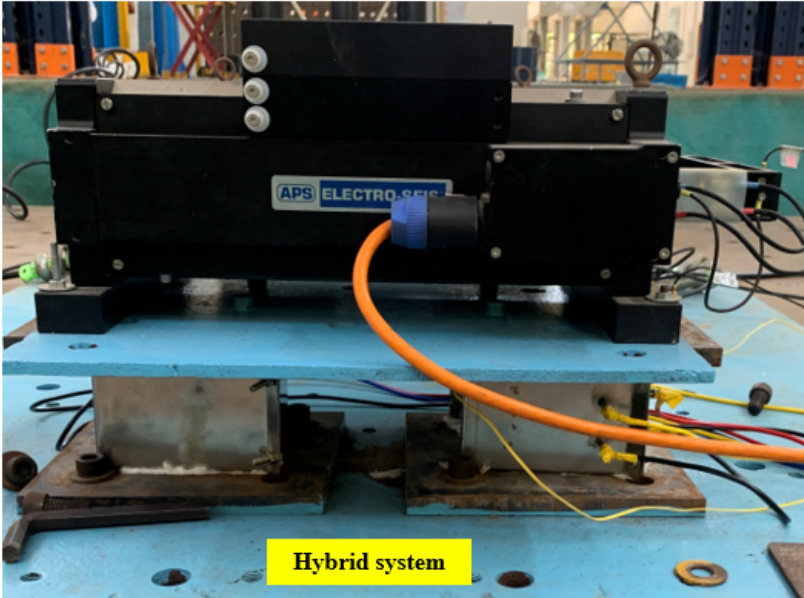


Technology developed

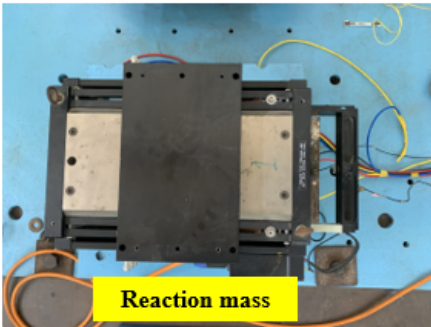
Name of the technology developed	: HyThermSlim: Thermo-mechanical Hybrid Simulation Platform for Structural Testing
PI	: Dr. Mohit Verma
Team	: Dr. C. Bharathi Priya F
Purpose	: This technology offers a realistic, cost-effective platform for evaluating thermo-mechanical behaviour of structures under complex conditions. It accurately simulates temperature-dependent dynamic responses, replicates boundary conditions with high fidelity and quantifies thermo-mechanical coupling, enabling better understanding of fire and seismic effects. Providing reliable data for model validation and flexible integration with simulations, it accelerates the development of safer structural systems across engineering domains.
TRL	: 4



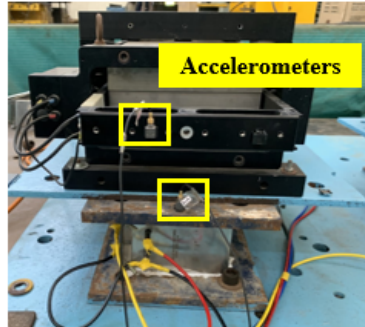
Hybrid system



Air heater



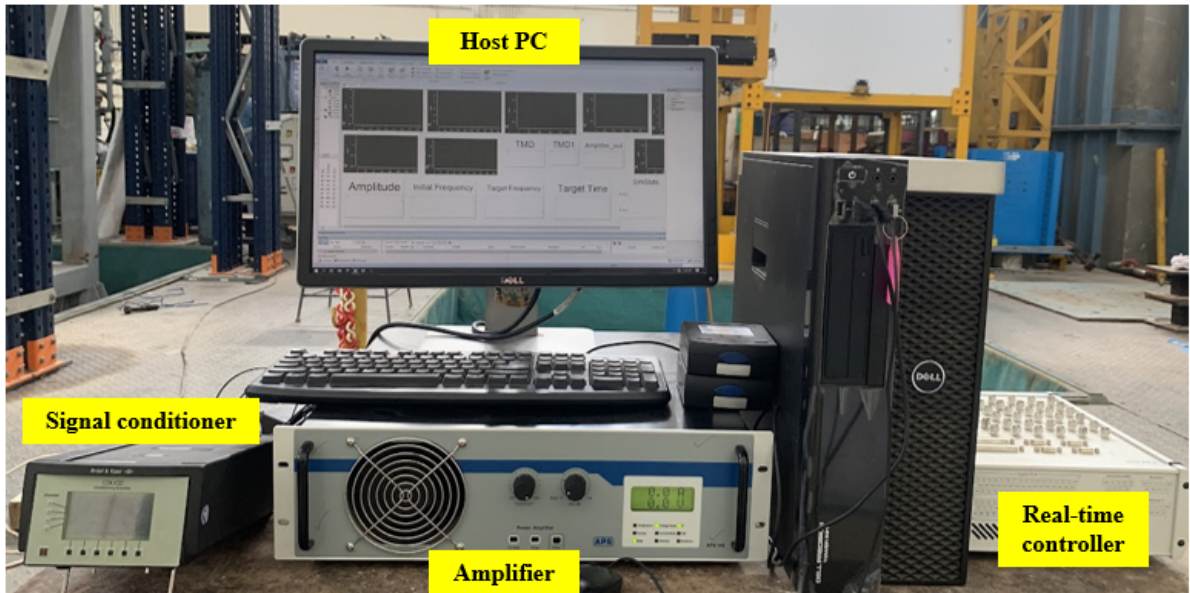
Reaction mass



Accelerometers



Thermal controller



Signal conditioner

Host PC

Amplifier

Real-time controller