



Agartala, Tripura



Chennai, Tamil Nadu



Indore, Madhya Pradesh



Lucknow, Uttar Pradesh



Rajkot, Gujarat



Ranchi, Jharkhand



GLOBAL  
HOUSING  
TECHNOLOGY  
CHALLENGE INDIA

## Light House Projects : Live Laboratories

• ——— Release of ——— •

1

**LHP: Live  
Laboratory Online  
Enrollment Drive for  
Technograhis**

2

**LHP E- Newsletter  
- Volume I**

3

**Six LHP Booklets  
Site-wise**

by

**Secretary, Ministry of Housing and Urban Affairs**

**16<sup>th</sup> February 2021**  
(through video conferencing)





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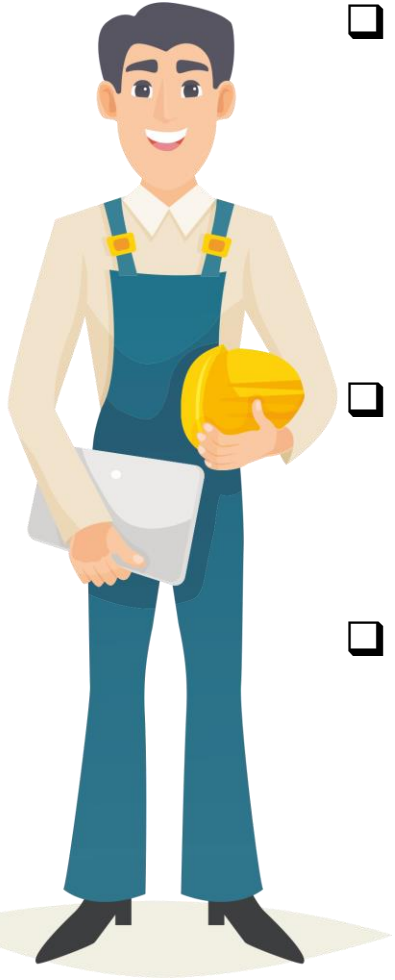
## Light House Projects

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*"I believe these six projects are really like light towers. These six light house projects would give a new direction to the housing construction in the country. These light house projects will be constructed through modern technology and innovative processes. This will reduce the construction time and prepare the more resilient, affordable and comfortable homes for the poor. In a way, these projects will be incubation centres and our planners, architects, engineers and students will be able to learn and experiment with new technology."*

*- Hon'ble Prime Minister*





- ❑ Technograhis are the **Change Agents** of innovative and sustainable technologies who will bring about technology transition in the construction sector for its adoption & replication in the country.
- ❑ They will act as **Catalysts to Transform The Urban Landscape** for the New Urban India to fulfil the vision of **AatmaNirbhar Bharat**.
- ❑ **Technograhis will be exposed to the innovative construction technologies** through
  - Onsite activities to learn different phases of use of innovative technologies in LHPs.
  - Offsite Workshops/ Webinars, Webcasting, Mentoring on Technical know-how/Module etc.

### **Target Audience:**

- ❖ **Faculty & Students** of IITs/ NITs/ Engineering colleges/ Planning & Architecture colleges
- ❖ **Technical Professionals** engaged in Private/ Public sectors
- ❖ **Elected Representatives**
- ❖ **Construction Agencies/Builders/ Developers**
- ❖ **Center/State Government/ULB officials**
- ❖ **Central/State PSUs**
- ❖ **Research Students**
- ❖ **Startups/innovators/Entrepreneurs**
- ❖ **Knowledge partners**
- ❖ **NGOs/CSOs**
- ❖ **Media**
- ❖ **Individuals** (Professions)
- ❖ **Other concerned stakeholders**



# TECHNOGRAHIS

## Online Enrolment Drive

### Light House Projects: Live Laboratories

- To encourage large scale citizen participation and create technical awareness, on-site learning, find ideas for solutions, soil your hands, experimentation and encouraging innovation
- **Online Enrolment Drive** for all stakeholders to register as **Technograhis**: LHP site visit to Learn, Explore, Adapt & Replicate

#### Objective:

To mainstream the globally identified proven innovative technologies under GHTC-India in Indian context.







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"In a way, these projects will be incubation centres and our planners, architects, engineers and students will be able to learn and experiment with new technology. I urge all such universities and all engineering colleges across the country that professors involved in this field, faculty and students should make groups of 10-15 people who should go to these six sites for a week and study it thoroughly. The people of our universities across the country should visit these pilot projects which are in a way incubators and study about the technology."

Hon'ble Prime Minister,  
01.01.2021



## LIGHT HOUSE PROJECTS : LIVE LABORATORIES

[Click to enrol](#)

Light House Projects (LHPs) being constructed at Agartala, Ranchi, Lucknow, Indore, Rajkot and Chennai are first of its kind in the country to demonstrate use of globally available proven innovative technologies in mass housing. These technologies are new to awareness for on-site learning, multistakeholders consultation, find ideas for solutions, learning by doing, experimentation and encouraging innovation, thereby mainstreaming the globally identified proven innovative technologies under GHTC-India in Indian context.





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# Light House Projects (LHPs) E-Newsletter (Vol-I)



- Construction of LHPs: Challenge mode within 12 months
- Capture the progress of phase-wise construction & best practices
- Promote healthy competition among LHP States & Construction Agencies
- Cross learning among all stakeholders





### Laying of Foundation Stone of six LHPs by Hon'ble Prime Minister on January 1, 2021



Hon'ble Prime Minister Shri Narendra Modi laid the foundation stone of Light House Projects (LHPs) on January 1, 2021, in six cities i.e. Indore (Madhya Pradesh), Rajkot (Gujarat), Chennai (Tamil Nadu), Ranchi (Jharkhand), Agartala (Tripura) and Lucknow (Uttar Pradesh) via video conferencing. The Hon'ble Governors, Hon'ble Chief Ministers of six states along with State Ministers joined the event from the LHP sites through video conference.

The LHPs are model housing projects comprising of nearly 1,000 houses at each location with allied services are being constructed for showcasing use of the best of new-age technologies, materials and processes in the construction sector.

The houses are being constructed using the innovative technologies shortlisted under GHTC-India suitable to the geo-climatic and hazard conditions of the region. LHPs will pave the way for a new eco-system where globally proven technologies will be adopted for cost effective, environment-friendly and speedier construction.

LHP in Indore will showcase 'Prefabricated Sandwich Panel System'. The one in Rajkot will be 'Monolithic Concrete

Construction using Tunnel Formwork', that originated in France. 'Precast Concrete Construction System' technology will be used in Chennai, that has come from Finland and USA. LHP in Ranchi is being constructed using the technology '3D Volumetric Precast Concrete Construction System' that originated in Germany. Each room will be separately built and then the entire structure will be added as the Lego Blocks toys. 'Structural Steel Frame with Light Gauge Steel Infill Panels' system from New Zealand will be used at Agartala. LHP in Lucknow will have a technology from Canada called 'PVC Stay in Place Formwork System'.

Hon'ble Prime Minister during the event emphasised that these projects will be incubation centres and the technical professionals, planners, architects, engineers, students and faculty of Engineering Colleges/Technical Universities should visit the site to learn and experiment with new construction technologies and document the whole learning experience.

These LHPs will serve as Live Laboratories for facilitating transfer of technology to the field and its further replication. This technology revolution will help fulfil Hon'ble Prime Minister's vision of 'Housing for All' by 2022.

## LHP E-Newsletter Volume I





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# Light House Projects (LHPs)

## Site Wise Booklets

LOCATION	TECHNOLOGY	PROPOSED HOUSES
INDORE	PREFABRICATED SANDWICH PANEL SYSTEM	1,024
RAJKOT	MONOLITHIC CONCRETE CONSTRUCTION SYSTEM	1,144
CHENNAI	PRECAST CONCRETE CONSTRUCTION SYSTEM-PRECAST COMPONENTS ASSEMBLED AT SITE	1,152
RANCHI	PRECAST CONCRETE CONSTRUCTION SYSTEM-3D PRE-CAST VOLUMETRIC	1,008
AGARTALA	LIGHT GAUGE STEEL STRUCTURAL SYSTEM & PRE-ENGINEERED STEEL STRUCTURAL SYSTEM	1,000
LUCKNOW	STAY IN-PLACE FORMWORK SYSTEM	1,040
TOTAL		6,368

- Structured information about each site, technical specifications with other details
- Guiding document for ***Technograhis***
- Information exchange and promotion of LHPs
- In-depth knowledge about phase-wise construction & best practices

## LIGHT HOUSE PROJECT AT AGARTALA, TRIPURA



## LIGHT HOUSE PROJECT AT CHENNAI, TAMIL NADU



## LIGHT HOUSE PROJECT AT INDORE, MADHYA PRADESH





## LIGHT HOUSE PROJECT AT LUCKNOW, UTTAR PRADESH



3D View of the Project

## LIGHT HOUSE PROJECT AT RAJKOT, GUJARAT



3D View of the Project

## LIGHT HOUSE PROJECT AT RANCHI, JHARKHAND



# Light House Projects: Live Laboratories



*Stay connected for live updates...*



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[PMAY Urban](https://www.youtube.com/PMAYUrban)





**Thanks**





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