

E-Newsletter: Vol-VI

LIGHT HOUSE PROJECTS

July 5, 2021, New Delhi



Hon'ble Prime Minister Reviews Progress of Light House Projects via Drones

Hon'ble Prime Minister Shri Narendra Modi reviewed the progress of six Light House Projects (LHPs) being constructed across six locations in India via video conference on 3rd July 2021. The model housing project is an initiative under Global Housing Technology Challenge-India (GHTC-India) of Pradhan Mantri Awas Yojana (Urban). Shri Durga Shanker Mishra, Secretary, Ministry of Housing & Urban Affairs (MoHUA), Shri Amrit Abhijat, Joint Secretary & Mission Director (JS&MD), Housing for All (HFA), and senior officials from the Central and State governments were also present at the review meeting.

The Hon'ble Prime Minister was briefed about the project and technology being used at each LHP site through a presentation after which the review was done via drones. Six short videos of the production facility/casting yards of the building components, where the manufacturing units are located, were also shown at the meeting.

LHPs are located at Chennai (Tamil Nadu), Lucknow (Uttar Pradesh), Rajkot (Gujarat), Indore (Madhya Pradesh), Agartala (Tripura) and Ranchi (Jharkhand). The foundation stones of the six projects were laid by Hon'ble Prime Minister on 1st January 2021. LHP at Chennai uses 'Precast Concrete Construction System-Precast Components Assembled at Site'. The one at Lucknow uses 'Stay-In-Place PVC Formwork with Pre-Engineered Steel Structural System'; 'Monolithic Concrete Construction using Tunnel Formwork' is the technology being used for construction at Rajkot; at Indore, 'Prefabricated Sandwich Panel System with Pre-engineered Steel Structural System' is being used; 'Light Gauge Steel Framed (LGSF) System with Pre-engineered Steel Structural System' is being used at Agartala and at LHP Ranchi, 'Precast Concrete Construction System-3D Volumetric' has been adopted.

Work on the six LHP sites are in full swing. Use of these technologies will expedite the construction process and deliver quality, affordable and resilient homes to the poor.



JS&MD (HFA) Message Shri Amrit Abhijat

At PMAY(U), we are committed to providing pucca houses to all eligible beneficiaries and a dignified life. The Mission recently completed six years of its implementation and with this, we also achieved the milestone of constructing 50 Lakh houses and delivering it to our beneficiaries. Efforts have always been on catering to the ever-growing housing needs of the people and to bring new dimensions to the country's construction technology landscape.

We are well poised to complete the construction and delivery of houses within the Mission period and our ambitious Light House Projects (LHPs) is also taking a final shape. The review of the progress of these LHPs was recently taken by Hon'ble Prime Minister. The agility and eye for details of Hon'ble Prime Minister has constantly inspired us to work towards our goal and continues to do so.

As we ushered into the New Year, our efforts towards 'Housing for All' goal found a new momentum as the Hon'ble Prime Minister laid the foundation stone for LHPs across six locations in the country. Since then, work at the LHP sites are in full swing, except for the one at Ranchi, which was delayed due to some dispute. However, we are positive that the construction work will be completed within the stipulated time and affordable, comfortable houses will be delivered to the beneficiaries.

Our Technograhi campaign is also evincing enthusiastic response from people, mostly from students and technical professionals. The site visits are expected to begin soon, but till then, we are engaging the Technograhis through the E-module.

A pucca house transforms the lives of people in every possible way and we are scripting history everyday by leading the way in bringing about this change.

Launch of E-course for Technograhis by Secretary, MoHUA

Shri Durga Shanker Mishra, Secretary, MoHUA, launched an E-course for Technograhis on 8th June 2021, comprising learning tools on innovative construction being used at six Light House Project (LHPs) sites. The LHPs are being promoted as Live Laboratories for on-site and off-site learning. Therefore, an enrolment module was launched for all stakeholders interested in learning the use of innovative technologies through site visits and off-site workshops/webinars webcasting, mentoring on technical know-how module, etc.



To encourage technology-based construction practices, MoHUA initiated LHPs. The six innovative technologies are being used to construct about 1,000 houses each with allied infrastructure at every location. These technologies were shortlisted under GHTC-India.

The E-course has been divided into eight parts to cover different aspects of new and innovative technologies being used at LHP sites for learning and information dissemination. It also allows Technograhis to take a virtual tour of the six LHP sites and learn implementation on ground of the technologies.

Construction of the six projects, along with all necessary infrastructure, will be completed within 12 months from the date of getting all statutory approvals. LHPs reflect India's commitment towards affordable housing.

1,144 houses under LHP allotted in Rajkot

Hon'ble Chief Minister of Gujarat, Shri Vijay Rupani, has allotted 1,144 flats under Light House Project in Rajkot. In Rajkot, 'Monolithic Concrete Construction using Tunnel Formwork', a globally innovative technology, is being used for construction. The technology ensures rapid construction, durability, low maintenance, is also resource-efficient and disaster-resilient.



Scan to Enrol as
TECHNOGRAHI

Project Monitoring Committee Meeting

The 4th Project Monitoring Committee (PMC) meeting was held on 9th June 2021 under the chairmanship of Shri Durga Shanker Mishra, Secretary, MoHUA, to review the progress of Light House Projects (LHPs) at six locations. Representatives of the six States Governments, where LHPs are being constructed, namely Tripura (Agartala), Jharkhand (Ranchi), Madhya Pradesh (Indore), Uttar Pradesh (Lucknow), Gujarat (Rajkot) and Tamil Nadu (Chennai), concerned Urban Local Bodies (ULBs), construction agencies and officials of BMTPC, NAREDCO, IIT Indore, IIT Kanpur, IIT Madras attended the meeting.

While presenting a status of the ongoing construction activities at the LHP sites, Shri Amrit Abhijat, JS&MD (HFA), urged the construction agencies to adopt COVID-19 appropriate behaviour at the site and ensure all the labour and staff are vaccinated at the earliest. Subsequently, state-wise presentations, progress of LHPs were also reviewed in detail.



Secretary, MoHUA, directed the respective LHP States to complete the process of identification of beneficiaries at the earliest and urged technical institutes/planning schools to include the new technologies in their curriculum and encourage their students to visit the LHP sites.

The participants were also informed about the e-module that MoHUA has rolled out for Technograhis for imparting knowledge about the LHPs and their technologies. The IITs were requested to contribute for upgradation of these modules through audio-visual methods. Meanwhile, AICTE assured to communicate all the technical universities/colleges to include these new technologies in their curriculum and also to instruct their students to enrol as Technograhis to visit the LHP sites.

MoHUA had earlier coordinated with the Ministry of Education to direct IITs, NITs, Engineering/ Architecture/Planning Colleges and Technical Universities to develop course curriculum for Undergraduate/Post Graduate students on innovative construction technologies encompassing six broad categories identified/shortlisted under GHTC-India.

JS&MD, HFA, visits Lucknow LHP site

Shri Amrit Abhijat, Joint Secretary & Mission Director (JS&MD), Housing For All (HFA), paid a visit to the Light House Project site in Lucknow, Uttar Pradesh, on June 14th 2021. He reviewed the progress of the project and its implementation at various levels.



In Lucknow, construction of 1,040 comfortable and affordable houses (Ground + 13) are underway using globally renowned technology named 'PVC Stay-In-Place Formwork System' at Avadh Vihar area of the city.

LHPs have been introduced for familiarisation, adoption and adaption of the innovative technologies, materials and processes suited to Indian geo-climatic and other conditions so that they may be replicated for construction in other projects.

Information on these LHP technologies and their use are available at the recently-launched e-module available on GHTC-India website.



CURRENT PROGRESS OF LIGHT HOUSE PROJECTS

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 Work	Completed all 12 blocks
Superstructure Work	
Superstructure Work	Ground Floor work in progress-3 blocks First Floor work in progress-1 block Second Floor work in progress-4 blocks Third Floor work in progress-2 blocks Fourth Floor work in progress-1 block Fifth Floor work in progress-1 block
Sample unit	Completed



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 Work	Completed all 8 blocks
Superstructure work	Ground Floor Shear wall work in progress – 8 blocks Ground Floor Pre-engineered Steel (PEB) erection work in progress – 1 block
Infrastructure Work	Boundary wall, Community Centre & Solid Waste Management Plant work in progress



CURRENT PROGRESS OF LIGHT HOUSE PROJECTS

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)	
Raft, Column upto Plinth	Completed in all 4 Blocks
Plinth Beam & Anchor Bolts	Completed – 1 Block, In progress – 2 Blocks Yet to be taken up – 1 Block
Superstructure	
Superstructure work	Ground Floor shear wall work in progress – 1 Block Ground Floor Pre-engineered Steel (PEB) erection work in progress – 1 block



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	Yet to be taken up - 2 Blocks
RCC Footing / Raft	In progress-3 Blocks
RCC wall upto Plinth beam	Completed- 4 Blocks
Superstructure	
Superstructure work	Ground Floor work in progress – 1 Block First floor work in progress – 1 Block



CURRENT PROGRESS OF LIGHT HOUSE PROJECTS

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	In progress – 5 Blocks Yet to be taken up – 2 Blocks



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. The soil investigation work is completed & casting yard construction is under progress.



SOCIAL MEDIA CORNER



Hardeep Singh Puri @HardeepSPuri

PMAY-Urban, PM Modi Ji's visionary mission to provide Housing For All by 2022 is taking concrete shape & transforming lives. PM @narendramodi Ji reviewed the Lighthouse projects across the country via drones. Work is in progress on 6 lighthouse projects.



Hardeep Singh Puri @HardeepSPuri

Replying to @HardeepSPuri

The Lighthouse projects which use cutting edge innovative construction technologies to speed up large construction projects while being more resilient were launched by PM on 1 Jan 2021 to use new technologies to complete housing projects faster than traditional methods.



Durga Shanker Mishra @Secretary_MoHUA

Unique confluence of cutting-edge digital technologies during Hon'ble Prime Minister's review of Light House Projects (LHPs) construction sites today at Chennai, Rajkot, Indore, Lucknow, Ranchi & Agartala using panoramic live drone coverage! I am happy to share these videos.



10:57 AM · Jul 4, 2021 · Twitter Web App



Durga Shanker Mishra @Secretary_MoHUA

Replying to @Secretary_MoHUA

Happy to share that 13,200 students/ faculty/ practising engineers etc from private/ public sector have enrolled as 'Technograhis' from across the country to learn these new technologies. SPA Delhi & BMTPC have jointly designed an e-course with site visits.



Durga Shanker Mishra @Secretary_MoHUA

Replying to @Secretary_MoHUA

Accordingly Global Housing Technology Challenge-India (GHTC-I) was conceived & held in March 2019. With Hon'ble PM's vision to get the best technologies for future development, he gave us a road map to look into our future needs in the building sector.



Durga Shanker Mishra @Secretary_MoHUA

Replying to @Secretary_MoHUA

Foundation stones at all these 6 sites were laid by Hon'ble PM along with respective Chief Ministers on 1st January 2021. He appealed to private/ public sector entities to learn & adopt the new technologies in their future constructions.



Durga Shanker Mishra @Secretary_MoHUA

Replying to @Secretary_MoHUA

All 6 sites of upto 14 storeyed buildings will have 6,368 dwelling units & are earthquake disaster resilient. I am sharing the model of final finished buildings for each site, which will be ready in less than 12 months. All these are the technologies for our future development.



Housing For All @PMAYUrban

Here's your chance to become change agents to bring about technology transition in construction sector. Enrol yourself as #Technograhis & learn about use of innovative technologies being used in construction of #LightHouseProjects.

