GRIFTENBER 2024
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NFWSIFTENBER 20

Green Rating for Integrated Habitat Assessment





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Message from Mr. Sanjay Seth Vice President & CEO, GRIHA Council



Friends,

Today we stand here in the 'hottest year of the past' making us rethink our actions that will shape the future we will leave behind. The alarming rise in climate-related disasters is becoming more severe with every year. Certainly, these unparalleled destructions caused by intensifying climate change events are becoming rampant, signalling the need for us to reevaluate our strategies and lifestyles.

At the global level, the highly anticipated annual convening of the world leaders at the United Nations Climate Change Conference (UNFCCC COP29) centred around the theme 'In Solidarity for a Green World' is expected to set the stage for the nations and enable action towards limiting global warming, mobilizing climate finance, supporting vulnerable communities, sustainable energy transition and resource efficiency, building resilient infrastructure and communities.

At the regional level, the relevance of inclusivity in advancing sustainability is paramount. In my previous message, I mentioned that in this fiscal year, GRIHA Council will be hosting three GRIHA Regional Conclaves in various cities (Lucknow, Hyderabad, Jaipur) across India along with the annual national 16th GRIHA Summit in New Delhi centred around the overarching theme- "Accelerating Climate Action in the Built Environment". Following the Regional Conclave in Lucknow, we successfully concluded the second GRIHA Regional Conclave in Hyderabad, Telangana on 30th August 2024.

In the youngest state of the Union of States in India, the event was graced by the presence of Shri Duddilla Sridhar Babu, Hon'ble Minister, Ministry of Information Technology, Electronics & Communications; Industries & Commerce and Legislative Affairs, Government of Telangana, Ms Hari Chandana Dasari, IAS, Special Secretary to Government, Roads and Buildings Department, Government of Telangana with other eminent dignitaries. The event was well-received by a diverse group of stakeholders who deliberated on diverse aspects of climate action and sustainability in the built environment. The forum also addressed region-specific challenges and discussed strategies tailored to local climatic conditions and resource availability, ensuring the relevance and effectiveness of the solutions. In the event, GRIHA Council released a publication on-Mindful Impressions- Targeting 2070 Workforce encapsulating the sustainable initiatives undertaken by schools of Navodaya Vidyalaya Samiti in the areas of renewable energy integration, water and waste management, occupant comfort etc. In addition, an online panel on GRIHA for Existing Schools rating variant was launched with the intent to evaluate the school's environmental performance and make the learning experience on sustainability engaging and interactive for students and teachers.

A consultative stakeholder workshop on green buildings and GRIHA rating was organised by the Assam Science, Technology & Environment Council (ASTEC) at

the Assam Secretariat on 12th September 2024. The GRIHA team conducted the workshop with the intent of establishing a dialogue to address the hazards and impacts of unplanned urban development and the need for mitigation interventions at both policy and implementation levels.

GRIHA Council attended the session on "Architecture of the City" during the Buzz 3.0 event organized by the Indian Institute of Architects and D-arch BUILD. The GRIHA team delivered sessions on "Energy Efficient Retrofit of Buildings" in the multi-city workshop being organized by the Bureau of Energy Efficiency (BEE) across India including Chennai, Puducherry, Hyderabad, Guwahati, Gurugram.

GRIHA Council also participated in the workshop on "Building Sector and Net Zero 2070" organized by the Indian Institute of Management (IIM) and the National Investment and Infrastructure Fund (NIIF) at IIM Ahmedabad in August 2024. At the WADE ASIA ArchiDesign Event, GRIHA Council was invited as a jury member for the "Most Sustainable Design" category. It was indeed enlightening to learn that the architectural designs at the competition were innovative encompassing and prioritizing sustainability as the guiding principle.

Enabling action at all levels, GRIHA Council has steadfastly conducted capacity-building trainings and workshops for building professionals and diverse stakeholders. In this quarter, online awareness programmes and trainings were organized on GRIHA, GRIHA for Existing Buildings and GRIHA for Affordable Housing ratings. In addition, GRIHA Council conducted two workshops on Green Buildings and GRIHA ratings for faculty and students at the KLE Technological University, Hubballi, Karnataka, a GRIHA CATALYST member.

In the upcoming quarter, a 2-day Online Training Programme on GRIHA V.2019 will be conducted and a 3-day training programme on GRIHA V.2019 will be conducted in New Delhi from 12-14 December 2024. I invite you all to the upcoming events and encourage everyone to actively participate and share your insights on advancing the vision of building sustainable habitats towards Viksit Bharat @2047 and beyond.

Towards the end, I would like to remind you all to save the dates for the annual 16th GRIHA Summit scheduled on 4th -5th December 2024 at India Habitat Centre, New Delhi. I extend a warm welcome to everyone attending the Summit and look forward to meeting you all at the deliberations centred around- Accelerating Climate Action in Built Environment. Let's rethink our choices and actions to safeguard the planet Earth and move ahead together in creating a sustainable future.

GRIHA v.2019 Professional Examination Calendar 2024-25

GRIHA Certified Professionals (GRIHA CP)		
Month	Date	
October	18.10.2024	
November	22.11.2024	
December	20.12.2024	
January	17.01.2025	

GRIHA Evaluator		
Month	Date	
October	19.10.2024	
February	22.02.2025	





GRIHA Regional Conclave Hyderabad

GRIHA Council hosted its 2nd GRIHA Regional Conclave in Hyderabad, Telangana on 30th August 2024 centered around the theme 'Accelerating Climate Action in the Built Environment'. This was second in the series of conclaves that are planned throughout the year, lining up with the annual GRIHA Summit, all centered around the same theme.



The event was graced by the presence of **Shri. Sridhar Babu Duddilla**, Hon'ble Minister, Information Technology, Electronics & Communications; Industries & Commerce and Legislative Affairs, Government of Telangana. The Hon'ble minister emphasized on the escalated pace of climate change and the need to sensitise ourselves to combat it, to secure the lives of our future generations. He shared about one of the initiatives of the Telangana government - the HYDRA policy – which is to conserve all the natural streams, water bodies and natural streams in the state to counter the problem of flooding, which is inevitably a result of rapid urbanization.

The technical sessions shared enriching insights by experts on the pivotal role that is played by policymakers and implementation of these policies, integration of "smart" in the various aspects of infrastructure development and shifting focus from conventional building materials to low carbon alternatives.

Smt. Harichandana Dasari, IAS, Special Secretary to Government, Roads and Buildings Department, Government of Telangana highlighted that buildings should be designed by borrowing the traditional wisdom and learnings from our rich history, where past structures were built keeping sustainability, and relevance to regional context as core principles.





"Development cannot happen at the cost of the environment. Let us remind ourselves that we are standing in the hottest year of the past, and coldest year of the future. We need to build infrastructure that is in tandem with climate action. GRIHA Council is committed in acting as a catalyst in this journey." said **Shri. Sanjay Seth**, Vice President & Chief Executive Officer, GRIHA Council & Senior Director, Sustainable Infrastructure Programme, The Energy and Resources Institute (TERI).

A publication titled "Mindful Impressions – Targeting 2070 Workforce" was launched at the event showcasing a compilation of the environmental impact of Jawahar Navodaya Vidyalayas (JNVs) campuses across the country. In his address, **Shri. T Gopalakrishna**, Deputy Commissioner, Navodaya Vidyalaya Samiti, Regional Office, Hyderabad, Ministry of Education, Government of India, commended GRIHA Council's initiative to involve the school children of NVS as brand ambassadors to achieve the key goals in sustainability. An online tool on GRIHA for Existing Schools (GRIHA ES) rating was also launched during the event.



GRIHA Council signed two Memorandums of Understanding during the event, one with Bangalore Metro Rail Corporation Limited (BMRCL), represented by Shri. Ashish Kapoor, Chief Architect, BMRCL and one with Vellore Institute of Technology, represented by Dr. Madhumati A, Director, V-SPARC, VIT. The event concluded with a cultural performance to segue into an evening of networking among the attendees.







The Knowledge Partner for the event was Ela Green Buildings & Infrastructure Consultants Pvt. Ltd. and the Event Partner was Asai.

https://www.grihaindia.org/conclave/pdf/Proceedings_Final_GRIHA_Regional_Conclave_Hyderabad.pdf













GRIHA Updates

1.GRIHA Revaluation Policy

As part of the GRIHA rating review process, the GRIHA team conducts two rounds of document reviews. The initial review takes place after the project's first submission, followed by a final site visit. Based on the second submission from the project team, the GRIHA Council either awards or denies the project rating. This policy allows project teams to request a third review of specific criteria, if needed, at an additional fee.

Click here to know more: https://www.grihaindia.org/sites/default/files/pdf/Revaluation_policy for all_GRIHA variants.pdf



2.SHAPE: Sustainable Habitats Associating People with Environment - A **Design Competition**

The registrations for the competition are now open. Link for the same: https://vit.ac.in/zemch2024/GRIHA-designcompetition.html#ZEMCH2024







8th & 9th November 20<mark>24</mark>

ZEMCH 11th Zero Energy Mass 2024 Custom Home International Conference

Empowering Sustainable Design through User- Centered Experience

For More details https://vit.ac.in/zemch2024/ GRIHA Council, School of Architecture (V-SPARC), Vellore Institute of Technology, Vellore and ZEMCH Network are organizing SHAPE (Sustainable Habitats Associating People with Environment) - a design competition for practicing architects inviting entries to showcase their projects under various categories as mentioned below. The contest aims to bring together sustainably designed and executed projects to exhibit and exchange design ideas promoting the association of humans with the environment. Winners will be awarded with a prize money and trophy.

3.Launch of Manual on Good Construction Management Practices

The manual has been crafted to provide extensive guidance on adequate practices for construction activities onsite that not only ensure resource efficiency and the safety and well-being of our workforce, but also safeguard our environment. This manual encapsulates the fundamental aspects such as tree preservation, air and soil protection, water conservation, material and waste management and labour safety.

Refer link: https://www.grihaindia.org/sites/default/files/pdf/GRIHA_Council_Manual_on_Good_Construction_ Management_Practices.pdf



Manual on

GOOD CONSTRUCTION MANAGEMENT PRACTICES



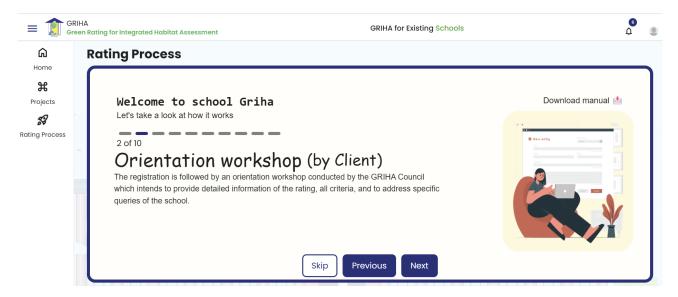




4. Launch of online panel – GRIHA for Existing Schools (GRIHA ES)

To integrate playful learning activities with practical evaluation tools, GRIHA for Existing Schools aims to foster an environment of resource conservation, aligning with national sustainability goals. With this in mind, GRIHA for Existing Schools was developed as a framework to evaluate and rate the environmental performance of existing schools. The rating intends to develop a proactive attitude amongst the students and teachers to reduce their environmental footprint and adopt a greener lifestyle.





To facilitate this process, GRIHA Council is launching a digital panel for the evaluation of the existing schools. The panel is well equipped with calculators that contain pre-fed data, allowing students and teachers to work collaboratively to meet the rating requirements. This panel is specially tailored for student use, incorporating engaging features such as quick tips, educational games, tutorial videos, definitions, and interactive animations. This approach not only makes the evaluation process more interesting but also helps students grasp the concepts of a sustainable school more effectively, enhancing their understanding about sustainability.

6.Launch of booklet – "Mindful Impressions: Targeting 2070 Workforce"



Booklet on the evaluation of 379 Navodaya Vidyalaya Samiti (NVS) schools including 312 PM SHRI schools under GRIHA for Existing School (GRIHA ES) rating variant.

Upcoming Events

Paryavaran Rakshak Programme 3.0

As a prelude to the 16th GRIHA Summit, GRIHA Council is organizing a 'Green Carnival' under its "Paryavaran Rakshak Programme 3.0". The intent of the event is to highlight the vital role of students and individuals in advancing climate action programmes. The programme will provide numerous opportunities to participants to engage and showcase their understanding on the concept of climate action in their unique and innovative ways.

The event will provide participants numerous opportunities to interact and demonstrate their comprehension of the idea of climate action in creative ways. The Green Carnival will feature several activities, such as:

Plogging

The Drama Carnival

Musical Parody

Reel Competition

Model Making Exhibition



Click here for more details: https://www.grihaindia.org/ paryavaran-rakshak-3



Training Programmes

Concluded in the Previous Quarter

1.One-day online training programme on GRIHA V.2019

On May 25, 2024, GRIHA Council successfully hosted an engaging one-day online training programme on GRIHA V.2019, aimed at enhancing participants' understanding of the latest green building rating variant and sustainable construction practices.

The training programme attracted 28 participants from a range of fields, including architecture, civil and environmental engineering, and urban planning.

The programme featured detailed discussions on strategies and calculations pertinent to each criterion.



Participants had the opportunity to engage in interactive sessions where their queries were addressed, ensuring a comprehensive understanding of the subject matter.

2. One-day online training programme focused on GRIHA for Affordable Housing (GRIHA AH)

GRIHA Council hosted a highly informative one-day online training programme focused on GRIHA for Affordable Housing (GRIHA AH) on 27 July 2024. Designed to equip stakeholders with essential knowledge and skills, this intensive session delved into the intricacies of implementing the GRIHA AH rating system, tailored specifically for the affordable housing sector.

GRIHA AH is a specialized green building rating system aimed at enhancing sustainability within affordable housing projects. Aligned with the Pradhan Mantri Awas Yojana (PMAY), GRIHA AH helps low-income households reduce operational costs and greenhouse gas (GHG) emissions by improving resource efficiency. The rating evaluates the environmental performance of residences across their entire life cycle, providing a clear standard for what constitutes a 'green building.' This tool supports cost-effective housing projects while promoting environmental responsibility and occupant well-being.

Training Programme Highlights: The training programme offered a deep dive into the GRIHA AH rating system, featuring:

- Core Principles and Benefits: Participants explored the fundamental principles of GRIHA AH and its demonstrable benefits for affordable housing projects.
- The Six Core Sections: A comprehensive examination of Site Planning, Energy & Occupant Comfort, Water Savings, Waste Management, Sustainable Building Materials, and Social Aspects.
- Earning GRIHA AH Rating: Insights into the mandatory and optional criteria necessary for achieving rating levels from 1-star to 5-star.
- Practical Strategies: Effective methods for integrating



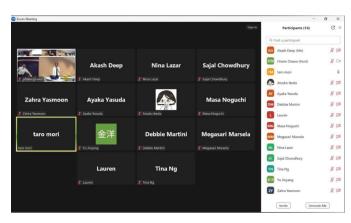
GRIHA AH principles into affordable housing projects.

• The session included informative presentations, interactive discussions, and real-world case studies, providing participants with actionable strategies and a thorough understanding of the GRIHA AH rating system.

3.GRIHA Council at Hokkaido Summer Institute

Hokkaido Summer Institute conducted a training programme on "Improvement of Indoor Environment Quality of Vulnerable People Under Economic Instability".

Mr. Akash Deep, Deputy General Manager and Treasurer, GRIHA Council, delivered a session during the same on "Green Buildings the GRIHA Way - a wholistic evaluation tool". The session covered concepts of green buildings along with the role of the GRIHA rating as a tool for evaluating the impacts



of the sustainability measures adopted in the built environment.

4.GRIHA Council at RE Connect Summit - 24

A panel discussion on "Rooftop Solar Deployment in India: Opportunities and Challenges" was conducted during the 'RE Connect Summit-24', organized by Energetica India Magazine in New Delhi.

Ms. Shabnam Bassi, Deputy CEO & Secretary, GRIHA Council moderated the panel discussion. Discussions were conducted around adoption of central and state-level policies impacting rooftop solar, emphasizing the regulatory framework's role in promoting renewable energy adoption. It covered fiscal incentives, tax benefits, and subsidies available for rooftop solar installations to make solar energy more financially viable for consumers and businesses. The PM Suryaghar Muft Bijli Yojana was also covered, detailing its objectives to provide free electricity to households through rooftop solar



installations, along with eligibility criteria and associated benefits. Market growth projections, current financing options and strategies for mitigating financial risks in rooftop solar projects were also discussed, stressing the importance of innovative financing models and risk management techniques to accelerate adoption.

5.Training Programme at Bengaluru Metro Rail Corporation Limited (BMRCL)

A half-day awareness workshop on GRIHA V2019 was held exclusively for BMRCL officials at their Bangalore office, with around 30 participants in attendance. The workshop began with a comprehensive presentation on the various GRIHA variants and their respective scopes and requirements, leading into an introduction to GRIHA V2019. The session addressed multiple aspects including Sustainable Site Planning, Construction Management, Energy Optimization, Sustainable Building Materials, Water Management, Solid Waste Management, Life Cycle Cost Analysis, Socio-Economic



Strategies, and Performance Metering & Monitoring, providing participants with an in-depth understanding of the rating system.

The program featured interactive sessions and a Q&A segment where participants had the opportunity to raise their questions and concerns. Gaining insight into the GRIHA rating system will undoubtedly assist BMRCL in incorporating these standards into their current and future station projects.



6.GRIHA Council at Buzz 3.0

Ms. Shabnam Bassi, Deputy CEO & Secretary, GRIHA Council was part of the panel discussion "Architecture of the City" at Buzz 3.0.

During her address, she highlighted, "With the growing population and more of our rural population migrating to urban spaces, the stresses on existing resources and housing demands increase in an unplanned manner. This drives the imperative to considering resources optimization and pushing towards self-sufficiency in the infrastructure development of our modern day cities".



7.GRIHA Council at multi-city workshop conducted by Bureau of Energy Efficiency

Bureau of Energy Efficiency is conducting a multi-city workshop across the country on "Energy Efficient Retrofit of Buildings".

Ms. Shabnam Bassi, Deputy CEO & Secretary, GRIHA Council and Director, Sustainable Buildings, TERI, Mr. Akash Deep, Deputy General Manager & Treasurer, GRIHA Council, and Mr. Anupam Buttan, Senior Manager at GRIHA Council conducted workshops at various cities such as, Gurugram, Hyderabad, Guwahati, Dehradun, Puducherry etc.



The sessions covered aspects of how retrofitting of

buildings, according to the different climate zones of India, can help enhance energy efficiency.

8.GRIHA Council at consultative workshop organized by the Assam Science Technology & Environment Council (ASTEC)

A consultative workshop on green buildings and GRIHA rating was organized by the Assam Science Technology & Environment Council (ASTEC), Government Of Assam, India, conducted by GRIHA Council, in collaboration with TERI - The Energy and Resources Institute at the ASSAM SECRETARIAT, Guwahati.



GRIHA Rated Projects



K M Trans Logistics Headquarter Building Jaipur, Rajasthan



Location Site Area **Built up Area** Typology Rating Category

Year of Award

Integrated Design Team **Green Building Consultant** : Jaipur, Rajasthan : 2,513 sqm

: 1,650.92 sqm. : Office building

: SVA GRIHA Final Rating

: Version 2.2 : 2023

: K M Trans Logistics Private Limited : Mr. Atishay Jain, AJ Studios : Eco Energy Expert Services LLP

SVA GRIHA **** 5 STAR The following strategies were adopted by the project team to reduce the building impact on the environment:

Sustainable Site Planning:

- 150 new native trees have been planted on site.
- Buffer zones such as storage rooms and service areas like toilets, staircases, etc. are located along critical orientations like west and east directions.

- 91.73% of the total living area is day-lit.

 LPD of the project is 4.40 W/m², which is lower than the ECBC specified limit of 10.80 W/m² for office buildings. BEE 5-star rated air conditioners and fans have been installed.
- Solar photovoltaic system of capacity 25 kWp has been installed.

Water Management:

- Reduction of 51.97% from the SVA GRIHA base case has been demonstrated
- in building water demand by installing low-flow plumbing fixtures.

 Reduction of 3 2 . 7 4 % from the SVA GRIHA base case has been demonstrated in landscape water demand by using native trees.
- Rainwater storage tank of capacity 24 kL has been constructed on site.

Sustainable Building Materials:

100% of interior paints used in the project are low VOC and lead - free.

- · Most of the basic amenities such as grocery store, ATM, pharmacy,
- restaurant, community centre and park are in close proximity to the site.
 Environmental awareness signage's and sustainabaility features of the project have been displayed at various locations.
- Electric charging point has been provided to encourage the use of electric vehicles and reduce carbon emission.

GRIHA EB

**** 4 STAR

- Dedicated resting spaces and toilets were provided for the service staff people.
- · Vehicular scraps have been used for the interior décor in the project.



New VVIP Circuit House, Kolhapur **Pune Division**



Location : Kolhapur District, Maharashtra Site Area Built up Area : 4,301 sq.m : 1,250 sq.m

Typology Rating Category : Hospitality : GRIHA for Existing Buildings (EB)

Version : 30th April, 2019 Date of Award

Green Building Consultant

: Government of Maharashtra : Public Works Department (PWD), Maharashtra Integrated Design Team

: Energetic Consulting Pvt. Ltd.

The following strategies were adopted by the project team to reduce the impact of the existing building on the environment:

Site Parameters:

- Availability of amenities such as bus stop, bank, restaurant, grocery store and park are within 500 meters of walking distance from the main entrance of the project.
- Preferred parking was provided for electric vehicles.
- Strategies were implemented over 3,449 sq.m. of site area to reduce the Urban Heat Island Effect.

- Replacement of old lighting fixtures with LEDs, installations of efficient fans have reduced the annual energy consumption from 41,249 kWh/year to 19,233 kWh/year demonstrating a reduction of 53.37% from the GRIHA base case.
- Solar photovoltaic system of 4 kWp was proposed to generate 6,393 kWh of renewable energy.

Water Efficiency:

Building water consumption was reduced from 794.1 kiloliters/year to 639.43 kiloliters/year demonstrating a reduction of 19.5% from the total water

Human Health and Comfort:

Indoor comfort conditions measured in summer months: Dry bulb temperature= 24 - 27°C, Relative humidity= 57% - 86%, Daylight levels= 320 – 475 lux and Indoor noise levels: 39 – 40 dB; were compliant with benchmarks of the Indian Model for Adaptive comfort, SP 41 and NBC 2005.

> Total energy offset Total reduction in by renewables building water demand = 32.7% = 19.5%

TOTAL CARBON OFFSET BY THE PROJECT:

By planting native saplings & preserving existing trees: 0.44 ton/year By conservation of conventional energy: 30.83 ton/year



New Products Added in the **GRIHA Product Catalogue**



Company Name

Accurate Infra Industries
Pvt Ltd

Typology

Fly-ash bricks/AAC Blocks



Company Name

JB BLOCKTECH

Typology

Fly-ash bricks/AAC Blocks



Company Name

Geeken Seating
Collection Pvt Ltd.

Typology

Innovation -Environmental Product Declaration



Company Name

Magicrete Building Solutions

Typology

Fly-ash bricks/AAC Blocks

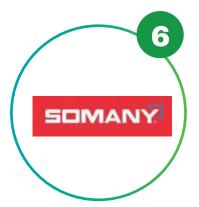


Company Name

Jaquar & Company Pvt. Ltd.

Typology

Low flow fixtures



Company Name

Somany Ceramics Limited

Typology

Adhesives

For detailed list of enlisted products, refer: https://www.grihaindia.org/products-catalogue

Editor's Choice

To survive killer heat'

Climate change is upon us and its escalating impacts are manifesting in the form of unprecedented heat waves sweeping across the globe. Following record-breaking global temperatures in 2023, India, once again, grappled with severe heatwaves, with the India Meteorological Department having forecasted an unusually high number of heatwave days from April to June. Recently, northern India's resilience was put to the test as temperatures soared above 46 degrees Celsius.

The built environment, comprising the infrastructure and the spaces where people live, work and interact, is particularly vulnerable. From triggering public health emergencies to disrupting food supply chains, lowering productivity and declining our quality of life, the ramifications of these extreme heat events are farreaching and severe. Rapid urbanisation exacerbates the issue through the urban heat island effect – a phenomenon characterised by fewer green spaces, high population density, limited access to cooling, and dense building concentration – that renders urban areas significantly warmer than their rural counterparts. It becomes crucial to take urgent action to address these vulnerabilities by mitigating the causes of the warmer climate and by adapting to the impacts of climate change.

Read More:

https://www.telegraphindia.com/opinion/to-survive-killer-heat-parallel-efforts-must-re-evaluate-our-construction-materials-and-techniques/cid/2039976

2.How cities can beat the heat with passive design

The monsoon has brought much-needed relief from a scorching summer, in which the national Capital saw temperatures pushing 50 degrees Celsius. The India Meteorological Department (IMD) had issued red alerts for heatwaves in several states, and cities were panting for cooling solutions. While the clamour for air conditioning units grows louder, an impactful approach to combating such heat exists, rooted in scientific understanding and sustainable principles — passive desian.

Marketed as an easy fix, air conditioning systems mask deeper issues like power cuts and global warming. Rising temperatures and reliance on air conditioners (ACs) strain the grid, leading to breakdowns, higher peak loads, and increased fossil fuel demand. This heightens heat exposure risks when passive alternatives aren't used. Additionally, ACs exacerbate the urban heat island effect by transferring indoor heat outdoors, making concrete areas hotter than green spaces and compromising thermal comfort for those without them. Integrating passive features into buildings decreases reliance on energy-intensive cooling systems, lowers carbon footprints, reduces electricity bills, and addresses climate change by minimising peak loads on air conditioning systems.

Read More:

https://www.hindustantimes.com/opinion/ how-cities-can-beat-the-heat-with-passivedesian-101720107852178.html

3. BMRCL signs MoU for green building certification for metro stations

According to a statement from the Bangalore Metro Rail Corporation Limited (BMRCL), the MoU was signed by its Chief Architect Ashish Kapoor and GRIHA Council's CEO and Vice-President Sanjay Seth. D Radhakrishna Reddy, Director (Project & Planning), BMRCL; Abhai Kumar Rai, Advisor (Civil), BMRCL; and Shabnam Bassi, Deputy Chief Executive Officer, GRIHA Council, were also present on the occasion.

The MoU will facilitate further adoption of green building practices during construction, operation and maintenance of metro lines in Bengaluru and obtaining green building certification for metro stations.

Part of the Ministry of New and Renewable Energy, the GRIHA Council was established to promote the construction of environmentally responsible and resource-efficient building through the GRIHA green-building rating system, the statement added.

Read More

https://www.deccanherald.com/india/karnataka/bengaluru/bmrcl-signs-mou-for-green-building-certification-for-metro-stations-3171504



GRIHA Council in News









• జీరో కార్ఫన్ నగరంగా హృచర్ సిటీ: మంత్రి త్రీధర్ బాబు

హైదరాబాద్, ఆగను 30(ఆంధ్రజ్మాతి): భక్కలి భసాదించిన సహజ వనరులను రక్షించుకోలేక పోకే ఆది పర్యావరణ విధ్యంసానికి దారి తీస్తుందని మంత్రి దుద్దిళ్ల శ్రీధర్ బాబు అన్నారు. నదులు, వెరువులు, వాగులు, అరవులు పతిరీ మానవాళి మనుగడుకు అవనరమేనని పేర్కొన్నారు. 'గృహ' అనే పర్శావరణ సంస్థ తుక్రవారం ఇక్కద నిర్వహించిన నదన్నులో



సహజ వనరుల ఫనరుద్దరణ కోసమే హైద్రా : మంత్రి శ్రీధర్ బాబు



ఈ ఆ ఆ ఆ శాత్రం ప్రభాణ ప్రభాణ ప్రామంతి కాట్లా ప్రభాణ ప్రశాణ ప్రభాణ ప్రశాణ ప్రభాణ ప్రశాణ ప్రభాణ ప్రశాణ ప్రశాణ ప్రభాణ ప్రశాణ ప్రభాణ ప్రశాణ ప్రశాణ ప్రశాణ ప్రశాణ ప్రశాణ ప్రభాణ ప్రశాణ ప్

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రాష్ట్రపడులు ఎర్నాటు నేమువోమ్ ఫ్యాంక్ సీటీ అర్మాముక విర్యాండలతో కార్కన్ లోపిం (టీరో కార్కన్) మగులుగా చాలించుకుంటని న్యామించాను. ప్రాంక్ కేటీ గుర్మాకానికి పొంటేతక మహిళలు అంటించారు. మరిఖున్నా మగులుగులనికి కోరమాన్నాడు. ఈ 28 ఆమోగాల కృష్ణికి ప్రత్యేక ఆమ్మేషిత్ తోర్వుముందని. ఏర్పిపించారు. మిగుకుంటే మిట్లో కైట్ ఫోకెక్స్ మైశ్వర్ రాహిశ్వ ఫిస్టి సింబంటోనీ సీస్ మరిణా మనీ సార్వాను.



TG : కార్బన్ రహితంగా ఫ్యూచర్ సిటీ నిర్మాణం : మండ్రి శ్రీధర్ బాబు



సహజ వనరులను రక్షించుకోకోతే పర్యావరణ వీద్యంసానికి దారి తీస్తుందని ఐటీ శాఖ మంత్రి దుధిళ్ల (శీధర్ బాబు హెచ్చరించారు. నదులు, చెరువులు, వాగులు, అడవులు మానవాళి మనుగడకు అవసరమైనదోనన్నారు. శుక్రవారం బంజారాహిల్ప్ లో జరిగిన గ్రాహ పర్యావరణ సంస్థ నిర్వహించిన సదస్సులో ఆయన మాట్లాడారు. చెరువులు వర్షపు నీటి నాలాలు కభాకు గురికాకుండా అడ్మకునోందుకే సీఎం రేవంతో హైడ్రాను ఏర్పాటు చేశారన్నారు. నాలాలు, చౌరువులు ఆక్రమణలకు గురికావడం వెల్ల వెరద నీటి ముంపు సమస్య తలెత్తుతోందని (శీధర్ బాబు తెలిపారు. రాష్ట్ర సమత్యం ఏర్పాటు చేయబోయే హ్యాచర్ సీటీ. లేపెస్ట్ కుక్కాలజీతో కార్మన్ రహితంగా ఉంటుందన్నారు.హ్యాచర్ సీటీ నిర్మాణానికి శుక్తికల్ హెల్స్ అందించాలని మహీంద్రా **න**්වාණිව ජීලාమව ලිදුරි හැඟ **ම**ව්නරා.











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