

E-Newsletter-Vol - XLI

LIGHT HOUSE PROJECTS

—• Promoting Innovative Construction Technologies •—

15th August 2024, New Delhi



“ A home brings dignity and an enhanced ability to fulfil one’s dreams.

With a record investment of ₹ 10 lakh crore, the Pradhan Mantri Awas Yojana-Urban 2.0 Scheme will benefit countless people and contribute to better cities.”

Hon'ble Prime Minister

Promotion of innovative construction technologies to get massive boost under Pradhan Mantri Awas Yojana - Urban 2.0

The Union Cabinet, chaired by Hon'ble Prime Minister Shri Narendra Modi, approved Pradhan Mantri Awas Yojana - Urban (PMAY-U) 2.0 Scheme on 9th August 2024. Under the Scheme, financial assistance will be provided to 1 crore urban poor and middle-class families to construct, purchase or rent a house at an affordable cost in urban areas in 5 years. Use of innovative construction technologies will also get massive boost under PMAY-U 2.0.

The Technology Sub-Mission (TSM) set up under PMAY-U shall continue to guide and facilitate States/Union Territories (UTs) and other stakeholders in adoption of modern, innovative and green technologies and building material for faster and quality construction of houses. Under PMAY-U 2.0, it will further be expanded into Technology and Innovation Sub-Mission (TISM) to support innovative practices and projects. It will also assist States/UTs/Cities in deploying disaster-resistant and environment-friendly technologies for climate smart buildings and resilient housing. TSM will also facilitate preparation and adoption of layout designs and building plans suitable for various geo-climatic zones.

TSM will coordinate with various regulatory and administrative bodies for mainstreaming and up- scaling the deployment of modern construction technologies and material in place of conventional construction. It will also coordinate with other agencies working in green and energy efficient technologies, climate changes.

Moreover under PMAY-U 2.0, Technology Innovation Grant (TIG) will facilitate adoption of innovative, sustainable, green and disaster resilient technologies as well as building materials for cost effective, faster and quality construction of affordable housing projects. The projects/houses built or constructed using resource efficient, climate responsive, disaster-resilient, eco-friendly and sustainable building materials, construction technologies and processes will be eligible to get a TIG.

Under PMAY-U, concerted efforts have been made to mainstream the use of modern, innovative and green building material and technologies for faster and quality construction. As a result of which, more than 15 lakh houses were constructed using these innovative technologies. Six Light House Projects (LHPs) and 14 Demonstration Housing Projects (DHPs) have been constructed across the country to showcase the field level implementation of these innovative construction systems.

LHPs were launched in six different cities of the country with an aim to promote new innovative construction technologies and so that they can be replicated in Indian context for an AatmaNirbhar Bharat. Five of the six LHPs at Chennai, Rajkot, Indore, Lucknow and Ranchi have already been dedicated to the Nation by Hon'ble Prime Minister while the LHP at Agartala is in advanced stage of construction.



Chennai - completed

Precast Concrete Construction System-Precast Components Assembled at Site



Rajkot - completed

Monolithic Concrete Construction using Tunnel Formwork



Indore - completed

Prefabricated Sandwich Panel System with Pre-engineered Steel Structural System



Lucknow - completed

Stay In Place PVC Formwork with Pre-Engineered Steel Structural System



Ranchi - completed

Precast Concrete Construction System -3D Volumetric



Agartala - nearing completion

Light Gauge Steel Framed (LGSF) System with Pre-engineered Steel Structural System

LHPs are also being promoted as live laboratories for transfer of technology to the field. Thousands of Technograhis have visited the sites to learn about the function of these technologies. Promotion of these technologies are also being done through online mediums by organising webinars and e-learning sessions.

NAVARITIH

'New, Affordable, Validated, Research Innovation Technologies for Indian Housing' - a certificate course on Innovative Construction Technologies in collaboration with SPA Delhi and BMTPC

RACHNA

'Resilient Affordable Comfortable Housing through National Action' - a series of training programs on Innovative Construction Technologies & Thermal Comfort for Affordable Housing



E-Learning sessions

Webinars / training sessions targeted for faculty and students, technical professionals, start-ups/ entrepreneurs/ innovators who are enrolled as "Technograhis"

Vulnerability Atlas

E-course in collaboration with SPA Delhi and BMTPC on awareness and understanding about natural hazards and their vulnerability (earthquakes, cyclones, landslides, floods, etc.)

Meanwhile, the construction of DHPs in different parts of the country aims to facilitate widespread dissemination and adoption of both existing proven, emerging and sustainable building materials and technologies in preference to the conventional and create enabling environment for the largescale adoption of such materials and technologies in different geo-climatic parts of the country, thus making housing more affordable and accessible. During the construction of demonstration houses, training of professionals and construction work force is also being undertaken.

A total of 14 DHPs have been identified across the country, out of which 11 are already constructed and inaugurated. In 2023, DHPs at Tirrupur (Tamil Nadu), Ayodhya (Uttar Pradesh) have been completed while the projects in Dimapur (Nagaland), Bhalwal (Jammu & Kashmir), Guwahati (Assam) are in various stages of construction. The projects belong to wide range of beneficiaries belonging to different field.

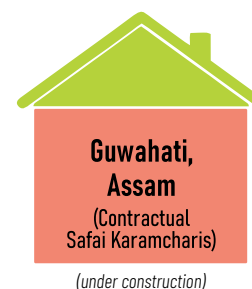
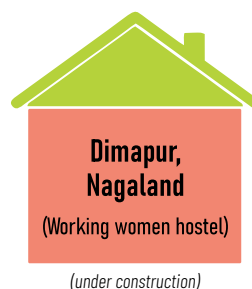
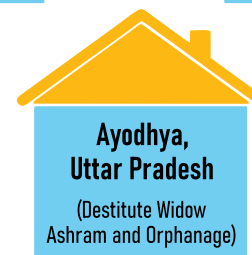
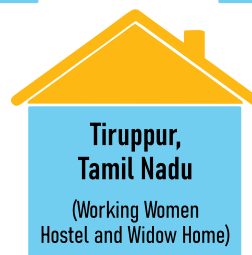
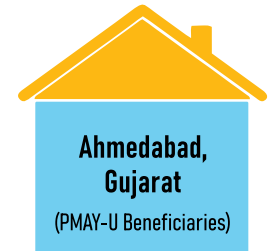
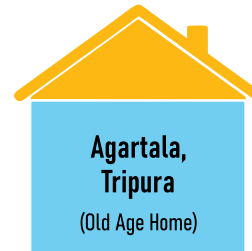
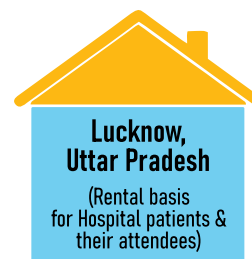
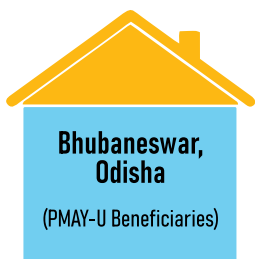
DHPs are allotted on rent for the social welfare like night shelters, working women hostels, old age homes, sports hostel, widow homes, orphanages, among others. At some places, DHPs have also been allotted to PMAY-U beneficiaries.



Tiruppur, Tamil Nadu



Ayodhya, Uttar Pradesh





Message from JS&MD (HFA) Shri Kuldip Narayan

Pradhan Mantri Awas Yojana – Urban 2.0 has been approved by the Union Cabinet for construction of 1 crore houses in urban areas. PMAY-U 2.0 is committed towards the welfare of all segments of the society and to strengthen the lives of crores of beneficiaries by providing them pucca houses, ensuring safety, security and dignity.

The implementation of PMAY-U for the last 9 years has laid a strong foundation of urban development and PMAY-U 2.0, will take it forward. The various initiatives under the Mission are steps that would help in making the vision of AatmaNirbhar Bharat a reality as for example, under LHPs and DHPs we are building model houses which are affordable, inclusive, energy-efficient, disaster-resilient and with these projects, the change from indigenous to new innovative technologies has come into practice. In the last few years, impetus has been given on adopting modern and innovative technologies to showcase their use for further mainstreaming in the country. Under PMAY-U 2.0 also, such practices to use innovative technologies for construction practices will be promoted at large scale.

Every year gives us different tasks and opportunities. As one team, we have worked together in taking the Mission to new heights along with widespread promotion of innovative construction technologies. Let us keep doing the best and transform the lives of people.

Self-defence training camp organised at LHP Chennai



A self-defence training campaign was co-hosted by Tamil Nadu Urban Habitat Development Board (TNUHDB) for beneficiaries of Light House Project (LHP) and adjacent Pradhan Mantri Awas Yojana – Urban project in Chennai. The main participants were school students, especially women, to ensure their safety and security. Through the self-defence training, the girls were taught techniques to protect themselves in times of need.

Our tenement, our responsibility



“*Nam Kudiyiruppu, Nam Poruppu*” or “Our Tenements, Our Responsibility” is implemented by Tamil Nadu Urban Habitat Development Board (TNUHDB) to facilitate formation of Residents Welfare Associations (RWAs), the body which looks after the maintenance of housing society, manages infrastructure facilities and safeguards the rights of residents. In Tamil Nadu, RWAs have been formed in the tenements by the TNUHDB and registered under Tamil Nadu Co-operative Society Act 1975.

In LHP Chennai, RWA has also been formed. The association conducts various events inside the premises, maintains tenements, looks after periodical renovation of the tenements, provides additional infrastructure as requested by the residents of the tenements, maintains the common property resources among others.

LHP Chennai has 1,152 houses along with all basic and civic infrastructure for ease of families living inside the premises.

Ghar hua apna, pura hua sapna

With completion of these housing projects, thousands of families have got access to better quality of life, health, education and livelihood opportunities. Read what some of the homeowners have to say. These families witnessed their transformation journey of housing dreams coming true.

“Owning a home has brought about a profound transformation in our lives. Our children now have a permanent place to call home. This stability has had a positive impact on their education and overall well-being. Life was a continuous struggle. Although we worked hard, the dream of owning a home seemed far-fetched. Our dream of having a pucca house got fulfilled through LHPs. Our standard of living has improved since moving into our new house. We can now focus on improving our quality of life rather than just surviving.”

- Vaghela Mahendra R, beneficiary of LHP Rajkot



“For years, I lived in a rented house. As a widow, life was particularly challenging. The constant worry of rent, the instability of moving from one place to another and the uncertainty of our living conditions made every day difficult. However, our lives took a turn for the better when we were got a house under LHP. The security of owning a home has brought us immense peace and stability. Now, I have a place where I can build new memories, where I feel safe and secure. This house is not just a structure of bricks and mortar, it is a symbol of hope and a testament to the supportive policies of our government.”

- Kaneriya Padmaben R., beneficiary of LHP Rajkot

“I am physically-disabled and a widow. The death of my husband made life difficult to lead and the passing away of my married daughter added to my miseries. Me, my son who is partially disabled and my daughter's children lived together in a rented house. Since I had to no option but to earn a livelihood, I used to be away from family for hours. Despite the hard work, the income I made was meagre. As a God's blessing, I was provided a home at LHP Indore after which we are leading a comfortable life. I make agarbattis to sell in the market from the comfort of my home and the children also help me. I have got benefits of other Government schemes also. We have a secured roof over our heads, I don't have to pay any rent and the happiness of the children knows no bounds. I express my gratitude towards Hon'ble Prime Minister for providing us our dream home.”

- Usha Rathore, beneficiary of LHP Indore



Progress of Light House Project: Agartala, Tripura

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
Raft Foundation	Completed in all 6 Blocks & D block raft in progress.
Superstructure	A, C, E, F & G- Block is in Progress.
Shear walls (Lift, Staircase Shear walls)	A, E, F & G Block completed and C & B Block is in progress.
PEB Erection	A & F Block completed and E & G Block is in progress.
LGSF Fixing	A, E, F & G- Block is in progress.
Internal & External Cladding	A & F Block is in progress
Infill Concrete	A & F Block is in progress
Floor finishing	A & F Block is in progress
Infrastructure Work	Boundary wall and Social Infrastructure foundation work is in progress.



Social Media



A home brings dignity and an enhanced ability to fulfil one's dreams.

With a record investment of Rs. 10 lakh crore, the Pradhan Mantri Awas Yojana-Urban 2.0 Scheme will benefit countless people and contribute to better cities.

Cabinet Decision: 9th August, 2024

Pradhan Mantri Awas Yojana-Urban 2.0 Scheme

- Financial assistance will be provided to **One crore urban poor and middle-class families** in 5 years
- Investment of **Rs.10 lakh crore** and Government Subsidy of **2.30 lakh crore under PMAY-U 2.0**



No Citizen to be left behind!

The Union Cabinet, chaired by Hon'ble Prime Minister, approves Pradhan Mantri Awas Yojana - Urban 2.0 with an investment of ₹10 Lakh Crore. A total of 1 Crore houses will be constructed under the Scheme in urban areas of the country.

Smiles get bigger...

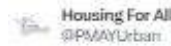
Pradhan Mantri Awas Yojana - Urban **2.0** launched



At #LightHouseProject Agartala, 1,000 houses are being constructed using the innovative construction technology named 'Light Gauge Steel Structural System with Pre-engineered Steel Structural System'. The project comprises of all basic & modern infrastructure facilities.

हमारे सपनों का घर हमें लाइट हाउस प्रोजेक्ट के तहत मिलेगा और इसके लिए मैं सरकार का धन्यवाद करती हूँ। अब मेरे परिवार के पास भी अपना पक्का घर होगा और एक स्थायी पता होगा।

—शारदा राजगुप्त, एलएचपी आगर्टला की लाभार्थी



Did you know?

#LightHouseProject Ranchi has been constructed using Precast Concrete Construction System - 3D Volumetric technology where various building elements like toilet, floors, walls, stairs were manufactured in casting yard & assembled at site like Lego Blocks.

LIGHT HOUSE PROJECT RANCHI, JHARKHAND

TECHNOLOGY
PRECAST CONCRETE CONSTRUCTION SYSTEM - 3D VOLUMETRIC

IN LHP RANCHI, VARIOUS BUILDING ELEMENTS WERE MANUFACTURED IN CASTING YARD & ASSEMBLED AT SITE LIKE LEGO-BLOCKS

Infographics

LIGHT HOUSE PROJECT RANCHI
Jharkhand

1,008 houses built using
Precast Concrete Construction System - 3D Volumetric

@PMAYUrban | pmayurban/pmayurban2022 | PMAY Urban | pmay_urban | pmay-urban.gov.in | ghc-india.gov.in

LIGHT HOUSE PROJECT LUCKNOW
Uttar Pradesh

1,040 houses built using Stay In Place PVC Formwork with Pre-Engineered Steel Structural System

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“मेरे और मेरे परिवार के लिए नया घर पाना बहुत महत्वपूर्ण था। यह न केवल हमारे जीवन की आवश्यकता है बल्कि यह समाज में हमें एक पहचान भी देता है। मैं हर दिन आभारी हूँ कि हमें इस परियोजना का लाभ मिला।”

-श्री विभव प्रसाद, साइट हाउस प्रोजेक्ट लखनऊ के लाभार्थी

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LIGHT HOUSE PROJECT INDORE, MADHYA PRADESH

GLOBAL HOUSING TECHNOLOGY CHALLENGE INDIA

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LIGHT HOUSE PROJECT RANCHI, JHARKHAND

Kitchen, Bedroom, Hall, Corridor, Park

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LIGHT HOUSE PROJECT RANCHI, JHARKHAND

Kitchen, Entrance, Bedroom, Community Centre, Shopping Centre

@PMAYUrban | pmayurban/pmayurban2022 | PMAY Urban | pmay_urban | pmay-urban.gov.in | ghc-india.gov.in

LIGHT HOUSE PROJECT INDORE, MADHYA PRADESH

GLOBAL HOUSING TECHNOLOGY CHALLENGE INDIA

No. of Houses 1,024

Technology
Prefabricated Sandwich Panel System with Pre-engineered Steel Structural System

@PMAYUrban | pmayurban/pmayurban2022 | PMAY Urban | pmay_urban | pmay-urban.gov.in | ghc-india.gov.in

“यह फ्लैट हमें बहुत अच्छा लगा है और हम इस फ्लैट में शिफ्ट होने के लिए उत्साहित हैं। सरकार ने गरीबों के लिए बहुत अच्छा काम किया है। हम कल्पना भी नहीं कर सकते थे कि हमारा खुद का घर होगा, पर केंद्र सरकार के लाइट हाउस प्रोजेक्ट के तहत हमको घर मिल रहा है और हम जल्दी अपने घर में शिफ्ट हो जाएंगे।”

-श्रीमती रेनु देवी, एलएचपी रांची की एक लाभार्थी

@PMAYUrban | pmayurban/pmayurban2022 | PMAY Urban | pmay_urban | pmay-urban.gov.in | ghc-india.gov.in