



Ministry of Housing
and Urban Affairs
Government of India



**GLOBAL
HOUSING
TECHNOLOGY
CHALLENGE INDIA**



GLOBAL HOUSING TECHNOLOGY CHALLENGE INDIA

The Ministry of Housing and Urban Affairs, Government of India has conceptualized a Global Housing Technology Challenge - India (GHTC- India) which aims to identify and mainstream a basket of innovative technologies from across the globe that are sustainable and disaster-resilient.

Such technologies would be cost effective, speedier and ensure a higher quality of construction of houses, meeting diverse geo-climatic conditions and desired functional needs. The GHTC-India platform aspires to provide an eco-system for the adoption of innovative technologies in the housing construction sector in a holistic manner. Lighthouse projects are envisaged that will be built using these innovative technologies and further support will be provided to upcoming domestic technologies to foster an environment of research and development.

Conceptualised through extensive consultations with various stakeholders, GHTC-India leverages the scale and successes of the Pradhan Mantri Awas Yojana (Urban) and its Technology Sub-Mission. It furthers the transformative vision of the Hon'ble Prime Minister and his belief in technological advances to rapidly deliver low-cost housing that meets stringent environmental, societal, quality and economic standards.

To enable a technology transition, GHTC-India will encourage participation from across the affordable urban housing and construction sectors, such as technology providers, researchers, start-ups, developers, academia, public sector agencies, and civil society organizations. Details of participation will be progressively updated on the challenge website

ghtc-india.gov.in



Component 1

Grand Expo and Conference on Alternative and Innovative Construction Technologies

A Grand Expo and Conference will be organized biennially (once every two years) in India to provide a platform to all stakeholders associated with housing construction. The event will have panel discussions, inspiring talks, exhibition of prototypes, the exchange of knowledge and business, provide networking opportunities and the signing of MoUs. The first Expo and conference is proposed to be held on 2nd and 3rd March 2019 and is expected to be attended by a wide range of stakeholders such as technology providers, researchers, builders, developers, entrepreneurs, academia, civil society organisations, and public-sector agencies such as housing boards and public works offices.



Component 2

Identifying and Mainstreaming Proven Demonstrable Technologies for the Construction of Lighthouse Projects

Proven Technologies that are innovative and established are to be identified and mainstreamed from around the world for use in the Indian context. Such technologies will be invited to apply through a global online Express of Interest (EoI), which in turn will be rigorously screened by an eminent Technical Evaluation Committee constituted at the Ministry of Housing and Urban Affairs. Suitability for the different regions of India will be established, and these technologies will be further invited to design and build lighthouse projects of approximately 1,000 housing units each at six places in the country. These projects will demonstrate the merits of the selected technologies and serve as live laboratories for research, testing, technology transfer, increasing mass awareness and for mainstreaming them in the country.



Component 3

Identifying Potential Future Technologies for Incubation and Acceleration Support through ASHA - India (Affordable Sustainable Housing Accelerators)

Potential Future Technologies from India that are applicable to the housing sector will be supported and encouraged through the ASHA India program. It will invite applications from local researchers and technology developers whose products are not yet market ready or are market ready and are yet to achieve scale.

Promising solutions will be identified by an eminent Technical Evaluation Committee for Incubation and Acceleration support. Four eminent IITs will provide incubational facilities and support such as product development, mentoring and monitoring, prototyping, company incorporation, patent guidance and business model assistance. Accelerator workshops will be organised by leading institutions to enable a better eco-system familiarity for start-ups through master classes with funders, industry leaders, and sector experts. At least one accelerator workshop will be organized each year.



GHTC-India Launch and Applications Open

Press Meet, Website Launch, and Applications open for Proven and Potential Technologies. Registration open to participate in EXPO

Town Hall (Pre-Bid Meeting for clarifications on challenge)

Proven Technologies

Screened by TEC for Expo

6 sites selected across
6 States / UTs

Potential Technologies

Shortlisted for Expo

Pre-prototype: recommended for **incubation**
Post-prototype: recommended for **acceleration**

Grand Expo and Conference

Presentations – Exhibits – TEC Evaluations – Masterclasses
Networking – Announcements – Awards

TEC Identifies Basket of Technology

Specific Technologies Sorted

Site Wise by TEC - Location Specific
exclusive Technologies Selected as per Geo
Climatic Conditions, Livability, Functionality

Procurement Process for Lighthouse Projects

Technical Eligibility Qualification followed by
Least Cost Based Selection

Award of Work

Light House Project Construction

Shortlisted Potential Technologies receive Accelerator Workshops

Post prototype technologies get market
mainstreaming familiarity and winners awarded

Winning Potential Technologies receive Incubation at IITs

Pre prototype technologies receive
handholding to become market ready

Learnings Documentation and Dissemination

Live Laboratory – Certification, Standardization, SORs –
Skill Building - Curriculum Update

Grand Expo and Conference (2nd edition)

Felicitation of Winners and Other Events



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