

E-Newsletter-Vol-III

LIGHT HOUSE PROJECTS

New Delhi

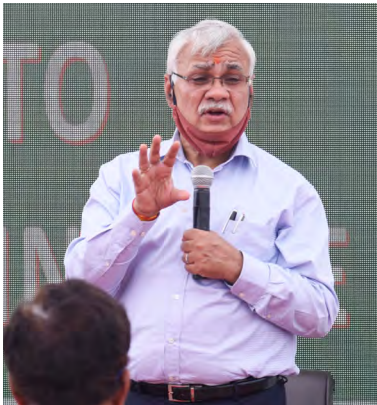
“It will be my wish that these six light houses are most useful to our new generation, and the students of technology and engineering. I would like all universities and colleges to study such important projects. You should visit and see how it is happening. How technology is used, how is the accounting done. It will become a very big scope of education in itself and, therefore, I invite all the young engineers and technicians in particular of the country to draw as much light as they can from these light houses and contribute their share.”

- Hon'ble Prime Minister



Secretary, MoHUA, visits Light House Project site in Indore, reviews progress work

Shri Durga Shanker Mishra, Secretary, Ministry of Housing & Urban Affairs (MoHUA), and Shri Amrit Abhijat, Joint Secretary & Mission Director (JS&MD), Housing For All (HFA), visited Light House Project site in Indore, Madhya Pradesh, to review the ongoing work at site.



'Prefabricated Sandwich Panel System', an already established technology in Japan and Australia, has been adopted to construct 1,024 houses under LHP in Indore, Madhya Pradesh. Produced in controlled factory environment, these panels replace the conventional brick & mortar walling system and bring speed, quality, resource efficiency, including water conservation in construction of houses. The 8-floor project with a total of eight towers is expected to be completed within a year.

Reviewing the progress work, Secretary, MoHUA, emphasised that like other LHPs, this project will act as learning sites for rest of India. The technology can be used for construction of commercial, residential or industrial building across the country.

Students, faculty members of IITs, NITs, other engineering colleges, 30 Technograhis also visited the Indore LHP site.

Indore is one among the five cities where LHPs are being constructed. The foundation stones for LHPs were laid by Hon'ble Prime Minister on January 1, 2021.



Indore,
Madhya Pradesh





JS&MD (HFA) Message

Shri Amrit Abhijat

PMAY(U) has been touching upon new heights since its inception in 2015. Various innovative measures have been taken over the years for the benefit of the people of India and much to our expectations, our efforts have always bore fruits. Now, as we come close to the Mission period - 'Housing For All' by 2022. On one hand, we are now focussing on declaring cities 'HFA Free', and on another, we have made sure to adopt and adapt to the futuristic technological innovations in the construction sector.

Globally-proven, innovative, environment-friendly, cost-effective, disaster-resilient construction technologies are being used to construct houses under PMAY(U). These technologies expedite the construction process and shed the old construction methods to make way for new beginnings.

We introduced GHTC-India in 2019 with an aim to bring technology revolution in India. Under which, Light House Projects (LHPs) were initiated. Six LHPs promote urban infrastructure development at a time when India is witnessing rapid urbanization. The housing project will cater to the ever-growing housing demands and will immensely help in building an 'AatmaNirbhar Bharat'.

In line with these initiatives, the concept of Technograhis has also been introduced by the Mission. Students of IITs/NITs/engineering colleges/planning and architecture colleges, their faculty members, technical professionals, Central/State/ULB officials, construction agencies/builders, entrepreneurs/innovators and other stakeholders can enrol themselves as Technograhis to visit LHP sites, being promoted as Live Laboratories, to learn about these technologies and become ambassadors of technology transition.

Efforts are on to fulfil Hon'ble Prime Minister's vision of 'Housing For All' by 2022. With providing houses to the eligible beneficiaries, we are also ensuring women empowerment – which is the very essence of the Mission.

Here's to that spirit!

Technograhis – All you need to know

The Ministry of Housing & Urban Affairs (MoHUA) has worked out a detailed strategy for promoting cross-learning and mainstreaming global innovative technologies used for construction of Light House Projects (LHPs) in Indian context. LHPs, under GHTC-India, are being constructed at six places across the country – Chennai (Tamil Nadu), Lucknow (Uttar Pradesh), Rajkot (Gujarat), Indore (Madhya Pradesh), Agartala (Tripura) and Ranchi (Jharkhand). These LHPs will serve as Live Laboratories for on-site and off-site learning, facilitating transfer of technologies to the field and its further replication, which includes planning, design, production of components, construction practices and testing for both faculty and students of engineering, other colleges, private/public sectors professional and other concerned stakeholders.

To help the interested stakeholders (Technograhis) learn about the use of innovative technologies in Light House Projects, a program for them has been launched by the Ministry. Technograhis can visit the LHP sites or be part of off-site workshops/webinars, webcasting for technical know-how.

Technograhis will be change agents to bring about technology transition in the construction sector and its adoption in the country. All concerned stakeholders can enrol themselves as Technograhis through a simple online process available at GHTC-India website.

The visits to the six LHP sites are scheduled to begin soon or when the projects reach up to the plinth level.



Free enrolment module available at -

<https://ghtc-india.gov.in/userhome/index>.

Over 3,300 people have enrolled as Technograhis so far. Have you? Technograhis can visit the LHP sites or get exposure to the projects through online mediums and adapt technologies as per the local needs. Come, let's build a New Urban India.



Scan to Enrol as
TECHNOGRAHI

PROJECT MONITORING COMMITTEE MEETING

The third meeting of Project Monitoring Committee (PMC) was held on March 17th 2021, under the chairmanship of Secretary, MoHUA, to review the status of the construction of Light House Projects at six cities. The meeting, hosted in a video conferencing mode, was attended by representatives of six State governments, namely Tamil Nadu, Uttar Pradesh, Madhya Pradesh, Gujarat, Tripura and Jharkhand; concerned Urban Local Bodies (ULBs); construction agencies of LHPs and other PMC members, including the representatives of BMTPC, CPWD, NAREDCO, CREDAI, IIT Indore, IIT Kanpur, IIT Madras and six ASHA-INDIA centres.

While presenting the current status of the LHP sites, JS&MD (HFA) emphasised on the completion of these projects within the specified timeline of 12 months. Subsequently, state-wise presentations, progress of LHPs were also reviewed in detail.

Further, Secretary, MoHUA, deliberated upon the online Enrolment Module for Technograhis under LHPs. The participants were informed that MoHUA has initiated an Online Enrolment Module for all stakeholders to register themselves to visit these pilot projects, learn the use of latest innovative technologies, innovate and adapt as per their local needs and contexts as Technograhis of new construction technologies.

Secretary, MoHUA, directed all PMC members and other participants, including NAREDCO, CREDAI, all State/UTs/ULBs/Urban authorities/PSUs/CPWD/NBCC/Central Ministries and other knowledge partners of GHTC-India to encourage their organisations/officers/students, etc., to enrol as Technograhis and witness the technology transition taking place in the country through LHPs.

Representatives of IITs reiterated their support in cross-learning, knowledge dissemination to promote learning on use of innovative technologies at six LHP sites. They assured about study visits of their students and undertaking research projects on innovative technologies being used in LHPs.

Light House Projects mean housing projects being constructed using shortlisted proven innovative technologies under GHTC-India, suitable to the diverse geo-climatic and hazard conditions of the region. Six LHPs, with minimum 1,000 houses each, are being constructed at six cities with allied infrastructure using six distinct technologies. LHPs will have demonstrative effect, wherein people from all sectors such as engineering, planning, architecture, academia, builders/developers, innovators, policy makers amongst others will be able to see and get to learn the use of innovative technologies on ground.

LHPs will promote urban infrastructure development for an 'AatmaNirbhar Bharat'. Construction of LHPs, along with all necessary infrastructure, will be completed within 12 months from the date of getting all statutory approvals.



MAKING NEW TECHNOLOGIES PART OF SYLLABUS

MoHUA has 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.

Also, IITs, NITs, relevant technical universities, skill development centres and other relevant agencies have been requested to conduct site visits for students and faculty members to witness the significant technology movement that will usher the world's best innovative construction technologies to get adapted, mainstreamed and scaled up in the wake of a Self-Reliant India addressing the need of 'Housing for All'.

Other Activities:

- Dynamic/updated web-portal: Showcases day-wise progress of LHPs on ground, live webcasting of construction processes
- Facilitating site visits of beneficiaries through State Governments

Technograhi Enrolment Form

PROGRESS OF LIGHT HOUSE PROJECTS AS ON MARCH, 2021

CHENNAI, Tamil Nadu

Technology Name: **Precast Concrete Construction System-Precast Components**



No. of Dwelling Units : **1,152 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 10 blocks, & In progress in balance 2 blocks
RCC Column upto to plinth level	Completed in 5 blocks, In progress in 4 blocks and yet to be started in balance 3 blocks.
Plinth beam	Completed in 3 blocks and yet to be started in balance 9 blocks.
Superstructure Work	
Superstructure Work	Started in 2 blocks

INDORE, Madhya Pradesh

Technology Name: **Prefabricated Sandwich Panel System**



No. of Dwelling Units : **1,024 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 6 blocks and In progress in balance 2 blocks
RCC Column upto plinth level	Completed in 4 blocks and In progress in balance 4 blocks
Infrastructure Work	
Boundary wall	Foundation work in progress
Community Centre	Foundation work in progress

LUCKNOW, Uttar Pradesh

Technology Name: **PVC Stay in Place Formwork System**



No. of Dwelling Units : **1,040 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 2 Blocks (B & C) and In progress in 2 Blocks(A & D)
Casting of column / shear wall	Progress in Block A & C and yet to be started in Block B & D

PROGRESS OF LIGHT HOUSE PROJECTS AS ON MARCH, 2021

RAJKOT, Gujarat

Technology Name: **Monolithic Concrete Construction using Tunnel Formwork**



No. of Dwelling Units : **1,144 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 7 blocks, In progress in 2 blocks and yet to be started in balance 2 blocks
RCC Footing / Raft	Completed in 5 blocks, In progress in 2 blocks and yet to be started in remaining 4 blocks

AGARTALA, Tripura

Technology Name: **Light Gauge Steel Structural System & Pre-Engineered Steel Structural System**



No. of Dwelling Units : **1,000 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	Site has been mobilized. The piling work has begun.
Excavation	
PCC	
RCC Footing / Raft	

RANGHI, Jharkhand

Technology Name: **Precast Concrete Construction – 3D Volumetric Construction**



No. of Dwelling Units : **1,008 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 is to start soon.

SOCIAL MEDIA CORNER

Durga Shanker Mishra @Secretary_MoHUA

During my visit of Indore, I reviewed the LightHouse Project on ground. It is being constructed as part of GHTC-India. Indore is one of the 6 sites among LHPs, whose foundations were laid by Hon'bl PM & respective Hon'ble CM 1 Jan'21. I was very happy to see progress at the site.



Amrit Abhijat @amritabhijat · Mar 26

Delighted to be part of the review meeting of #PMAYUrban Mission held under the chairmanship of Shri Durga Shanker Mishra, @Secretary_MoHUA at Ujjain, Madhya Pradesh. MP secured the second position in the Best Performing State category of PMAY(U) Awards 2019. #HousingForAll



Pradhan Mantri Awas Yojana(Urban) - Madhya Pradesh @ · Mar 26

Enrol yourself as a Technograhi today and learn about sustainable, eco-friendly, disaster-resilient, cost-effective & promote speedier construction technologies. To For more details, Visit - ghtc-india.gov.in #HousingForAll #Technograhi #GHTCIndia #PMAYUrbanMP #NewIndia



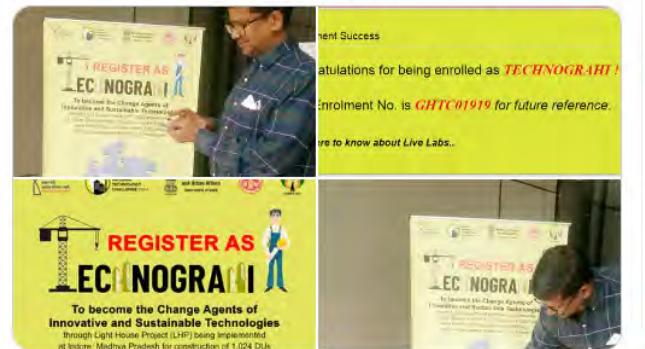
Pradhan Mantri Awas Yojana(Urban) - Madhya Pradesh @ · Mar 27

Secretary & JS, MoHUPA, GoI visited #LHPIndore reiterated that all Students of Civil Engineering, Architect & Planning must register as #TechnoGrahi to learn Innovative Construction Technology by means of Light House Project of Indore & provide light house effect in true sense...



Pradhan Mantri Awas Yojana(Urban) - Madhya Pradesh @ · Mar 19

Nikunj Srivastava Sir lead by example & has become a #TechnoGrahi by scanning barcode of Standee placed in Directorate, UAD, Bhopal. We hope all of you will also register as #TechnoGrahi to learn & promote latest Prefabricated Sandwich Panel System being implemented at #LHPIndore



Housing For All @PMAYUrban

Technograhis will get the opportunity to learn the use of innovative construction technologies at six LHP sites in real time basis. They will also get exposure to other housing projects with innovative technologies and materials in the LHP cities.

#HousingForAll



Housing For All @PMAYUrban

Globally proven technologies have been adopted for construction of six #LightHouseProjects at Chennai, Lucknow, Indore, Rajkot, Agartala and Ranchi.

LHPs, under #GHTCIndia, will create an enabling ecosystem in construction sector for #AatmaNirbharBharat.



Upcoming Events

- Site visits for Technograhis to all six LHP sites
- Commencement of fourth batch of NAVARITIH: Certificate Course on Innovative Construction Technologies from June 04, 2021