



Trainings on Innovative Construction Technologies & Thermal Comfort for Affordable Housing

Venue: Amaltas Hall, India Habitat Centre, New Delhi

Date: 20th & 21st April 2022, Wed-Thu | Time: 10:00 am to 5:30 pm

ABOUT THE TRAINING

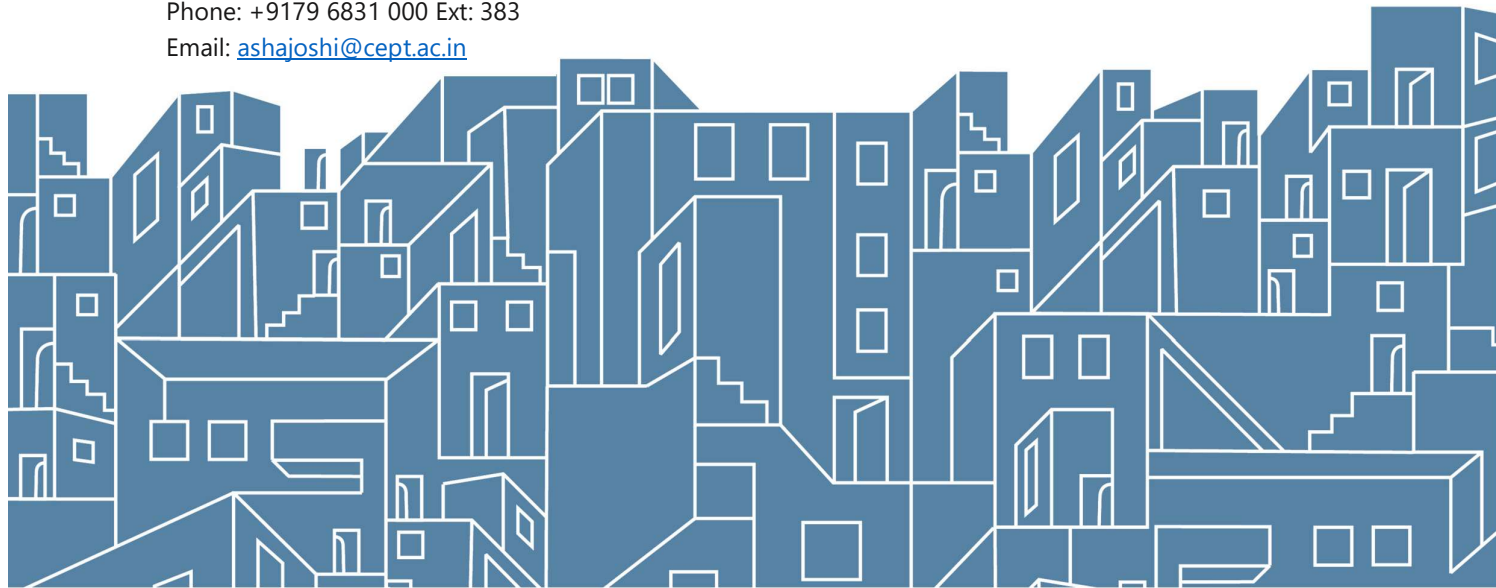
Ministry of Housing & Urban Affairs in partnership with GIZ is hosting series of trainings on Innovative Construction Technologies & Thermal Comfort for Affordable Housing named RACHNA (Resilient, Affordable and Comfortable Housing through National Action). The focus of this training is thermal comfort and its necessity in the affordable housing sector. The training covers the thermal comfort basics, material influences, low-cost solutions & codes that are available in India to create Climate-Smart Buildings. The outcome of the training would be to make the stakeholders in the affordable housing sector understand the need for thermal comfort & urge them to include no cost or low-cost strategies in upcoming projects.

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Target Stakeholders



**Senior Govt. Officials
& Policy makers**



**Built-environment professionals
& Govt. Departments**



**Building sector
stakeholders**

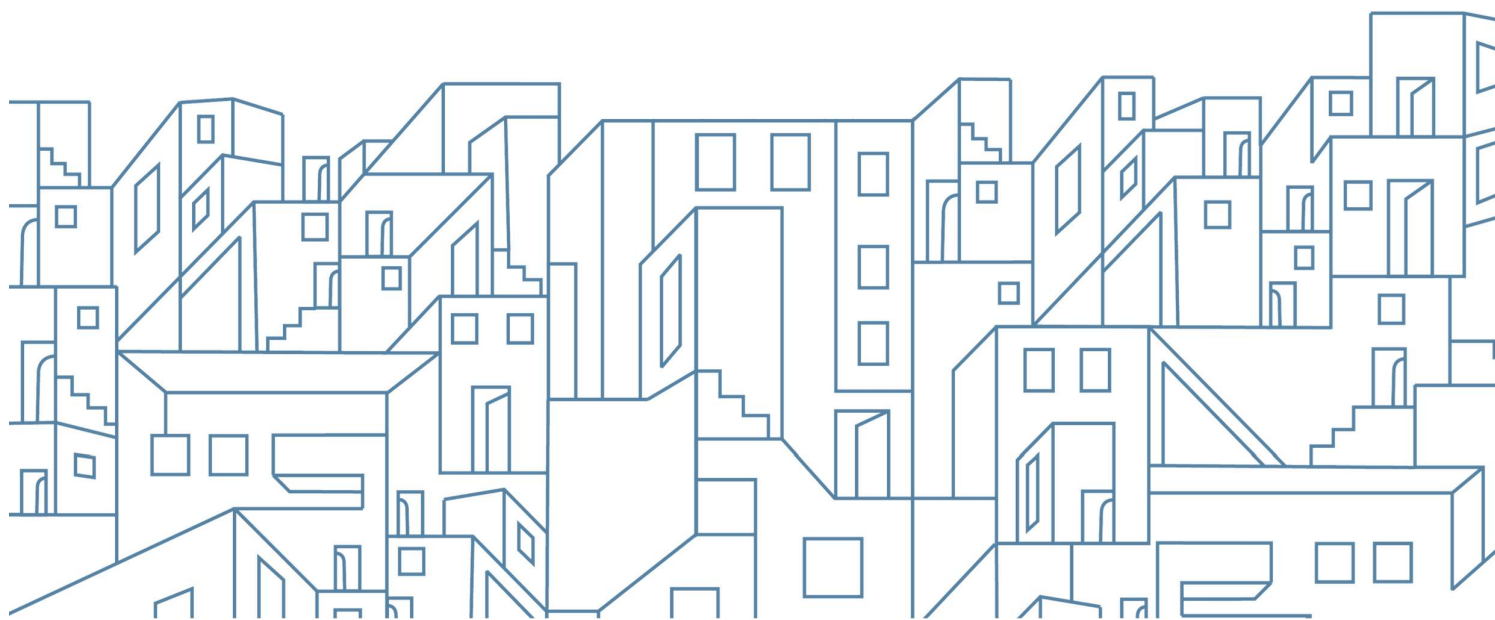


Technograhis

'RACHNA for Practitioners' training program will deliver in-depth knowledge on thermal comfort, its nuances, and its relationship with building physics. Moreover, it will familiarize participants with design strategies, construction techniques, policy documents, building codes, international practices, and other aspects relevant to thermal comfort in affordable housing through a suite of case studies. Additionally, it will discuss the evaluation process of thermal comfort, the statistics and indicators involved as well as affordable cooling technologies and their applicability in various climates.

Session plan is as follows:

| Day 1- April 20 th , 2022 (Wednesday) | | |
|--|---|--|
| 10h00 – 10h10 | Welcome address by GIZ | Mr. Markus Wypior, Dy. Cluster Co-ordinator, GIZ |
| 10h10 – 10h20 | Introduction to Rachna Training Programme | Prof. Rajan Rawal Senior Advisor, CARBSE, CEPT University |
| 10h20 – 10h30 | Special address by BMTPC | Dr. Shailesh Kumar Agrawal, Executive Director, BMTPC |
| 10h30 – 10h45 | Keynote address by MoHUA | Shri. Kuldip Narayan Joint Secretary and Mission Director (HFA), MoHUA |
| 10h45 – 10h50 | Vote of thanks | Mr. S Vikash Ranjan, Project Head, IGEN-CSB, GIZ |
| 10h50 – 11h00 | Tea Break | |



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|---------------|--|-------------------|
| 11h00 – 11h45 | Session 2 (Technical): Importance of Thermal Comfort | Prof. Rajan Rawal |
| 11h45 – 12h00 | Questions and Answers | |
| 12h00 – 12h15 | Health Break | |
| 12h15 – 13h15 | Session 3 (Technical): Building Physics and its relationship with Thermal comfort | Dr Yash Shukla |
| 13h15 – 13h30 | Questions and Answers | |
| 13h30 – 14h15 | Lunch Break | |
| 14h15 – 15h00 | Session 4 (Technical): Fundamentals of Thermal Comfort | Prof. Rajan Rawal |
| 15h00 – 15h15 | Questions and Answers | |
| 15h15 – 16h00 | Session 5 (Technical): Affordable Housing Passive Design Strategies | Prof. Rajan Rawal |
| 16h00 – 16h15 | Questions and Answers | |
| 16h15 – 16h30 | Health Break | |
| 16h30 – 17h15 | Session 6 (Technical): Building Materials and Methods of Construction for Affordable Housing | Dr Yash Shukla |
| 17h15 – 17h25 | Questions and Answers | |
| 17h25 – 17h30 | Session 7: Day 1 Concluding Remarks | Anmol Mathur |

| Day 2- April 21, 2022 (Thursday) | | |
|----------------------------------|---|-------------------|
| 10h00 – 10h15 | Session 8: Day 1 Recap | Anmol Mathur |
| 10h15 – 11h15 | Session 9 (Technical): Building Codes, Affordable Housing and Thermal Comfort | Prof. Rajan Rawal |
| 11h15 – 11h30 | Questions and Answers | |
| 11h30 – 11h45 | Health Break | |



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| 11h45 – 12h15 | Session 10 (Technical): Application of Thermal Comfort in Affordable Housing- A Suite of Case Studies | Prof. Rajan Rawal |
| 12h15 – 13h15 | Session 10A (Technical): Overview of Innovative construction technologies implemented in Light House Projects (LHPs) | Dr. Shailesh Kumar Agrawal, Executive Director, BMTPC |
| 13h15 – 14h15 | Lunch Break | |
| 14h15 – 15h00 | Session 11 (Technical): Thermal Comfort Study Methods | Prof. Rajan Rawal |
| 15h00 – 15h15 | Questions and Answers | |
| 15h15 – 16h15 | Session 12 (Technical): Low Energy Cooling Technologies and Comfort | Prof. Rajan Rawal |
| 16h15 – 16h30 | Questions and Answers | |
| 16h30 – 17h15 | Session 13: Discussions on quiz-questionnaires and feedback from participants | Prof. Rajan Rawal |
| 17h15 – 17h30 | Session 14: Concluding Remarks | Anmol Mathur |



Implemented by

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