



Webinar on The Failure of Reinforced Soil Walls: Lessons and Remedies

Friday, 02 July 2021 from 04:00 PM to 06:00 PM (IST)

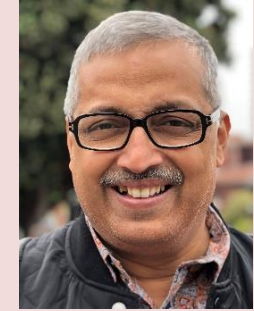
SPEAKER



Prof. (Dr.) G. L. Sivakumar Babu
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MODERATOR



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About the Speaker

Prof. G L Sivakumar Babu completed **Ph.D.**(Geotechnical Engineering) in 1991 from Indian Institute of Science, Bangalore, India, after obtaining Masters Degree (Soil Mechanics Foundation Engg.) in 1987 from Anna University, Madras and B.Tech. (Civil Engineering) degree in 1983 from Sri Venkateswara University, Tirupati.

He worked as Humboldt Fellow in Germany during June 1999- July 2000 and as Visiting Scholar, Purdue University, Lafayette, USA during 2/95 - 2/96. He served as the President of Indian Geotechnical Society during 2017-2020, and is currently the Chairman of International Technical Committee (TC-302) on Forensic Geotechnical Engineering (FGE) of International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE). He is a Fellow of ASCE and also served as Governor, ASCE, Region 10 during 2014-2020.

He guided 23 research degrees (i.e. 18 PhDs and 5 MS), wrote a book on soil reinforcement and geosynthetics, edited eight books and proceedings and has several publications to his credit (International and national Journals -175, International and national conf. more than 151 Total over 325). He received several awards such as John Booker award from IACMAG, Humboldt fellowship from Germany, DST Boyscast Fellowship, and a few awards for the best papers from Indian Geotechnical Society and American Society of Civil Engineers.

About the Topic

The Reinforced Soil Walls have been extensively used in infrastructure worldwide including in India. They have been adopted by Ministry of Road Transport Highways, Railways, State PWDs and many others to a considerable extent. They became the most common wall type preferred, especially for transportation projects, because of their rapid construction, cost-effectiveness, better seismic resistance and aesthetics. The application of this technique also has seen a few number of failures, such as collapse of certain sections of retaining systems, connection failures, excessive deformation etc. In this lecture, an overview of the principles of Reinforced Soils, failure mechanisms, causes of failure in terms of collapse, deformation, connection failure, role of fine grained soils, drainage provisions etc will be presented. The need for documentation of performance of these structures and categorization of failures will be highlighted, which will help to reduce the number of failures and to better understand the response of these structures. The lecture will be followed by panel discussion where eminent experts from industry will discuss the way forward to mitigate the risk of such failures in future.