

# RACHNA 2.0

RESILIENT, AFFORDABLE AND COMFORTABLE HOUSING THROUGH NATIONAL ACTION

## Training # 24: One-Day Training Programme on 'Innovative Construction Technologies & Best Construction practices'

Location: Ayodhya | Date : 12<sup>th</sup> January 2023, Thursday | Time : 10:00 AM to 5:30 PM

### ABOUT THE TRAINING:

RACHNA- 'Affordable and Comfortable Housing Through National Action', is an initiative of Ministry of Housing Urban Affairs (MoHUA) in partnership with Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH and Building Material and Technology promotion Council (BMTPC).

75 trainings workshops on Innovative Construction Technologies Thermal Comfort for Affordable Housing were conducted under this program between April and August 2022. After the success of RACHNA series, now the next series of trainings 'RACHNA 2.0' from Dec 2022 till Mar 2023 is planned across India. The main focus of the training is thermal comfort and its necessity in the affordable housing sector to a wider set of audience and stakeholders. This training program covers Handbook on Innovative Construction Technologies & Thermal comfort in Affordable housing, Thermal Comfort analysis of LHP and Demonstration Projects, Life cycle cost of LHPs, low-cost solutions, policy documents, building codes, international practices, and other aspects relevant to thermal comfort in affordable housing.

### JOIN US AT:

Conference Hall

Ayodhya Development Authority

Ayodhya, Uttar Pradesh

### TARGET STAKEHOLDERS



Senior Govt.  
Officials &  
Policy makers



Built-environment  
professionals &  
Govt. Departments



Building Sector  
Stakeholders



Technograhis

For Further Details, Please drop an email to  
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## 'Innovative Construction Technologies & Best Construction practices'

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### Day I

TIME	TOPIC	SPEAKER
09:50 - 10:00	Registration & Lamp Lighting	By Dignitaries
10:00 - 10:15	Welcome Address	CSB Cell
	Keynote Address	Chief Guest
10:15 - 10:30	Introduction to MoHUA's Housing for All Programme, GHTC India Challenge	CSB Cell / GIZ
	Introducing GIZ and Climate Smart Buildings Cell (CSB)	
<b>10:30 - 10:45</b>	<b>High Tea &amp; Networking</b>	
10:45 - 11:30	<b>Session 1: Innovative Construction Technologies of Light House Projects, LHP Study and Observations</b>	Mr. Saif Uddin (Expert Trainer)
	<ul style="list-style-type: none"> <li>a) New age innovative technologies along with LHPs construction technologies focusing on - efficiency in construction, mainstreaming &amp; replication of technologies, and sustainable cum thermal comfort aspects.</li> <li>b) Thermal Comfort Analysis and Recommendations on LHPs and Demo Projects.</li> <li>c) Concept of Life cycle cost and its impact on carbon emission.</li> <li>d) Q&amp;A on New &amp; Innovative technologies and Thermal Comfort</li> </ul>	
11:30 - 13:15	<b>Session 2: Importance of Thermal Comfort</b>	Mr. Saif Uddin (Expert Trainer)
	<ul style="list-style-type: none"> <li>a) Thermal comfort and cooling demand</li> <li>b) Factors affecting thermal comfort and cooling demand</li> <li>c) Contemporary approaches</li> <li>d) Thermal Comfort Metrics</li> </ul>	
<b>13:15 - 14:15</b>	<b>Lunch Break</b>	
14:15 - 15:00	<b>Session 3: Building Physics &amp; Fundamental of Thermal Comfort</b>	Mr. Saif Uddin (Expert Trainer)
	<ul style="list-style-type: none"> <li>a) Concept of energy and Heat</li> <li>b) Factors Influencing Heat Transfer and Laws of thermodynamics</li> <li>c) Heat Balance and Adaptive Thermal Comfort Method</li> <li>d) Local Thermal Discomfort</li> </ul>	
15:00 - 15:30	<b>Session 4: Passive Strategies &amp; Building Materials</b>	Mr. Sandeep Verma (Expert Trainer)
	<ul style="list-style-type: none"> <li>a) Affordable Housing &amp; Passive Design Strategies</li> <li>b) Innovative building materials (Wall, Glazing &amp; Roof)</li> <li>c) Case Studies</li> </ul>	
<b>15:30 - 15:45</b>	<b>High Tea &amp; Networking</b>	
15:45 - 17:00	<b>Session 5: Building Codes</b>	Mr. Sandeep Verma (Expert Trainer)
	<ul style="list-style-type: none"> <li>a) IMAC &amp; ASHRAE</li> <li>b) Eco Niwas Samhita Part -1 &amp; Part -2</li> <li>c) Code Provisions</li> <li>d) ENS Compliance Tool</li> </ul>	
17:00 - 17:20	Q&A	Expert Trainers
17:20 - 17:30	Vote of Thanks	CSB Cell