

E-Newsletter-Vol - XVII

LIGHT HOUSE PROJECTS

June 25, 2022, New Delhi

“I would like to congratulate all those who will be getting houses as a part of the historic Chennai Light House Project under the PM-Awas Yojana. This has been a very satisfying project for us. We had started a global challenge to get the best practices involved in making homes that are affordable, durable and environment friendly. In record time, the first such Light House Project has been realised and I am glad it is in Chennai.”

- Hon'ble Prime Minister
on 26th May 2022
during inauguration of LHP Chennai



7th Anniversary to Commemorate Launch of Pradhan Mantri Awas Yojana-Urban Celebrated by MoHUA

Pradhan Mantri Awas Yojana-Urban (PMAY-U) completed seven years on 25th June 2015. On the momentous occasion, Hon'ble Union Minister for Housing & Urban Affairs, Shri Hardeep Singh Puri virtually laid the foundation stone for Demonstration Housing Project (DHP) at Dimapur, Nagaland. The project comprises of 40 units in G+2 specification and will be built using Prefabricated Sandwich Panel System-EPS Cement Sandwich Panels with steel structure. It will be equipped with all basic and adequate social infrastructure and will be used as a working women's hostel.



To mark the 7 years of PMAY-U, an event was organised during 62nd Central Sanctioning and Monitoring Committee (CSMC) meeting on 24th June 2022 at the Ministry which was chaired by Shri Manoj Joshi, Secretary, Ministry of Housing and Urban Affairs (MoHUA), and was attended by senior officials of the Ministry, Principal Secretaries of States/UTs, MDs of States/UTs and stakeholders from Central and State Governments.



The seventh anniversary celebrations highlighted the important initiatives implemented under PMAY-U Mission. A movie depicting the glorious 7 years journey of PMAY-U was showcased which briefed the about how the Mission is fulfilling the dream of a pucca house for millions of Indians. An e-Book encapsulating achievements of the Mission under was also released.

Over the years, various technological and reformative measures have been taken by the Ministry to transform the urban landscape of India. Six Light House Projects (LHPs) under Global Housing Technology Challenge India (GHTC-India) is one such initiative that is promoting globally available construction technologies that are sustainable, eco-friendly and disaster-resilient to enable a paradigm shift in affordable housing. They are located at Chennai, Rajkot, Indore, Lucknow, Ranchi and Agartala. The LHPs showcase the best of new-age alternate global technology in housing construction sector. The project in Chennai has been completed in all respects and was inaugurated by Hon'ble Prime Minister on 26th May 2022. LHPs in Rajkot, Indore, Lucknow, Ranchi and Agartala are currently in the making.



Secretary, MoHUA Reviews Progress of Light House Projects



On 22nd June 2022, a meeting was chaired by Shri Manoj Joshi, Secretary, MoHUA, to review work progress of Light House Projects at five locations, namely, Rajkot, Indore, Lucknow, Ranchi & Agartala. Shri Kuldeep Narayan, Joint Secretary & Mission Director, Housing For All, was present during the meeting along with other officers of

MoHUA & concerned officials from LHP construction agencies.

At the outset, Secretary, MoHUA was briefed about the work done at sites through a presentation, after which he evaluated state-wise progress and discussed issues pertaining to construction activities, expected timeline of completion of projects, among other things.

Regular meetings, site visits are constantly undertaken by Ministry officials to monitor progress of LHPs. Telecast of ongoing work at LHP sites is also streamed live for close monitoring.



Message from JS&MD (HFA) Shri Kuldip Narayan

This June, we completed 7 years of Pradhan Mantri Awas Yojana (Urban) and this incredible journey would not have been possible without the coming together of all States/UTs in the implementation of the programme. Our beneficiaries form the core of the Mission and on this occasion, I would also like to extend my gratitude to them for believing in PMAY-U and helping us build their dream homes.

Last month, we fulfilled our target of dedicating Light House Project Chennai to the beneficiaries and in some months from now, LHP Rajkot will be completed. The project in Chennai was an incredible achievement for all of us associated with it. LHP Chennai was completed in 12 months with all infrastructure in place. Rajkot, too, is on the verge of completion and will soon be handing over the houses to its beneficiaries. During the inauguration of LHP Chennai,

Hon'ble Prime Minister handed over the keys to some of the beneficiaries of the project and their smiles said it all!

First, Chennai set the records straight for other LHP agencies to expedite work at their respective sites for completion of projects. Now, Rajkot too will be set an example for other sites. LHPs have been both an ambitious and a challenging project for the Ministry. Work is being undergoing tirelessly at the sites and monitoring is also happening regularly.

Meanwhile, the idea to start LHP webinars and webcasting is also reaping the desired results. With each webinar, hundreds of Technograhis are learning about new-age technologies and we are hopeful, this would help in disseminating about the housing project. RACHNA too is going to places, quite literally. The trainings are being organised at different cities on a regular basis, thus promoting thermal comfort.

As I conclude, I would like to applaud everyone associated with the PMAY-U for their contribution in taking the Mission to new height each day.

JS&MD, HFA, Monitors Progress of Light House Project Rajkot

A review meeting to monitor progress of LHP Rajkot was held on 8th June 2022 under the chairmanship of Shri Kuldip Narayan, JS&MD, HFA. Shri RK Gautam, Director, MoHUA, and other officials of the HFA Division were also present for the meeting, along with officers from Gujarat Government and that of construction agency.

Detailed discussions regarding construction developments and completion of project were held during the meeting. At LHP Rajkot, close to 92% work has been completed and the project is nearing completion stage.

Rajkot will be the second LHP to be inaugurated in some months' time after Chennai. Once inaugurated, LHP Rajkot will be home to 1,144 families. The project is being constructed using 'Monolithic Concrete Construction using Tunnel Formwork' technology that originated from France.



Light House Projects of Rajkot

Construction Agency	M/s Malani Construction Co.
Technology Used	Monolithic Concrete Construction using Tunnel Formwork
No. of Houses	1,144
No. of Towers	11 (8+13)
Project Cost	₹ 118.90

Insight Into RACHNA Training Programme on Innovative Construction Technologies & Thermal Comfort in Affordable Housing



MoHUA came up with the concept of conducting training programmes and workshops by the name RACHNA with an aim to spread knowledge on Innovative Construction Technologies and Thermal Comfort in Affordable Housing. In the month of April, the first workshop under RACHNA was held and since then, similar such programmes have been hosted across the country.

RACHNA, which means Resilient, Affordable, Comfortable Housing with National Action, is a collaborative effort of MoHUA, Building Materials and Technology Promotion Council (BMTPC) and GIZ. The workshops are specifically designed for different group of stakeholders, including urban practitioners, Government



officials, architects, engineers, builders, students and construction workers. Domain experts are invited to talk about the importance of fundamentals of thermal comfort, building materials, methods of construction for affordable housing and technology.

RACHNA workshops have been held in different cities to disseminate knowledge about emerging construction technologies, thermal comfort and affordable housing.

In the series, vocational training #20 was held in Ranchi for construction labourers. 40 frontline construction workers, masons, contractors were trained on innovative housing technology concepts and were given a guided tour of the Ranchi LHP site.





Training #21, held in Bhubaneswar for Government officials, focused on innovative construction technology and thermal comfort in affordable housing. The training witnessed the presence of officers from Odisha Urban Housing Mission-AWAAS, Odisha State Housing Board, SDA Odisha, Odisha State Police Housing and Welfare Corporation (OPHWC), Bhubaneswar Smart City Limited.



Demonstration Housing Project (DHP) site at Ahmedabad turned host for #22 two-day training programme to disseminate about Innovative Construction Technologies being used at LHP Rajkot. The focus was to make construction workers aware about Tunnel Formwork Technology on site with an aim to upskill their expertise.

Trainings #24, #25, #26 and #27 were held in Jaipur, Indore, Agartala and Hyderabad respectively, for Government officials. All



the four events focussed on the topic of emerging construction technologies and thermal comfort and were specifically designed for Government officials based out of these locations.

The #28th edition of RACHNA training was a vocational one hosted in Bengaluru for construction workers and contractors on Innovative Construction Technologies and Best Construction Practices for masons.

In Bhubaneswar, training #29th was given on emerging construction technologies and thermal comfort to practitioners. The #30th training was organised at a university in Vadodara for architecture and civil engineering students, faculties and Technograhis, wherein they were briefed about Thermal Comfort and how to improve it. This was followed by a detailed session on new age innovative technologies used at Light House Projects.

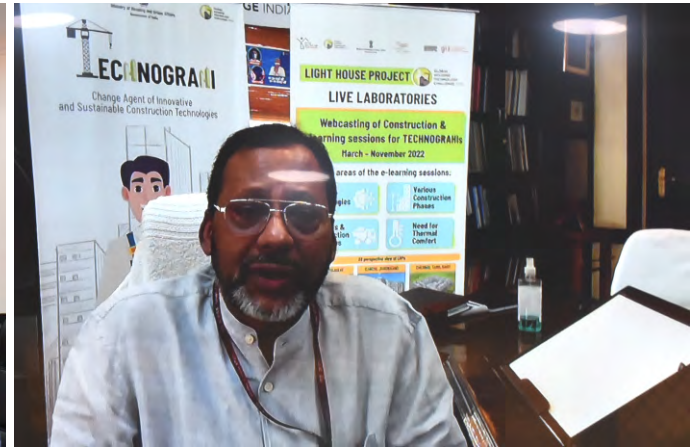
New Delhi's training on innovative construction technology and



thermal comfort in affordable housing marked the #31st programme in the series and was specifically designed for government officials. On the same topic, the #32nd training was hosted in Patna for practitioners.

The #33rd RACHNA programme was organised for government officials in Ranchi; the #34th and 35th were held for practitioners in Chennai and Lucknow, respectively. Meanwhile, the #36th training was hosted in New Delhi and the #37th was in Trivandrum for Government officials.

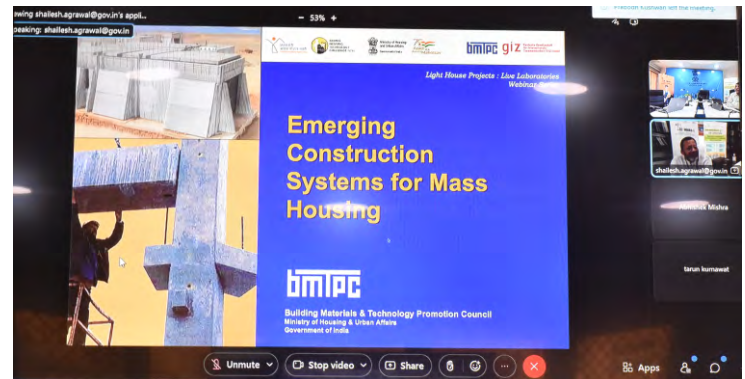
Lucknow Turns Host for Webinar on e-Learning and Webcasting of Light House Project for Technograhis



In March 2022, a series on 'e-Learning sessions and webcasting of LHP construction process' took off. As of now, nine such insightful sessions have been hosted by the Ministry for Technograhis and other stakeholders to disseminate knowledge about LHP technologies, construction processes and how they can be replicated in Indian context. Technical sessions are organised in collaboration with BMTPC and GIZ, wherein the nitty-gritties of LHPs and technology specification are explained in detail to participants through live photos, videos and presentations.

During each session, the focus is on one LHP site. The last webinar was held in at Lucknow LHP site. The webinars are serving as learning and knowledge sharing platforms for all stakeholders interested in learning about innovative construction technologies.

The webinars have been receiving a warm welcome by stakeholders involved in building construction sector. Today, close to 35,000 stakeholders have enrolled as Technograhis and are learning the use of LHP technologies to promote their replication.



Outcomes & Benefits of these webinar are to:

- Create wide scale knowledge dissemination
- Learn use of latest technology in housing construction for further replication in other housing or real estate projects
- Provide exposure to innovative construction technologies
- Promote Technograhis to act as catalysts to transform the urban landscape for new urban India to full vision of AatmaNirbhar Bharat

A Glimpse of Technograhis visit to LHP Indore



Regular site visits are organised at LHP sites for Technograhis and other stakeholders interested in learning about the new technologies and their usage. Recently on 13th June 2022, approximately 30 students of Shri Govindram Seksaria Institute of Technology and Science (SGSITS) visited Light House Project location in Indore. The group was briefed about 'Prefabricated Sandwich Panel System' technology which is being used for construction of 1,024 LHP houses in Indore. Such engaging sessions for Technograhis have been helping in enriching their knowledge about building construction technologies and the housing project.

PROGRESS OF LIGHT HOUSE PROJECTS AS ON JUNE 25, 2022

CHENNAI, Tamil Nadu

Technology Name: **Precast Concrete Construction System-Precast Components Assembled at Site**



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

Over all Progress **100%**

Project completed and Inaugurated by Hon'ble Prime Minister on 26th May 2022



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.**

Over all Progress **92%**

Activities	Progress
Foundation work	Completed in all 11 blocks
Superstructure work	Completed
Sample Unit	Completed
Masonry work	Completed -10 blocks In progress - 1 block
Internal Building work	Internal plaster is completed in 9 blocks. Kitchen slab, tile work and plumbing are in progress. Installation of lifts is also in progress.
Internal (Electrical work)	In progress - 9 blocks
Social Infrastructure	After completion of Structure work, the Internal finishing is in progress in Anganwadi cum Shopping Complex and Community centre.
External Physical Infrastructure	Infrastructure works including Sewer line, storm water drains, water supply works, boundary wall etc. are in progress

PROGRESS OF LIGHT HOUSE PROJECTS AS ON JUNE 25, 2022

INDORE, Madhya Pradesh

Technology Name: **Prefabricated Sandwich Panel System with Pre-engineered Steel Structural System**



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

Over all Progress 73%

Activities	Progress
Superstructure	
• PEB Work	55 Floors completed in 8 blocks
• Slab Work	51 Floors completed in 8 blocks
• EPS Panel work in Wall	27 Floors completed in 8 blocks
Sample Unit	Completed
Infrastructure Work	Boundary wall, Community Centre, Road work, underground tank, STP & Sewer line works are in progress.



LUCKNOW, Uttar Pradesh

Technology Name: **Stay In Place PVC Formwork with Pre-Engineered Steel Structural 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)**

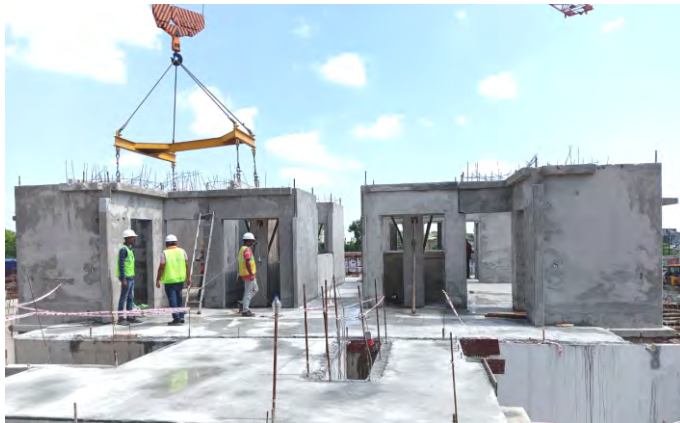
Over all Progress 62%

Activities	Progress
Superstructure work of Building Blocks	
Pre-Engineered Steel Building (PEB) Work	• PEB erection work is in progress upto 12 th Floor in Block A1 (Part of Block A) • PEB erection work is in progress upto 6 th Floor in other 2 Blocks (Block C & D)
Shear Wall Work (Staircase & Lift well)	• Still to 8 th Floor shear wall work is in progress in all 4 Blocks
Slab Work & SIP Wall Form work	• Casting of upto 2 nd floor slab completed in Block A1 and Block D and 1 st floor in Block C. The same is in progress on 3 rd & 4 th floor level in Block A1 • SIP Wall form installation & casting is in progress at 4 th & 5 th Floor level in Block A1, at 2 nd Floor level in Block D & completed at 1 st floor level in Block C along with Electrical & Plumbing work.
Sample Unit	Completed
Social Infrastructure	Community Centre & Commercial Block work completed upto Plinth level.
Infrastructure Work	• Underground Water Tank and STP foundation work is in progress • About 80% of the Boundary Wall work is completed



PROGRESS OF LIGHT HOUSE PROJECTS AS ON JUNE 25, 2022

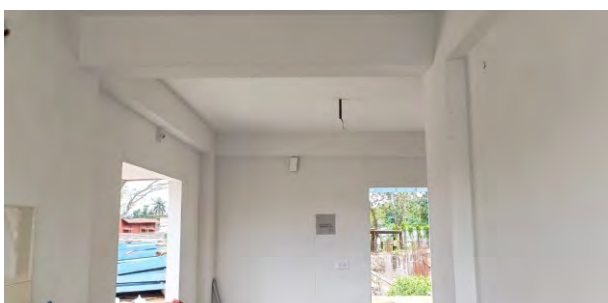
RANCHI, Jharkhand Technology Name: Precast Concrete Construction System – 3D Volumetric



No. of Dwelling Units	: 1008 Nos. (G+8)	Over all Progress 50%
No. of Block / Tower	: 7 Blocks	
Units in each Block / Tower	: 144 Nos.	

Activities	Progress
Casting Yard (Production of Components)	In the casting yard 644 numbers of different components have been produced out of total requirement of 10,153 number of components.
Foundation work	<ul style="list-style-type: none"> The Raft slab of all 7 building blocks has been completed The shear wall concrete casting have been completed in 6 Blocks & the shear wall reinforcement work is in progress in one remaining Block (No.7) The Grade Slab of building No.1,2,5 & 6 have been completed and is in progress in Block no. 3 & 4.
Superstructure	The erection of building components of Block No. 1 & 2 are in progress at 1st Floor level.
Infrastructure work	The pre-cast boundary wall installation is in progress and 303 m out of total 578 m length has been completed.

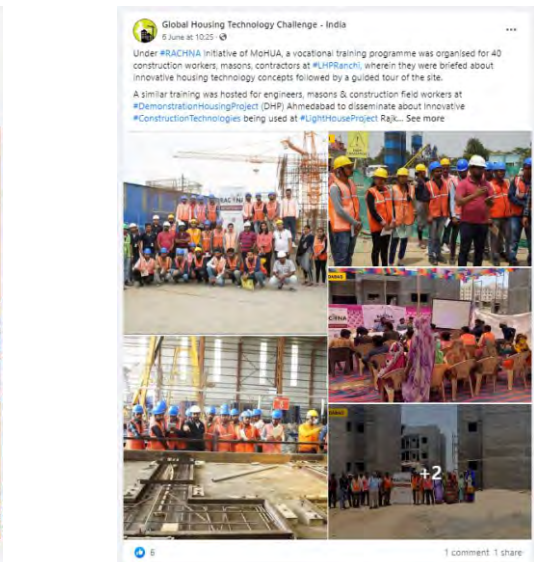
AGARTALA, Tripura Technology Name: Light Gauge Steel Framed (LGSF) System with Pre-engineered Steel Structural System



No. of Dwelling Units	: 1000 Nos. (G+6)	Over all Progress 45%
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	• Completed in 6 Blocks (A,B,C,E,F & G) & D Block is in Progress.
Excavation	• A, E, F & G Block completed & C-Block is in Progress.
Pile head breaking	• A, E, F & G Block completed & C-Block is in Progress.
PCC for foundation	• A, E, F & G Block completed.
Raft Foundation	• A, F & G Block completed & E-Block is in Progress.
Plinth Beam & Pedestrial Column Casting	• A, F & G Block is in Progress.
Superstructure	F block is in progress

Social Media Corner



Social Media Corner

GHTC INDIA
@GhtcIndia

Recently, senior government engineers & professionals in Ranchi, Hyderabad, Delhi & Bhubaneswar attended trainings designed to make them aware of innovative [#constructiontechnologies](#) & [#thermalcomfort](#) in affordable housing.

6:57 PM - Jun 16, 2022 - Twitter Web App

1 Like

GHTC INDIA
@GhtcIndia

Another programme was held for architecture & civil engineering students, faculties & [#Technograhis](#) at Parul University, Vadodara, Gujarat, wherein they were briefed about [#ThermalComfort](#) & new age innovative technologies used in [#LightHouseProjects](#) with live design challenge.

6:58 PM - Jun 16, 2022 - Twitter Web App

1 Like

GHTC INDIA
@GhtcIndia

[#RACHNA](#) initiative of [@MoHUA_India](#) has been disseminating knowledge about [#thermalcomfort](#) in [#affordablehousing](#) across the country through trainings customised for multiple stakeholders involved in housing [#construction](#) sector.

6:56 PM - Jun 16, 2022 - Twitter Web App

2 Likes

Pradhan Mantri Awas Yojana - Urban, Government of India
16 June at 16:45

[#RACHNA](#) initiative of [@MoHUA_India](#) has been disseminating knowledge about [#Thermalcomfort](#) in [#affordablehousing](#) across the country through trainings customised for multiple stakeholders involved in housing construction sector. Recently, senior government engineers & professionals in Ranchi, Hyderabad, Delhi & Bhubaneswar attended trainings designed to make them aware of innovative [#ConstructionTechnologies](#) & thermal comfort in affordable housing.

Another programme was held for arc... See more

Gopal Narayan Singh, Ashok Samant BJP and 43 others

4 shares

Pradhan Mantri Awas Yojana - Urban, Government of India
19 June at 14:19

[#LightHouseProjects](#): Fulfilling housing dreams with touch of technology.

At [#LHPAgartala](#), 1,000 houses are being constructed using 'Light Gauge Steel Frame System with Pre-Engineered Steel Structural System' technology. Here's a video to highlight the work being done.

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

29

4 comments 1 share

Housing For All
@PMAYUrban

Regular site visits are being organised at [#LightHouseProject](#) locations for [#Technograhis](#) to learn about new-age technologies & their application. On 13th June, students of a college in Indore visited LHP site in the city for an insightful experience.

7:57 PM - Jun 14, 2022 - Twitter Web App

8 Retweets 26 Likes

Housing For All
@PMAYUrban

Under [#RACHNA](#), 3 back-to-back training programmes were organised in Indore, Agartala & Bengaluru recently. The one in Indore was designed for senior Govt officials & professionals to disseminate about Innovative [#ConstructionTechnology](#), [#ThermalComfort](#) for [#AffordableHousing](#).

7:45 PM - Jun 14, 2022 - Twitter Web App

8 Retweets 18 Likes

Housing For All
@PMAYUrban

[#LightHouseProject](#) site turned host for the event in Agartala, which focussed on making building professionals aware about importance of [#ThermalComfort](#) in [#AffordableHousing](#).

7:45 PM - Jun 14, 2022 - Twitter Web App

5 Retweets 9 Likes

Housing For All
@PMAYUrban

Catch a glance of [#LightHouseProject](#) Lucknow through this brief video. New-age technologies from across the globe were selected to construct [#LHPs](#) at 6 locations across the country, Lucknow being one of them.

[#HousingForAll](#) [#GHTCIndia](#) [#AffordableHouses](#) [#ConstructionTechnology](#)

0:42 440 views

10:36 AM - Jun 13, 2022 - Twitter Web App

6 Retweets 1 Quote Tweet 13 Likes