



सीएसआईआर-केंद्रीय भवन अनुसंधान संस्थान, रुड़की
CSIR-Central Building Research Institute, Roorkee
Ministry of Science and Technology, Govt of India



CSIR-CBRI International Experts Lecture Series

Feb 14th 2025, Friday, 11:00 am (IST) onwards

Sustainability in Civil Engineering

In major civil engineering projects, reduction in material usage by efficient and optimised design and construction methods, and use of alternate material sources are key focus areas, in achieving Sustainability and Reduction in embodied carbon. OBSERVATIONAL METHOD (OM) is widely accepted around the world as a powerful technique to achieve sustainable designs while assuring safety and economy. In this presentation, two such examples are presented, a dredging and reclamation project in Abu Dhabi with beneficial use of dredged material, and a tall tower project in Dubai with foundation optimisation by OM, demonstrating how sustainable geotechnical solutions helped achieve significant time and cost savings as well as a significant reduction in carbon footprint.



Dr. Sujatha Manoj

PhD FIEAust NER CPEng RPEQ AIFASCE

Technical Director and
Geotechnical Services Leader,
Beca, Australia

Dr. Sujatha Manoj is the Technical Director and Geotechnical Services Leader for Beca, Australia one of the largest employee-owned consultancy firms in the Asia-Pacific. With a Master's and PhD in Civil and Geotechnical Engineering, she has over 31 years of experience across Australia, Singapore, UAE, and India. Dr. Sujatha is a Fellow of Engineers Australia, a Chartered Engineer, and a member of the International Society for Rock Mechanics and Rock Engineering. She also serves on the Editorial Board of the Indian Geotechnical Journal and as an Engineers Australia Nominee for Standards Australia committees. Dr. Sujatha has previously worked as Technical Director at Mott MacDonald, leading tunneling packages for the \$16 billion Sydney Metro project, and as a Geotech team leader for the Bangkok Metro project in Singapore. She has also held senior roles at Fugro, Nakheel, Parsons, and CDM Smith, managing major infrastructure projects such as the Dubai Palm Island, Abu Dhabi International Airport, and the Dubai Fujairah Freeway. Currently, Sujatha leads geotechnical teams across Australia at Beca. She is also an active author of technical papers and a regular speaker at industry conferences.

Click on the below link or QR
to register for the lecture
<https://forms.gle/MhtWpSrNGAhFRmRH8>



There is no registration fee for this lecture.
The participation link will be sent to your email.

Contact for any queries:

Sh. Nadeem Ahmad,
Head, Outreach & Dissemination
Services Office, CSIR-CBRI
+91-9897314949

Er. Hina Gupta Ghosh
Senior Scientist
hina@cbri.res.in

