

RACHNA 2.0

RESILIENT, AFFORDABLE AND COMFORTABLE HOUSING THROUGH NATIONAL ACTION

Training # 27: One-Days Training Programme on 'Innovative Construction Technologies & Thermal Comfort in Affordable Housing'

Location: Bhubaneswar | Date : 17th March 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:

Hotel Presidency,
Bhubaneswar, Odisha

TARGET STAKEHOLDERS



Built-environment
professionals &
Govt. Departments



Building Sector
Stakeholders

For Further Details, Please drop an email to
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'Innovative Construction Technologies & Thermal Comfort in Affordable Housing'

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AGENDA		
TIME	TOPIC	SPEAKER
09:50 – 10:00	Registration	By Participants
10:00 - 10:15	Welcome Address	Mr. Partha Sarathi Sahoo Team Lead (SLTC) Odisha
	Keynote Address	Dr. Swadhin Ku. Panigrahi State Level Technical Expert (Civil & infra.)
10:15 - 10:30	Introduction to MoHUA's Housing for All Programme, GHTC India, Introduction to GIZ, and Climate Smart Buildings	CSB Cell - GiZ
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. Kumar Biplab M.TECH, LEED AP (O+M), IGBC AP, BEE ECBC Master Trainer 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. Saibal Saha B.TECH, GRIHA CP, ENERGY AUDITOR, IGBC AP, BEE ECBC Master Trainer Expert trainer -2
	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. Kumar Biplab M.TECH, LEED AP (O+M), IGBC AP, BEE ECBC Master Trainer Expert trainer -1
	b) Factors Influencing Heat Transfer and Laws of Thermodynamics	
	c) Heat Balance and Adaptive Thermal Comfort Method	
d) Local Thermal Discomfort		
15:00 - 15:30	Session 4: Passive Strategies & Building Materials	
	a) Affordable Housing & Passive Design Strategies	Mr. Saibal Saha B.TECH, GRIHA CP, ENERGY AUDITOR, IGBC AP, BEE ECBC Master Trainer Expert trainer -2
	b) Innovative building materials	
c) Case Studies		
15:30 - 15:45	High Tea & Networking	
15:45 – 17:00	Session 5: Building Codes	
	a) IMAC & ASHRAE	Mr. Kumar Biplab M.TECH, LEED AP (O+M), IGBC AP, BEE ECBC Master Trainer Expert trainer -1
	b) Eco Niwas Samhita Part -1 & Part -2	
	c) Code Provisions	
d) ENS Compliance Tool		
17:00 – 17:20	Q&A Session	Expert Trainers
17:20 – 17:30	Vote of Thanks	CSB Cell - GiZ