GLOBAL HOUSING TECHNOLOGY CHALLENGE INDIA

- By -

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

14th 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%).

- The construction is emerging as the third largest sector globally; may reach US $738.5 billion in value by 2022.

- The 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 is needed: **Skill, Scale and Speed**

---

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

The flagship Missions under the Ministry of Housing & Urban Affairs (MoHUA) aim to achieve transformative, inclusive and sustainable development through planning and reforms for achieving Urban Renaissance.

For addressing the huge housing demand, 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 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.

<table>
<thead>
<tr>
<th>Why is This Challenge?</th>
</tr>
</thead>
</table>

- **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
**What is This Challenge?**

<table>
<thead>
<tr>
<th>Grand Expo- Cum-Conference</th>
</tr>
</thead>
<tbody>
<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 Space</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Proven Demonstrable Technologies</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Onboard States &amp; Local Support Partners</td>
</tr>
<tr>
<td>• Induct Established Technologies from Across the Globe</td>
</tr>
<tr>
<td>• Technical Evaluation - TEC</td>
</tr>
<tr>
<td>• Identify Basket of Technologies</td>
</tr>
<tr>
<td>• Site specific Technologies</td>
</tr>
<tr>
<td>• Six Lighthouse Projects</td>
</tr>
<tr>
<td>• Live Laboratories</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Potential Future Technologies</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Setting up ASHA- India (Affordable Sustainable Housing Accelerators)</td>
</tr>
<tr>
<td>• Support Domestic Technologies by Product Development, Mentoring &amp; Market Support</td>
</tr>
<tr>
<td>• Incubation Centres in IITs</td>
</tr>
<tr>
<td>• Periodic Accelerator Workshops</td>
</tr>
</tbody>
</table>

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

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
6 sites selected in 6 different 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 – 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

Learning Documentation and Dissemination
Live Laboratory – Certification, Standardization, SORs – Skill Building - Curriculum Update

Winning Potential Technologies taken into IITs for Incubation
Technologies complete incubation and become market ready

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

Procurement Process for Lighthouse Projects
Technical Eligibility Qualification followed by Least Cost Based Selection

Award of Work
For Light House Project Construction

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

Learning Documentation and Dissemination
Live Laboratory – Certification, Standardization, SORs – Skill Building - Curriculum Update

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

Procurement Process for Lighthouse Projects
Technical Eligibility Qualification followed by Least Cost Based Selection

Award of Work
For Light House Project Construction

Learning Documentation and Dissemination
Live Laboratory – Certification, Standardization, SORs – Skill Building - Curriculum Update

2nd Grand Expo and Conference – Biennial subsequently
Felicitation of Winners and Other Events
When is This Challenge?

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

14 Jan, 2019

Town Hall
Session On Clarification On Challenge Provided

Feb, 2019

On-Boarding Partners
States/UTs (Six sites identified), IITs, Logistics Partners, Knowledge Partners, Event Partners

01-02 March, 2019

Grand Expo and Conference
Exhibits of Prototypes, Networking Events, Seminars, Discussions and the Exchange of Knowledge and Business

April-March, 2019

Accelerator Workshops
Shortlisted Potential Technologies receive Accelerator Workshops

May, 2019

Empanelling Basket of Proven Technologies
Location Specific Technology Selected as per Local Geo Climatic Conditions

July, 2019

Award of Work for Lighthouse Projects by States/UTs

Jan, 2021

Construction Completion
Potential Technologies Complete Incubation

March, 2021

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

14 Jan, 2019 - July, 2019

Accelerator Workshops
Shortlisted Potential Technologies receive Accelerator Workshops

Incubation of Potential Technologies at select IITs

Learnings and Documentation Dissemination

Feb, 2019 - March, 2021

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

Jan, 2021 - March, 2021
Thanks