

E-Newsletter-Vol - XII

LIGHT HOUSE PROJECTS

January 20, 2022, New Delhi

“For now, work on Light House Projects is on at a fast pace at 6 different locations in the country. Modern technology and innovative methods are used in these Light House Projects. This reduces the duration of construction. Along with that, the houses that are constructed are more durable, economical and comfortable.”

- Hon'ble Prime Minister



Hon'ble Chief Ministers of Tripura & Gujarat visited Light House Project sites at Agartala and Rajkot



Hon'ble Chief Minister of Tripura visits LHP Agartala site



Hon'ble Chief Minister of Gujarat visits LHP Rajkot site

Hon'ble Chief Minister of Tripura Shri Biplab Kumar Deb and Hon'ble Chief Minister of Gujarat Shri Bhupendra Patel visited Light House Project sites in Agartala and Rajkot on 22nd December 2021 and 31st December 2021, respectively. The Hon'ble Chief Ministers were apprised by the construction agencies about the progress of respective projects and the efforts being undertaken to speed up the construction activities at the sites.

The project in Agartala comprises of 1,000 flats. Light Gauge Steel Framed (LGSF) System with Pre-engineered Steel Structural System, a technology from New Zealand which can withstand major earthquake risk, has been adopted in Agartala for construction process. "Visited Light House Project of 1,000 Units being built at Akhaura Road. Took note of the developmental work and asked the officials to expedite working of the project. 1,000 EWS families will get a home after the successful completion of this project," Hon'ble Chief Minister of Tripura tweeted while sharing glimpses of his visit. He also urged students, engineers and other stakeholders to come forward and gain experience in learning about the use of globally innovative technologies.

In Rajkot, 'Monolithic Concrete Construction using Tunnel Formwork', an already established technology in France, has been adopted for construction of 1,144 houses. This technology fast-tracks construction process, is resource-efficient, disaster-resilient and ensures durability. Hon'ble Chief Minister toured the site and was briefed about the work done so far, the progress made and other details by the technology providers and construction agency officials.



Technograhis at LHP site in Lucknow

Apart from Agartala and Rajkot, Chennai (Tamil Nadu), Indore (Madhya Pradesh), Lucknow (Uttar Pradesh) and Ranchi (Jharkhand) are the other locations where LHPs are under construction. The technologies were selected through a global challenge process under Global Housing Technology Challenge-India (GHTC-India) in 2019. The foundation stones of LHPs were laid by Hon'ble Prime Minister Shri Narendra Modi on 1st January 2021.

Regular training sessions are being organised at all the LHP sites for Technograhis for knowledge dissemination, promoting cross-learning and mainstreaming global innovative technologies used for construction of the project. Students, faculty of engineering, other colleges, private/public sectors professionals and other concerned stakeholders are getting trained at LHP sites about new and innovative technologies through on-site or off-site training programmes.

Meanwhile, students from National Institute of Technology, Agartala, are doing internship at the LHP site to learn about globally innovative construction technologies, their use & how they can be further replicated in Indian context. Large scale participation of Technograhis, including students & other stakeholders, is being encouraged across the LHP locations to create technical awareness.



Technograhis at LHP site in Agartala

Team members from Project Monitoring Unit (PMU) of HFA Directorate are also making regular visits to the LHP sites to monitor the progress. Recently, a team visited LHP site in Indore and witnessed the construction process at site.



Message from JS&MD (HFA) Shri Kuldip Narayan

First, I would like to begin by wishing everyone a very Happy New Year 2022! I'll take this opportunity to extend my gratitude to every person associated with Pradhan Mantri Awas Yojana (Urban) for their support in taking the Mission to new heights.

The journey of PMAY(U) has been of challenges, milestones, emotions and of empowerment. For our Mission, the year 2021 was full of achievements - the highlight was laying of foundation stone of Light House Projects by Hon'ble Prime Minister at six locations across the country. Work is undergoing at a rapid pace at the sites and along with construction activities, we are also promoting these LHPs as live laboratories for transfer of technology to the field.

Huge participation on our Technograhi module is being witnessed by students, engineers, urban planners and other stakeholders so much so that the sites are also being used as training centres for internship. Learning the use of such technologies by Technograhis will definitely boost the building construction sector in the long run.

The Technograhis are being taught in batches about use of globally identified and innovative technologies at the LHP sites and also through our E-module which is available on GHTC-India website.

I would like to conclude by saying that with LHPs, the Mission is fulfilling housing dreams of people with a touch of new and innovative technologies.

Let us keep doing the commendable job towards achieving the 'Housing for All' goal! My best wishes to each one of you associated with PMAY(U) - the largest urban housing programme of India.



Shri Manoj Joshi takes charge as Secretary, Ministry of Housing and Urban Affairs

Shri Manoj Joshi, a 1989-batch IAS officer from Kerala cadre, took charge as Secretary of Ministry of Housing & Urban Affairs (MoHUA), on 31st December 2021. Shri Joshi had done B.E. (Mechanical) and originally hails from Rajasthan.

Prior to his appointment as Secretary, Shri Joshi was working as Special Secretary in the Ministry of Food Processing Industries. Shri Joshi also served as Principal Secretary in the finance department, Government of Kerala. He also held the post of Joint Secretary (M/o Micro, Small & Medium Enterprises), Joint Secretary (M/o Finance) and Joint Secretary (M/o Personnel, Public Grievances and Pensions) on central deputation.

During the period 2004-2008, Shri Joshi was posted in Washington DC, USA, where he served as counsellor (M/o Commerce & Industry) in the Embassy of India.

LHP Review, Compendium launch in 57th CSMC meeting on 23rd December 2021



Secretary, MoHUA chairs 57th CSMC Meeting under PMAY(U)

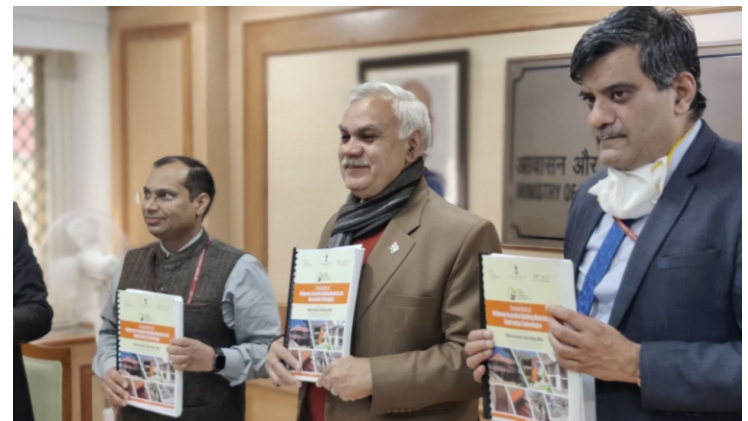
Shri Durga Shanker Mishra, former Secretary, MoHUA, reviewed the progress of LHPs at the six locations during the 57th Central Sanctioning and Monitoring Committee (CSMC) meeting under Pradhan Mantri Awas Yojana (Urban) held on 23rd December 2021 in New Delhi. A brief snapshot of the progress made at the LHP sites was presented before the Committee after which the Secretary directed the construction agencies, other officials from concerned State Governments to complete the construction work within the stipulated time period.

He further added that the LHP states should utilise and propagate the technologies by increasing training sessions on sites and encourage students, professionals and other stakeholders to enrol as Technograhis so that more people could learn the use of these technologies.

During the CSMC, a Compendium on Indigenous Innovative Building Materials and Construction Technologies was also released by Secretary, MoHUA. The Compendium provides details about 84 technologies showcased during Indian Housing Technology Mela (IHTM) in Lucknow from 5th to 7th October 2021, which was inaugurated by the Hon'ble Prime Minister. The objective of the Mela was to provide a platform for indigenous and innovative building materials, components, tools &

equipment, construction processes and technologies that are sustainable and suitable for construction of low and medium rise (upto G+3 storey) houses for demonstration, cross learning, enabling better adoption, market linkages and achieving desired scale.

The Compendium provides various details such as technology brief, salient features, economic aspects, sustainability aspects, suitability &



Launch of Compendium on Indigenous Innovative Building Materials and Construction Technologies

availability, limitations, market linkages, certifications/ endorsement, its application in real projects in India and also provides contact details of technology providers.

Compendium will serve as a useful resource for further learning & adoption of new and cost effective technologies in building projects being undertaken by the State Governments. This compendium will be helpful to policy makers, public & private construction agencies and other concerned stakeholders for its adoption in their future housing projects.

The Compendium can be downloaded from GHTC-India website <https://ghtc-india.gov.in>

PROGRESS OF LIGHT HOUSE PROJECTS AS ON JANUARY 20, 2022

CHENNAI, Tamil Nadu

Technology Name: **Precast Concrete Construction System-Precast Components**



No. of Dwelling Units : **1152 Nos. (G+5)**
 No. of Block / Tower : **12 Blocks**
 Units in each Block / Tower : **96 Nos.**

Activities	Progress
Superstructure Work	Completed in 12 blocks
Sample Unit	Completed
Internal Building work	Around 85% completed
External Plastering	Around 100% completed
External Infrastructure	Most works including Sewer line, storm water drains, water supply works, STP/ Boundary wall and other works in progress.
Site development	Compound wall and street light works in progress.
Social Infrastructure	Superstructure work completed for Anganwadi, shops, milk booth, library and ration shop



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 work	
• PEB Work	2 Blocks upto 6 Floor level completed 4 Blocks upto 4 Floor level completed 2 Blocks upto 2 Floor level completed
• Slab Work	2 Blocks upto 4 Floor level completed 3 Blocks upto 3 Floor level completed 3 Blocks upto 2 Floor level completed
• EPS Panel work in Wall	3 Blocks upto 2 Floor level in progress 5 Blocks upto 1 Floor level in progress
Sample Unit	Completed
Infrastructure Work	Boundary wall, Community Centre, internal Road work/ STP, underground tank & Sewer line work is in progress.



PROGRESS OF LIGHT HOUSE PROJECTS AS ON JANUARY 20, 2022

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 in Building Blocks	<ul style="list-style-type: none"> • Stilt to 8th Floor Pre-engineered Steel (PEB) erection work is in progress – (Block –A) • Stilt to 6th Floor Pre-engineered Steel (PEB) erection work is in progress – (Block – C & D) • Stilt to 3rd Floor Shear wall (Staircase & Lift well) work is in progress in all 4 Blocks. • Slab casting & SIP Wall erection work is in Progress at First Floor level in Block-A & C
Social & Physical Infrastructure Work	<ul style="list-style-type: none"> • In Community Centre & Commercial Block, work up to Plinth level completed • Foundation & Plinth level work for boundary wall is in Progress (220 m Completed) • Excavation work for Electrical Substation completed.
Sample Flat	Completed

RAJKOT, Gujarat

Technology Name: **Monolithic Concrete Construction using Tunnel Formwork**



No. of Dwelling Units : **1144 Nos. (S+13)**
 No. of Block / Tower : **11 Blocks**
 Units in each Block / Tower : **104 Nos.**

Activities	Progress
Foundation work	• Completed in all 11 Blocks.
Superstructure works	<ul style="list-style-type: none"> • 6 Blocks completed (Block no.3,7,8,9,10 & 11) • Block No. 4- Ground + 5 work is in progress • Block No. 1- Ground + 3 work is in progress • Block No. 2- Ground floor is completed • Lift installation is in progress in 4 Blocks.
Sample Unit	Completed
Masonry work	<ul style="list-style-type: none"> • Completed – 2 blocks • In progress – 4 blocks
Internal (electrical work)	• In progress - 6 blocks
Social & Physical Infrastructure works	<ul style="list-style-type: none"> • Structure work completed for Community hall and in progress in Anganwadi cum Shopping Complex. • Infrastructure development works of internal road/ underground water tank formation & sewer lines/ manholes are in progress.

PROGRESS OF LIGHT HOUSE PROJECTS AS ON JANUARY 20, 2022

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(112), B(154), C(118), D(168), E(168), F(168) & G(112)

Activities	Progress
Foundation (Dwelling Units)	
Pile Work	<ul style="list-style-type: none"> Completed in 4 Blocks In progress- 3 Blocks
Pile head breaking	A, E & F Block completed
Pile capping & Plinth beam	Pile capping G Block in progress and PCC in Block A, F & G completed
Excavation	A, F & G Block completed and E Block in progress.



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
Site mobilization (Casting Yard, Batching Plant, Tower Cranes)	<ul style="list-style-type: none"> The sample casting of non-load bearing wall & staircase has been started. The two tower cranes are now functional.
Foundation work	<ul style="list-style-type: none"> The Raft slab concreting has been completed of 4 Blocks (1, 2, 5 & 6). The shear wall shuttering is in progress in 2 Blocks (2 & 6). The starter fixing of 2 Blocks (1 & 5) is in progress.
Infrastructure work	<ul style="list-style-type: none"> The pre-cast boundary wall installation has been completed up to 178 mts.



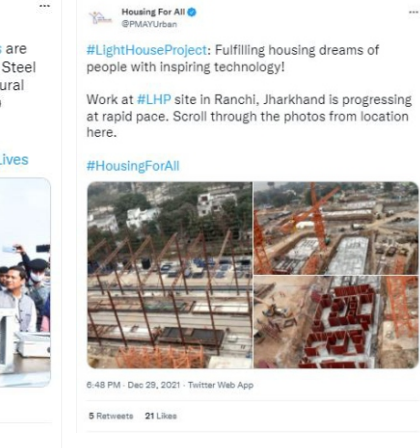
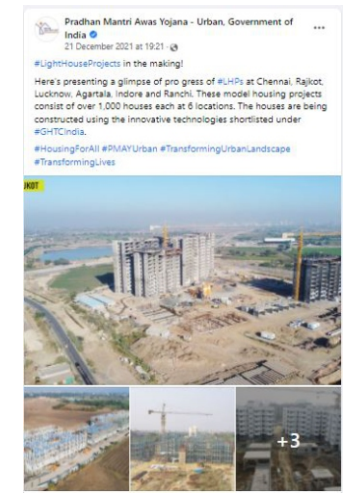
Social Media Corner



6 Retweets 14 Likes

2 Retweets 4 Likes

9 4 23



2 Retweets 8 Likes

5 Retweets 21 Likes

5 Retweets 12 Likes

6 Retweets 1 Quote Tweet 17 Likes