



## Climate Smart Buildings

# Training Program on Innovative Construction Technologies & Thermal Comfort in Affordable Housing

RACHNA for Officers



## About Climate Smart Buildings

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The Federal Republic of Germany and the Government of the Republic of India jointly promote the “Indo-German Energy Programme” (IGEN) under the Indo-German Technical Cooperation. IGEN aims to advance use sustainability in built environment. Through Climate Smart Buildings (CSB) programme, IGEN proposes the following:

1. To provide technical assistance in developing thermal comfort action plan for climate resilient building for affordable housing
2. Technical support in implementation of Global Housing Technology Challenge - India

The Climate Smart Buildings (CSB) programme is aligned with the commitments made by the Indian Government to meet its objectives submitted under SDG 11.

The objective of this programme is to enhance climate resilience and thermal comfort in buildings by adopting innovative passive measures, local sustainable and low embodied energy material coupled with best available technologies in constructions and buildings in affordable housing.



## About the Project

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This project titled 'Training Program on Innovative Construction Technologies & Thermal Comfort in Affordable Housing' aims to acquaint the larger audience with the nuances of thermal comfort through a multi-layered understanding and low and/or no-cost interventions in affordable housing.

Under the "Housing for All mission, the "Pradhan Mantri Awas Yojana" (PMAY) addresses affordable housing requirements throughout the country with central assistance from ministry of Housing and Urban Affairs (MoHUA). Despite financial and temporal challenges in meeting these housing demands, a requirement to consider thermal comfort arises because increasing access to affordable housing and rising per capita income will generate greater demand for thermal comfort. Additionally, these residences will continue to use energy resources for the next 60 years at least. As a result, knowledge of low and/or no-cost interventions that provide thermal comfort to occupants is essential at all levels of operation.

The project will amplify the efforts of multiple stakeholders working individually through creation of centralized platform and unified efforts.



## Training Program & its Benefits

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Senior Govt.  
Officials &  
Policy makers



Built-  
environment  
professionals



Building  
sector  
stakeholders



Technograhis

RACHNA for Officers' training program will familiarize participants with the concept of thermal comfort and its nuances. Moreover, it will equip the participants with necessary knowledge to identify and implement opportunities of providing desirable thermal comfort to occupants of affordable housing along with skills to develop and integrate thermal comfort policy at national/ state level. It will discuss 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.

**Participants of the training program will be equipped with enhanced knowledge and skillset to ensure provision of thermal comfort in India's affordable housing sector.**



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(GIZ) GmbH  
46 Paschimi Marg, Vasant Vihar,  
New Delhi 110057, India

## Knowledge Partner



CEPT Research and Development Foundation (CRDF)  
CEPT University, K.L.Campus, Navarangpura,  
Ahmedabad - 380 009, India  
Phone: +9179 6831 0000, Ext: 383  
Website: [www.carbse.org](http://www.carbse.org)  
Email: [ashajoshi@cept.ac.in](mailto:ashajoshi@cept.ac.in), [carbse@cept.ac.in](mailto:carbse@cept.ac.in)





