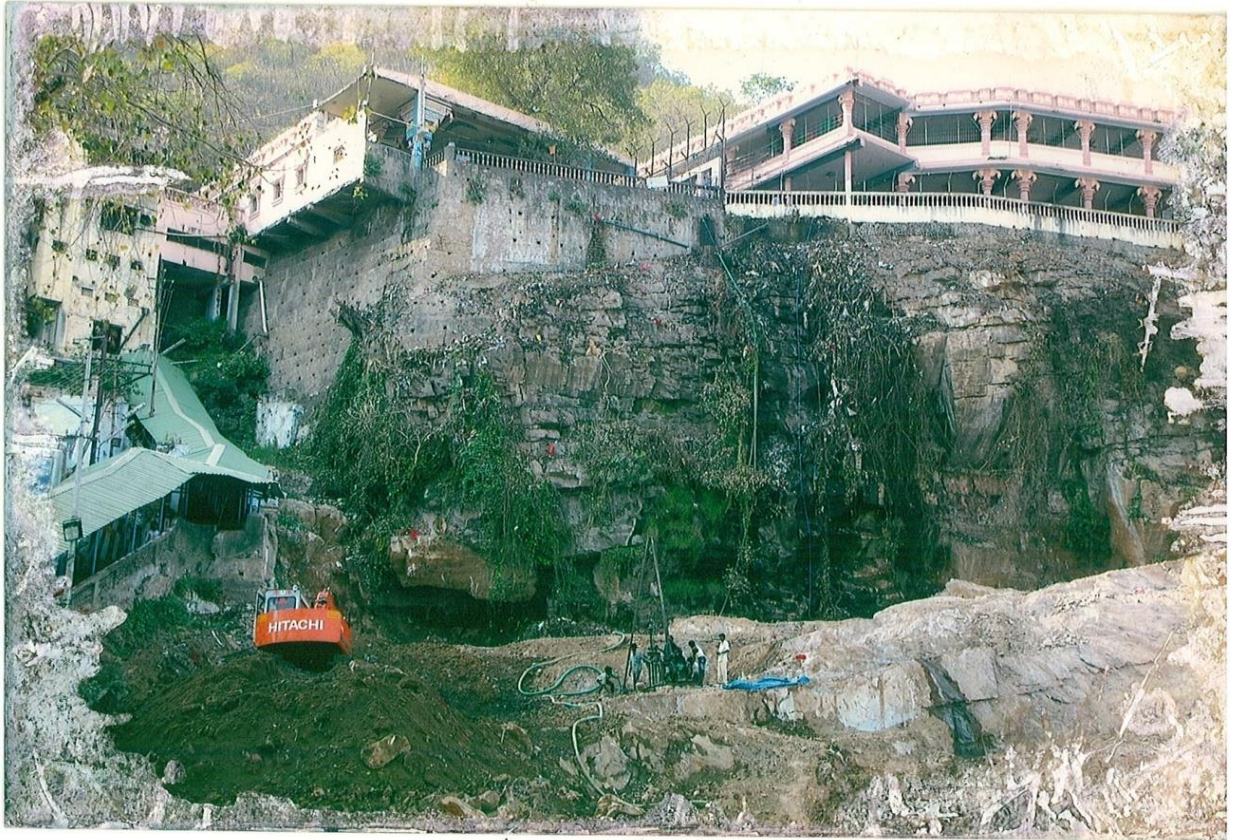


Fig. 10 Geotechnical Investigations in Yadagirigutta Temple Shrine in progress



Fig. 11 Construction of South Side Block in Yadagirigutta Temple shrine



Fig. 12 Geotechnical Investigations in IIIT, Basar



Fig. 13 eotechnical Investigations for construction of a Bridge near Peddavura (v)



Fig. 14 Geotechnical Investigations for Super Specialty Block in KIMS, WARANGAL



Fig. 15 Forensic Geotechnical Investigation of tilt of a Bridge abutment



Fig. 16 Forensic GT Investigation of Distress of floor of a Petroleum Retail Outlet

The list runs in to a few hundreds of Investigations with the sole objective of taking up the challenges which others didn't accept and providing viable solutions towards betterment of society.