



RACHNA

RESILIENT, AFFORDABLE AND COMFORTABLE HOUSING THROUGH NATIONAL ACTION

Climate Smart Buildings

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

RACHNA for Practitioners



About Climate Smart Buildings

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

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



Senior Govt.
Officials &
Policy makers



Built-
environment
professionals



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.

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



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