

E-Newsletter-Vol-IV

LIGHT HOUSE PROJECTS

New Delhi

“These Light House Projects are now a perfect example of the country’s working practices. We also have to understand the big vision behind it. Under the Pradhan Mantri Awas Yojana, lakhs of houses have been made in the cities in a very short time. The construction work of lakhs of houses is also continuing. If we look at the houses built under PMAY-U, focus has been given on both innovation and implementation.”

- Hon’ble Prime Minister



LIGHT HOUSE PROJECTS: REVOLUTIONISING BUILDING CONSTRUCTION TECHNOLOGY IN INDIA

The Ministry of Housing and Urban Affairs (MoHUA) initiated Global Housing Technology-India (GHTC-India) in 2019 to get the best globally available innovative construction technologies through a challenge process. Under GHTC-India, the concept of Light House Projects (LHPs) were introduced. Six cities across India are hosting LHPs, which are model housing projects being constructed in Chennai (Tamil Nadu), Lucknow (Uttar Pradesh), Indore (Madhya Pradesh), Rajkot (Gujarat), Agartala (Tripura) and Ranchi (Jharkhand).

At these sites, six globally renowned and distinct technologies, shortlisted under GHTC-India, have been selected for construction of a minimum of 1,000 houses each with allied infrastructure. The LHPs shall also serve as Live Laboratories for on-site and off-site learning, facilitating transfer of technologies to the field and its further replication on ground.

Construction of LHPs, along with all necessary infrastructure, are expected to be completed within 12 months from the date of getting all statutory approvals. The project will pave the way for a new eco-system in the building construction technology landscape, where globally proven technologies will be adopted for cost-effective, environment-friendly and speedier construction.

An arrangement for site visits has also been planned by the Ministry to help Technograhis (the interested stakeholders) learn about the use of innovative technologies. Technograhis can visit the LHP sites or be part of off-site workshops/webinars, webcasting for technical know-how.

Owing to the COVID-19 pandemic, at every site location, we have ensured that the labourers, officials of construction agencies follow all mandatory protocols. Also, process is on to get the labourers vaccinated.



PROGRESS OF LIGHT HOUSE PROJECTS AS ON APRIL 30, 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
Foundation (Dwelling Units)	
Excavation, PCC & RCC Footing / Raft	Completed in 12 blocks
RCC Column upto to plinth level and Plinth beam	Completed in 8 blocks and in progress in 4 blocks
Superstructure Work	
Superstructure Work	Started in 7 blocks out of 12 blocks.



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
Foundation (Dwelling Units)	
Excavation & PCC	Completed in all 8 blocks
RCC Footing / Raft	Completed in 8 blocks
RCC Column upto plinth level	Completed in 8 blocks
Plinth beam	Completed in 6 blocks and in progress in 2 blocks
Infrastructure Work	
Boundary Wall	Foundation work in progress
Community Centre	Foundation work in progress



PROGRESS OF LIGHT HOUSE PROJECTS AS ON APRIL 30, 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)	
Excavation & PCC	Completed in all 4 Blocks
RCC Footing / Raft	Completed in 3 Blocks (A, B & C) and In progress in 1 Block (D)
Casting of column / shear wall	Completed in 3 Blocks (A, B & C) upto 1.45 mt of total 2.25 mt height and yet to start in 1 Block (D)
Backfilling of Earth	Partially completed upto 1.2 mt in 2 Blocks (B & C), In progress in 1 Block (A), Yet to start in 1 Block (D)



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 (Dwelling Units)	
Excavation & PCC	Completed in 9 blocks, and yet to be started in 2 blocks
RCC Footing / Raft	Completed in 5 blocks, In progress in 3 blocks and yet to be started in remaining 3 blocks



PROGRESS OF LIGHT HOUSE PROJECTS AS ON APRIL 30, 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	Piling work in two blocks in progress.
Excavation	
PCC	
RCC Footing/ Raft	



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
Statutory Approvals & Site Mobilization	
Status of statutory approvals & Site mobilization	Architectural drawings & other statutory approvals are in various stages. Site mobilization is in progress & the soil investigation work was stopped due to local protest.



SOCIAL MEDIA CORNER

Housing For All @PMAYUrban · May 11

Rajkot witnessed a massive change in the building construction front with the launch of #LightHouseProjects in January 2021.

Under LHPs, construction of 1,144 houses, using technology named 'Monolithic Concrete Construction using Tunnel Formwork', is being done.



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Housing For All @PMAYUrban · May 11

This technology ensures faster construction, durability of structure, precise finishing and is disaster resilient, cost-effective. #LHPs are model housing projects. Apart from Rajkot, LHPs are being built in Chennai, Lucknow, Indore, Ranchi and Agartala.

#HousingForAll

Housing For All @PMAYUrban · May 6

LHPs are located in Lucknow, Rajkot, Chennai, Indore, Agartala and Ranchi. The initiative will lead to a new era in the construction sector. To know more about these technologies, you can also visit the 6 LHP sites as #Technograhis soon.



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Housing For All @PMAYUrban

MoHUA initiated GHTC-India to identify & mainstream proven innovative construction technologies from across the globe. Under the initiative, six innovative technologies were chosen for construction of six #LightHouseProjects at six places across India.

#HousingForAll

Ministry of Housing and Urban Affairs
Government of India

Light House Projects : Live Laboratories

GLOBAL HOUSING TECHNOLOGY CHALLENGE (GHTC)

Innovative housing technologies at six LHP sites

Location	Technology
Indore	Prefabricated Sandwich Panel System
Rajkot	Monolithic Concrete Construction System using Tunnel Formwork
Chennai	Precast Concrete Construction System
Ranchi	Precast Concrete Construction System - 3D Volumetric
Agartala	Light Gauge Steel Structural System & Pre-engineered Steel Structural System
Lucknow	PVC Stay-in-Place Formwork System

Housing For All @PMAYUrban · May 6

#LightHouseProjects are being implemented as part of #GHTCIndia which reflects India's commitment towards affordable housing. Houses under #LHPs are being constructed using globally-proven, modern & innovative technologies to make disaster-resilient, affordable homes for people.



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Housing For All @PMAYUrban · May 11

On #NationalTechnologyDay, we celebrate the achievements of our technology experts, Innovators, other stakeholders who have contributed immensely towards building a new India.

#HousingForAll



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Housing For All @PMAYUrban

Replying to @PMAYUrban

For #LHPs, we have selected 6 globally renowned technologies to build affordable homes for people with allied infrastructure.

#NationalTechnologyDay2021 #HousingForAll



INDORE 1024
LUCKNOW 1500
RAJKOT 1144
AGARTALA 1000
CHENNAI 1192
RANCHI 1000

TOTAL AFFORDABLE HOUSES 6,368

Housing For All @PMAYUrban · May 11

Their innovative ideas, knowledge has helped PMAY-U undertake initiatives such as #GHTCIndia, #LightHouseProjects, #NAVARITHI, #ASHAININDIA, that have brought major technical transformation.

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Housing For All @PMAYUrban

On the occasion of #InternationalLaborDay, let's salute the efforts of those who are working day and night to provide #HousingForAll.

Ministry of Housing and Urban Affairs
Government of India

Pradhan Mantri Awas Yojana (Urban)

HAPPY LABOUR DAY



Houses Sanctioned 1.12 Crore
Houses Grounded 80 Lakh
Houses Completed 48 Lakh
Total Investment ₹ 7.35 Lakh Cr
Central Assistance ₹ 1.81 Lakh Cr