

# Bio-data



## Muttana S Balreddy

**Assistant Professor**

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### (I) EDUCATIONAL QUALIFICATIONS

Degree	Specialization	Year of passing/class	University
Ph.D	Geotechnical Engineering	Under Progress	IISc, Bangalore
M.E	Foundation Engineering	2007 FC	Goa University
B.E	Civil Engineering	2004 FCD (University 10 <sup>th</sup> Rank)	VTU, Belgaum
Diploma	Civil Engineering	2000 FC	BVVS Polytechnic, Bagalkot

### (II) DETAILS OF EMPLOYMENT

Name of the Employer	Designation/Position Held	From	To
Siddaganga Institute of Technology, Tumkur	Assistant Professor	2008	Till date
Karnataka Public Works Department	Assistant Engineer	2007	2008

### (III) COURSES TAUGHT

Name of the program	Course Title
UG Civil Engineering	Engineering Mechanics
	Geotechnical Engineering-I
	Building Services
	Computational Methods in Civil Engg
	Environmental Science
	Computer Aided Building Drawing
	Awareness to Computer concepts lab
PG- Structures	Design of Substructures
PG-Transportation	Applied Soil Mechanics
	Design of Substructures and Reinforced Earth Application
	Advance Geotechnical Lab

### (IV) R & D ACTIVITIES

#### A) RESEARCH AREAS:

1. Earthquake Geotechnical Engineering– (Liquefaction, Pore pressure generation and Dynamic properties)
2. Stabilization of soil
3. Pavement Materials, Pavement Analysis and Design

#### B) M.TECH GUIDANCE DETAILS:

Sl. No	Name of the Student	Title of Thesis	Year Completed	Joint guide(s) if any
1.	Muralidhar.N (1SI08CSE07)	Effect of GGBS and FA as SCM on Fracture Properties of Self Compacting Concrete	2011	Mr. Shivaram Bagade Scientist- Admixture Systems R&D, D.C-II BASF Construction chemicals Pvt Ltd., Shanghai, China
2.	Deepika M M (1SI09CSE10)	Multi Objective Optimization of Isotropic Plate Structures	2013	1. Dr. Amit Kumar Onkar Scientist CSIR-NAL, Bangalore 2. Dr. Manjuprasad Scientist CSIR-NAL, Bangalore
3.	Dinesh K S (1SI09CSE11)	Behaviour Characteristics of Reinforced Earth	2012	Prof.H.M.Rajshekhkar Swamy Professor & Head Dept of Civil Engineering Sahyadri College of Engg and Management Mangalore -575009

4.	Vidya Dodwad (1SI10CTM14)	Resilient Modulus of Cohesive Soil	2012	Dr. S V Dinesh Professor, Dept. of Civil Engineering, SIT, Tumkur
5.	Naveen T R (1SI10CTM09)	Stabilization of Expansive Soil Using Quarry Dust	2012	
6.	Vinutha Telagi (1SI11CSE17)	A Study on Coupled Shear Walls in High Rise Buildings and its Stability	2013	Manjunath T L, Proprietor & Principal Consultant, BUILD INDIA CONSULTANTS, Bangalore
7.	Nitish Kumar K (1SI11CTM09)	Utilization of Copper Ore Tailings as Road Construction Materials	2013	
8.	Harish Neglur (1SI11CTM07)	Soft Subgrade Stabilization and Flexible Pavement Design using commercially available Additives	2013	
9.	Manjunath	Liquefaction Potential of Sand-Fines Mixtures	2015	Prof. R N Herkal Principal, Basaveshwara College of Engineering Bagalkot

### C) LIST OF SPONSORED RESEARCH PROJECTS

No	Role	Title	Agency	Funding Amount	Period	PI-Investigators
1	Co-Investigator	Liquefaction potential of Sand-clay Mixtures	AICTE RPS	Rs 5.0 lakhs	2012-15	Dr. S V Dinesh Prof. & Head Dept. of Civil Engg SIT, Tumkur

### D) PUBLICATIONS

**Total number of papers:** 10 (excluding submitted for publication and technical reports)

	Total
Published in International Journals	01
Published in National Journals	01
Published in International Conferences	03
Published in national Conferences/Seminars/ Symposia	07

## **Publications in Journals**

### **Publications in International Journals**

1. Muralidhar N, **Muttana S Balreddy**, Shivaram Bagade and S V Dinesh “A COMPARISON OF THE FRACTURE PROPERTIES OF SELF COMPACTING CONCRETE (SCC) AND CONVENTIONAL VIBRATED CEMENT CONCRETE (VCC)”, Global Journal of Engineering and applied Sciences, Rising Research Journal Publication, India, 2012: 2(1), pp 116-121

### **Publications in National Journals**

1. S. V. Dinesh, G Mahesh Kumar, **Muttana S Balreddy** and Swamy C Basim, “Liquefaction Potential of Sabarmathi River sand”, Journal of Earthquake Technology (ISET)”, *Accepted for print.*

### **Publications in International Conferences**

1. S.V. Dinesh, G. Mahesh Kumar, **Muttana. S. Balreddy** and T. Gangadharaiah “Effect of Density on the Cyclic Response of Subrounded Reconstituted Sands”, International conference on Computational methods in structural dynamics and Earthquake Engineering, Rethymno, Crete, Greece, 13–16 June 2007 pp 1-8.
2. S.V.Dinesh, Swamy C Basim and **Muttana S Balreddy** “An Experimental Investigation of Index Properties of Sand-Clay Mixtures”, First International Conference on Advances in Concrete, Structural and Geotechnical Engineering-(ACSGE) 2009, BITS Pilani, India.
3. **Muttana S Balreddy**, Dr S G Sreekanteshwara Swamy, Vijay U T, “ Assessing the Status of Ancient Kalyanis for Rejuvenation in Tumkur district using Geospatial Technologies”, International Conference on Civil, Structural and Environmental Engineering, KSR college of Engineering, Tiruchengode, TN, 2011.

### **Publications in National Conferences**

1. Naveen T R, **Muttana S Balreddy.**, “Effect of Quarry Dust on strength and compaction properties of Expansive soil”, Proceeding of Twenty-Eight National Convection of Civil Engineers and National Seminar on “Role of Infrastructure for Sustainable Development” held at Roorkee, Oct 12-14, 2012, PP-456-462
2. G Mahesh Kumar, **M S Balreddy**, B V Ravishankar, S V Dinesh., “Role of plasticity index on the liquefaction behaviour of sand-fines mixture”, Proceeding of Indian Geotechnical Conference -2012 on Advances in Geotechnical Engineering, organized by Indian Geotechnical Society, Delhi Chapter and Indian Institute of Technology, New Delhi, Indian on 13-15 December, PP 1017-1021

3. Vidya Dodwad, **Muttana S Balreddy**, T S Umesha, S V Dinesh., “Resilient Modulus of cohesive soil”, Proceeding of Indian Geotechnical Conference -2012 on Advances in Geotechnical Engineering, organized by Indian Geotechnical Society, Delhi Chapter and Indian Institute of Technology, New Delhi, Indian on 13-15 December 2012. PP 1157-1161
4. Harish Negalur, Nitish Kumar K and **Muttana S Balreddy**., “Improvement of CBR on Expansive soil using RBI Grade-81”, Proceeding of National conference on New Horizons in Civil Engineering (NHCE-2013) Organized by MIT, Manipal, 12-13 April, 2013
5. Nitish Kumar K, Harish Negalur, **Muttana S Balreddy** and Swamy C Basim., “Utilization of copper ore tailings and fly ash mix as road subgrade/embankment material”, Proceeding of Indian Geotechnical Conference -2013 on Geotechnical Advances and Novel Geomechanical Applications (GANGA), organized by Indian Geotechnical Society, Roorkee Chapter and Indian Institute of Technology, Roorkee, Indian on 22-24 December 2013.
6. Sandeepa M C, Mamatha K H, **Muttana S Balreddy** and Dinesh S V “Performance of Geogrid Reinforced Unpaved Roads under Repeated Loading Conditions”, Proceeding of Indian Geotechnical Conference (IGC-2014), Geotechnics for Inclusive Development of India (GEOIND), organized by IGS Kakinada Chapter and JNTU, Kakinada, 18<sup>th</sup>-20<sup>th</sup> December 2014, PP:1141-1148

### **Presented Paper in Seminar**

1. S.V. Dinesh, B. G Shiva Prakash, and **Muttana. S. Balreddy** “CONE PENETRATION TESTING IN GEOTECHNICAL ENGINEERING PRACTICE”, One day National conference on Recent Advances in Geotechnical Engineering, Jointly organized by Department of Civil Engg, Ghousia College of Engineering, Ramanagaram, Karnataka Geotechnical Centre, Bangalore and Indian Geotechnical Society, New Delhi, 24<sup>th</sup> October 2008.

### **(V) INTERACTIONS WITH INDUSTRY**

- A) **Details of consultancy work carried through the department** (Report consultancy work worth above Rs 1 lakh)

<b>Sl. No</b>	<b>Year</b>	<b>No of assignments</b>	<b>Revenue (Rs lakhs)</b>
1	2010-2011	NIL	NIL
2	2011-2012	NIL	NIL
3	2012-2013	1	2.14

## B) JOINT M.TECH GUIDANCE WITH INDUSTRY

Sl. No	Name of the Student	Title of Thesis	Joint guide(s) if any
1.	Muralidhar.N (1SI08CSE07)	Effect of GGBS and FA as SCM on Fracture Properties of Self Compacting Concrete	Mr. Shivaram Bagade Scientist- Admixture Systems R&D, D.C-II BASF Construction chemicals Pvt Ltd., Shanghai, China
2.	Deepika M M (1SI09CSE10)	Multi Objective Optimization of Isotropic Plate Structures	1. Dr. Amit Kumar Onkar Scientist CSIR-NAL, Bangalore 2. Dr. Manjuprasad Scientist CSIR-NAL, Bangalore
3.	Vinutha Telagi (1SI11CSE17)	A Study on Coupled Shear Walls in High Rise Buildings and its Stability	Manjunath T L Proprietor & Principal Consultant, BUILD INDIA CONSULTANTS, Bangalore

### (VI) MEMBERSHIP OF PROFESSIONAL BODIES

- (i) Life Member of Indian Society for Technical Education (ISTE)
- (ii) Life member of Indian Geotechnical Society (IGS)
- (iii) Member of International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE)

### (VII) OUTREACH ACTIVITIES

-NIL-

### (VIII) ORGANIZATIONAL RESPONSIBILITIES

1. Member, Programme Assessment Committee, SIT, Tumkur

### (IX) FACULTY DEVELOPMENT PROGRAMME ACTIVITIES

Sl. No	Nature of Programme	Period	Name of the Institution/Training center
1.	“Geo-informatics – Total Station”	01-07 Aug, 2008	Siddaganga Institute of Technology, Tumkur
2.	Pedagogical Training in Engineering Education	03-15 Nov, 2008	Engineering Staff College of India, Hyderabad.
3.	Geoinformatics for Integrated Coastal Zone Management Planning (GICZMP'09)	19-30 January, 2009	Department of Applied Mechanics, National Institute of Technology Karnataka, Surathakal

4.	Recent Developments in Rock Excavation Technology and Management	17-23 July, 2009	Department of Mining Engineering, National Institute of Technology Karnataka, Surathakal.
5.	PC Hardware and Maintenance	25-30 June, 2010	Siddaganga Institute of Technology, Tumkur
6.	Soft Computing Techniques in Water Resources Engineering (SCTWRE'10)	5-9 <sup>th</sup> July, 2010	Department of Applied Mechanics, National Institute of Technology Karnataka, Surathakal
7.	Statistical Applications in Civil Engineering	25-30 June, 2012	Siddaganga Institute of Technology, Tumkur
8.	Modern Trends in Pavement Materials	15 July, 2011	Center for Infrastructure and Transportation Planning (CISTUP), IISc, Bangalore
9.	Indian Geotechnical Conference on "Geochallenges"	15-17 Dec, 2011	Indian Geotechnical Society, Kochi Chapter and Cohin University of Science and Technology, Kochi
10.	Project Management	20-25 <sup>th</sup> August, 2012	BMS College of Engineering, Bangalore in association with Project Management Institute
11.	Practice with Total Station	2-8 <sup>th</sup> Jan, 2013	Dept. of Civil Engineering, SIT, Tumkur
12.	Land Surveying Summit-2013 (on the occasion of National Survey Day Celebration)	9-10 May, 2013	Bangalore Institute of Technology, Bangalore and Association of Engineering and Surveying Consultant, Bengaluru
13.	"Trimble Quantum" designed to minimize environmental and social impacts of road and rail projects	7 <sup>th</sup> June 2013	State Govt. of Victoria, Australia at Bangalore
14.	MISSION 10X, Engineering Faculty Workshop	2 <sup>nd</sup> to 4 <sup>th</sup> December, 2013	WIPRO, Bangalore