



**SEC 2024**

**Pre-Conference Workshop on  
SUSTAINABLE CONSTRUCTION MATERIALS  
AND MANAGEMENT PRACTICES**

**Co-organised by**

Centre of Excellence on Technologies for Low-Carbon and Lean  
Construction (TLC2), IIT Madras &

Department of Civil Engineering, NIT Tiruchirappalli



**11<sup>th</sup> December 2024**



**A2 Hall, NIT Tiruchirappalli, India**

**About TLC2**

The Centre of Excellence on Technologies for Low-Carbon and Lean Construction (TLC2) at IIT Madras was established with a view towards addressing issues that would lead to the true adoption of the concepts of circular economy in construction with minimal impact on global climate change. The Centre is providing academic leadership in the areas of building science, construction materials, and construction management.

**About the Workshop**

Sustainable construction materials and management practices pave the path to economic, environmental, and social benefits through the appropriate and efficient use of resources, minimization of waste, and adoption of lean construction practices. This pre-convention workshop, co-sponsored by the Centre of Excellence on Technologies for Low-Carbon and Lean Construction (TLC2) at IIT Madras, explores the use of alternative and recycled materials and state-of-the-art technologies and addresses the challenges and opportunities to embrace sustainable practices in the construction industry.

**Who should attend?**

- Structural designers & Consultants
- Project/Construction managers, Builders & Site engineers
- Civil Engineering Faculty & Full-time researchers/Scientists
- Senior UG /PG students, Research scholars & Post-doc fellows

**Registration and Contact Details**

**Coordinator**

- Dr. Prabha Mohandoss  
9894575841, [prabham@nitt.edu](mailto:prabham@nitt.edu)

**Treasurer**

- Dr. Santhosh Loganathan  
9840068351, [lsanthosh@nitt.edu](mailto:lsanthosh@nitt.edu)

**Registration link: [Click here](#)**

Payment detail is available on the webpage



Registration Fee (INR)	Early bird registration before 30 <sup>th</sup> Sep. 2024	Registration from 1 <sup>st</sup> Oct. 2024-30 <sup>th</sup> Nov. 2024
Industry professionals / Scientists	3000	3500
Faculty members	2000	2500
Students	1000	1500



# Themes and Speakers



**Sustainability Assessment of Concrete Construction**  
Dr. Ravindra Gettu, V.S. Raju Chair Professor, IIT Madras  
9:30 AM – 10:10 AM

**A Systematic Approach to Utilize Recycled Aggregates  
from C&D Waste for Rigid Pavements**

Dr. M Selvam, Assistant Professor, IIT Patna  
10:10 AM – 10:50 AM



Tea Break: 10:50 AM – 11:05 AM



**Recycling of Returned Concrete using Concrete Additives**  
Dr. Jayasree Chakkamalayath, Chief Technology Officer, IIT Madras  
11:10 AM – 11:40 AM

**Durable Repair Strategies for Extending the Service Life of  
Concrete Structures**

Dr. Radhakrishna Pillai, Professor, IIT Madras  
11:40 AM – 12:20 PM



**Application of GFRP bars for Coastal Resilient Infrastructure**  
Dr. Prabha Mohandoss, Assistant Professor, NIT Tiruchirappalli  
12:20 PM – 1.00 PM

Lunch Break: 1:00 PM – 2:00 PM

**Seismic Assessment of Heritage Structures**  
Dr. Tamali Bhowmik, Senior Scientific Officer, IIT Madras  
2:00 PM – 2:40 PM



**Challenges and Opportunities for Effective Implementation of Lean  
Construction in India**  
Dr. Santhosh Loganathan, Assistant Professor, NIT Tiruchirappalli  
2:40 PM – 3:20 PM

Tea Break: 3:20 PM – 3:40 PM

**Use of Contracts for Implementing Lean and Sustainable Practices in  
Construction Projects.**

Dr. Murali Jagannathan, Assistant Professor, IIT Madras

3:40 P.M – 4:20 PM



**Policy to Encourage Sustainability in the Built Environment**  
Dr. Ashwin Mahalingam, Professor, IIT Madras  
4:20 PM – 5:00 PM

**NIT Tiruchirappalli welcomes you...**