

RACHNA 2.0

RESILIENT, AFFORDABLE AND COMFORTABLE HOUSING THROUGH NATIONAL ACTION

Training # 57: Two-Days Training Programme on 'Innovative Construction Technologies & Thermal Comfort in Affordable Housing'

Location: Meeting Room, RMC, Ranchi | Date : 27th – 28th February | 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:

Auditorium,
Ranchi Municipal Corporation, Ranchi

TARGET STAKEHOLDERS



Built-environment
professionals &
Govt. Departments



Building Sector
Stakeholders

'Innovative Construction Technologies & Thermal Comfort in Affordable Housing'

Location: Meeting Room, RMC, Ranchi | Date : 27th – 28th February | Time : 9:30 AM to 5:30 PM |

AGENDA - DAY-I		
TIME	TOPIC	SPEAKER
09:30 – 10:00	Registration	By Participants
10:00 - 10:30	Welcome Address	Mr. D.K. Dwivedi Project Engineering Specialist, DMA
	Keynote Address	Ar. Arun Kumar, Town Planner, RMC
	Special Address	Shri Shashi Ranjan Municipal Commissioner, RMC
10:30 - 10:45	Introduction to MoHUA's Housing for All Programme, GHTC India, Introduction to GIZ, and Climate Smart Buildings	Ar, Nidhi Tibrewal CSB Cell
10:45 – 11:00	High Tea & Networking	
11:00 - 12:00	Session 1: Innovative Construction Technologies of Light House Projects, LHP Study and Observations	
	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.	Mr. Sidharth Sharma, President, Magicrete /Mr. Avijit Ghosh Ph.d. (Engg.) FIE, Certified Energy Auditor Expert Trainer-1
	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 - 13:30	Session 2: Importance of Thermal Comfort	
	a) Thermal comfort and cooling demand	Mr. Avijit Ghosh Ph.d. (Engg.) FIE, Certified Energy Auditor Expert Trainer-1
	b) Factors affecting thermal comfort and cooling demand	
	c) Contemporary approaches	
d) Thermal Comfort Metrics		
13:30 – 14:30	Lunch Break	
14:30 - 15:30	Session 3: Building Physics & Fundamental of Thermal Comfort	
	a) Concept of energy and Heat	Mr. Rajendra Pandya B.Tech. Certified ECBC Master Trainer Expert Trainer -2
	b) Factors Influencing Heat Transfer and Laws of Thermodynamics	
	c) Heat Balance and Adaptive Thermal Comfort Method	
d) Local Thermal Discomfort		

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15:30 - 16:45	Session 4: Passive Strategies & Building Materials a) Affordable Housing & Passive Design Strategies b) Innovative building materials c) Case Studies	Mr. Rajendra Pandya B.Tech. Certified ECBC Master Trainer Expert Trainer -2
16:45 - 17:00	High Tea & Networking	
17:00 – 17:15	Q&A Session	Expert Trainer
17:15 – 17:30	Vote of Thanks	CSB Cell
AGENDA - DAY-II		
10:00 – 11:00	Session 5: Thermal Comfort Study Methods (a) Study Environments (b) Statistical Analysis	Mr. Avijit Ghosh Ph.d. (Engg.) FIE, Certified Energy Auditor Expert Trainer-1
11:00 - 11:15	High Tea & Networking	
11:15 – 13:00	Session 6: Low Energy Cooling Technologies and Comfort (a) Categories of Low energy cooling systems (b) Rating Steps and Standards (c) Case Studies	Mr. Avijit Ghosh Ph.d. (Engg.) FIE, Certified Energy Auditor Expert Trainer-1
13:00 – 14:00	Lunch Break	
14:00 – 16:00	Session 5: Building Codes a) IMAC & ASHRAE b) Eco Niwas Samhita Part -1 & Part -2 c) Code Provisions d) ENS Compliance Tool	Mr. Rajendra Pandya B.Tech. Certified ECBC Master Trainer Expert Trainer -2
16:00 – 16:15	High Tea	
16:15 – 16:45	Session 8: Green Building and Green Measures	Mr. Rajendra Pandya B.Tech. Certified ECBC Master Trainer Expert Trainer -2
16:45 – 17:00	Q&A Session/ Quiz	Expert Trainers
17:00 – 17:15	Vote of Thanks	CSB Cell