

E-Newsletter-Vol - X

# LIGHT HOUSE PROJECTS

November 15, 2021, New Delhi

“ I just saw a house being built in Lucknow under the Light House Project. The technology being used in these houses will not require plaster and paint. The already prepared walls will be used in these houses. This will speed up the construction of houses. I am sure all the people who have come to Lucknow from all over the country will learn a lot from this project and try to implement it in their cities also. ”

- Hon'ble Prime Minister  
5<sup>th</sup> October 2021



## Secretary, MoHUA; JS&MD, HFA; visit Light House Project Rajkot, review progress

Shri Durga Shanker Mishra, Secretary, Ministry of Housing and Urban Affairs (MoHUA), and Shri Kuldeep Narayan, Joint Secretary & Mission Director (JS&MD), Housing For All (HFA), visited Light House Project (LHP) site in Rajkot, Gujarat, on 23<sup>rd</sup> and 24<sup>th</sup> October 2021. Shri Mishra and Shri Narayan were joined by Shri RK Gautam, Director (HFA-V) and officials of MoHUA, Gujarat government. They reviewed the progress of LHP under Pradhan Mantri Awas Yojana (Urban), wherein modern technology and innovative processes are being used to construct 1,144 houses for the poor.



'Monolithic Concrete Construction using Tunnel Formwork', an already established technology in France, has been adopted for construction at LHP Rajkot. This technology fast-tracks construction process, is resource-efficient, disaster-

resilient and ensures durability. Customized engineered tunnel formwork, two steel half-shells are placed together and RCC casting is done to form a module. With tunnel forms, walls and slabs are cast in a single day. The tunnel formwork is being built in a factory in Pune. The 13-floor project with a total of 11 towers are expected to be completed in a few months from now. So far, superstructure work has been completed in four towers. Work for other towers are in progress at a very rapid pace.



Shri Mishra and Shri Narayan toured the site, the technology providers and construction agencies briefed the officials about the work done so far, usage and benefits about the technology, the progress made and other details. They also visited the sample flats and interacted with LHP beneficiaries, Technograhis and media persons present on site. Technograhis of RK University were also there. Secretary, MoHUA, encouraged people to enrol as Technograhis to learn about the technologies at the LHP sites for their further replication in Indian context.



During the interaction, Secretary, MoHUA, talked about the Hon'ble Prime Minister's vision of 'Housing For All' by 2022 & how PMAY(U) is working towards achieving the goal. He also spoke about LHPs, their impact, the importance of new technologies and how their use is leading us towards AatmaNirbhar Bharat. He categorically mentioned that the happiness of the LHP beneficiaries knows no bounds after they got a home of their own under the Mission.



Rajkot, Chennai (Tamil Nadu), Indore (Madhya Pradesh), Lucknow (Uttar Pradesh), Agartala (Tripura) and Ranchi (Jharkhand) are the six locations where LHPs are under construction.

LHP technologies were selected through a global challenge process under Global Housing Technology Challenge-India (GHTC-India) in 2019. They ensure houses are completed on time and delivered to the beneficiaries swiftly.

LHPs have been introduced for familiarisation, adoption and adaptation of the innovative technologies, materials and processes suited to Indian geo-climatic and other conditions so that they may be



replicated for construction in other projects. Detailed information on these LHP technologies are available on GHTC-India website (<https://ghtc-india.gov.in/>).

So far, 18,000 people have enrolled themselves as Technograhis and are learning about the innovative technologies in use at the LHP sites through online and offline mediums. The engaging sessions for Technograhis are being organised on regular basis.



## Message from JS&MD (HFA) Shri Kuldip Narayan

We, at PMAY(U) Mission, have turned every challenge into an opportunity. The year 2021, I would say, was full of challenges, but with a focussed approach towards our goal of providing 'Housing For All' by 2022, we kept moving forward. Over the years, various strategic and innovative measures have been introduced by the Mission which have benefited our beneficiaries and I'd like to mention here that Light House Projects is one such initiative that is steadily bringing a technological transition in the country.

There is encouraging progress on the front of LHPs. A few weeks ago, Shri Durga Shanker, Secretary, MoHUA, and I, along with other officials of the Mission and senior officers of State Government, visited the site at Rajkot. Work is undergoing at a rapid pace on site and I'm sure the flats would be ready in some months for our beneficiaries. I got the opportunity to meet our LHP beneficiaries, who expressed their

happiness on getting a house under the Mission. The smiles on their faces fill our hearts with pride as well as gratitude.

At this moment, I'd also like to congratulate the Mission, the technology providers, construction agencies and various other people associated with Light House Projects. The project, by all means, is one-of-a-kind and is complementing our Hon'ble Prime Minister's vision of providing roof over the heads of people. And, with the overwhelming response that our Technograhi module has received, I'm sure the stakeholders will act as a gamechanger in reviving the construction sector in the country.

Along with providing pucca houses to people of urban India, Pradhan Mantri Awas Yojana (Urban) also brings an opportunity of dignified living. We know how important a house means to every human being and we are taking every possible step to fulfil the housing dreams of people. On that note, I'd like to end by saying that as a Mission, we are confident that when the Nation celebrates 75 years of Independence in 2022, PMAY(U) will have delivered pucca houses to more than a crore families.

## Glimpses of LHP Sample Flats

### Rajkot

In few months from now, 1,144 flats under Light House Project in Rajkot will be ready. The allotment process for the flats have already been done. Affordable, disaster-resilient houses with allied infrastructure are being built.



### Lucknow

In Lucknow, construction of 1,040 houses (Ground+13) are underway using globally renowned technology named 'PVC Stay-In-Place Formwork System' at Avadh Vihar area of the city. The innovative technology from Canada, ensures speedier construction, does not require plaster which gives a very aesthetic look to the houses.



### Indore

'Prefabricated Sandwich Panel System', an already established technology in Japan and Australia, has been adopted to construct 1,024 houses under LHP in Indore, Madhya Pradesh. Produced in a controlled factory environment, these panels replace the conventional brick and mortar walling system and bring speed, quality, resource efficiency, including water conservation in construction of houses.



### Chennai

Precast Concrete Construction System-Precast Components Assembled at Site is the technology adopted from Finland and USA for construction of 1,152 houses in Chennai, Tamil Nadu. The Project is in a fully developed area of Chennai, adjacent to IT park. Work is being carried out in a controlled factory environment, ensuring resource optimisation, improved quality and precision.





# PROGRESS OF LIGHT HOUSE PROJECTS AS ON NOVEMBER 15, 2021

## 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 Works (Electrical, Plumbing etc.)	In progress- All 12 blocks
Masonry Work	In Progress - All 12 blocks at different floors
Internal Works (Flooring, Plastering, Doors etc.)	In progress – 12 blocks
Infrastructure Work	Boundary wall, sewer line, storm water line, road work, underground tank and social infrastructure works in progress



## 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	<ul style="list-style-type: none"> <li>• Ground Floor &amp; First floor Shear wall work completed and is in progress upto 6<sup>th</sup> floor.</li> <li>• Ground Floor &amp; First floor Pre-engineered Steel (PEB) erection work in progress-8 block &amp; stilt floor slab laid block no. 2, 3 &amp; 7. Deck sheet work in block no. 3 at 2<sup>nd</sup> floor in progress. Sample flat work in progress.</li> </ul>
Infrastructure Work	<ul style="list-style-type: none"> <li>• Boundary wall, Community Centre, Road work, underground tank &amp; Sewer line work is in progress.</li> <li>• Steel (PEB) erection work in progress.</li> </ul>





# PROGRESS OF LIGHT HOUSE PROJECTS AS ON NOVEMBER 15, 2021

## 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
Foundation (Dwelling Units) - Raft, Column, Plinth beam & Anchor Bolts	Completed – All 4 Blocks
Superstructure work	<ul style="list-style-type: none"> <li>• Stilt to 2<sup>nd</sup> Floor shear wall (Staircase &amp; Lift well) work is in progress in all Blocks.</li> <li>• Stilt to 4<sup>th</sup> Floor Pre-engineered Steel (PEB) erection work in progress – 2 Blocks (Block A &amp; C), Started in Block-D</li> </ul>
Social Infrastructure Work	<ul style="list-style-type: none"> <li>• In Community Centre and Commercial Block, the foundation &amp; column casting upto plinth beam completed, &amp; plinth beam shuttering work is in progress.</li> <li>• Electrical substation excavation work completed.</li> </ul>
Sample Flat	Sample flat is ready on 1st floor of Block A

## 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	<ul style="list-style-type: none"> <li>• Completed in 10 blocks</li> <li>• Foundation – Block no. 6 in progress</li> </ul>
Superstructure works	<ul style="list-style-type: none"> <li>• 4 Blocks completed (Block no. 8,9,10 &amp; 11)</li> <li>• Block No. 3 – Ground +1 in progress</li> <li>• Block No. 7- Ground +2 in progress</li> </ul>
Sample Unit	Completed
Masonry work	• In progress - 4 blocks
Internal (electrical work)	• In progress - 4 blocks
Infrastructure work	<ul style="list-style-type: none"> <li>• Foundation work completed for Community hall and Aaganwadi.</li> <li>• Superstructure work is in progress.</li> </ul>





# PROGRESS OF LIGHT HOUSE PROJECTS AS ON NOVEMBER 15, 2021

## 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	Completed – 3 Blocks In progress – 4 Blocks
Pile capping & Plinth beam	Pile capping yet to be taken up. PCC in block A & F in progress.
Excavation	Block A & G started and Block F 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
Status of statutory approvals & Site mobilization	<ul style="list-style-type: none"> <li>After statutory approvals &amp; vetting of structural design, the structural design has been reviewed &amp; recommended by Committee of Experts.</li> <li>The setting up of casting yard is in advanced stage. Batching Plant calibration has been completed.</li> </ul>
	<ul style="list-style-type: none"> <li>The pre-cast boundary wall erection has been completed up to 178 mt.</li> <li>The erection work of one Tower Crane has been completed &amp; is in progress for 2nd Crane.</li> <li>The excavation work for two building blocks are under progress.</li> </ul>





# Social Media Corner

**Durga Shanker Mishra** @Secretary\_MoHUA

Visited [#LightHouseProject](#) at Rajkot on 24th Oct. It is one among the six cities where LHPs are being constructed. 1,144 houses are under construction here using 'Monolithic Concrete Construction using Tunnel Formwork', innovative technology from France.

**Durga Shanker Mishra** @Secretary\_MoHUA

This technology fast-tracks the construction process, is resource-efficient, disaster-resilient & ensures durability. Customized engineered tunnel formwork, two steel half-shells are placed together & RCC casting is done to form a module.

youtube.com  
Shri Durga Shanker Mishra, Secretary, MoHUA, visits Light ...  
Shri Durga Shanker Mishra, Secretary, Ministry of Housing and Urban Affairs, reviewed the progress of Light House ...

**Durga Shanker Mishra** @Secretary\_MoHUA

The tunnel formwork is being built in a factory in Pune. I share the process in the factory through video recording. Such work makes it possible to construct a 14-storey building in just 35 days.

youtube.com  
Aerial view of LHP Rajkot  
Aerial view of LHP Rajkot

**Durga Shanker Mishra** @Secretary\_MoHUA

At the site, I spoke to the media about the technology transition happening in the country with [#LightHouseProject](#). LHP technologies were selected through a global challenge process under GHTC-India.



**Durga Shanker Mishra** @Secretary\_MoHUA

Was glad to interact with Technograhis at the site. I briefed them about the project, technology in use & its various advantages.

youtube.com  
Secretary, MoHUA, interacts with Technograhis at LHP Raj...  
Shri Durga Shanker Mishra, Secretary, MoHUA, addressed Technograhis, comprising of students and other ...

**Ministry of Housing and Urban Affairs** @MoHUA\_India

Shri Durga Shanker Mishra, [@Secretary\\_MoHUA](#), reviewed the construction progress of [#LightHouseProject](#), Rajkot, during his visit on 24th October 2021.



**Durga Shanker Mishra** @Secretary\_MoHUA · Oct 28

Replying to [@Secretary\\_MoHUA](#)

I also spoke about the Hon'ble Prime Minister's vision of 'Housing For All' by 2022 & how PMAY(U) is working towards achieving the goal. I share this interaction with young graduates of RK University.

**Ministry of Housing and Urban Affairs** @MoHUA\_India

Shri Durga Shanker Mishra, [@Secretary\\_MoHUA](#), shared his insights with Technograhis on PMAY (U) and about the Light House Projects being constructed in 6 cities across the country.

**Housing For All** @PMAYUrban

Shri Kuldip Narayan, JS&MD, Housing for All (HFA), MoHUA, visited [#LightHouseProject](#) in Rajkot, Gujarat, today. He was accompanied by Shri RK Gautam, Director (HFA). Shri Narayan was briefed about the work, technology being used, progress & other details as he toured the site.

**Housing For All** @PMAYUrban

[#LHPs](#) are being built as part of [#GHTCIndia](#) in 6 cities across India. In Rajkot, 1,144 houses are under construction using 'Monolithic Concrete Construction using Tunnel Formwork' technology. Foundation stone of LHPs was laid by Hon'ble PM on 1st January 2021.

**Pradhan Mantri Awas Yojana - Urban, Government of India**

Published by Mhupa India · 3 November at 09:57

[#LightHouseProject](#): Homes of hope & dream for people!  
[#LHPs](#) are transforming building construction sector through use of globally proven innovative technology. In Ranchi, 1,008 houses are under construction. A glimpse of the work in progress.

[#HousingForAll](#) [#TransformingUrbanLandscape](#) [#GHTCIndia](#)

**प्रधानमंत्री आवास योजना राहती**

24 October at 16:31

राजकोट में साइट हाउस प्रोजेक्ट की अपनी यात्रा के दौरान, श्री दुर्गा शंकर मिश्र, सचिव, आवास एवं शहरी कार्य मंत्रालय ने साइट पर छात्रों, टेक्नोग्राहियों एवं मीडिया को संबोधित किया।

श्री दुर्गा शंकर मिश्र ने परिचयवार्ता, सर्व प्रौद्योगिकियों के मूल्य और उनका उपयोग कैसे हमें आत्मनिर्भर भारत की ओर ले जा रहा है, के बारे में बताया। श्री मिश्र ने एलएचपी के लाभार्थियों से भी बातचीत की और साइट के विकास पर मिश्रों पर उनकी खुशी का जवाब दिया। उन्होंने उच्च गुणवत्ता वाली टेक्नोलॉजी के रूप में नवीनतम कारन और 6 एलएचपी साइटों पर प्रौद्योगिकियों के बारे में जानने के लिए प्रोत्साहित किया। उनका पूरा इंटरव्यू यहाँ देखें।

<https://youtu.be/jhKLD77m79g>

[#HousingForAll](#) [#TransformingUrbanLandscape](#) [#PMAYUrban](#) [#TransformingLives](#) [#GHTCIndia](#)

Shri Durga Shanker Mishra, Secretary, MoHUA, visits Light House Project site in Rajkot

230 views · Oct 24, 2021

PMAY Urban 7.6K subscribers

Aerial view of LHP Rajkot - 3

108 views · Nov 3, 2021

PMAY Urban 7.6K subscribers