GLOBAL HOUSING TECHNOLOGY CHALLENGE INDIA
Interactive Session with Heads of Missions on

GLOBAL HOUSING TECHNOLOGY CHALLENGE INDIA

- By -
Durga Shanker Mishra
Secretary
Ministry of Housing & Urban Affairs
Govt. of India, New Delhi

21st January, 2019
Growing Opportunities with Rapid Urbanization

- With US $2.85 trillion GDP, India is one of the largest and fastest growing economies in the world. It is witnessing massive public investment, robust private consumption, and structural reforms leading to rapid growth (> 7%).

- Construction in India is emerging as the third largest sector globally; it may reach US $750 billion in value by 2022.

- Cities, which will contribute over 80% to GDP by 2050, need to be Receptive, Innovative and Productive to foster sustainable growth and ensure better quality of living.

- Hence, a comprehensive strategy of 3-S Mantra has been adopted: Skill, Scale and Speed.

Source: UN report on World Urbanisation Prospects (2014 revision)
MoHUA Initiates for Urban Transformation

Flagship Missions under the Ministry of Housing & Urban Affairs (MoHUA) aim to achieve Transformative, Inclusive and Sustainable development through planning, development and reforms for achieving Urban Transformation.

For addressing the huge housing demand in Affordable Sector, Govt. of India launched Pradhan Mantri Awas Yojana-Urban in June 2015.

Nearly 10 Million affordable houses are to be delivered by 2022.

Construction of houses at this scale offers an opportunity to attract alternative and innovative new technologies from across the globe to trigger transition through introduction of cutting-edge building materials, technologies and processes.

Hon’ble Prime Minister desired to leverage this opportunity to get the best globally available construction technologies through a Challenge to enable paradigm shift in the construction sector.

Accordingly, through wide consultation with various stakeholders, Global Housing Technology Challenge-India (GHTC-India) has been conceptualized.

Challenge - Why?

- BLC* 39 Lakh
- AHP* 23 Lakh
- ISSR* 4.5 Lakh
- CLSS* 3.5 Lakh

* Beneficiary Led Construction, Affordable Housing in Partnership, In-Situ Slum Redevelopment, Credit Linked Subsidy Scheme
<table>
<thead>
<tr>
<th>Challenge - What?</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Grand Expo- Cum-Conference</strong></td>
</tr>
<tr>
<td>• Biennial Event</td>
</tr>
<tr>
<td>• Promotion of Innovative Construction Technology</td>
</tr>
<tr>
<td>• Platform to Facilitate Signing of MoUs and form Potential Partnerships</td>
</tr>
<tr>
<td>• Technical Evaluation, Exchange of Knowledge and Business</td>
</tr>
<tr>
<td>• Exhibition of Technologies</td>
</tr>
</tbody>
</table>

| **Proven Demonstrable Technologies** |
| • Onboard States & Local Support Partners |
| • Six Lighthouse Project Sites |
| • Induct Established Proven Technologies from Across the Globe |
| • Identify Basket of Site-specific Technologies |
| • Different Technology for Each Site |
| • Live Laboratories for Learning |
| • Technology to be Adopted in Curriculum and Indian System |

| **Potential Future Technologies** |
| • Setting up **ASHA- India** (Affordable Sustainable Housing Accelerators) |
| • Support Domestic Technologies by Product Development, Mentoring & Market Support |
| • Incubation Centres in IITs |
| • Organizing Periodic Accelerator Workshops |

GHTC-India will create a holistic enabling eco-system to facilitate construction technology transition and mainstream that in the country.
Challenge - How?

GHTC-India Launch and Applications Open
Website Launch, Press Meet, 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 Participation in Expo

Potential Technologies
Shortlisted for Expo

6 sites selected in 6 different States/UTs

Pre Prototype: recommended for Incubation
Post Prototype: recommended for Acceleration

Grand Expo and Conference
Presentations – Exhibits – TEC Evaluations – Accelerator – Networking – Announcements – Awards

Basket of Technologies Identified by TEC

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
For Light House Project Construction

Winning Potential Technologies taken into IITs for Incubation

Technologies complete incubation and make market ready

Basket of Technologies Identified by TEC

2nd Grand Expo and Conference – Biennial subsequently
Felicitation of Winners and other Events

Learnings Documentation and Dissemination
Live Laboratory – Certification, Standardization, SORs – Skill Building – Curriculum Update
Challenge - When?

- **GHTC- India Challenge Launch**: Applications Open for Proven & Potential Technologies
  - Registrations Open to Participate in the Grand Expo Cum Conference

- **Town Hall**: Session On Clarification On Challenge Provided
  - On-Boarding Partners: States/UTs (Six sites identified), IITs, Logistics Partners, Knowledge Partners, Event Partners

- **Grand Expo and Conference**: Exhibits of Prototypes, Networking Events, Seminars, Discussions and the Exchange of Knowledge and Business
  - On Clarification On Challenge Provided

- **Accelerator Workshops**: Shortlisted Potential Technologies receive Accelerator Workshops
  - Location Specific Technology Selected as per Local Geo Climatic Conditions
  - Incubation of Potential Technologies at select IITs

- **Empanelling Basket of Proven Technologies Location Specific Technology Selected as per Local Geo Climatic Conditions**
  - Award of Work for Lighthouse Projects by States/UTs
  - Incubation of Potential Technologies at select IITs

- **Construction Completion**
  - Potential Technologies Complete Incubation
  - Award of Work for Lighthouse Projects by States/UTs

- **Grand Expo Cum Conference**
  - 2nd Grand Expo to be Conducted by NAREDCO in Partnership with MoHUA to Mainstream Innovation in Housing Technology
  - Felicitation of Winners and other Events

**Dates**
- **14 Jan, 2019**
- **Feb, 2019**
- **01-02 March, 2019**
- **March-April, 2019**
- **May, 2019**
- **July, 2019**
- **Jan, 2021**
- **March, 2021**
Challenge Participant - Who?

- Construction Entity having delivered one of the following multi-storeyed affordable housing projects (carpet area \( \geq 30 \text{ sqm} \) for each house) during last 5 years using resource efficient green technology reducing cost and time:
  a) Three completed projects of 400 or more affordable houses at one place each.
  b) Two completed projects of 500 or more affordable houses at one place each.
  c) One completed project of 800 or more affordable houses at one place.
- Entity whose technology has been successfully employed and proven in delivering constructions as above.
- List of possible entities from our research is shared.
Challenge Participation - Why?

- Exposure to large scale rapidly growing Indian Market
- Central/ State Government support this technology transition
- Smooth adoption: Curriculum, Schedule of Rates, Make in India
- Enabling huge outreach through lighthouse projects: Academia, Practitioners (Public/ Private), Policy Makers
- Opportunity for new Partnerships (Public/ Private)
- Success in India opens up huge possibilities in India and other Transition Economies
Participation Support - What?

• Six sites be made ready for Light House Projects
• Indian Partners (Public/ Private) be registered for local logistic support, if needed
• States provide necessary civic infrastructure and assist in all clearances
• Central/ State Governments organise financial flow after selection
• Indian Missions abroad assist in visa, information etc. for participation
Foreign Mission in India - Support Expected

• Spread the word to prospective technology providers
• Encourage participation in this unique Challenge
• Support Indian Missions abroad to network them for facilitating participation
• Provide details to/ contact for any query to:

  Name : Mr R. K. Gautam
  Designation : Director (MoHUA)
  Phone : +91-11-23063266, +91-9868992637
          (from 09:00 hrs to 20:00 hrs Indian Time)
  E-mail : ghtc-mhua@gov.in

GHTC-India, Video Link:
https://www.youtube.com/watch?v=HvjMcpbFchw
We Invite You to Be a Partner in India’s Growth Story of Reform, Perform & Transform
Thanks

Ghtc-india.gov.in
Support-ghtc.india@gov.in
@GHTcIndia
Facebook.com/globalhousingtechnology
Linkedin.com/in/ghtc-india