



# Third International Conference on Construction Materials and Structures on Synergy of Materials and Structures

All poster presenters are requested to be ready with their posters by 9:00 AM

Day 1, 3rd July 2025

Dr. Tamizharasi, SVNIT, Dr. Jashnav Pancheti, IIT Tirupati, Dr. M. Nithyadharan, IIT Tirupati, Dr. Najeeb Shariff Mohammad, IIT Bombay, & Dr Aparup Biswal, Precast Works Competency Center

Sl. No.	Poster timings	Abstract ID	Poster Title
1	Poster Mounting Time <b>08:30</b> Evaluation Time <b>14: 30 - 17: 30</b>	0058	A Study on Earthen Sustainable Structures as an Innovative Construction Material
3		0393	Chloride Induced corrosion of reinforcement in simulated pore solution of geopolymers
4		8604	Thermal bending analysis of functionally graded rectangular plates
5		1333	Scientometric Review on High volume Flyash Self Compaction Concrete
6		1548	Experimental Investigation of strength properties of Concrete containing Silica fume and PET Aggregates
7		1814	A Bibliometric Analysis of Geopolymer Concrete Research: Unexplored Avenues for Sustainable Development
8		1825	Evaluating the Suitability of "Good Earth" as Subgrade Material in Roads: A Sustainable Approach to Road Construction Materials
9		2435	Improving geotechnical properties of sands using microbially induced calcite precipitation (MICP): influencing factors and laboratory evaluation
10		2581	Effectiveness of Surface Treatment of lightweight expanded clay aggregate (LECA) for the production of Structural Lightweight Concrete
11		3148	Experimental investigation on aeration concrete using hydrogen peroxide as aerating agent
12		4329	A Sustainable Approach to Cement Substitution Using PET Resin Synthesized in Different Glycols
13		4710	Impact of steel fibers from scrap on strength properties of self-compacting concrete
14		5013	Elucidating the hydration kinetics and microstructure of the wollastonite-metakaolin blended Portland Cement Composites
15		5045	Impact and Fatigue Performance Analysis of Prestressed Concrete Railway Sleepers Using Finite Element Modeling
16		5176	A pilot study on the strength properties of FAL G composite
17		5328	Ultra-High-Performance Concrete with Industrial Byproducts Subjected to Elevated Temperature
18		5434	Study On Feasibility Of Plastic Waste As Fine Aggregate In Fiber Reinforced Concrete
19		5770	Elucidating the Performance Characteristics of Carbonated Wollastonite Blended Portland Cement Composites
20		5870	Innovative Use of Palm Kernel Shell in Ternary blended Concrete: A Sustainable Approach to Aggregate Replacement
21		5906	Performance Evaluation of Sustainable Asphalt Mastic with Industrial By-Product Fillers in Bituminous Concrete Mixes
22		9101	Optimization of Foam-Based Geopolymer Concrete Mix Design at Low Molarities
23		5970	Review on practical relevance of sustainable material usage in the real time construction activities - A Qualitative approach
24		6098	Circular Economy strategies for C&D Waste management in India: A Comprehensive Analysis of Policies, Practices, Challenges and its solutions with a Focus on Uttar Pradesh
25		6145	Evolution of Bacterial Concrete: A Critical Review
26		6346	Experimental Study on Transparent Concrete using Rice Husk Ash and Glass Optical Fibers
27		6512	A study on Addition of Glass Fibre & Flyash for production of M25 Light Weight Concrete
28		6553	Parametric Effects of Nano Titanium Dioxide on the Durability and Mechanical Properties of Cement Concrete using Response Surface Methodology
29		8666	Performance improvement of local burnt clay bricks in Kokan region: A Review
30		8811	A Comprehensive Review on Utilization of gypsum waste powder (GWP) and Ceramic waste powder (CWP) in concrete
31		9482	Bottom Ash Bricks Reinforced with Enzyme Induced Calcium Carbonate Precipitation : A Green Approach to Construction
32		9553	Experimental study on the Mechanical and Microstructural Properties of Cement Mortar Using Nano-Silica
33		9560	Experimental Investigation on Partial Replacement of Cement with Sugarcane bagasse ash and Sand with Plastic Aggregate
34		9717	A Study on addition of CaCO <sub>3</sub> to regular fly ash to prepare geopolymer concrete for pavement applications
35		9804	Development of Fireproof Coating Using Vermiculite for Fire-Prone Environment
36		8746	Wind interference effects analysis in twin-tower structures using computational fluid dynamics (CFD) and comparison with codal provisions
37		3091	Innovative Structural Modifications to Moment Resisting Framed Buildings on Sloping Grounds in Hilly Regions
38		6535	Performance of Reinforced Concrete Building Structures Subjected to Extreme Loadings
39		6317	Numerical Analysis of Reinforced Concrete Beams Retrofitted with Jute Textile Reinforced Composites and Bamboo Textile Reinforced Composites)