



## BIO-DATA

|                                                                                                                                                                                                                                                                            |   |                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name</b>                                                                                                                                                                                                                                                                | : | Dr. M.V.S.Sreedhar                                                                                                                                                    |
| <b>Designation</b>                                                                                                                                                                                                                                                         | : | Professor<br>Dept. of Civil Engineering, UCE(A), OU                                                                                                                   |
| <b>Educational Qualifications</b>                                                                                                                                                                                                                                          | : | B.Tech (Civil ), JNTUCEA, 1992 / 79.87%<br>M.Tech (Civil / GTE), IITB, 1994/ CGPA 9.4/10<br>Ph.D. (Civil / GTE), OU, 2013                                             |
| <b>Professional Experience</b>                                                                                                                                                                                                                                             | : | GOI & GOAP : 7 years<br>Teaching (OU) : 23 years                                                                                                                      |
| <b>Academic Performance</b>                                                                                                                                                                                                                                                | : |                                                                                                                                                                       |
| Subjects taught in <b>BE-CIVIL</b>                                                                                                                                                                                                                                         |   | Soil Mechanics<br>Foundation Engineering                                                                                                                              |
| Subjects taught in <b>ME-GTE</b>                                                                                                                                                                                                                                           | : | Advanced Soil Mechanics<br>Advanced Foundation Engineering<br>Soil Dynamics & Machine Foundations<br>Ground Improvement Techniques<br>Sub-Surface Exploration Methods |
| <b>Research Performance:</b>                                                                                                                                                                                                                                               |   |                                                                                                                                                                       |
| ME-GTE Dissertations supervised                                                                                                                                                                                                                                            | : | 42 ( + 03 under evaluation process)                                                                                                                                   |
| BE projects in GTE area supervised                                                                                                                                                                                                                                         | : | 26 ( Groups )                                                                                                                                                         |
| No. of Ph. D. Scholars                                                                                                                                                                                                                                                     | : | 8 (Allotted in 2019; in progress)                                                                                                                                     |
| No. of publications in Journals                                                                                                                                                                                                                                            | : | 14 ( 92 citations / i-index : 6 / h-index-4)                                                                                                                          |
| No. of publications in Conferences                                                                                                                                                                                                                                         | : | 29                                                                                                                                                                    |
| No. of chapters in Books                                                                                                                                                                                                                                                   | : | 3                                                                                                                                                                     |
| No. of Sponsored Research projects                                                                                                                                                                                                                                         | : | 3 ( 01 under TEQIP-II ; 02 Industry sponsored)                                                                                                                        |
| <b>Research Areas of interest:</b>                                                                                                                                                                                                                                         |   |                                                                                                                                                                       |
| Applications of Geosynthetics ; Pavement Geotechnics ; Correlation between monotonic and cyclic behavior ; Effect of Fines on the Behavior of soil mixtures ; Effect of Saturation, Geosynthetics beneath Machine Foundations , Emabankment Erosion Control, Pond Ash etc. |   |                                                                                                                                                                       |
| <b>Title of Thesis:</b>                                                                                                                                                                                                                                                    |   |                                                                                                                                                                       |
| Ph.D. :                                                                                                                                                                                                                                                                    |   | Monotonic and Cyclic Response of Geosynthetic Reinforced Pond Ash<br>(under the supervision of Prof. G.V.Rao, Former Professor, IIT, Delhi)                           |
| M.Tech:                                                                                                                                                                                                                                                                    |   | Study of Consolidation process in a small sized Geotechnical Centrifuge<br>(under the supervision of Prof. K.R.Kulkarni & Prof. V.S.Chandrasekharan)                  |
| B.Tech:                                                                                                                                                                                                                                                                    |   | Design of a Balanced Cantilever Bridge as an alternative for the Simply Supported Deck Slab Bridge                                                                    |

**Consultancy Performance**

|                              |   |                  |
|------------------------------|---|------------------|
| GT Investigations & BC Reco. | : | 682 Sites        |
| Ground Improvement Reco.     | : | 4                |
| Forensic GT Investigations   | : | 6                |
| Routine Laboratory Tests     | : | 1448 Assignments |
| GT Proof Check               | : | 12               |
| Quality Control Inspections  | : | 09 Projects      |

**Conferences / Workshops**

|                         |   |    |
|-------------------------|---|----|
| Organised as a convener | : | 6  |
| Organized as a member   | : | 18 |
| Attended                | : | 26 |
| Sessions Chaired        | : | 16 |

**Expert lectures delivered** : 86

**Contribution to the Dept. / Institution :**

Chairperson, BoS(A), CED  
 Department Startup Facilitator, CED  
 Coordinator, TEQIP-II / Coordinator, NBA, GTE Specialization Member,  
 NBA Coord. Team, UCE(A),OU. / Member, NAAC Coord. Team, UCE(A),OU.  
 Incharge, GTE Laboratory / Faculty Advisor, GTE Specialization  
 Member, Department Committee & DRC, CED. Member, Purchase Committee, CED  
 Convener, Consultancy Guidelines Committee

**Achievements :**

Consistently good feedback from students  
 Pursued Ph.D. work in OU, effectively utilizing the procurements under TEQIP-I  
 Dissemination of Knowledge to Students & Practicing Engineers through Guest Lectures  
 Contributed to IRG through consultancy  
 Best Engineer Award (Certificate of Merit) from Govt. of AP in 1998  
 First Prize in ASCE-IGS National Level Poster Competition at FACE-2019

**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 an inspiring Teacher ; a reputed researcher ; an eminent Consultant; a better human being  
 To take up research that contribute to the sustainable development of the society  
 To establish a center of excellence in Geosynthetic Testing in GTE Lab., OU.

**Mission :**

Increased interaction with the higher learning institutions / Research organisations  
 Identification of the thrust areas ; Integrating the available resources ;  
 Modernisation / Upgradation of research facilities ; Applying for research projects.

**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             | 05-02-2018 | 9000            |
| Professor                    | Civil Engineering | 06-02-2018             | Till date  | 10000           |

### 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 – Completed – Extension work in progress

### Chapters in Books :

| S.no. | Title with page no.                                                                                                        | Book title, editor & publisher                                                                | ISSN / ISBN No./ Year of Publication |
|-------|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------------|
| 1     | <b>Chapter 9</b><br>Geotechnical Investigations for Design & Construction of Reinforced Soil Structures (pp.122-132)       | <b>Advances in Geosynthetics</b><br>G.V.Rao & G.V.S.S.Raju<br>SAGES publications, Hyderabad.  | ISBN 978-81-921790-3-2<br>(2012)     |
| 2     | <b>Chapter 19</b><br>Geosynthetic Reinforced Pond Ash (pp.246-274)                                                         | <b>Advances in Geosynthetics</b><br>G.V.Rao & G.V.S.S.Raju<br>SAGES publications, Hyderabad.  | ISBN 978-81-921790-3-2<br>(2012)     |
| 3     | <b>Chapter 9</b><br>“Geotechnical Investigations for Design and Construction of Reinforced Soil Structures”, , pp.122-131. | <b>“Earth reinforcement – Design and construction”</b> , Central board of Irrigation & Power. | ISBN 81-7336-321-8<br>(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.
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. Sampath Kumar, M and Sreedhar, M.V.S. (2022), "*Application of Geotextiles in Erosion Control-A reivew paper*", International Journal of Engineering Research in Mechanical and Civil Engineering (IJERMCE), Vol 9, Issue 8, August 2022, pp.15-20.
12. Ashwani, Sreedhar, M.V.S. (2025), "*Effect of Soil Reinforcement using Geotextile on Uplift Capacity of Shallow Foundations*", Ground Engineering and Applications, IYGEC 2021, LNCE, Vol.429, Springer Nature, pp. 41-54.
13. Sravanthi, P and Sreedhar, M.V.S. (2025), "*Enhancement of Uplift Capacity of Shallow Foundation on Cohesionless Soils using Geotextile Reinforcement*", International Journal of Environmental Sciences, ISSN:2229-359, Vol. 11, pp. 1314-1321.
14. Sravanthi, P and Sreedhar, M.V.S. (2025), "*Uplift Performance of Footings on Geotextile-Reinforced C-φ Soils under Variable Compaction and Moisture Conditions*", Vol. 18, Issue 07, July-2025, Goya Journal, pp.105-113.

### Conference Publications – International :

1. Sampath Kumar, M and Sreedhar, M.V.S. (2024), Abstract of the paper, “Study of Rainfall Erosion over an Earthen Embankment using Woven Coir Geotextile”, Proceedings of the International Conference on Geomatics in Civil Engineering, IIT, Roorkee, 11-12, March-2024, pp.20.
2. 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.
3. 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 :

4. Sreedhar, M.V.S., Ashwani (2021), “Effect of Soil Reinforcement using Geotextile on uplift capacity of Shallow Foundations”, 8<sup>th</sup> Indian Young Geotechnical Engineers Conference, 21-23, Oct-2021.
5. Sreedhar, M.V.S., Dheeraj Ram, A.V. (2019), “Capacity of Piles in Pond Ash based on Model Pile Load Tests”, 9<sup>th</sup> Conference on Deep Foundation Technologies for Infrastructure Development in India, Nov-2019, NAC, Hyderabad, Paper Id. 3306, pp. 1-7.
6. Sreedhar, M.V.S., Prashanth Kumar, C and Harish, T. (2019), “Investigations on Effectiveness of Coir Geo-products in Erosion Control Applications”, Poster presented in National Conference on Futuristic Approaches in Civil Engineering (FACE-2019), Mahindra Ecole College of Engineering, Hyderabad.
7. 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.
8. 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.
9. Sreedhar, M.V.S. and Karunakar, J. (2014), “*Effectiveness of Bamboo products as Georeinforcement – A comparative study*”, IGC-2014, JNTU Kakinada, pp. 1373-1377.
10. Sreedhar, M.V.S. and Muzzaffar Khan, M. (2014), “Effect of Density of Fill Material on the Performance of a Model Reinforced Soil Wall”, RRACE-2014, UCE(A),OU, Hyderabad, Vol 1, pp. 166-170.
11. Sreedhar, M.V.S. and Sri Harsha, B. (2014), “Role of Sand Bed beneath the Foundation on the Soil Structure Interaction”, RRACE-2014, UCE(A),OU, Hyderabad, Vol 1, pp. 166-170.
12. 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.
13. Sreedhar, M.V.S. et.al.(2013), “*Shear Strength of Fiber Reinforced Pond Ash*”, IGC-2013,IIT Roorkey, pp.238-242.
14. 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.
15. Sreedhar, M.V.S. (2013), “*Investigations on the feasibility of construction of structures on abandoned ash ponds*”, RACE-2013,OU, Hyderabad, Pp. 478-484.
16. 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 Dec- 2012), pp.255-262.
17. 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.
18. 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.
  19. 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.
  20. 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.
  21. 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.
  22. 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.
  23. 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 Conf., IGC-2011, Kochi, pp.549- 552.
  24. Sreedhar, M.V.S., Sujana, 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.
  25. 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.
  26. 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.
  27. 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.
  28. 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.
  29. 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<br>(0105-1124)     | Parametric Study on Liquefaction behavior of Aleru River Sand                                      | 2006-07      |
| 2     | Ms. Amina Sarwar<br>(0106-1129)    | Effect of Clay on Liquefaction Behaviour of Sand-Clay Mixtures                                     | 2007-08      |
| 3     | Mr. G. Laxman<br>(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<br>(0106-1130) | Effectiveness of Pond Ash to serve the function of Cushion – A comparison with Sand                | 2010-11      |

|    |                                             |                                                                                                                   |         |
|----|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------|---------|
| 5  | Mr. B. Yakaiah<br>(0107-1128)               | Investigations on dynamic response of coir reinforced fly ash stabilized black cotton soil                        | 2008-09 |
| 6  | Mr. K. Manoj<br>(1005-09-741301)            | Investigations on CBR characteristics of Pond Ash stabilized using Lime and Cement                                | 2011-12 |
| 7  | Mr. A.Pradeep Kumar<br>(1005-09-741303)     | Behaviour of Geosynthetic reinforced Sand Bed under Cyclic loading                                                | 2011-12 |
| 8  | Mr. M. Sujana<br>(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<br>(1005-10-741301)         | Investigations on Effectiveness of Pond Ash as an Overlay on Soft Clayey Sub-grade                                | 2012-13 |
| 10 | Mr. Rambabu, G.<br>(1005-10-741303)         | Study of Geocell as a Basal Mattress for improvement of Bearing Capacity of Soft Soils                            | 2012-13 |
| 11 | Endalamaw Aragie Tefera<br>(1005-11-741306) | Improvement of Expansive Soft Ground using Wood Ash and Geotextile Encased Columns                                | 2013-14 |
| 12 | Mr. Karunakar, B<br>(1005-11-741308)        | Effectiveness of Bamboo Products as Geo-reinforcement – A comparative Study                                       | 2013-14 |
| 13 | Mr. Mustafa Ahmadi<br>(1005-11-741307)      | Effect of Saturation on Bearing Capacity of Pond Ash                                                              | 2013-14 |
| 14 | Mr. Sriharsha, B<br>(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 | Mr. Pranay Raj<br>(1005-13-741310)          | Effect of density of soil beneath the machine foundation on dynamic characteristics.                              | 2014-15 |
| 18 | Ms. Swetha Rani, M<br>(1005-13-741309)      | CBR Characteristics of Zycobond and Terrasil Stabilized Clay – A comparison with Cement Stabilization             | 2014-15 |
| 19 | Mr. Rakesh, G. (1005-13-741306)             | Effect of Saturation on Improvement of Soft Clay partially replaced by Geosynthetic Rock Dust                     | 2015-16 |
| 20 | Ms. Anoop Jadhav<br>(1005-13-741303)        | CBR Characteristics of Clay stabilized using Fly Ash and Pond Ash- A comparative Study                            | 2016-17 |
| 21 | Ms. Zainab Fathima<br>(1005-14-741306)      | Influence of Plastic Fines on Geotechnical Characteristics of Soil Mixtures – A study in to possible correlations | 2016-17 |

|    |                                                     |                                                                                                                                |         |
|----|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|---------|
| 22 | Ms. S. Ravali (1005-14-741307)                      | Effectiveness of Sugarcane Bagasse Ash in Stabilisation of Soil – A comparison with Cement                                     | 2016-17 |
| 23 | Ms. P. Sravanthi (1005-14-741310)                   | Effect of shape and depth factors on Bearing Capacity of Shallow Foundations on Pond Ash                                       | 2016-17 |
| 24 | Mr. A.V.Dheeraj Ram (1005-15-741301)                | Capacity of Piles in Pond Ash based on Model Pile Load Tests                                                                   | 2017-18 |
| 25 | 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 |
| 26 | Mr. C.Prashanth Kumar (1005-15-741312)              | Effectiveness of Coir Geo-products in Erosion Control Applications                                                             | 2017-18 |
| 27 | Mr. Mohammed Abdalla Yagoup (1005-16-741311)        | Monotonic and Cyclic response of a model footing resting on Geosynthetic Reinforced Pond Ash Bed                               | 2018-19 |
| 28 | Mr. Moamer Rafek Hussain Al-Samomi (1005-16-741312) | Effect of Submergence on the Bearing Capacity of Geosynthetic Reinforced Clayey Sand Bed                                       | 2018-19 |
| 29 | Mr. T.Harish (1005-16-741302)                       | Laboratory Model Studies on the Effect of Dry Density on Embankment Soil Erosion                                               | 2018-19 |
| 30 | Mr. Edukondalu (1005-17-741307)                     | Effect of submergence on the bearing capacity of shallow foundations – model studies.                                          | 2019-20 |
| 31 | Ms. Aswani, V (1005-18-741310)                      | Effect of Soil Reinforcement using Geotextile on uplift capacity of Shallow Foundations                                        | 2020-21 |
| 32 | Mr. S. Babu (1005-18-741309)                        | Laboratory Investigations on Uplift Capacity of Shallow foundations in Clayey                                                  | 2020-21 |
| 33 | Mr. Vinod Sai (1005-18-741302)                      | Effect of duration of rainfall on Embankment Soil Erosion                                                                      | 2022-23 |
| 34 | Ms. Narmada, G (1005-18-741301)                     | Study on Protection Efficiency of different Erosion Control Products                                                           | 2022-23 |
| 35 | Mr. Rajasekhar Reddy, K (1005-18-741303)            | Study on Effect of submergence on the dynamic Characteristics of Geosynthetic Reinforced Soil beneath model Machine Foundation | 2023-24 |
| 36 | Mr. Naresh, K (1005-18-741304)                      | Monotonic and cyclic response of geosynthetic reinforced soil under different saturation states                                | 2023-24 |
| 37 | Mr. Vijay Kumar, C (1005-19-741302)                 | Effect of Interference on Bearing Capacity of Closely Spaced Square Footing laid on Geosynthetic Reinforced Sand Bed           | 2023-24 |
| 38 | Mr. Kavya, D (1005-19-741304)                       | Effect of Natural and Artificial Geotextile Reinforcement in Fabric and Fiber form – A comparative Study                       | 2023-24 |
| 39 | Mr. Abhilash Reddy, A (1005-21-741301)              | Effectiveness of Geosynthetic Reinforced Pond Ash on Improvement of Dynamic Behaviour of Model Machine                         | 2024-25 |

|    |                                        |                                                                                                                                                |         |
|----|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|---------|
|    |                                        | Foundation- A comparative Study with Sand                                                                                                      |         |
| 40 | Mr. Sai Karthik, M<br>(1005-21-741306) | Investigation on effectiveness of Partial Replacement of Soil Beneath a Model Machine Foundation by MSM with and without Geocell Reinforcement | 2024-25 |
| 41 | Ms. Nikitha, K<br>(1005-21-741307)     | Experimental Study on the Effectiveness of Geogrid Reinforcement with Soil Nailing on Enhancement of Uplift Capacity of Shallow Foundation     | 2024-25 |
| 42 | Ms. Mounika, P<br>(1005-21-741308)     | Investigation on Monotonic and Cyclic Uplift Behaviour of Clayey Sand Reinforced with Woven Geotextile                                         | 2024-25 |

#### **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**”, 29<sup>th</sup> Oct-2014.
6. A three day Students Symposium, **NIRMAAN-2015**
7. A three day Students Symposium, **NIRMAAN-2016, 2017,2018,2019,2021,2022,2023,2024,2025**
8. 1-Day Symposium, GEOPRACTICES-2016,2017,2018,2019,2022,
9. 2 DAY International Conference, GEOPRACTICES-2024, 3-5, October-2024, IIT Hyderabad
10. 1-Day Symposium, GEOPRACTICES-2025, 22-March-2025, BITS , Hyderabad

#### **Professional Interaction**

##### **1. Geotechnical Engineering Expert Member in PoEs During 2022-2024**

Served as Geotechnical Engineering Expert Member in Panel of Experts of the State Dam Safety Organisation (SDSO), I & CAD Department, Govt. of Telangana state and provided remediation measures for the problems in

- (i) Relampadu Balancing Reservoir
  - (ii) Muchuvanipally Dam and
  - (iii) Sri Komuram Bhim Project
2. Geotechnical Engineering Expert on State Technical Agency (STA) of National Rural Infrastructure Development Agency.
  3. Chairperson, Board of Studies, CED, UCE(A), OU
  4. Chairperson, Board of Studies in Civil Engineering for Affiliated Colleges, Osmania University.

## **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 many 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. Community Hall of GHMC in Nampally and other locations
5. Rock Fall mitigation measures at ORR, Hyderabad for M/s HPCL Pile line

### **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
5. Distress of a GLSR in BDL campus, Ibrahimpatnam

### **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 M/s Natural Resources Development Cooperative Society Ltd and many others.

**Thank you**  
**(sreedhar.m@uceou.edu)**  
**+91 - 98 48 48 71 87**

**A glimpse of Research and consultancy works performed follows .....**

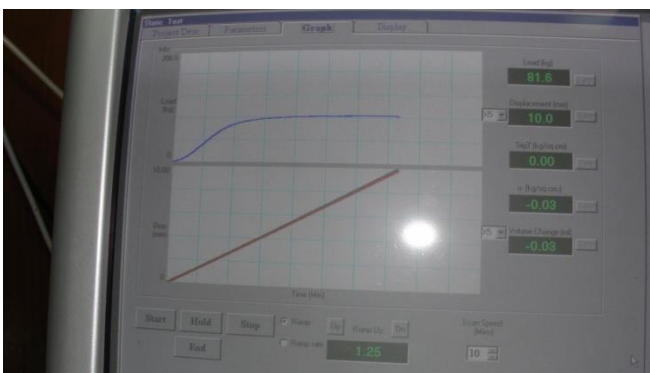
## GLIMPSES OF RESEARCH AREAS



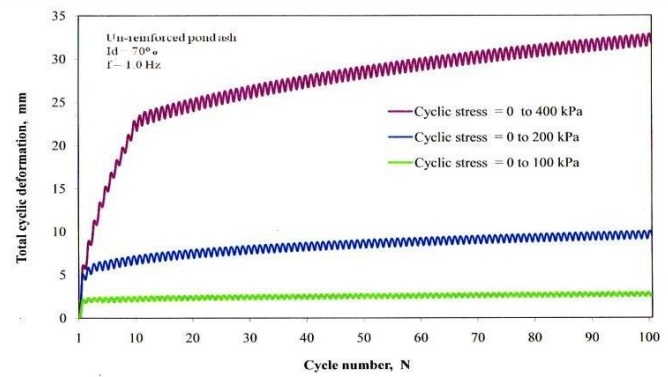
**Fig. 1 Specimen before and after the tests in a PC Controlled Cyclic Tri-axial facility**



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



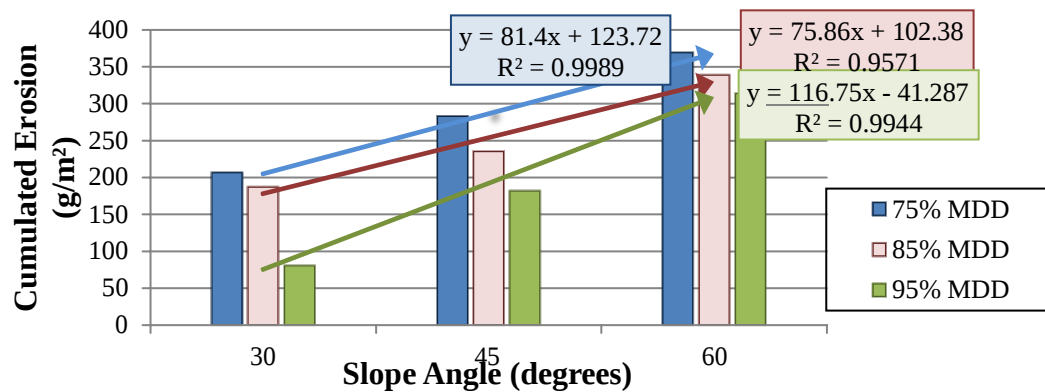
**Fig. 3 Monotonic Load Tests on Pond Ash test bed**



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



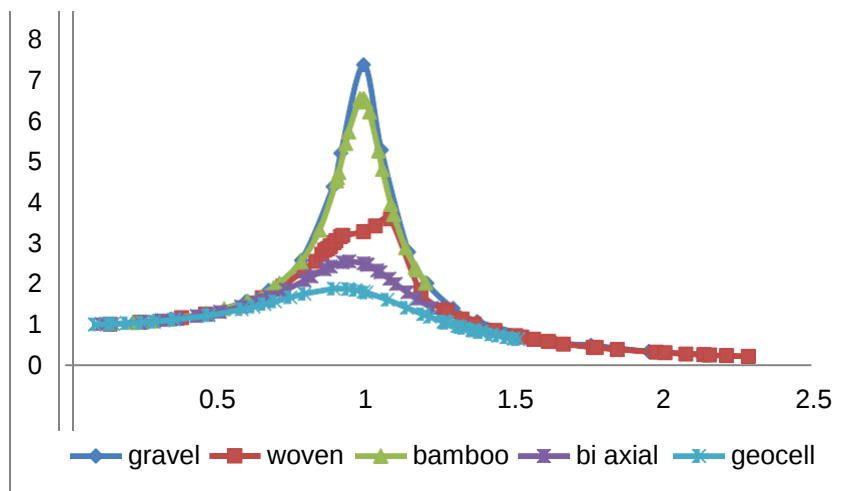
**Fig. 5 Industry (M/s Geosol Associates) Sponsored Research Project on Embankment erosion control (Rainfall simulator and embankment model without and with protection)**



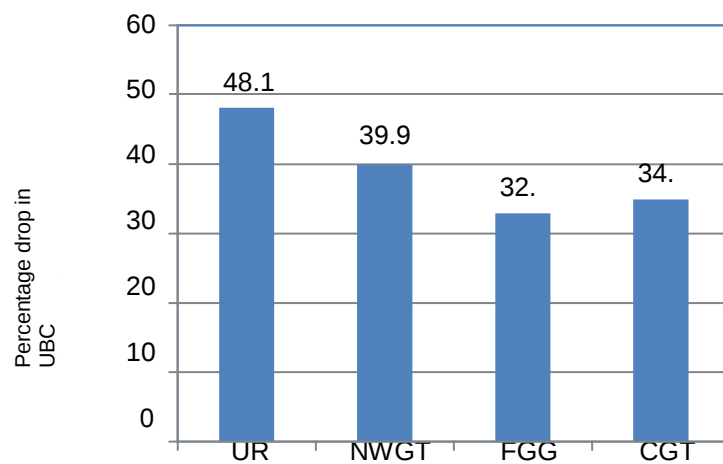
**Fig. 6 Effect of dry density of the embankment fill on erosion**



**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**

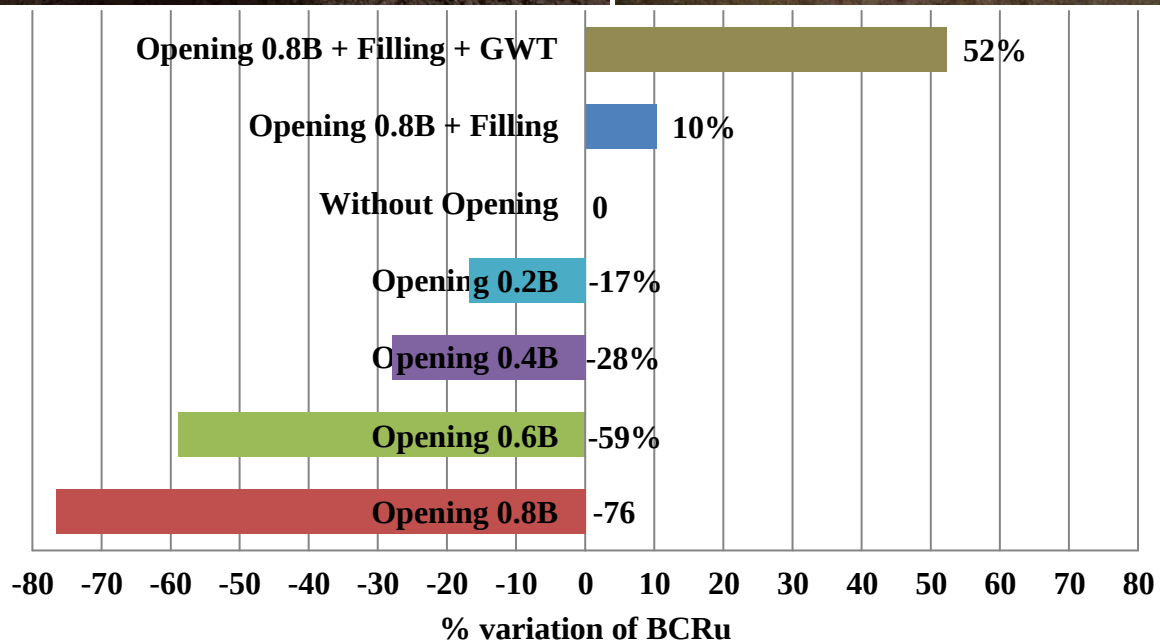
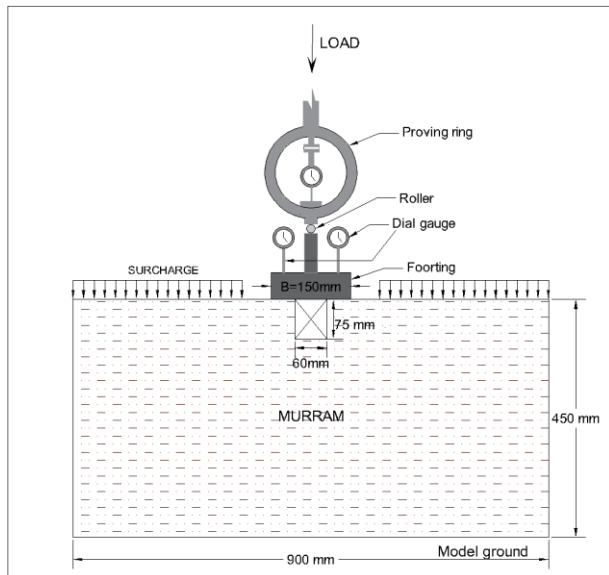
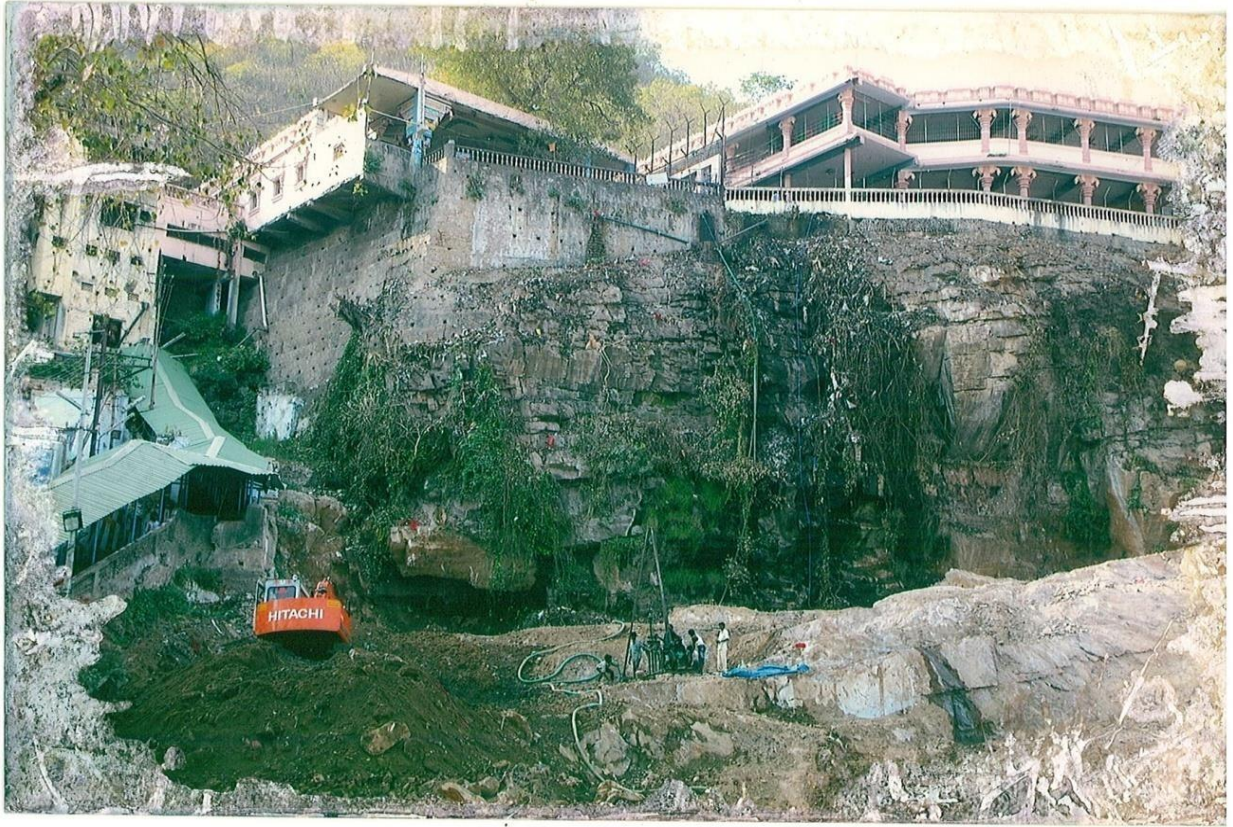


Fig. 10 Research on effect of Cavity on Bearing Capacity of Shallow Foundations

## 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.