

RACHNA 2.0

RESILIENT, AFFORDABLE AND COMFORTABLE HOUSING THROUGH NATIONAL ACTION

Training # 38: Two-Days Awareness Programme on 'Innovative Construction Technologies & Thermal Comfort in Affordable Housing'

Location: National Institute of Technology, Patna | Date : 2nd & 3rd Feb 2023 | Time : 9:50 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:

S-9, CWRS Building,
National Institute of Technology, Patna

TARGET STAKEHOLDERS



Faculty/
Technograhis



Architecture
Students

'Innovative Construction Technologies & Thermal Comfort in Affordable Housing'

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AGENDA - DAY-I		
TIME	TOPIC	SPEAKER
09:50 - 10:00	Registration	By Participants
10:00 - 10:15	Welcome Address	Prof. Prakash Chandra, Dean (Student Welfare)
	Keynote Address	Prof. Manoj Kumar, HOD, Dept. of Arch. & Planning
10:15 - 10:30	Introduction to MoHUA's Housing for All Programme, GHTC India, Introduction to GIZ, and Climate Smart Buildings	CSB Cell
10:30 - 10:45	High Tea & Networking	
10:45 - 11:30	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. 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.		
11:30 - 13:15	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		
13:15 - 14:15	Lunch Break	
14:15 - 15:00	Session 3: Building Physics & Fundamental of Thermal Comfort	
	a) Concept of energy and Heat	Mr. J.K. Vyas M.tech, LL.B., M.B.A, PG Dip in Urban Planning & Development 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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TIME	TOPIC	SPEAKER
15:00 - 15:30	<p>Session 4: Passive Strategies & Building Materials</p> <p>a) Affordable Housing & Passive Design Strategies b) Innovative building materials c) Case Studies</p>	Mr. J.K. Vyas M.tech, LL.B., M.B.A, PG Dip in Urban Planning & Development Expert Trainer -2
15:30 - 15:45	High Tea & Networking	
15:45 - 17:00	<p>Session 5: Building Codes</p> <p>a) IMAC & ASHRAE b) Eco Niwas Samhita Part -1 & Part -2 c) Code Provisions d) ENS Compliance Tool</p>	Mr. J.K. Vyas M.tech, LL.B., M.B.A, PG Dip in Urban Planning & Development Expert Trainer -2
17:00 - 17:20	Q&A Session	CSB Cell/ Expert Trainer
17:20 - 17:30	Vote of Thanks	CSB Cell
AGENDA - DAY-II		
10:30 - 11:00	Revisiting Day I	CSB Cell
11:00 - 13:00	Design Challenge Exercise	CSB Cell
13:00 - 14:00	Lunch Break	
14:00 - 16:00	Design Challenge Exercise	CSB Cell
16:00 - 16:15	High Tea	
16:15 - 17:15	Design Challenge Judgment and Winner Announcement	CSB Cell
17:15 - 17:30	Vote of Thanks	CSB Cell