



## Concept Note

### “12<sup>th</sup> GRIHA Summit”

Theme – ‘Rejuvenating Resilient Habitats’

15<sup>th</sup> – 16<sup>th</sup> December, 2020

(Virtual Mode)

**Green Rating for Integrated Habitat Assessment (GRIHA) Council**, is an autonomous, not for profit society jointly set up by **The Energy and Resources Institute (TERI)** and Ministry of New and Renewable Energy (MNRE), Government of India to promote and administer the development of sustainable buildings and habitats in India through GRIHA, the indigenous rating system developed by TERI, which was adopted as the National Rating System of India by MNRE. GRIHA has been acknowledged as India’s own green building rating system. The tool evaluates reductions in emission intensity through habitats. GRIHA is a part of mitigation strategy for combating climate change in INDIA's “Nationally Determined Contributions” submitted to UNFCCC by the Ministry of Environment, Forests & Climate Change.

Over the years, GRIHA Council has been hosting its Annual Summits to deliberate on issues which are of national discourse in association with entities of national and international repute such as Ministry of Housing & Urban Affairs; Ministry of Power; Ministry of New and Renewable Energy; UNSW Sydney, Australia; Royal Danish Embassy; GIZ; Bureau of Energy Efficiency. The past Summits had been designed on the themes such as “Approach to Integrated Sustainability”, “Fostering Partnerships for Sustainable Habitats”, “Transforming Habitats”, “Sustainable is Affordable” and “Transforming Habitats”.

Considering the COVID-19 pandemic, the theme for this year’s Summit has been thought of as “**Rejuvenating Resilient Habitats**” since the focus is to design our buildings and cities in such a way that they are more resilient in terms of climate, health related issues, natural calamities, biodiversity, etc. Resilient Habitat is therefore an approach in disaster risk reduction and climate change adaptation which targets the most vulnerable communities. By restoring the traditional practices of building and cities construction, we wish to gear up the building construction sector for a vibrant and much fresher approach to the built environment, living symbiotically with all the components of the natural environment.

The **12<sup>th</sup> GRIHA Summit** scheduled on **December 15<sup>th</sup> -16<sup>th</sup>, 2020** shall be conducted as a **virtual event** this year and has been themed around “**Rejuvenating Resilient Habitats**”. It aims to serve as a platform to deliberate on innovative technologies and solutions which shall help in creating robust mechanisms for developing sustainable and resilient solutions for the benefit of the entire community.

The year 2020 which was initially thought to be a year to track the progress of Sustainable Development Goals and gear up to make the next decade count has taken a big turn and the entire focus of the world shifted to a pandemic which demonstrated how we have been taking the nature for granted, testing its patience and perseverance and how powerful or impactful it is to make us realize that we are mere players in the hands of the nature.

The world has been witnessing a number of natural calamities like floods, bushfires, droughts, and cyclones. All these calamities question the way we design our habitats which currently demonstrate rampant usage of resources and hold a complete disregard of nature unlike the buildings that used to be designed in the past. Thus, nature has been giving us signals time and again to change the ways of our operation so as to maintain harmony with the environment or else we would be witnessing some irreversible consequences that would not only affect us but our future generations as well.

**Day 1- December 15, 2020 (Tuesday)**

<b>Inaugural Session</b>	1000 - 1030 hrs
<b>Announcement: Arrival of the Hon'ble Vice President of India</b>	
<b>Welcome Speech by Dr. Ajay Mathur, President, GRIHA Council</b>	
<b>Speech by Shri Hardeep Singh Puri, Hon'ble Minister of State (I/C) for Housing &amp; Urban Affairs &amp; Civil Aviation; Hon'ble Minister of State for Commerce &amp; Industry</b>	
<b>Launch of E-Versions of GRIHA Publications: by the Hon'ble Vice President of India</b>	
<ol style="list-style-type: none"><li>1. 30 Stories Beyond Buildings</li><li>2. Shashwat Magazine</li><li>3. Version 2019 Manual, Online Portal and E-Learning Modules</li></ol>	
<b>Address by the Chief Guest Shri M. Venkaiah Naidu, Hon'ble Vice President of India</b>	
<b>Words of thanks by Shri Sanjay Seth, Chief Executive Officer, GRIHA Council</b>	
<b>Announcement: Departure of the Hon'ble Vice President of India</b>	
<b>Session Switch Over</b>	1030 – 1035 hrs
<b>Setting the Theme Session</b>	1035 - 1110 hrs
<b>Introductory Remarks: Dr. Ajay Mathur, President, GRIHA Council</b>	
<b>Special Address: H.E The Hon. Barry O'Farrell AO, High Commissioner to India, Australian High Commission in India</b>	
<b>Special Address: H. E. Mr. Freddy Svane, Ambassador, Royal Danish Embassy in India</b>	
<b>Special Address: Mr. Amit Dasgupta, Strategic Advisor, UNSW India</b>	
<b>Vote of Thanks: Mr. Sanjay Seth, Chief Executive Officer, GRIHA Council</b>	
<b>Session Switch Over</b>	1110 - 1115 hrs
<b>Technical Session I : Sustainable Buildings for Atmanirbhar Bharat</b>	1115 - 1240 hrs

Self-reliance in the building and construction industry is the need of the hour. Now more than ever we are realizing the devastating impacts of unsustainable practices in the construction industry.

While the various financial schemes under Atma Nirbhar Bharat Abhiyan offer more liquidity to building owners and developers, it is that onus on members of the building fraternity to facilitate context driven responses that are locally viable and beneficial to all stakeholders. By looking inwards we can harness the immense knowledge that has traditionally existed in our nation be it in the way we construct or what ‘material’ we use to construct with.

Moreover, the COVID 19 pandemic has shown us the fragility of our systems and the importance of embracing sustainability in construction. Sustainability here not only refers to environmental preservation but also the protection of the disenfranchised workers and support staff. The realty industry being the second largest employer in the nation, offers over 2.5 crore jobs, carries the responsibility of uplifting and protecting their basic human needs and rights. While MoHUA has announced several sub- schemes under PMAY to provide dignified affordable rental housing to migrant workers close to their workplace, the various stakeholders must address this issue at an individual level to truly bring about reform.

This session would deliberate on the need for development of self-reliant buildings in the present scenario and how making the buildings sustainable would contribute in the achievement of the government’s vision of Atmanirbhar Bharat.

**Thematic Speaker & Moderator:**

**Shri Saurabh Kumar**, Executive Vice Chairperson, Energy Efficiency Services Limited (EESL) Group

**Speakers:**

**Ar. Parul Zaveri**, Principal Architect, Abhikram, Ahmedabad

**Mr. Fredrick Royan**, Vice President - Sustainability and Circular Economy, Frost and Sullivan

**Mr. Ben Huskisson**, Managing Director, Gleeds Consulting (India) Pvt. Ltd.

**Q & A**

**Vote of Thanks:**

**Ms. Shabnam Bassi**, Secretary GRIHA Council

<b>A walk through GRIHA’S journey in the year 2019-2020</b>	1240 to 1300 hrs
<b>Presentation on GRIHA Updates 2019-2020</b> <b>Ms. Shabnam Bassi</b> , Secretary GRIHA Council	
<b>Q &amp; A</b>	
<b>Lunch</b>	1300 - 1400 hrs
<b>Technical Session II: Building Smart using Artificial Intelligence (AI)</b>	1400 - 1600 hrs

Construction industry has evolved tremendously in the last few decades and technological advancements have been big contributors in the growth. Adoption of artificial intelligence (AI) in the construction sector has added another dimension to the planning, designing, construction and monitoring of not just building projects but in the development of smart cities as well.

At a time when the world is facing drastic weather phenomena due to climate change, adoption of AI comes as a boon in risk mitigation. The pool of information generated by AI systems such as Building Information Modelling (BIM) provides opportunity to building professionals in deriving solutions to the various challenges posed by artificial systems as well as our ecosystem.

This session is designed to give an overview of the BIM systems that offer intelligent solutions to create smart buildings and cities.

**Speakers:**

BIM for Progressing Buildings and Cities:

**Dr. Amarnath Chegu Badrinath**, Head-BIM Strategy, Larsen & Toubro Construction and Founder & President, India BIM Association

Digital Solutions with Algorithms contributing to Bhubaneswar as Smart City:

**Dr. Teresa Kerber**, Head of Program, Global Program “ICT-based Adaptation to Climate Change in Cities” (ICT-A); Advisory Program “International Smart Cities Network” (ISCN); GloBe - Global Policy, Governance, Cities; Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

**Q & A**

**Vote of Thanks:**

**Mr. Akash Deep**, Senior Manager, GRIHA Council

**Hands on Activity**

**GRIHA REACT Web Application**

GRIHA Council would be releasing a limited edition web application-GRIHA REACT (Resource efficient & Affordable Choice of Technologies). The application features an interactive activity where participants can compete against each other to optimize the resource demand for a virtual apartment. Each participant starts with the same 2 BHK layout and options for lights, fans, air conditioners and other fixtures that reflect the prices and efficiencies of products currently available in the Indian market. Similarly, they would be offered a choice of plumbing fixtures with varying prices and flow rates. The task would involve minimizing the consumption of energy and water using the most efficient fixtures available, while also keeping in mind the associated costs, given that more efficient equipment is usually also more expensive.

**Session on ‘Mindfulness’**

1600 - 1700 hrs

**Major Deepshikha Gupta (Retd.)**, Senior Counsellor, 1to1help

**Q & A**

**Vote of Thanks**

**End of Day 1**

**Day 2: December 16, 2020 (Wednesday)**

<b>Awards Ceremony &amp; Valedictory Session</b>	1030 - 1230 hrs
<p><b>Welcome Remarks:</b> Dr. Ajay Mathur, President, GRIHA Council</p> <p><b>Special Address:</b> Ar. Shri Habeeb Khan, President, Council of Architecture (COA)</p> <p><b>Valedictory Address:</b> Shri Kamran Rizvi (IAS), Additional Secretary, Ministry of Housing and Urban Affairs (MoHUA), Government of India</p> <p><b>GRIHA Rating Awards</b></p> <p><b>GRIHA Exemplary Performance Awards</b></p> <p><b>Signing of Memorandum of Understandings (MoUs between:</b></p> <ol data-bbox="212 725 1430 842" style="list-style-type: none"><li>1. GRIHA Council &amp; Energy Management Centre (EMC), Kerala</li><li>2. GRIHA Council &amp; Confederation of Indian Micro, Small and Medium Enterprises (CIMSME)</li><li>3. GRIHA Council &amp; International Institute for Energy Conservation (IIEC)</li></ol> <p><b>Vote of Thanks:</b> Mr. Sanjay Seth, Chief Executive Officer, GRIHA Council</p>	
<p><b>Conclusion of 12<sup>th</sup> GRIHA Summit</b></p>	