

RACHNA 2.0

RESILIENT, AFFORDABLE AND COMFORTABLE HOUSING THROUGH NATIONAL ACTION

Training #46: One-Day Online Training Programme on

'Innovative Construction Technologies & Thermal Comfort for Affordable Housing'

Location: Online (Google Meet) | Date : 20th March 2023, Monday | Time : 11:00 AM to 5:00 PM

ABOUT THE TRAINING:

RACHNA- 'Resilient 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.

Meeting-Link:

<https://meet.google.com/khx-ccfp-uzs>

TARGET STAKEHOLDERS



Senior Govt.
Officials &
Policy makers



Built-environment
professionals &
Govt. Departments



Building Sector
Stakeholders



Technograhis

'Innovative Construction Technologies & Thermal Comfort for Affordable Housing'

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Day I

TIME	TOPIC	SPEAKER
11:00 - 11:15	Welcome Address	Mr. Govinda Somani, GIZ
11:15 - 11:30	Introduction to MoHUA's Housing for All Programme, GHTC India Challenge and Climate Smart Buildings Programme	Mr. Govinda Somani, GIZ
11:30 - 12:15	Session 1: Importance of Thermal Comfort a) Thermal comfort and cooling demand b) Factors affecting thermal comfort and cooling demand c) Contemporary approaches d) Thermal Comfort Metrics	Mr. Saif Uddin (Expert Trainer)
12:15 - 13:15	Session 2: Building Physics & Fundamental of Thermal Comfort a) Concept of energy and Heat b) Factors Influencing Heat Transfer and Laws of thermodynamics c) Heat Balance and Adaptive Thermal Comfort Method d) Local Thermal Discomfort	Mr. Saif Uddin (Expert Trainer)
13:15 - 14:15	Lunch Break	
14:15 - 15:00	Session 3: Passive Strategies & Building Materials a) Affordable Housing & Passive Design Strategies b) Innovative building materials (Wall, Glazing & Roof) c) Case Studies	Mr. Saif Uddin (Expert Trainer)
15:00 - 15:45	Session 4: Innovative Construction Technologies of Light House Projects, LHP Study and Observations a) New age innovative technologies along with LHPs construction technologies focusing on - efficiency in construction, mainstreaming & replication of technologies, and sustainable cum thermal comfort aspects. b) Thermal Comfort Analysis and Recommendations on LHPs and Demo Projects. c) Concept of Life cycle cost and its impact on carbon emission.	Mr. Saif Uddin (Expert Trainer)
15:45 - 16:40	Session 5: Building Codes a) IMAC & ASHRAE b) Eco Niwas Samhita Part -1 & Part -2 c) Code Provisions d) ENS Compliance Tool	Mr. Saif Uddin (Expert Trainer)
16:40 - 16:55	Q&A	Mr. Saif Uddin (Expert Trainer)
16:55 - 17:00	Vote of Thanks	GIZ