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MEMBERS

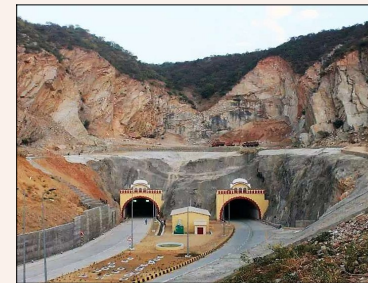
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Dr. Sujit Kumar Saran	Dr S. Ganesh
Dr PKS Chauhan	Mr MVinoth
Mr Manojit Samanta	Ms Aswathy
Dr Anindya Pain	Mr Ajay Dwivedi



Interested participants please contact Workshop Chairman or Secretary for details or any further clarifications.

National Workshop On Grand Challenges in Geotechnical Engineering (GCGE2020)

19-20 March 2020



Organized by



CSIR-Central Building Research Institute,
Roorkee-247667, Uttarakhand

PREAMBLE

Geotechnical engineering plays a pivotal role in all civil infrastructure development projects. The civil infrastructures include, but are not limited to: buildings, foundations and geotechnical support structures, tunnels and underground constructions, offshore structures, transportation systems like railways, sustainable resources development and environmental protection. Structures may suffer damages and also fail even though the structural material has satisfactory strengths if the ground conditions and their variations are not considered properly which ultimately leads to increased risk to the human lives and associated cost implications. Also, structures when exposed to severe environmental conditions and natural disasters like landslides and earthquakes lose their strength, performance and design life. Increasingly, inter and multi-disciplinary expertise is needed not only to design and construct these systems, but also to manage and sustain them as well. Keeping in mind the infrastructure requirement in a developing country like India, there is an urgent need of taking up grand challenges and providing scientific and engineering solutions for civil infrastructures to fill the knowledge gap.

Since its inception in 1947, CSIR-Central Building Research Institute, Roorkee has been working in the area of building science, technology and disaster resilience. The Geotechnical Engineering Group has the expertise in the field of foundation engineering and ground improvement besides landslide disaster mitigation. As the various infrastructures are coming up, it is the need of the hour to address the geotechnical challenges and prescribe solution for infrastructure development through this workshop.

OBJECTIVE

In this context, a 2 days National Workshop on “Grand Challenges in Geotechnical Engineering” (GCGE 2020) is envisaged to provide a platform for the research community, academicians, practicing engineers, industry people, and government agencies to jointly discuss various aspects of nitty-gritties, design, analysis and implementation of advanced solutions to civil and infrastructure problems. This will also reduce the risk and impact of geo-hazards to infrastructures and ensure a safe built-environment for inclusive growth of the country and cater to the needs of future cities and upcoming civil projects. The workshop is focused on the geotechnical challenges related to tunneling in hilly terrain and metro cities, resilient foundation for offshore structures, robust foundation design for high speed railway tracks, reclamation of waste lands such as closed landfill sites, fly-ash or red mud ponds, protection of ground water contamination etc. Eminent invited speakers from academia, research institutions and industries will deliver talks and share their experiences on these topics.

THEMES

The broad topics of this workshop includes various geotechnical challenges and their solutions in the following areas :

- ☞ Tunneling & Underground Space
- ☞ Geohazard
- ☞ Reclaimed Land
- ☞ Off-shore Geotechnics
- ☞ High Speed Rail
- ☞ Geoenvironmental Engineering

ONLINE REGISTRATION

Workshop delegate:	Rs.2500/-
Student/Research Scholar:	Rs.1500/-
Accompanying Person:	Rs.1000/-

The interested participants are requested to register by payment of registration fees online to the following account:

“Director, CBRI Roorkee”, Account No 30269847968, State Bank of India, CBRI Roorkee Branch IFSC Code SBIN0010635

The registration includes registration material, working lunch and workshop dinner.

A maximum of 50 participants will be accommodated on first come first serve basis.

The details of registration process will be intimated in the second flyer

ACCOMMODATION

Limited accommodation on payment basis shall be available in CBRI Guest House and will be booked on receipt of requests on first-come-first serve basis.

ABOUT ROORKEE

Roorkee is a heritage town situated almost at the foot hills of Himalayas and considered to be the gateway to several pilgrimage and tourist places. The venue of this conference viz. the CSIR-Central Building Research Institute, Roorkee is the premier institute in India dealing with multi functional activities of building research. Roorkee is also known for other institutes like IIT Roorkee, National Institute of Hydrology, Bengal Engineering Group & Centre and U.P. Irrigation Research Institute etc. Roorkee is well connected by road and rail from Delhi. The weather is very pleasant in Roorkee during March.