

Enabling the Ecosystem to Improve Access to Green Affordable Housing for Women: Research and Innovation

About Project

The project, titled “Enabling the Ecosystem to Improve Access to Green Affordable Housing for Women - Research & Innovation” had the following components- “Green Building and Climate Research”, and “Incubation and Innovation”. One of the study’s objectives was to establish and enhance the present state of understanding of affordable, climate-resilient housing in India from the perspectives of gender sensitivity, finance, and overall performance. The second objective was to facilitate the development of novel green technologies which complement the affordable and resilient building stock. This study’s outcomes have been structured into nine documents.

Key Takeaways

The current study has led to formulation of the following design-related takeaways:

- Unified Resilient Green Building Framework
- Compendium of Strategies for Climate Responsive and Resilient Buildings
- Gender Sensitive Guidelines for Green Affordable Housing.
- Policy level recommendations for Codes and Green Building Rating Programs
- Performance evaluation of several walling, roofing, and fenestration technologies and their readiness for applicability in Green Affordable Housing.



D1	Green Building Rating Programs: Assessment and Gap Identification
D2	Financial Mechanisms to Support the Design and Operation of Climate Responsive and Resilient Affordable Housing
D3	Policy Recommendations and Implementation Model enhancing the current state of Green Affordable Housing in India.
D4	Compendium of strategies making buildings Climate Responsive and Resilient
D5	Unified Green Building Rating Program
D6	Integrating Green Lending in Affordable Housing Finance: Policy Recommendations and Interventions for Financial Institutions
D7	Mainstreaming Gender Sensitivity in Green Affordable Housing: Guidelines
D8	Green Affordable Housing in India: Best Practices
Activity 10	Innovative Construction Technologies for Green Affordable Housing

Actionable Insights

Following are the actionable insights derived from this study:

- Need for prevailing Green Building Rating Programs to address gaps.
- Technical, financial, and governance related support for new and innovative construction materials.
- HFCs to be an integral part of Green Affordable Housing financing models. Governance and administrative process for Green Affordable Housing to be simplified.

Funding Agencies



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Activities carried out for different deliverables

Activity 1	Assessment of prevailing green building rating programs, codes, standards and guidelines for their applicability to achieve climate-responsive, climate resilient and gender-sensitive affordable housing in India	D1 D5	Activity 8	Formulate an implementation model and policy recommendations based on analysis of the aforementioned parameters	D3 D6
Activity 2	Identification of gaps or any recommendations for improvement or enhancement	D1 D5	Activity 9	Publish a compendium of strategies for climate-responsive and climate resilient housing for various climatic zones on India.	D4
Activity 3	Establish a benchmark for the performance of Green Building Codes, standards and rating programs during the operation stage of the affordable housing projects	D5	Activity 10	Identify cost effective, innovative climate resilient green construction technologies from across the country/globe currently available in the market or in research phase; with a view to catalyse the implementation of the selected technologies with the help of industry partners or respective government agencies; and should aid the administration of granting any incentives to support this exercise;	D3
Activity 4	Mapping of decision-making process for buyers considering the mandatory aspects of climate-resilient housing	D2	Activity 11	Develop and publish a unified resilient green building system, encompassing standards tailoring to the local climate zones of various regions across the country.	D5
Activity 5	Propose a methodology on how to assess the average cost of climate adaptation measures	D2	Activity 12	Establish climate risk and adaptation assessment, and formulate a system to integrate green lending and climate adaptation strategies in the context of affordable housing finance for Financial Institutions	D6
Activity 6	Derive outcomes that can benefit financial institutions (banks, non-banks or housing finance companies) to develop a financial mechanism to support the design and operation of climate-responsive, climate resilient affordable housing	D2	Activity 12	Prepare a guideline for mainstreaming gender in green housing and green urban infrastructure development, for public dissemination	D7
Activity 7	Analyze the prevailing resource and energy baseline codes and their applicability to Indian affordable housing. Develop a suitable benchmark for resource and energy performance applicable to the Indian affordable housing context	D5	Activity 12	lessons learned and best practices in the implementation of green affordable housing in India based on the TA research results	D8