

E-Newsletter-Vol - XXXI

LIGHT HOUSE PROJECTS

August 31, 2023, New Delhi



MoHUA & CREDAI host conference on 'Adoption of New and Emerging Building Materials and Technologies in Construction Industry' in New Delhi

The Ministry of Housing and Urban Affairs (MoHUA) in association with Confederation of Real Estate Developers Association of India (CREDAI) hosted a one-day conference on "Adoption of New and Emerging Building Materials and Technologies in Construction Industry" at Vigyan Bhawan, New Delhi on 25th August 2023. The event was inaugurated by Shri Hardeep Singh Puri, Hon'ble Minister for Housing and Urban Affairs & Petroleum and Natural Gas, in the presence of Shri Kaushal Kishore, Hon'ble Minister of State for Housing and Urban Affairs, Shri Manoj Joshi, Secretary, MoHUA and other big-wigs from the real estate and housing sector.

The conference brought together real estate developers, subject matter experts, urban practitioners and stakeholders from various sectors of the construction industry for cross learning and sharing of ideas for adoption and mainstreaming of innovative construction technologies, materials and processes.



In his keynote address, Hon'ble Minister for Housing and Urban Affairs, spoke about how the Ministry has adopted several innovative technologies under different housing projects and shared about the concept of Global Housing Technology Challenge-India (GHTC-I) and the vision behind it which led to initiative of Light House Projects (LHPs).

"The Government has laid down the roadmap for the construction industry and this conference has brought together some of the finest minds in construction technology and the Indian Real Estate industry. It is imperative we find feasible ways to increase the adoption of emerging materials and technologies in the construction industry and I am confident that the deliberations of this conference will be beneficial for reforming the future discourses in this regard," the Hon'ble Minister said.

Hon'ble Minister of State (MoS) for Housing and Urban Affairs shared that a conference like this will help in fulfilling the increasing housing demand by adopting these techniques.



In his address, Shri Manoj Joshi, Secretary, MoHUA, said that the event will help in mainstreaming the best available construction



technologies across the country and enable people to know about their use.

The event aimed to raise awareness on emerging and sustainable building materials and construction technologies among a wide range of stakeholders which would ensure a more sustainable future.



An exclusive session on Light House Projects (LHPs) was also part of the conference. Shri Kuldeep Narayan, Joint Secretary & Mission Director (JS&MD), Housing For All (HFA) led this session, wherein he shared a presentation on 'Technology Transition through Light House Projects'. Construction agency officials of six LHPs, namely Chennai, Rajkot, Indore, Lucknow, Ranchi and Agartala also shared their experience of constructing the projects across the country.

The conference on "Adoption of New and Emerging Building Materials and Technologies in Construction Industry" saw a huge footfall of developers and other stakeholders who engaged in insightful discussions and shared innovative ideas and explored the latest trends in adoption of new and emerging building materials and technologies.





Message from JS&MD (HFA) Shri Kuldip Narayan

Dear readers, you must have by now come to know about the conference that was held by the Ministry this month which brought together some stalwarts from the real estate & housing sector under one roof to deliberate & discuss about future of construction & real estate sectors and the role of innovative technologies & sustainable materials in these sectors. I'd like to call it an exclusive event since some of the big names of the real estate & housing sector attended the conference & shared their ideas & suggestions among relevant stakeholders. The conference was held as part of the Government's dedicated and sustained efforts in the past few years to raise awareness on emerging and sustainable development methods & I am hopeful that the strategic intervention will ensure a more sustainable future for Indian real estate & housing sector.

We had a busy August with back-to-back conference, webinars & meetings – each of which was held to ensure the use of new emerging & innovative technologies in construction practices. I am elated to share with you all that we have launched the third edition of 'e-Learning sessions on innovative techniques in new age construction' & stakeholders are coming in large numbers to attend the webinar which focus largely on LHPs. International experts have also joined in this time to present their views.

Since the launch of LHPs in 2021, the Ministry is promoting the projects as Live Laboratories for learning & knowledge sharing about technologies for its further replication & these webinars will add fillip to the idea.

We are, meanwhile, prepping up for inauguration of LHP Indore & several rounds of meetings are being taken to monitor the progress.

It's been an eventful month & let us all work closely & with utmost dedication in achieving each our goals of Housing for All.



On 23rd August 2023, a meeting was held between Shri Manoj Joshi, Secretary, MoHUA and Shri Sukhdev Singh, Chief Secretary, Government of Jharkhand to discuss about the progress made at the LHP Ranchi. The meeting was also attended by senior officials of the Ministry and Jharkhand Government.

JS&MD, HFA chairs PMC meeting to review progress of LHPs



The 17th meeting of Project Monitoring Committee (PMC) was held on 24th August 2023 under the chairmanship of Shri Kuldip Narayan, JS&MD, HFA during which he reviewed the progress of Light House Projects at Indore, Lucknow, Ranchi and Agartala in detail. Shri RK Gautam, Director, HFA, senior officials from the Ministry, officials from the various State Governments, officials of BMTPC, officials associated with the LHP construction agencies also attended the meeting.

Progress of each LHP site was shared before JS&MD, HFA through a presentation, along with photos and graph highlighting the work done. LHP Indore, LHP Lucknow and LHP Ranchi are nearing completion while LHP Agartala is in advanced stage of construction.

JS&MD, HFA discussed about the work plan and emphasised on regular and timely supply of materials and deployment of additional manpower to complete the projects in all respect within the stipulated time frame.

LHP Indore and LHP Lucknow are the next projects to be inaugurated. Meetings to review the preparedness on sites for inauguration purposes is being done constantly at different levels by the Ministry at regular intervals.

Introduction to 'e-Learning Sessions on Innovative Techniques in New age Construction'

To promote future potential technologies through incubation support and accelerator workshops and to foster an environment of research and development in the country, MoHUA has planned multiple volumes of 'e-Learning sessions on innovative techniques in new age construction' to widespread the knowledge about the LHP technology, construction process, sustainability and mass-cum-fast construction to Technograhis and other stakeholders. Under this initiative of the Ministry, two volumes of the webinar, with a total of 12 sessions, were held in 2022 to showcase the LHP technology and educate Technograhi with these new age construction processes. In the month of August 2023, MoHUA launched Volume #3 of these webinars in collaboration with BMTPC on the theme 'International Perspective Innovative Technologies and Practices in LHPs'.

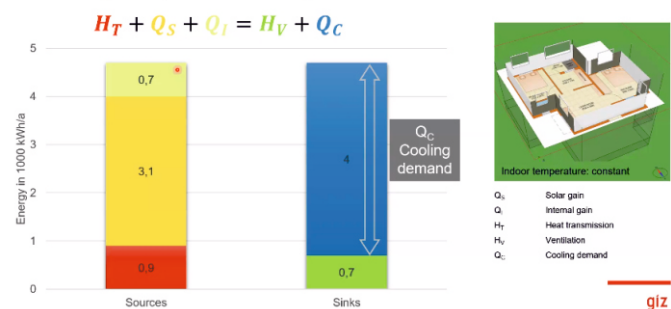


In August, two webinars were held with focus on the already inaugurated LHP Rajkot and LHP Chennai. The sessions create awareness on the different technologies used in the construction of LHPs through technical sessions and the use and adaption of new technologies to enhance thermal comfort in affordable housing. International experts from Fraunhofer IBP, Germany have been invited to share an international perspective on these innovative technologies and focus on the use and adaption of technologies, materials and processes in the construction sector.

The platform aims to make participants witness the significant



Balancing Example – Actual Design



technology movement that will usher the world's best innovative construction technologies to get adapted, mainstreamed and scaled up in the wake of a self-reliant India addressing the need of Housing for All.

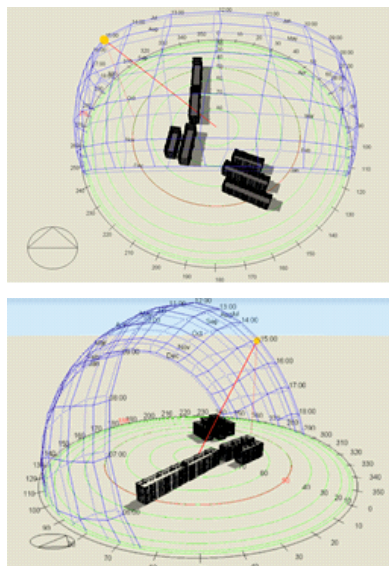
The stakeholders include faculty and research students, technical professionals, Central/States/ULB officials, construction agencies, builders/developers, start-ups/entrepreneurs/innovators who have enrolled themselves as Technograhis as well as other concerned stakeholders including Public/Private entities and other practitioners.

Climate Smart Buildings Programme activities for August 2023

A step towards eco-friendly living: Unravelling thermal comfort solutions through simulations

Climate Smart Building (CSB) Cell of GIZ has undertaken the thermal comfort simulation assessment of LHP Agartala. The objective of this simulation was to meticulously analyse and optimise the thermal comfort levels within the building, ensuring an environment that fosters well-being and productivity for its future occupants. The simulation offered valuable data on the building's energy efficiency. Based on which, assessment will be carried out on LHP Agartala, a live laboratory, on the performance of various passive measures which has been supporting extensively in making LHP Agartala a thermally comfortable housing complex. In an initial assessment, it has been assessed that LHP Agartala's design has well integrated features which ensure natural ventilation in the complex extensively and enhance thermal comfort inside the building.

Highlights of the study encompass the impact of building orientation on sun exposure, the effectiveness of shading mechanisms, the role of well-positioned windows and



ventilation systems, benefits from improved insulation and the integration of Energy Conservation Measures (ECM). The study's comprehensive findings guide holistic design strategies for thermal comfort, offering essential decision-making support for future construction projects.

Fostering construction site safety: Essential training to teams working LHP sites

Safety trainings were conducted by contractors at LHP Agartala on 18th August 2023 and LHP Ranchi on 20th August 2023, with support from the CSB cell teams. The trainings helped foster vital safety awareness among supervisors, labourers and other workers. The sessions provided a platform which stressed on stringent safety adherence, covering topics from optimal PPE usage to hazard identification and emergency response. The workers learnt the importance of prioritising life over haste, making safety central to construction activities. By fostering an open and interactive environment, this session aimed to empower laborers and supervisors alike with the knowledge and tools needed to maintain a safe work environment, thus upholding the highest standards of safety at the construction site.



Safety training at LHP Ranchi



Safety training at LHP Agartala

Welcome to Light House Project Indore

Between 11th August to 15th August 2023, Awas Mela was organised at Light House Project Indore, for allotment of flats to eligible beneficiaries. Like always, the Awas Mela witnessed an enthusiastic response from home buyers who were welcomed at the project site. The affordable rate at which flats at LHP Indore is being sold is attracting people to purchase flats here, apart from other facts such as the prime location, the service and infrastructure facilities offered, the technology used for construction purposes among others.

Most importantly, differently-abled people have been allotted flats at the first floor to provide ease of living for such beneficiaries. The allotment process is ongoing for the 1,024 housing units of LHP Indore.



Voice of people

The Light House Projects are reshaping the lives of families by empowering them with the ownership of dignified homes. This transformation not only elevates their status but also fosters newfound confidence and independence. Also, for beneficiaries who once struggled in kutcha or rented houses, the flats at Light House Projects symbolise liberation. The housing projects offer a brighter future and improved quality of life. It redefines thriving and resilience, creating stories of transformation.

“मैंने किराये के मकान में ही अपना आज तक का जीवन बिता दिया। कभी मेरा भी परिवार अपने खुद के घर में रहे, ऐसा एक सपना ही रहा। आज प्रधानमंत्री आवास योजना – शहरी के माध्यम से, सरकार की ओर से हम गरीब लोगों को इस योजना का लाभ दिया गया और मेरा जीवन का सपना सत्य हुआ है।”

- उमेश चंद्र यादव, लाइट हाउस प्रोजेक्ट लखनऊ के लाभार्थी



“लाइट हाउस प्रोजेक्ट, लखनऊ के निम्नवर्गीय लोगों के लिए एक उम्मीद का प्रतीक है। यह दिखाता है कि हमारी सरकार सभी नागरिकों को किफ़ायती आवास प्रदान करने के लिए प्रतिबद्ध है।”

- मोहम्मद सलीम, लाइट हाउस प्रोजेक्ट लखनऊ के लाभार्थी

“I am thankful to the government for this housing scheme. This home is a cherished dream come true, offering a new beginning for my family.”

- Utthan Bhattacharjee, Beneficiary of LHP Agartala



PROGRESS OF LIGHT HOUSE PROJECTS AS ON AUGUST 31, 2023

INDORE, Madhya Pradesh

Technology Name: **Prefabricated Sandwich Panel System**



No. of Dwelling Units : **1024 Nos. (S+8)**
 No. of Block / Tower : **8 Blocks**
 Units in each Block / Tower : **128 Nos.**

Activities	Progress
Superstructure	
PEB Work	72 out of 72 Floors completed in 8 blocks
Slab Work	72 out of 72 Floors completed in 8 blocks
EPS Panel work in Wall	64 out of 64 Floors completed in 8 blocks
Finishing Work	1 to 7 blocks completed and 8 th nearing completion
Infrastructure Work	Community Centre, Road work, underground tank, STP & Sewer line and boundary wall works completed.



LUCKNOW, Uttar Pradesh

Technology Name: **PVC Stay in Place Formwork System**



No. of Dwelling Units : **1040 Nos. (S+13)**
 No. of Block / Tower : **4 Blocks**
 Units in each Block / Tower : **A(494), B(130), C(208) & D(208)**

Activities	Progress
Superstructure work of Building Blocks	
Pre-Engineered Steel Building (PEB) Work	<ul style="list-style-type: none"> Block A1 (Part of Block A), Block B, C & D - Completed Blocks (A2)- In progress up to 13th floor
SIP Wall Form work	<ul style="list-style-type: none"> Block A1, Block B, C & D - Completed all 754 DUs Blocks (A2)- Completed upto 9th Floor & in Progress at 10th floor level. Completed 202 DUs out of 286 DUs.
Shear Wall Work (Staircase & Lift well)	<ul style="list-style-type: none"> Block A1, Block B, C & D - Completed Blocks (A2)- In progress up to 13th floor level
Social Infrastructure	Community Centre & Commercial block are completed.
Infrastructure Work	<ul style="list-style-type: none"> UG Water Tank, STP - Civil work completed Rain water harvesting Pits- Completed Road Work, Electric Substation, Gardening & Electrical Pole – Work in Progress Boundary wall, Main Gate & Exit Gate – completed



PROGRESS OF LIGHT HOUSE PROJECTS AS ON AUGUST 31, 2023

RANCHI, Jharkhand

Technology Name: **Precast Concrete Construction – 3D Volumetric Construction**



No. of Dwelling Units : **1008 Nos. (G+8)**
 No. of Block / Tower : **7 Blocks**
 Units in each Block / Tower : **144 Nos.**

Activities	Progress
Casting Yard (Production of Components)	All 10,784 number of Modules/ different components have been completed
Foundation work	The Raft & Grade slabs of all 7 building blocks have been completed.
Superstructure	Block wise status of erection of Modules / building components ; All 7 blocks completed
Infrastructure work	<ul style="list-style-type: none"> • Pre-cast boundary wall - About 56% of total length completed. • STP & UG Water Tank – All civil work is near completion

AGARTALA, Tripura

Technology Name: **Light Gauge Steel Structural System & Pre-Engineered Steel Structural System**



No. of Dwelling Units : **1000 Nos. (G+6)**
 No. of Block / Tower : **7 Blocks**
 Units in each Block / Tower : **A(111), B(152), C(125), D(167), E(167), F(167) & G(111)**

Activities	Progress
Foundation (Dwelling Units)	
Pile Work and Pile head breaking	Completed in all 7 Blocks
PCC for foundation	Completed in all 7 Blocks
Raft Foundation	A,B,C, E, F & G Block completed and D - Block is in progress.
Plinth Beam & Pedestal Column Casting	A, C, E, F & G Block completed and B Block is in progress.
Superstructure	A, C, E, F & G - Blocks are in progress.
Infrastructure Work	Boundary wall work and foundation of social infrastructure work is in progress.





Media Coverage

ET THE ECONOMIC TIMES
 'Cities will Account for more than 70% of GDP by 2030'

MORNING TIMES
 Serving the Twin Town since 1991

Need to find ways to boost adoption of modern construction tech: Minister

राष्ट्रीय
सहारा

निर्माण क्षेत्र में आधुनिक प्रौद्योगिकी अपनाना : पुरी

DH
 DECCAN HERALD

Urban Affairs Minister Hardeep Singh Puri calls for adoption of modern technology in construction industry

पौर
 पत्र सूचना कार्यालय

"Sustainability and climate resilience must be embedded across the lifecycle of built environment." ~Shri Hardeep S. Puri

"Urgent need to decarbonise the built environment" ~Shri Hardeep S. Puri

Conference on Adoption of New and Emerging Building Materials and Technologies in Construction Industry Inaugurated

ET Realty.com
 From The Economic Times

Need to find feasible ways to boost adoption of modern technologies in construction: Housing minister

Business Standard

Need to find ways to boost adoption of modern construction tech: Minister

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 READ INDIA RIGHT

Union Minister Hardeep Singh Puri Stresses On Adopting Innovative Tech For Urban Planning And Construction

mint

Hardeep Singh Puri stresses on urban planning through innovative tech

PTI

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Need to find feasible ways to boost adoption of modern technologies in construction: Puri

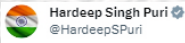
THE ECONOMIC TIMES

Cities will be responsible for more than 70% of the country's GDP by 2030, says Housing Minister, Hardeep Singh Puri

APN NEWS

"Hon'ble Minister for Housing & Urban Affairs inaugurates conference on 'Adoption of New and Emerging Building Materials and Technologies in Construction Industry' in association with CREDAI"

Social Media Corner



Hardeep Singh Puri
@HardeepSPuri

Participated in the conference on "Adoption of New & Emerging Building Materials & Technologies in Construction Industry" which brought together the stakeholders of construction & real estate industries engaged in giving transforming India's urban landscape.



Manoj Joshi
@Secretary_MoHUA

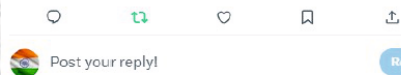
माननीय प्रधानमंत्री @narendramodii जी के नेतृत्व में देश में PMAY लाइट हाउस प्रोजेक्ट्स में भवन निर्माण में नई तकनीकों का इस्तेमाल किया जा रहा है।

Translate post



10:43 AM · Aug 26, 2023 · 1,508 Views

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Manoj Joshi @Secretary_MoHUA · Aug 26

इसी काम में @MoHUA India द्वारा सरकारी इमारतों के निर्माण में नई टेक्नोलॉजी के इस्तेमाल पर बल दिया जा रहा है। जिससे प्रकृतिक संसाधनों को भी नुकसान न पहुंचे व कम समय में इमारतों को बनाया जा सके।

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