

Curriculum vitae

BINU SHARMA



Personal data

Name: Binu Sharma
Born: June 15, 1962 in Shillong, Meghalaya , India
Nationality: Indian
Address: Civil Dept, Assam Engineering College, Guwahati 781013
Professional affiliation: Department of Civil Engineering, Assam Engineering College
Phone number(s): (+91) 9864155359 (cell)

Email: binusharma78@ gmail.com

Education

2000 PhD , Guwahati University, Assam, India
1992 Master of Engineering (ME), University of Roorkee, Roorkee, India
1986 Bachelor of Engineering (Civil Engineering) Assam Engineering College, Gauhati Univ.

Employment record

since
August/2005 Professor, Department of Civil Engineering, Assam Engineering College
1995– 2005 Assistant Professor, Department of Civil Engineering, Assam Engineering College
1987 – 1995 Lecturer , , Department of Civil Engineering, Assam Engineering College

Membership in Professional Associations:

Life Member – Indian Geotechnical Society (IGS)
Life Member – Indian Society for Technical Education (ISTE)
Life member – Indian Road Congress

Academic and Industry activities (related to the project)

Scientific activities

1. Coordinated a project on soil liquefaction study sponsored by the Directorate of Science and Technology, Govt. of India
2. Studied Shear wave velocity through N- value of Guwahati city and Developed GIS based map for shear wave velocity of Guwahati city.
3. Studied soil liquefaction potential of Guwahati city through N- value of Guwahati city and Developed GIS based map for liquefaction potential of Guwahati city.

Teaching and guidance

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| Since 2010 | Guiding 3 PhD students for their theses/dissertations on of topics related to Expansive soils, micropiles and compaction characteristics |
| 20013 | Organised Student level conference on Geotechnical Engineering as Chairman of Indian Geotechnical Society, Guwahati Chapter. |
| Since 1994 | Guided around 35 Master degree thesis |
| Since 1992 | Regularly teaching under graduate and post graduate courses on Geotechnical Engineering, Foundation Engineering, |

Research interests

Soil Liquefaction, Micropiles – soil structure interaction analysis, Soil behavior and prediction of soil behavior

Award/Prize/Certificate

1. Have received the **Dinesh Mohan Biannual Award** for best paper in ‘Pile Foundation’ for the year 2011 - 2012 awarded by the Indian Geotechnical Society
2. Have received the **IGS- Geotech Biannual Prize** for best paper in ‘Innovation in Field Exploration’ for the year 2012 - 2013 awarded by the Indian Geotechnical Society

International Conferences attended

- 1) Have attended Geo- Congress 2014 held in Atlanta, Georgia, U.S.A.
- 2) Have attended the Asian Regional conference (2015) in Soil Mechanics and Foundation Engineering held in Fukuoka, Japan.

Publications

- 1) Sharma, B and Bora, P.K.(2003) "Plastic Limit, Liquid Limit and Undrained Shear Strength of Soils – Reappraisal". **Journal of Geotechnical and Geoenvironmental Engineering. American Society Of Civil Engineers**, August 2003 Volume 129, Number 8.
- 2) Sharma, B and Bora, P.K.(2009) "A study on correlation between compaction characteristics and plastic limit of fined grained soils. **Highway Research Bulletin. Indian Roads Congress**. June 2003, Volume 68.
- 3) Sharma, B and Bora, P.K.(2009) "Determination of Plastic Limit of Soils by Cone Penetration Method". **Indian Geotechnical Journal**, October 2004, Volume 34, No. 4
- 4) Sharma, B and Bora, P.K.(2009) "Determination of Coefficient of Consolidation from Index properties of soils." **Indian Geotechnical Journal**, 39(4) October 2009, 424- 435.
- 5) Sharma, B (2011). "A model study of Micropiles subjected to Lateral Loading and Oblique loading conditions". **Indian Geotechnical Journal**, Vol. 41, No.4. :196-205.
- 6) Sharma, B (2012) "Discussion of "Re-examination of Undrained Strength at Atterberg Limits Water Contents" By H. B. Nagaraj * A. Sridharan* H.M. Mallikarjuna". **International Journal of Geotechnical and Geological Eng, Springer**. Vol 30, issue 4, pp1035-1036.
- 7) Sharma, B and Hazarika, P (2013) "Assessment of Liquefaction Potential of Guwahati city. A case study'. **International Journal of Geotechnical and Geological Eng, Springer**, Vol.31, issue5, pp1437-1452.
- 8) Sharma, B and Bora P.K.(2014). "A Study on Correlation Between Liquid Limit, Plastic Limit and Consolidation Properties of Soils" **Indian Geotech Journal**. DOI

10.1007/s40098-014-0128-0

9) Sharma, B and Buragohain, P (2013). “Behaviour of Micropile Groups under Oblique Pull Out Loads in sand”. **Indian Geotechnical Journal**, DOI 10, 1007/s40.098-013-0091-1

10) Sharma, B. and Rahman, S.K. (2016) Use of GIS Based Maps for Preliminary Assessment of Subsoil of Guwahati City. **Journal of Geoscience and Environment Protection**, **4**, 106-116. <http://dx.doi.org/10.4236/gep.2016.45011>

10) Das, N; Sharma,B, Singh, S (2013): “Comparison In Undrained Shear Strength Between Low And High Liquid Limit Soils”. **International Journal of Engineering Research & Technology** .Vol. 2 Issue 1, January- 2013 ISSN: 2278-0181.

11) Gogoi ,N; Bordoloi, S and Sharma,B “ A Model Study of Micropile Group Efficiency under Axial Loading Condition” **International Journal of Civil Engineering Research**. ISSN 2278-3652 Volume 5, Number 4 (2014), pp. 323-332

12) Sharma, B and Chetia,M (2015); “Deterministic and probabilistic liquefaction potential evaluation of Guwahati city”. **Proceedings of Japanese Geotechnical Society Special publication**. Vol.2 (2015) No.22 P.823-828.

13) Sharma,B and Bora, P.K.(2003) Discussion of “Plastic Limit, Liquid Limit, and Undrained Shear Strength of Soil—Reappraisal” **Journal of Geotechnical and Geoenvironmental Engineering**. **American Society Of Civil Engineers**, August 2003, Vol. 129, No. 8, pp. 774–777.DOI: 10.1061/sASCEd1090-0241s2003d129:8s774d

14) Sharma, B and Buragohain, P (2008)“A Model study of Micropiles subjected to Oblique loading conditions” Proceedings of Indian Geotechnical Conference, Bangalore, India

15)) Sharma,B (2009) “A Model study of Micropiles subjected to Lateral loading conditions”. Proceedings of Indian Geotechnical Conference, Guntur.

16)) Buragohain, P and Sharma, B (2009) “A model study on micropiles under different loading conditions”. Student Symposium in Research in Civil Engineering, March 5-6, , IIT Chennai.

17) Tamuli, S, J. Pathak, B. D. Saikia and B. Sharma (2010). “A comparative study of response spectra of recorded events in the Northeast India” . 14 Symposium on

earthquake Engineering, Roorkee, paper No. 179

18) Sharma,B (2011) “A study of Micropile groups subjected to Lateral loading conditions” Proceedings of Indian Geotechnical Conference. December 15-17, 2011, Kochi (Paper No. H-241

19) Sharma, B, Saikia, B. D. and Hazarika, P.(2012) “Determination of Liquefaction Potential of Guwahati city (2012).Proceedings of the Indian Geotechnical Conference, December 13-15, 2012, New Delhi, India. Pp1077-1081

20) Sharma,B, Rahman, S.K. and Saikia, B.D. (2013) “Use of GIS based maps for preliminary assessment of subsoil of Guwahati City”. Proceedings of Indian Geotechnical Conference December 22-24, 2013, Roorkee

21)) Sharma,B, Rahman,S.K. and Saikia,B.D. (2013). “Use of contour maps for preliminary assessment of subsoil of Guwahati City. Proceedings of Indian Geotechnical Conference December 22-24, 2013, Roorkee

22) Sharma,B; Khasiyab,K; Bharali,Rand Sarma,B (2013) “ A study of CBR properties of Soil reinforced with Jute Geotextile with reference to Road Construction in Assam”. Proceedings of Indian Geotechnical Conference December 22-24, 2013, Roorkee

23) Sharma,B, Zaheer,S and Hussain,Z (2013)“An Experimental Model for Studying the Performance of Vertical and Batter Micropiles”. Proceedings of the International conference of Geo-Characterization and Modeling for Sustainability. Geo Congress 2014., Atlanta, U.S.A.

24) Talukdar, P., Sharma, B and Shridharan, A (2014); “Static method to determine compaction characteristic of soils”. Proceedings of Indian Geotechnical Conference IGC-2014, December 18-20, 2014, Kakinada, India

25) Das,p; Sharma,L and Sharma,B.(2014). “Stability analysis of a Hillock with a 64-lakh litre capacity water tank- A case study.” Proceedings of Indian Geotechnical Conference IGC-2014,December 18-20,2014, Kakinada, India

26) Begum,N and Sharma,B(2014). “ Determination of CBR value from compaction characteristics and index properties of fined grained soils.” Proceedings of Indian Geotechnical Conference IGC-2014,December 18-20,2014, Kakinada, India

27) Sharma, B and Doley,M. “ Probabilistic Assessment of liquefaction properties of Guwahati city”. Proceedings of the 50th Indian Geotechnical conference, 17th – 19th December 2015, Pune, Maharashtra