

E-Newsletter-Vol - XI

# LIGHT HOUSE PROJECTS

December 20, 2021, New Delhi

**Hon'ble Prime Minister inaugurates All India Mayors' Conference in Varanasi, talks about use of innovation & technology in developing cities**



Hon'ble Prime Minister Shri Narendra Modi inaugurated the All India Mayors' Conference on 17<sup>th</sup> December 2021 in Varanasi via video conference. Hon'ble Chief Minister of Uttar Pradesh Shri Yogi Adityanath and Hon'ble Union Minister for Housing & Urban Affairs Shri Hardeep S Puri were among those present on the occasion.

This was the first edition of All India Mayors' Conference themed on 'New Urban India' to ensure ease of living in urban areas and create a roadmap for development of cities. More than 100 Mayors from across the country attended the event held at Varanasi's Pt Deendayal Upadhyay Trade Facilitation Centre.

Films on Urban Opportunities and Developments in Uttar Pradesh and on New Urban India were showcased at the inaugural event after

which Hon'ble Prime Minister addressed the august gathering. The exhibition showcased the key achievements of Government of India through various Flagship Urban Missions and Government of Uttar Pradesh in the sphere of urban development.

Addressing the gathering, Hon'ble Prime Minister said that the Conference will unleash numerous learning opportunities for the Mayors' that will help them in enhancing the urban landscape in their respective cities. He also called for evolution in the cities by restoring the old urban landscapes with innovation and technology. Hon'ble Prime Minister also urged the people to think of ways to improve their cities and contribute towards its betterment. "This 'Jan Bhagidari' will truly take our nation forward towards newer heights," Hon'ble Prime Minister added.





The Ministry of Housing and Urban Affairs (MoHUA), Government of India, showcased the developments undertaken by each Mission through the exhibition. Under the ambit of Pradhan Mantri Awas Yojana (Urban), progress of Light House Projects (LHPs) at the six locations - Chennai (Tamil Nadu), Lucknow (Uttar Pradesh), Indore (Madhya Pradesh), Agartala (Tripura), Ranchi (Jharkhand) and Rajkot (Gujarat) - was displayed, along with highlighting the achievements of the Mission as a whole. A model of the LHP Lucknow was showcased at the venue.



Hon'ble Chief Minister of Uttar Pradesh Shri Yogi Adityanath, Hon'ble Union Minister for Housing & Urban Affairs Shri Hardeep S Puri and Shri Durga Shanker Mishra, Secretary, MoHUA, also visted the exhibition.

Meanwhile, Shri Durga Shanker Mishra, Secretary, MoHUA, shared a presentation on 'New Urban India' with the esteemed guests. The presentation focused on urban transformation and real on-ground changes that cities & states have undergone and the way forward to make India more resilient.





Post inaugural session the Mayors were divided into five groups for discussion of different urban subjects. The discussion under PMAY(U) was held on 'Urban Housing & New Technologies' in the presence of Shri Kuldip Narayan, Joint Secretary & Mission Director (JS&MD), Housing For All (HFA), with a group of 24 Mayors. The challenges of urban housing, conventional construction system, advantages of new technologies in urban housing, MoHUA's role and initiatives in promoting new technologies in housing sector were some of the topics on which discussions were held. After the discussion, a presentation was made by the group coordinator - Hon'ble Mayor of Ghaziabad.

Hon'ble Union Minister Shri Hardeep S Puri and Shri Durga Shanker Mishra, Secretary, MoHUA, briefly joined the Group Discussion and shared their insights.



## Light House Projects at a Glance

Light House Projects (LHPs), under Global Housing Technology Challenge-India (GHTC-India), are being constructed at six sites across six States. The model housing project showcases the use of best new-age technologies, materials and processes in the construction sector. The six states where LHPs are underway are Chennai (Tamil Nadu), Lucknow (Uttar Pradesh), Indore (Madhya Pradesh), Agartala (Tripura), Ranchi (Jharkhand) and Rajkot (Gujarat).

The project consists of 1,000 houses each with related social and physical infrastructure facilities at six locations. The houses are being constructed using the innovative technologies shortlisted under GHTC-India suitable to the geo-climatic and hazardous conditions of the region. LHPs promote cost effective, environment-friendly and speedier construction. The foundation stone of the project was laid by Hon'ble Prime Minister Shri Narendra Modi on 1<sup>st</sup> January 2021.

### Benefits of LHPs:

- LHPs are driven by modern technology and innovative process. The project will deliver ready-to-live houses with better quality of construction in a sustainable manner.
- Houses under the project are being built in less time, are disaster resilient, affordable and comfortable.
- LHPs showcase use of six distinct shortlisted innovative technologies for field level application, learning and replication.
- These projects are serving as Live laboratories for all stakeholders leading to successful transfer of technologies from field.



LHP Chennai



LHP Rajkot



LHP Indore



LHP Lucknow



LHP Agartala



LHP Ranchi



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

This December, we got the golden opportunity to showcase the achievements of Pradhan Mantri Awas Yojana (Urban) at the All India Mayors' Conference in Varanasi which was inaugurated by Hon'ble Prime Minister. The Mission has come a long way in these six years with total sanctioned houses close to 1.14 crore houses. The All India Mayors' Conference on New Urban India also gave us a chance to interact, discuss and exchange knowledge on urban housing and new technologies to further boost the housing sector.

I'll take this opportunity to extend my gratitude to every person associated with PMAY(U) for their support in taking the Mission to new heights. As I look back, I see 2021 as a year full of opportunities for us, especially when it comes to the Ministry's ambitious Light House Projects (LHPs).

On 1<sup>st</sup> January 2021, Hon'ble Prime Minister had the laid the foundation stone for 6 LHPs across the country, terming it to be like "light towers which would give a new direction to the housing construction in the country." The Light

House Projects indeed are like light towers as they have now become like a beacon of light in the building construction sector. The technologies being used in the projects can be replicated in Indian context to give more affordable, disaster-resilient and environment friendly homes to people and, one of the primary advantages of these technologies is that they promote speedier construction.

I'm also immensely proud of how well our Technograhis module has taken off and a large number of students, professionals and other stakeholders are coming forward to learn about new technologies and their use for further replication in India.

At all the LHP sites, construction work is undergoing at a full speed and in a few months from now, we would be proudly handing over the keys of pucca house which innovative, climate resilient, disaster resistant and green to every beneficiary

We are now inching towards our 'Housing for All' by 2022 goal. Let us all work with utmost dedication in achieving our goal and commit ourselves to make India an 'AatmaNirbhar Bharat'.

## Visit of Technograhis to LHP Sites

A training session was organised for over 100 Technograhis of Bansal Institute of Engineering and RR Institute of Modern Polytechnic, Lucknow, at the Light House Project site in the city on 22<sup>nd</sup> November 2021 and 1<sup>st</sup> December 2021, respectively. The students were briefed about 'Stay In Place PVC Formwork with Pre-Engineered Steel Structural System' technology being used for construction of 1,040 houses and the construction process among other technical know-how by the officials and engineers present on site. The LHP project is located at Avadh Vihar area of Lucknow.

Similarly, in Indore, an on-site training programme was organised at the LHP site for 47 students of Swami Vivekanand College of Engineering on 22<sup>nd</sup> November 2021. The students were briefed about 'Prefabricated Sandwich Panel System' technology



LHP Indore



LHP Lucknow

which is being used for construction of 1,024 houses.

On 3<sup>rd</sup> December 2021, another session was organised for Technograhis at the LHP Rajkot, Gujarat. 25 Civil Engineering Students of Marwadi University, Rajkot, visited the under-construction site, in which 1,144 houses are being built using 'Monolithic Concrete Construction using Tunnel Formwork' technology.

Like Lucknow, Indore and Rajkot such site visits and engaging sessions for Technograhis are being organised on regular basis at other LHP sites. Interested candidates can enrol at <https://ghc-india.gov.in> to be part of on-site/virtual visits.



LHP Rajkot

Ministry of Housing and Urban Affairs (MoHUA) has worked out a detailed strategy for promoting cross-learning and main streaming global innovative technologies used for construction of LHPs. 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 for their further replication in Indian context.



# PROGRESS OF LIGHT HOUSE PROJECTS AS ON DECEMBER 20, 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 work & Water proofing	Tile work and other finishing work in progress - all blocks. Terrace water proofing work completed in all blocks
External Plastering	10 blocks completed, 2 blocks in Progress
External Infrastructure	Sewer line, storm water line, manhole chambers, STP, Community building and other works in progress. Lift work completed in 4 towers and in progress in 4 towers
Site development	Compound wall erection, brick work and plaster in shop buildings in progress
Fire fighting	UG sump and overhead tank work in progress in all towers

## 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	6 Blocks upto 4 Floor level completed 2 Blocks upto 2 Floor level completed
• Slab Work	20 Slab Casted
• EPS Panel work in Wall	6 blocks, 1st floor completed
Sample Unit	Completed
Infrastructure Work	• Boundary wall, Community Centre, Road work, underground water tank, Electric Substation & Sewer line work is in progress. • Super structure work of community centre completed





# PROGRESS OF LIGHT HOUSE PROJECTS AS ON DECEMBER 20, 2021

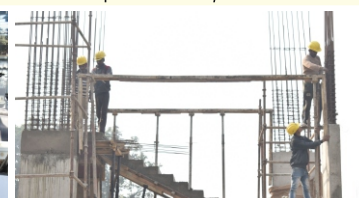
## LUCKNOW, Uttar Pradesh

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
Superstructure work in Building Blocks	<ul style="list-style-type: none"> <li>Stilt to 6<sup>th</sup> Floor Pre-engineered Steel (PEB) erection work is in progress – 3 Blocks (Block A, C &amp; D)</li> <li>Stilt to 2<sup>nd</sup> Floor Shear wall (Staircase &amp; Lift well) work is in progress in all 4 Blocks.</li> </ul>
Social Infrastructure Work	<ul style="list-style-type: none"> <li>In Community Centre &amp; Commercial Block, work up to Plinth level completed</li> <li>Electrical Substation excavation work completed.</li> <li>Excavation work for boundary wall is in Progress</li> </ul>
Sample Flat	Sample flat is ready in 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 all blocks</li> </ul>
Superstructure works	<ul style="list-style-type: none"> <li>5 Blocks completed (Block no. 7,8,9,10 &amp; 11)</li> <li>Block No. 3 – Ground +12 in progress</li> <li>Block No. 7 -Ground +9 in progress</li> <li>Block No. 4 -Ground+1 in progress</li> </ul>
Sample Unit	Completed
Masonry work	<ul style="list-style-type: none"> <li>In progress - 5 blocks, 1 block completed</li> </ul>
Internal (electrical work)	<ul style="list-style-type: none"> <li>In progress - 6 blocks</li> </ul>
Infrastructure work	<ul style="list-style-type: none"> <li>Foundation work completed for Community hall and Aaganwadi. Superstructure work in community centre completed and for Aaganwadi is in progress. Also other development works in progress.</li> </ul>





# PROGRESS OF LIGHT HOUSE PROJECTS AS ON DECEMBER 20, 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 in 4 Blocks & In progress – 3 Blocks
Pile head breaking	A, E & F Block completed and G block in progress
Pile capping & Plinth beam	Pile capping F block in progress and PCC in Block A completed
Excavation	Block G AND e in progress and A & F completed.



## 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)	• The setting up of Casting Yard including Boiler is in advanced stage. The concrete batching plant is functional. Tower Cranes (2 Nos.) have been installed.
Foundation work	• Building Block 2 – The excavation, Soling, PCC, Raft reinforcement & shuttering work has been completed. • The PCC work has been completed in 3 Blocks (1, 5, & 6) & Raft reinforcement work is in progress
Infrastructure work	• The pre-cast boundary wall installation has been completed up to 178 mt.





## Social Media Corner



**Narendra Modi** @narendramodi · Dec 17  
Addressing the All India Mayors' Conference.



**Narendra Modi** @narendramodi  
Addressing the All India Mayors' Conference.



**Yogi Adityanath** @myogiadityanath

आदरणीय प्रधानमंत्री श्री @narendramodi जी द्वारा वाराणसी में 'न्यू अर्बन इंडिया' विषय पर आयोजित अखिल भारतीय मेयर सम्मेलन का वरुणल माध्यम से उद्घाटन...

Translate Tweet



**Yogi Adityanath** @myogiadityanath  
नए उत्तर प्रदेश का बदलता नगरीय परिदृश्य



**Hardeep Singh Puri** @HardeepSPuri

Participants of the All India Mayors' Conference were divided into five groups to discuss & exchange ideas on specific aspects of urban development in their cities.

#NewUrbanIndia



**Hardeep Singh Puri** @HardeepSPuri

Full house at All India Mayors' Conference inaugurated by PM @narendramodi Ji in Varanasi today.

100 mayors in attendance along with Chairpersons of AMRUT Cities of UP, prominent citizens & beneficiaries of PMAY-U & #PMSVANidhi

@myogiadityanath  
@Gopalji\_Tandon @NeelkanthAd



**Hardeep Singh Puri** 18 November at 17:41

Light House Projects (LHP) are homes of hope and dream for people. A total of 6,368 houses are under construction at six LHP locations of Chennai, Lucknow, Indore, Rajkot, Agartala, and Ranchi. Construction work is going on at a rapid pace to deliver the houses on time to beneficiaries.

Inaugurated by PM Sh Narendra Modi Ji in January 2021, LHPs are model housing projects with houses built with shortlisted alternate technology suitable to the geo-climatic and hazard conditions of the region. This will demonstrate and deliver ready-to-live houses with speed, economy, and better quality of construction in a sustainable manner.

#HousingForAll  
Bharatiya Janata Party (BJP)  
Ministry of Housing and Urban Affairs



**Durga Shanker Mishra** @Secretary\_MoHUA

Hon'ble @narendramodi Ji, in presence of respective Hon'ble CMs, laid the foundation on 1st Jan'21. Lucknow is one of the cities selected through the national challenge & work is moving at a rapid pace. Happy to share the exhibit wall on this at #AllIndiaMayorsConf #NewUrbanIndia



**Durga Shanker Mishra** @Secretary\_MoHUA

Through Global Housing Technology Challenge @GhtcIndia, 6 lighthouse projects with globally best available- resource-efficient, climate-resilient & rapid construction technologies were identified.



**Housing For All** @PMAYUrban

A training session was organised for #Technograhis at the #LightHouseProject site in Rajkot today. 25 Civil Engineering Students of Marwadi University, Rajkot, Gujarat visited the site.



**Housing For All** @PMAYUrban

A training session was organised for #Technograhis at #LightHouseProject site in Lucknow on 01.12.21. Total 53 students of R R Institute of Modern Polytechnic, Lucknow, visited the site.



**Housing For All** @PMAYUrban

Similarly at Indore LHP site, the training programme for was organised for 47 #Technograhis of Swami Vivekanand College of Engineering. The students were briefed about 'Prefabricated Sandwich Panel System' technology' which is being used for construction of 1024 houses.



**Housing For All** @PMAYUrban

#LightHouseProjects: Homes of hope & dream for people.

Work at six #LHP sites is progressing at rapid pace in order to deliver the houses on time to beneficiaries.

Scroll through the photographs here.



**Housing For All** @PMAYUrban

A total of 6,368 houses are under construction at 6 #LHP locations, namely Chennai, Lucknow, Indore, Rajkot, Agartala and Ranchi.

#HousingForAll #PMAYUrban  
#TransformingUrbanLandscape #TransformingLives  
#GHTCIndia



**Housing For All** @PMAYUrban

A training session was organised recently for 50 #Technograhis of Bansal Institute of Engineering, Lucknow, at #LightHouseProject site. Students were briefed about 'Stay In Place PVC Formwork with Pre-Engineered Steel Structural System' technology being used for construction.

