Editorial

G. L. Sivakumar Babu

Published online: 22 November 2012
© Indian Geotechnical Society 2012

It is a pleasure and privilege to write this editorial as the Editor-in Chief of the Indian Geotechnical Journal, which is now being published by Springer under co-publishing agreement. I thank the Indian Geotechnical Society for giving us the responsibility of making this initiative, a possibility and benefits the Geotechnical community in India and abroad. Special thanks to Prof. G. Madhavi Latha, Associate Editor, Prof. K. S. Rao and Prof. Chandan Ghosh, President and Secretary as well as members of Executive Committee of the Society for the help in this regard. The response from the Editorial Board Members has been excellent, a few of them have contributed to invited/review articles, a few of them have participated in review process and a few others came forward with a few suggestions to improve the visibility and coverage of the journal.

The current issue (October–December 2012) of the journal has six papers covering topics in geo-environmental engineering, pile foundations and shallow foundations on reinforced sands and clays. The first paper is the summary of the lecture Third Ferroco Terzaghi Oration of the Indian Geotechnical Society by Prof. Kerry Rowe in New Delhi on 5th October 2012 on the topic *Design and Construction of Barrier Systems to Minimize Environmental Impacts Due to Municipal Solid Waste Leachate and Gas*. The paper examines municipal solid waste landfills as a system comprised of three primary subsystems (the hydrogeology and barrier system below the waste; the waste and landfill operations; and the landfill cover and landfill gas control system) and effects of waste type and

waste management risks, landfill leachate and leachate collection, landfill gas and gas collection, the hydrogeology and barrier subsystem required to contain contaminants in leachate and landfill gas, materials specifications, construction issues etc. are addressed the contribution is an excellent treatise in the area of landfill engineering.

The second paper on *Sulfate Induced Heaving of a Taxiway: A Case Study* by Anand J. Puppala, Bhaskar Chittoori and Sireesh Saride is an important paper dealing with problems of heave in expansive soils which contain sulphate. The third paper on *Evaluation of the Permeability Behaviour of Sand-Bentonite Mixtures Through Laboratory Tests* by K. K. Tripathi and B. V. S. Viswanadham is a useful contribution in the design of sand bentonite mixes considering permeability characteristics.

The fourth paper on *Three-Dimensional Finite Element Analysis of Laterally Loaded Piles in Sloping Ground* by V. A. Sawant and S. K. Shukla evaluates the response of laterally loaded piles embedded in sloping ground. A detailed parametric study is carried out to investigate the effect of slope of the ground on the deflection and the bending moment along the pile length.

The fifth paper on *Effects of Geogrid on Dynamic Strength Characteristics of Solani Sand* by S. Senapati and B. K. Maheshwari on the deformation behavior of Solani river sand and the effects of geogrid reinforcement under cyclic loads illustrates the effects of number of cycles on volumetric strain and pore water pressure on unreinforced and reinforced samples.

The sixth paper *Bearing Capacity of Reinforced Strip Foundation Beds on Compressible Clays* by K. Rajyalakshmi, Madhira R. Madhav and K. Ramu presents a method for the estimation of bearing capacity of a strip footing on the surface of a geosynthetic reinforced foundation bed laid over soft homogeneous clay using Vesic's cavity expansion theory that

G. L. S. Babu (✉)
Indian Institute of Science, Bangalore, India
e-mail: glsivakumar@gmail.com

considers the compressibility/stiffness of the ground together with its shear strength and the reinforcement properties.

I enjoyed reading all the papers and I wish you all happy and insightful reading as well as happy New Year. I request all the prospective authors to contribute quality manuscripts to journal.

References

1. Kerry R (2012) Design and construction of barrier systems to minimize environmental impacts due to municipal solid waste leachate and gas. *Indian Geotech J*: 221–254. doi:[10.1007/s40098-012-0024-4](https://doi.org/10.1007/s40098-012-0024-4)
2. Puppala AJ, Chittoori B, Saride S (2012) Sulfate induced heaving of a taxiway: a case study. *Indian Geotech J*: 255–264. doi:[10.1007/s40098-012-0026-2](https://doi.org/10.1007/s40098-012-0026-2)
3. Tripathi KK, Viswanadham BVS (2012) Evaluation of the permeability behaviour of sand-bentonite mixtures through laboratory tests. *Indian Geotech J*: 265–275. doi:[10.1007/s40098-012-0020-8](https://doi.org/10.1007/s40098-012-0020-8)
4. Sawant VA, Shukla SK (2012) Three-dimensional finite element analysis of laterally loaded piles in sloping ground. *Indian Geotech J*: 276–284. doi:[10.1007/s40098-012-0022-6](https://doi.org/10.1007/s40098-012-0022-6)
5. Senapati S, Maheshwari BK (2012) Effects of geogrid on dynamic strength characteristics of solani sand. *Indian Geotech J*: 285–291. doi:[10.1007/s40098-012-0023-5](https://doi.org/10.1007/s40098-012-0023-5)
6. Rajyalakshmi K, Madhav MR, Ramu K (2012) Bearing capacity of reinforced strip foundation beds on compressible clays. *Indian Geotech J*: 292–307. doi:[10.1007/s40098-012-0028-0](https://doi.org/10.1007/s40098-012-0028-0)