

E-Newsletter-Vol - XXVIII

LIGHT HOUSE PROJECTS

May 31, 2023, New Delhi

Light House Projects at a Glance

Light House Projects (LHPs) are visionary housing project under Pradhan Mantri Awas Yojana (Urban) to provide affordable and comfortable houses with all amenities to eligible beneficiaries. LHPs are a forward-looking step to form the basis of affordable housing construction in India with use of emerging, disaster-resilient, environment-friendly, cost-effective and speedy construction technologies. They have been conceptualised as model housing projects, demonstrating construction of ready to live houses which provide its inhabitants a better quality of life in a sustainable manner.



LHP Indore



LHP Lucknow



LHP Ranchi



LHP Agartala

Chennai, Rajkot, Indore, Lucknow, Ranchi and Agartala are the six locations hosting LHPs; out of which Chennai and Rajkot have been inaugurated by Hon'ble Prime Minister Shri Narendra Modi in 2022 while the other four are in different stages of construction.

Meanwhile, LHPs are also functional as Live Laboratories to promote widespread learning on the use of innovative construction technologies on ground and mainstreaming in Indian context. Through the popular free online enrolment drive - Technograhis - the promotion is being done by engaging wide range of stakeholders for site visits, webinars and other related programmes.



Message from JS&MD (HFA) Shri Kuldip Narayan

At Pradhan Mantri Awas Yojana (Urban), ours is a constant endeavour to work for the people, for their benefit & make resources available to them. By building or by providing affordable homes to people, we are also helping in building the Nation. The Light House Projects are a perfect example of making the country self-reliant when it comes to the construction sector.

Thousands of stakeholders have been associated with the making of LHPs, in learning the process flow of construction, in knowledge sharing of how LHPs can be replicated in Indian context & in innovation, demonstration. We have named them Technograhis, who are prepping up to be game-changers transforming the construction technology sector. It gives me immense happiness to see young students taking active role in visiting the sites, learning about the housing project.

The beautiful amalgamation of technology and affordability always finds a special mention during my interactions with the LHP beneficiaries. They also tell me how lucky they feel after getting a beautiful flat in their name. After all, a house, is the biggest asset that a person earns in his or her entire life.

I always say this that the beneficiaries form the core of the Mission & that is why, we lay special emphasis on connecting them on several occasions. We welcome the beneficiaries to the project sites & take their suggestions for betterment.

In the month of June, we will complete 8 years of PMAY-U - 8 years of bringing actual change in the lives of lakhs of families. In this journey, technology has played an integral part in the construction process.

JS&MD, HFA reviews progress of Light House Projects at Project Monitoring Committee Meeting



Close monitoring of the progress of LHPs is done through monthly Project Monitoring Committee (PMC) meeting, chaired by Shri Kuldip Narayan, Joint Secretary & Mission Director (JS&MD), Housing For All (HFA), Ministry of Housing and Urban Affairs (MoHUA). On 10th May 2023, the 14th PMC meeting was held under the chairmanship of JS&MD, HFA with construction agency officials, representatives from the State Government to get a detailed outlook of the status of the housing project in different locations. Shri RK Gautam, Director, HFA, concerned officials from the Ministry were also present during the meeting.

A presentation on the current progress of LHP Indore, LHP Lucknow, LHP Ranchi and LHP Agartala was made before JS&MD, highlighting the amount of work done at each tower, the entire premises and other additional related details.

At Indore, most of the work has been completed. Lifts, erection of wall panels, etc are under progress, along with other finishing work in some of the blocks. Electricity connection has also been provided at site.

At Lucknow, finishing work is on the verge of completion in few blocks and installation of lift, superstructure work is currently under process.

At Ranchi, superstructure work in a few blocks has been completed and finishing work is in progress, along with installation of lifts. Infrastructure work has also begun.

At Agartala, superstructure work is being done, meanwhile, shear wall work for lift is also under process. It was advised that work at some of the blocks should be done up to the plinth level before monsoons to avoid waterlogging.

After a detailed review of each project, JS&MD emphasised that work should be completed in all respect rapidly and at Ranchi and Agartala, there should be increase in manpower and other resources on sites.

Status of the release of State and Beneficiary share and release of payment of pending bills of the agencies were also discussed during the meeting.

Hon'ble MP from Indore visits LHP site

Shri Shankar Lalwani, Hon'ble Member of Parliament from Indore Parliamentary Constituency, visited Light House Project Indore on 9th May 2023 and discussed about the new innovative construction technologies. He was briefed about the features of the project and also interacted with Technograhis present at project site.



LHP Indore boasts of a best-in-class finish, proper civic, basic and modern amenities. LHPs are devoted to developing affordable, durable and innovative residential housing.

Secretary, Urban Development, Govt of Tripura reviews work at LHP Agartala

Shri Abhishek Singh, Secretary, Urban Development, Government of Tripura, visited LHP Agartala site on 29th May 2023 to review the process of work and other site related issues.



At LHP Agartala, 1,000 houses are currently under construction at rapid pace and with precision. The Light Gauge Steel Frames structural components used on site are made to exact specifications, produces little waste during construction resulting in reduced residues of materials and has positive environmental effects. The technology also helps in speeding up construction activities.

Delegation from Uganda visits MoHUA

On 24th May 2023, MoHUA hosted a delegation from Republic of Uganda who visited India for a Study tour to understand Best Practices in India in Housing Sector & Legal, Institutional Framework of the Real Estate Sector. Smt Bindu Sreedathan, Deputy Director General, MoHUA and Shri RK Gautam, Director, MoHUA shared a presentation before the delegation to give them an insight into PMAY-U.



The delegation was briefed about implementation of PMAY-U, its different components, how technology is being used to transform urban housing sector through LHPs, DHPs under GHTC-India and other features which have made the Scheme successful in giving pucca homes to people in

urban areas. The concept of Affordable Rental Housing Complexes (ARHCs) of providing affordable rental spaces in cities to working migrants was also introduced to the members.

Welcoming LHP beneficiaries to their dream homes!

"Our dream home is taking shape! We are grateful to have a home under this project..."

Affordable homes under Light House Projects are becoming a reality in Lucknow and the beneficiaries could not be more excited! Beneficiaries of this housing project are welcomed at different locations to witness the progress. They interact with officials and provide their suggestions.

Under GHTC India, LHPs are revolutionising construction sector. Use of innovative technologies and advanced techniques have accelerated construction process, making liveable homes a reality in less time.



Round-up of Climate Smart Buildings activities held in May 2023

i) Awareness on innovative construction technologies

Climate Smart Building (CSB) Cell, Agartala played host to an enlightening sensitisation initiative at LHP site for showcasing innovative construction technologies. During the session, Dr. Winfried Damm, Cluster Head – IGEN along with GIZ Team, focused on two cutting-edge advancements: Light Gauge Steel Structure and Thermal Comfort. This initiative marks a significant step towards embracing modern construction techniques and highlights the growing importance of sustainability and efficiency in the industry. Team reviewed the CSB activities and live lab experiment progress at the site.



ii) Thermal Performance analysis of LHP Ranchi and Indore

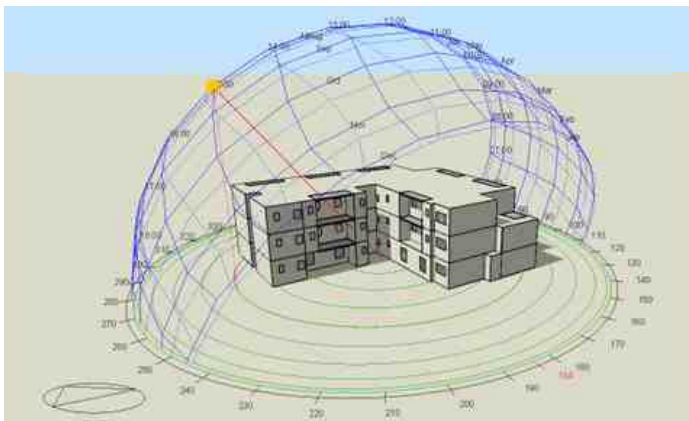


Like the other LHPs, with the help of Temperature & Humidity Sensors and LUX meter, CSB Cell is doing onsite temperature monitoring and LUX level measurements. Sensors are installed at flats and temperature recording is being done for scheduled time periods at Indore and Ranchi. The initiatives are to undertake the living lab experiments in these two LHPs and understand the performance of the LHP with respect to thermal comfort criteria.



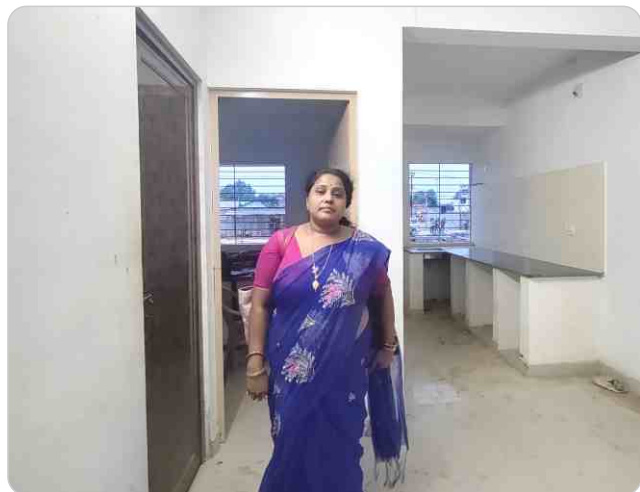
iii) Thermal Performance analysis of DHP project

The study of thermal comfort analysis and ENS compliance of the Demonstration Housing Project in Dimapur, Nagaland, utilises



advanced simulation software to assess and optimise the thermal performance of the buildings. Using sophisticated modelling techniques, the study simulates various parameters such as indoor air temperature, humidity levels and air movement to evaluate the thermal comfort conditions within the housing units. The simulation software enables to analyse different design strategies, building materials, and HVAC system configurations, helping them make informed decisions to enhance thermal comfort while meeting ENS guidelines. By leveraging these simulation tools, the study aims to identify potential thermal discomfort areas and propose efficient solutions to improve the overall comfort levels for future residents. This approach not only ensures compliance with energy efficiency standards but also contributes to creating sustainable and liveable housing in Dimapur, setting a precedent for other similar projects in the region.

Light House Projects: Making a difference!



“Getting a flat at the Light House Project in Agartala has filled my heart with immeasurable joy and gratitude. I am immensely thankful to the government for providing me with this wonderful opportunity. This beautiful home is not just a shelter but a symbol of hope, security & a brighter future for my family. I will forever cherish this gift and strive to make the best use of it. The Light House Project has truly brought light into our lives, and I will be eternally grateful for this life-changing blessing.”

- Sandhya Debnath, LHP Agartala Beneficiary

“It's a nice flat in reasonable budget by the Government. The bedroom, living room and kitchen are very airy and bright with a balcony overlooking the Jharkhand Vidhan Sabha. Now we are eagerly waiting to shift to our new flat.”

-Family members of Pankaj Kumar, LHP Ranchi Beneficiary



“हमारे सपने के घर के लिए आपका आभार। आपके अद्भुत समर्थन और लाइट हाउस प्रोजेक्ट के माध्यम से हमारे जिंदगी को सशक्त बनाने के लिए हमें गर्व है। आपके नेतृत्व और निरंतर प्रयासों ने हमारे जीवन में वास्तविक परिवर्तन किया है।”

- हेमलता माहेश्वरी, एलएचपी इंदौर की लाभार्थी

“बहुत-बहुत धन्यवाद प्रधानमंत्री जी, आपने हमारे लिए बुनियादी सुविधाओं के साथ किफायती आवास बनवाए हैं।”

-अमन सिंह चौहान, एलएचपी इंदौर के लाभार्थी



PROGRESS OF LIGHT HOUSE PROJECTS AS ON MAY 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	Finishing work in progress in 5, 6, 7, & 8 blocks
Sample Unit	Completed
Infrastructure Work	Community Centre, Road work, underground tank, STP & Sewer line works and boundary wall work 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	• Block A1 (Part of Block A), Block C & D - Completed • Remaining Blocks (A2 & B) - In progress up to 10 th floor level
SIP Wall Form work	• Block A1, Block C & D - Completed (total 624 DUs) • Remaining Blocks (A2 & B) - Completed upto 7 th Floor (A-2) & in Progress at 9 th floor level (B) along with Electrical & Plumbing work (Total 248 DUs)
Shear Wall Work (Staircase & Lift well)	• Block A1, Block C & D - Completed • Remaining Blocks (A2 & B) - In progress up to 12 th floor level
Social Infrastructure	Community Centre & Commercial Block – Structural work completed & the finishing work is in progress.
Infrastructure Work	• Underground Water Tank- Civil work completed. • Boundary wall- About 98% completed • STP- RCC work is near completion. • Rain water harvesting Pits:- Completed (5 Nos.) • Road Work – Work in Progress • Main Gate- Work in Progress • Garden Work – Work in Progress • Electrical Substation – Plinth LVL Completed

PROGRESS OF LIGHT HOUSE PROJECTS AS ON MAY 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)	In the casting yard 9832 numbers of Modules/ different components have been produced out of total requirement of 10,784 number of components
Foundation work	The Raft & Grade slabs of all 7 building blocks have been completed.
Superstructure	Block wise status of erection of Modules / building components ; <ul style="list-style-type: none"> • Blocks (1,2,6 & 7) - All 8 Floors completed • Block 3 – 6th floor is in progress • Block 4 – 3rd floor is in progress • Block 5 – 4th floor is in progress
Infrastructure work	Pre-cast boundary wall – About 56% of total length completed. STP – About 40% work is in progress. UGWT – About 40% work is in progress.

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 & D Blocks is in progress.
Superstructure	A, B, C, E, F & G Block is in progress



Social Media Corner



Housing For All @PMAYUrban · May 25
 Bird's-eye view of #LightHouseProject Ranchi.

Have a closer look at the housing project which has taken a concrete shape in a beautiful way. The project, once complete, will benefit 1,008 families by providing them with affordable, comfortable & disaster-resilient safe houses.



Pradhan Mantri Awas Yojana - Urban, Government of India
 22 May at 12:42

The #LGSF (Light Gauge Steel Frames) structural components used at #LightHouseProject Agartala are made to exact specifications, produces little waste during construction resulting in reduced residues of materials & has positive environmental effects. The technology also helps in speeding up construction activities.

At #LHPAgartala, 1,000 houses are currently in the making at rapid pace & with precision to ensure the families get their dream homes at the earliest.

#HousingForAll #PMAYUrban #GHTCIndia #LightHouseProjects
 #TransformingUrbanLandscape #TransformingLives #ConstructionTechnology #AffordableHousing #LHPs



pmay_urban Read the recent edition of #LightHouseProject E-Newsletter with details of visits & meetings held to monitor progress of #LHPs, round-up of trainings, activities hosted for #Technopriya & know what #LHP beneficiaries have to say about their upcoming dream homes.

Click here: https://ghtc-india.gov.in/Content/pdf/newsletter/e_newsletter_LHP_27.pdf

#HousingForAll #PMAYUrban #GHTCIndia #LightHouseProjects #TransformingUrbanLandscape #TransformingLives #DeliveringSmiles #DeliveringHomes #G20India

17 likes
 Add a comment...

Pradhan Mantri Awas Yojana - Urban, Government of India
 24 May at 13:07

"Our dream home is taking shape! We are grateful to have a home under star project."

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Every week, #LHPs honour welcomes its beneficiaries, an site who come to witness the progress. They interact with officials & provide their suggestions.

Under #LHPs, #LHPs are revolutionizing construction sector. Use of #Innovative technologies & advanced techniques have accelerated construction process, making #Affordable homes a reality in less time.

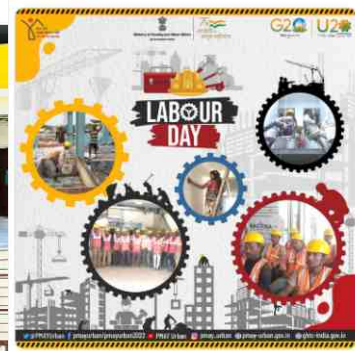
#HousingForAll #HousingForAll #LightHouseProjects #LHPs #InnovativeTechnology #TransformingUrbanLandscape #TransformingLives #DeliveringSmiles #DeliveringHomes #G20India



Housing For All @PMAYUrban

It's the day to salute & recognise the efforts, hard work & dedication of the labour force contributing significantly in the making of an #AatmanirbharBharat.

#InternationalLabourDay2023 #InternationalLabourDay #LabourDay #LabourDay2023



Housing For All @PMAYUrban · May 24
 Today, @MoHUA_India hosted a delegation from Uganda who is visiting India for Study tour to understand best practices in India in #Housing Sector & legal, institutional framework of the #RealEstate Sector.

#HousingForAll



Housing For All @PMAYUrban · May 24
 Through presentations, they were given an insight into #PMAYUrban & #RERA by officials of Ministry. The delegation was briefed about implementation of PMAY-U, its different components, how technology is being used to transform #urbanhousing sector.

