

# Mahindra TERI Centre of Excellence (MTCoE) For Sustainable Habitat

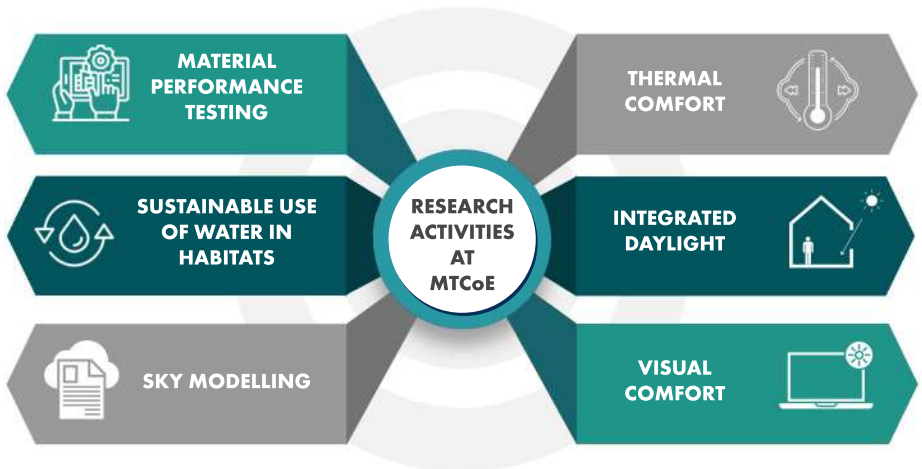


TC-8746



# VISION

The Mahindra TERI Centre of Excellence (MTCoE) for Sustainable Habitat is a joint research initiative of Mahindra Lifespaces and TERI. It focuses on developing science-based solutions for India's future-built environment, intending to reduce the energy footprint of the real estate industry. The vision of the Centre of Excellence is to build a greener urban future by developing energy-efficient solutions tailored to Indian climates.



Premier laboratory for  
**THERMAL PARAMETER TESTING**

The MTCoE lab, a SVA-GRIHA 5-star rated facility, has received accreditation for testing thermal properties of building materials from National Accreditation Board for Testing and Calibration Laboratories (NABL). The objective of the CoE is to develop a repository of new and innovative materials and technologies in context of the Indian building sector and climates.



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## WHY MTCoE?



**Accredited Quality Systems:**  
IS/ISO/IEC-17025:2017,  
ISO 9001 Certified

**Advanced equipments with  
excellent precision and  
accuracy**



**NABL accredited lab**

**Enhanced product  
credibility**



**Well organized  
"state-of-the-art" facility**

**Special consideration for  
Academic Institutions**



**Platform to boost product  
outreach amongst stakeholders**

**Supplementary benefits in  
bulk quantity testing**





# OUR MATERIAL TESTING SERVICES

Thermal  
Conductivity  
(*K-Value*)

Thermal  
Diffusivity  
(*α-Value*)

Specific Heat  
Capacity (*C*)

Thermal Emittance  
(*ε-Value*)

Thermal  
Transmittance  
(*U-Value*)

Thermal Resistance  
(*R-Value*)  
and **more....**

BRICKS & BLOCKS



POWDER



GELS



LIQUIDS



MATERIAL ASSEMBLIES



GLAZING & **MORE..**



Tested more than 150 vernacular, contemporary and innovative materials such as:

Strawclay Brick, Afghanistan Traditional, Brick, Insulating Fabric, Low Carbon Plaster, Agrowaste Cube, Glass Tile and **many more....**



# **HOT DISK THERMAL CONSTANT ANALYSER**



Thermal Constant Analyser rapidly and accurately measures the thermal conductivity, thermal diffusivity and specific heat capacity of a wide range of materials and encompasses high level of accuracy with material size flexibility.

The material testing by Transient Plane Source technology is based on ISO:22007-2.



# ***GUARDED HOT BOX***

The Guarded Hot Box is used to measure the Thermal Transmittance (U-value) and Thermal Resistance (R-value) of building material assemblies by steady-state method as per ASTM C 1363.



# EMISSOMETER



The existing Emissometer model AE1 with the Scaling Digital Voltmeter is a special purpose instrument for measuring hemispherical emittance in compliance with ASTM C1371. The instrument is applicable for both flat as well as non-flat surfaces for thermal emittance ( installed surfaces emittance can be measured in place.



## CONTACT US

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for Sustainable Habitats ————— ...

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LIFESPACES

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