

# RACHNA 2.0

RESILIENT, AFFORDABLE AND COMFORTABLE HOUSING THROUGH NATIONAL ACTION

## Training #58: Two Day Training Programme

'Training on emerging construction technologies & Climate Smart Building'

Location: Madurai | Date : 23 & 24 March 2023 | Time : 10:00 AM to 04:30 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:

Hotel North Gate,  
Near American College, Goripalayam,  
Madurai, TN

### TARGET STAKEHOLDERS



Govt. Officials &  
Policy makers



Built-environment  
professionals &  
Govt. Departments

For Further Details, Please drop an email to  
Mr. Anand Sachithanatham; [Chennai.gizCSBcell@gmail.com](mailto:Chennai.gizCSBcell@gmail.com) ;

## 'Training on emerging construction technologies & Climate Smart Building'

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TIME	TOPIC	SPEAKER
10:00 - 10:30	Registration	
10:30 - 10:45	Welcome Address	<b>Mr. Anand Sachithanantham</b> Team Manager, Climate Smart Buildings Cell
	Facilitation	By Dignitaries & CSB Cell
	Special Address	<b>Mr. Ramakrishnan</b> Executive Engineer, TNUHDB
10:45 - 11:00	Introduction to MoHUA's Housing for All Programme, GHTC India, Introduction to GIZ, and Climate Smart Buildings	<b>Mr. Anand Sachithanantham</b> Team Manager, CSB Cell
<b>11:00 - 11:15</b>	<b>High Tea &amp; Networking</b>	
11:15 - 12:00	<b>Session 1: Innovative Construction Technologies of Light House Projects, LHP Study and Observations</b>	
	a) New age innovative technologies along with the 6 LHP construction technologies focusing on - efficiency in construction, mainstreaming & replication of technologies, and sustainable cum thermal comfort aspects.	<b>Mr. Anand Sachithanantham</b> Team Manager, CSB Cell
	b) Thermal Comfort Analysis and Recommendations on LHPs and Demo Projects.	
	c) Concept of Life cycle cost and its impact on carbon emission.	
d) Q&A on New & Innovative technologies and Thermal Comfort.		
12:00 - 13:15	<b>Session 2: Importance of Thermal Comfort</b>	
	a) Thermal comfort and cooling demand	<b>Mr. Crosby Paul</b> ECBC Master Trainer
	b) Factors affecting thermal comfort and cooling demand	
	c) Contemporary approaches	
d) Thermal Comfort Metrics		
<b>13:15 - 14:15</b>	<b>Lunch Break</b>	
14:15 - 15:15	<b>Session 3: Building Physics &amp; Fundamental of Thermal Comfort</b>	
	a) Concept of Heat and Energy	<b>Mr. Crosby Paul</b> ECBC Master Trainer
	b) Factors Influencing Heat Transfer and Laws of thermodynamics	
	c) Heat Balance and Adaptive Thermal Comfort Method	
d) Local Thermal Discomfort		
15:15 - 16:15	<b>Session 4: Passive Strategies &amp; Building Materials</b>	
	a) Affordable Housing & Passive Design Strategies	<b>Mr. Crosby Paul</b> ECBC Master Trainer
	b) Innovative building materials	
c) Case Studies		
16:15 - 16:30	Q&A Session	Trainer & CSB Cell
<b>High Tea &amp; End of Day 1</b>		

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10:00 - 10:15	Registration	
10:15 - 11:15	<b>Session 5: Thermal Comfort Study Methods</b> a) Study Environments b) Statistical Analysis	<b>Mrs. Girija</b> Architect, ECBC Cell
<b>11:15 - 11:30</b>	<b>High Tea &amp; Networking</b>	
11:30 - 13:00	<b>Session 6: Low Energy Cooling Technologies and Comfort</b> a) Categories of Low energy cooling systems b) Rating Steps and Standards c) Case Studies	<b>Mrs. Girija</b> Architect, ECBC Cell
<b>13:00 - 14:00</b>	<b>Lunch Break</b>	
14:00 - 15:30	<b>Session 7: Building Codes</b> a) IMAC & ASHRAE b) Eco Niwas Samhita Part -1 & Part -2 c) Code Provisions d) ENS Compliance Tool	<b>Mrs. Girija</b> Architect, ECBC Cell
15:30 - 16:15	<b>Session 8: Green Building and Green Measures</b>	<b>Mr. Anand Sachithanatham</b> Team Manager, CSB Cell
16:15 - 16:25	Q&A Session	Trainer & CSB Cell
16:25 - 16:30	Vote of Thanks	<b>Mr. Anand Sachithanatham</b> Team Manager, CSB Cell
<b>High Tea &amp; End of Sessions</b>		