

# Workshop & Exhibition on Innovative and Sustainable Construction Materials & Technologies (ISCMT 2023)

6th January 2023, India Habitat Centre, New Delhi - 110003



# ABOUT CSIR-CBRI

CSIR-Central Building Research Institute, Roorkee, India, is vested with the responsibility of generating, cultivating and promoting building science and technology in the service of the country by finding sustainable, appropriate and economical solutions to the problems of building materials, health monitoring and rehabilitation of structures, disaster mitigation, fire safety, energy efficient rural and urban housing.



## ABOUT WORKSHOP & EXHIBITION

The Workshop & Exhibition on “Innovative and Sustainable Construction Materials & Technologies” as a part of CSIR “One Week One Lab” initiative is being organized by CSIR-CBRI on 6<sup>th</sup> January 2023 at India Habitat Centre, New Delhi with an aim of "Moving Towards Net Zero Emissions & Zero Wastes".

The production of construction materials has a great impact on the depletion of natural resources on one hand and generation of greenhouse gas emissions caused by fossil fuel combustion, thus affecting global climate change and ozone depletion.

On the other hand, building materials have embodied energy and carbon footprint and high operational energy consumption which are having environmental impacts

One of the goals for achieving sustainable future is by developing innovative and environmental friendly construction materials & technologies securing long-term environmental, economic and social viability.

The main aim of this workshop is to provide a platform for researchers academicians and professionals to share the latest knowledge about newer materials and technologies catering to and sustainability issues, which are most important relevant in the contexts of huge sustainable infrastructure development.

This workshop & exhibition is planned as a part of CSIR “One Week One Lab” initiative. During this workshop & exhibition, emphasis is given to discuss low carbon/low emission materials, energy efficient building systems and technologies, sustainable constructions, building materials, circular economy, CO<sub>2</sub> emission and control, climate change, net zero energy buildings, 3-D concrete printing, green technologies, hybridization of renewable sources, nano-technologies, landslide early warning and control, fire technologies, etc.

A technical exhibition is also being organized as a part of this event. This will showcase various newer materials, technologies and products giving additional exposure to the participants. The event will serve as an excellent meeting point for the professionals, academia, researchers, students, builders, construction agencies and other professionals and stakeholders.

# REGISTRATION

Interested participants may please complete and submit the attached **Registration Form** (also downloadable from [www.cbri.res.in](http://www.cbri.res.in) as early as possible).

The registration covers workshop participation in all the technical sessions, kit, inaugural function, technical exhibition, morning and afternoon coffee/tea and lunch.

## IMPORTANT DATES

Full length paper, covering any of the theme areas are invited from interested person/ participants. The following time schedule will be followed:

Submission Deadlines	Acceptance Notification	Date of Workshop
December 31, 2022	January 02, 2023	January 06, 2023

Soft copy of the final manuscript is to be submitted as per the paper template. All the submitted papers will be reviewed by a Technical Committee. Accepted manuscripts from the registered delegates will be provided in the Workshop Kit. Detailed guidelines can be seen at [www.cbri.res.in](http://www.cbri.res.in).

Only selected papers from the registered delegates will be selected for presentation / poster. Papers can be submitted at email: [workshop.iscmt@gmail.com](mailto:workshop.iscmt@gmail.com); [iscmt2023@cbri.res.in](mailto:iscmt2023@cbri.res.in).

## TECHNICAL THEMES

- **Low Carbon/Low Emission Materials:** Alternative cementitious binders, Green/ Eco-cement, Geopolymer, Carbon capture, Storage and Utilization (CCUS), Nano-materials, Supplementary Cementitious Materials (SCMs).
- **Sustainable Construction Technologies:** Waste utilization, Life cycle assessment, Functionality tests, Green technologies, Newer technologies, Special structures, C&D wastes, Fly-ash, Slags, Bottom ash, Clay and Other waste-based aggregates/Sintered and Manufactured aggregates.
- **Energy Efficient Systems & Technologies:** Energy efficient building envelopes, Energy audit and management, Renewable energy and hybridization, Co-generation, Energy management and regulatory provisions, Acoustic, Machine design, Climate change.
- **Advanced Concrete Technology:** Precast, Pre-fab construction, Ready mixed concrete, Self-compacting concrete, Special concretes, Pervious concrete, Lightweight concrete, 3-D concrete printing, Fibre reinforcement, Graphene.
- **Durability and Sustainability in Repair and Rehabilitation of Structures:** Non-destructive evaluation, Repair materials, Membranes & Coatings, Corrosion protection measures, Conservation of heritage structures, Water-proofing, Retrofitting and strengthening.
- **Disaster Resilient Ecosystem:** Multi hazard resilient systems, Earthquake, Landslide, Wind, Tsunami, Fire, Early warning systems, Building typologies, Multi hazard system verification, Structural Modelling, Facade design.

# Contacts

## Prof. Ramancharla Pradeep Kumar

Director, CSIR-CBRI &

Chairman, ISCMT2023

Ph: 01332-283323

Email: [director@cbri.res.in](mailto:director@cbri.res.in)

## Prof. S. K. Singh

Chief Scientist, CSIR-CBRI &

Organizing Secretary, ISCMT2023

Ph: 01332-283247, 283370

Email: [iscmt2023@cbri.res.in](mailto:iscmt2023@cbri.res.in)

[workshop.iscmt@gmail.com](mailto:workshop.iscmt@gmail.com)



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