







E-Newsletter-Vol - XIV LIGHT HOUSE PROJECTS

March 20, 2022, New Delhi

You are aware that today six Light House Projects are underway using new technology for affordable housing in six cities of the country. A meaningful and serious discussion is necessary for solutions on how to use this type of technology for houses in villages and for the construction projects taking place in our eco-sensitive zones.

> Hon'ble Prime Minister Post-Budget webinar, 23rd February 2022



Secretary, MoHUA visits Light House Project in Chennai

Shri Manoj Joshi, Secretary, Ministry of Housing & Urban Affairs (MoHUA), visited Light House Project (LHP) site in Chennai, Tamil Nadu on 20th March 2022 to inspect and review the progress work. Shri Joshi chaired a meeting with concerned construction agency officials and other stakeholders to know about the status of the housing project.

'Precast Concrete Construction System – Precast Components Assembled at Site', an already established modern technology from Finland and USA, has been selected to construct 1,152 flats. The technology reduces construction time, is resource-efficient, ensures durability, precision, quality and finish. Over 90% work of LHP Chennai has been done and identification and shortlisting of beneficiaries for the project is also complete.





Regular meetings, LHP site visits are undertaken by Ministry officials at all levels for smooth implementation and monitoring of the housing project. Progress is also monitored through live telecast of work undergoing at all LHP sites.

Chennai, Indore, Rajkot, Lucknow, Ranchi and Agartala are the six locations where LHPs are underway. The project will fulfil the housing dreams of people with a touch of new and innovative technologies.



Message from JS&MD (HFA) Shri Kuldip Narayan

With Light House Projects, we aimed to bring a definite change in the construction technology landscape of India and as the months pass by, I can see that the project is already leaving a mark in the affordable housing sector. Every day at the six LHP locations, several Technograhis are being taught about different construction technologies and their use so that in the future, we gradually move towards bringing a technological transition in the country.

I frequently take site visits to monitor the progress of LHPs and sometime ago, I visited the location at Lucknow. There is encouraging progress in the construction front and the officials have been directed to expedite the work. Meanwhile, Shri Manoj Joshi, Secretary, MoHUA, inspected and reviewed the progress of LHP Chennai. At this point, I would also like to congratulate the technology providers, construction agencies and various other stakeholders associated with Light House Projects. You truly are the gamechangers!

It also gives me immense satisfaction to share with the readers that International Women's Day was also celebrated at the LHP sites, wherein the women workforce was honoured and felicitated for their unending support. Women Empowerment forms the very core of Pradhan Mantri Awas Yojana - Urban Under the mission, houses are allotted in the name of woman of the household or in joint ownership.

This month, we also came up with the initiative of organising series of e-Learning sessions and webinars to share and disseminate about LHP technologies and construction processes. This would create wide scale knowledge dissemination and awareness about latest technologies in housing construction which can be further replicated. I urge all stakeholders to register themselves for the webinar and become a change agent to transform the urban landscape for new urban India.

Let us all do over bit in the making of an Aatma Nirbhar Bharat.

JS&MD, HFA, visits LHP site in Lucknow

Shri Kuldip Narayan, JS&MD (HFA), MoHUA, visited Light House Project site in the Lucknow, Uttar Pradesh, on 28th February 2022. Shri Narayan reviewed the progress of the project with respect to construction and its implementation at various stages. The construction agency was directed to expedite the construction work so that benefits reach the LHP beneficiaries on time.

Lucknow will be host to 1,040 modern, well-equipped houses for eligible beneficiaries. 'Stay In Place PVC Formwork with Pre-Engineered Steel Structural System' technology from Canada is being used here for construction purposes. In this system, plaster and paint will not be required and walls prepared in advance will be used to build houses faster. In Lucknow too, identification and shortlisting of beneficiaries is complete. Over 50% of the work has been done at the location.





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LHPs: Live Laboratories Webinar Series: e-Learning & webcasting of LHPs for Technograhis Webinar 1 on Light House Project Rajkot, Gujarat



To facilitate learning and mass replication of new-age innovative technologies being used in construction of Light House Projects, MoHUA started nationwide trainings and pool of experts' initiatives named TECHNOGRAHIS. It includes faculty and research students, technical professionals, Central/States/ULB officials, construction agencies, builders/ developers, start- ups/entrepreneurs/innovators, and other concerned stakeholders. Today, over 20,000 stakeholders have enrolled as Technograhis and are learning the use of such technologies to promote their replication in Indian context.

MoHUA is hosting series of 'e-Learning sessions and webcasting of LHP construction process' webinar to widespread the knowledge about the technologies, construction processes, sustainability, and masscum-fast construction to Technograhis. The main purpose is to create awareness of the different technologies used in the construction of LHPs through technical session and webcasting of work at site.

The e-Learning and webinars are planned in partnership with BMTPC and GIZ (Climate Smart Building Cell) to educate the Technograhis on various stages of construction, new techniques, and key features. The sessions are planned every month, focusing on LHP.

40 such training sessions are spread across eight months covering a wide range of topics on different technologies, construction processes and need for thermal comfort. The main outline of the training sessions would focus on use of new-age technologies, materials, and processes in the construction sector.





The broad areas of topics covered during the webinars are:

- Emerging Construction Technologies
- Different Technologies used in construction of LHPs
- Importance of Building Construction Materials and functional requirements of building Thermal Comfort in Affordable Housing

Outcomes & Benefits

- Create wide scale knowledge dissemination
- •Learn use of latest technology in housing construction for further replication in other housing or real estate projects
- •Exposure to innovative construction technologies
- •Technograhis to act as catalysts to transform the urban landscape for new urban India to fulfil vision of AatmaNirbhar Bharat

The first webinar was organised on 11th March 2022 under the chairmanship of Shri Kuldip Narayan, JS&MD (HFA), MoHUA and other senior officials of Ministry. The technical session, explaining in detail about specifications of the technologies, their use and how they were selected through a Global Housing Technology Challenge-India, was shared by BMTPC. In the first session, a virtual tour of LHP Rajkot site was undertaken. At LHP Rajkot the construction agency was present to brief about the construction process ongoing at site

To participate & know more about the series, visit: https://ghtcindia.gov.in/.

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Technograhis visit to LHP sites

A training session was organised for over 100 Technograhis of Sushila Devi Bansal College, Shri Vaishnav Vidyapeeth Vishwavidyalaya and Institute of Engineering & Technology, DAVV, Indore at the Light House Project site in the city on 23^{rd} February 7^{th} March and 9^{th} March 2022, respectively. The Technograhis were briefed about 'Prefabricated Sandwich Panel System' technology being used for construction of 1,024 houses.

Similarly, in Chennai, an on-site training programme was organised at the LHP location for students of Anna University on 3^{rd} and 4^{th} March 2022. The students were briefed about 'Precast Concrete Construction System – Precast Components Assembled at Site' technology which is being used for construction of 1,152 houses.

Meanwhile, a team of Task Force of Government of Uttar Pradesh, comprising of Special Secretary, Department of Technical Education, Director of UP Institute of Design, professors, engineer and project officer, also visited LHP Chennai for studying use of new and innovative construction technologies at site.



Women's Day celebrations at LHP sites

International Women's Day was celebrated on 8th March 2022 at construction sites of six Light House Projects sites. The states and construction agencies felicitated the female workers/staff/employees at the sites for their sincerity and contribution in this ambitious project of Government of India. True to the core of PMAY-U Mission, Light House Projects aim to empower women of India by providing them the ownership of their dream homes.

See the glimpses here:

• @PMAYUrban



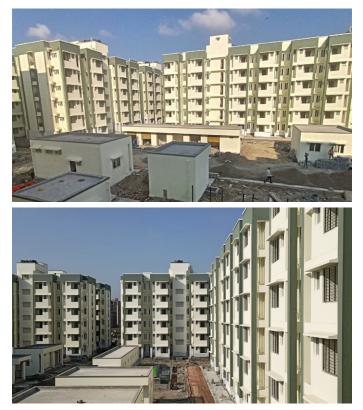


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PROGRESS OF LIGHT HOUSE PROJECTS

CHENNAI, Tamil Nadu

Technology Name: Precast Concrete Construction System-Precast Components



No. of Dwelling Units No. of Block / Tower Units in each Block / Tower	: 12 Blocks	Over all Progress 97%
Activities	Progress	
Superstructure Work	Completed in 12 blocks	
Internal Building work	Around 95% completed	
External Building Work	Around 95% completed	
External Infrastructure	Overall around 80% works completed. Most works including Sewer line, storm water drains, water supply works, STP, internal road works and other works in progress.	
Site development	Compound wall(Around 90% completed) and street light (around 50% completed) works in progress.	
Social Infrastructure	Superstructure & Masonry works completed for Anganwadi, shops, milk booth, library and ration shop. Finishing works like Painting, doors & windows, Flooring in progress	

RAJKOT, Gujarat

Technology Name: Monolithic Concrete Construction using Tunnel Formwork



No. of Dwelling Units:1No. of Block / Tower:1Units in each Block / Tower:1	1 Blocks	Over all Progress 71%
Activities		Progress
Foundation work	Comple	ted in all 11 blocks
Superstructure work	Block No. 2 – Gro	d (Block no.1,3,4,7,8,9,10 & 11) ound+7 work is in progress und +7 work is in progress
Sample Unit	(Completed
Masonry work		leted – 7 blocks gress – 3 blocks
Internal Building work	Kitchen slab, tile	is completed in 6 blocks. e work and plumbing are in on of lifts is also in progress.
Internal (Electrical work)	In prog	gress – 8 blocks
Social Infrastructure	finishing is in pr	f Structure work, the Internal ogress in Anganwadi cum lex and Community centre.
External Physical Infrastructure	storm water dra	orks including Sewer line, ains, water supply works, all, etc. are in progress.

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PROGRESS OF LIGHT HOUSE PROJECTS

Technology Name: Prefabricated Sandwich Panel System

INDORE, Madhya Pradesh



No. of Dwelling Units No. of Block / Tower Units in each Block / Tower	8 Blocks	Over all Progress 59%
Activities	Pr	ogress
Superstructure		
PEB Work	40 Floors completed in 8 blocks	
 Slab Work 	39 Floors completed in 8 blocks	
EPS Panel work in Wall	13 Floors completed in 8 blocks	
Sample Unit	Со	mpleted
Infrastructure Work	Boundary wall, Community Centre, Road work, underground tank, STP & Sewer line works are in progress.	



LUCKNOW, Uttar Pradesh

Technology Name: PVC Stay in Place Formwork System



No. of Block / Tower : 4 Block	Progress UL 7 U	
Activities	Progress	
Superstructure work of Building Blocks		
Shear Wall Work (Staircase & Lift well)	Stilt to 5 th Floor shear wall work is in progress in all 4 Blocks	
Pre-Engineered Steel Building (PEB) Work	• PEB erection work is in progress upto 10 th Floor in part of Block A • Upto 6 th Floor PEB erection work is in progress in other 2 Blocks (Block C & D)	
Slab Work & SIP Wall Form work	 Casting of 1st floor slab completed in Block C, D & Block A1 (40% of Block A) SIP Wall form installation is in progress at 2nd Floor level in Block A & at 1st Floor level in other 2 Blocks (Block C & D) 	
Sample Unit	Completed	
Social Infrastructure	Community Centre & Commercial Block work completed upto Plinth level.	
Infrastructure Work	 Underground Water Tank foundation work is in Progress Boundary Wall work is in Progress. Electrical Substation excavation work completed 	

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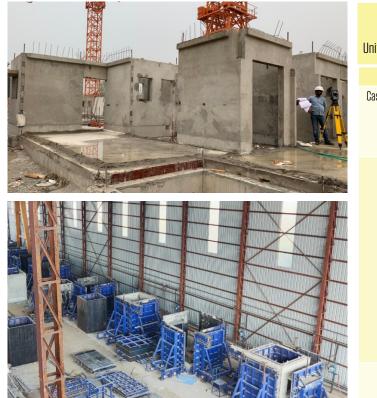
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PROGRESS OF LIGHT HOUSE PROJECTS

RANCHI, Jharkhand Technology Name: Precast Concrete Construction - 3D Volumetric Construction



No. of Dwelling Units:1,00No. of Block / Tower:7 BlockUnits in each Block / Tower:144 Block	
Activities	Progress
Casting Yard (Production of Components)	The casting yard along with steam curing chamber is now functional & 426 numbers of different components have been produced out of total requirement of 12,624 numbers
Foundation work	The Raft slab of 6 blocks out of total 7 Building blocks has been completed. The shear wall concrete casting has been completed in 4 Blocks (Block 1,2,5,& 6). The shear wall shuttering & bar binding of block nos.3 & 4 is in progress. The excavation & GSB laying of one remaining block (No.7) is in progress. The back filling in 2 blocks (No.1 & 2) has been completed and is in progress in block Nos. 5 & 6. The ATT & bar binding work of Grade Slab of building no.1 is in progress
Infrastructure work	The pre-cast boundary wall installation has been completed up to 178 mts.

AGARTALA, Tripura

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





No. of Dwelling Units : 1,000 No. of Block / Tower : 7 Bloc Units in each Block / Tower : A(112) D(168) & G(11	ks , B(154), C(118),), E(168), F(168) Dver all Progress 36%
Activities	Progress
Foundation (Dwelling Units)	
Pile Work	Completed in 4 Blocks In progress- 3 Blocks
Excavation	A, E, F & G Block completed
Pile head breaking	A, E, F & G Block completed
Raft & Plinth beam	Raft foundation in F block is in progress and PCC in block A, E, F & G completed
Superstructure	F block is in progress



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Social Media Corner

Hardeep Singh Puri 25 February at 13:47 - @

Another on-site training session organized for #Technograhis on 23rd February 2022. 46 Civil Engineering Students of Sushila Devi Bansal College, Indore,

Madhya Pradesh visited #LightHouseProject (#LHP) site in Indore Madhya Pradesh visited #LightHouseProject (#LHP) site in Indore Madhya Pradesh. Technografiki were briefed about the construction practices and the benefits of the technology in use. 1.024 houses a being built here using 'Prefabricated Sandwich Panel System' technology.

technographic are students from IITs, NITs, engineering, planning, and architecture colleges, faculty members, academicians, and stakeholders. Ministry of Housing and Urban Affairs is promoting 6 LPPs as Live Laboratories for the transfer of technology to the field. rminglives #Transfr ForAll #Transfo



Manoj Joshi 🥝 @Secretary_MoHUA

Hon'ble PM's visionary #LightHouseProjects has been conceptualized as part of the Global Housing Technology Challenge-India. It's been three years since the journey began on 2nd March 2019 with the inauguration of the Construction Technology India (CTI) Expo-cum-Conference.



7:28 PM · Mar 4, 2022 · Twitter for Android



LHP technologies expedite the construction process & deliver affordable, resilient homes to eligible beneficiaries. With LHPs, govt is fulfilling the housing dreams of more & more people. It will bring new dimensions to the country's building construction technology landscape.



7:28 PM · Mar 4, 2022 · Twitter for Android



#LightHouseProjects are being constructed by using cutting-edge new innovative technologies in Chennai, Rajkot, Lucknow, Indore, Agartala & Ranchi. Regular monitoring of progress is being done for the timely completion of the project. Take a look at the progress made at sites.



7:28 PM - Mar 4, 2022 - Twitter for Android



Manoi Joshi 🕗 @Secretary_MoHUA

At #LHPChennai, modern technology and creative procedures are being employed to build 1,152 disasterresistant EWS dwellings. The buoy is more than 90% complete.



4:19 PM · Mar 21, 2022 · Twitter Web App



प्रधानमंत्री आवास योजना शहरी 5 व - @ बेहतर भविष्य के लिए सीख और ज्ञान साझा करना।

बहुतर भावय का एव साळ आर हान ताहा करना। इन्होनोबियों की रिप्त मुंदे है ताहि उन्हें भावेय के स्वभूमें मुद्द तकनीकों, उनके उपयोग और अनुप्रयोग के बादे में जानकारी मिल सके। साह मैं में आरा विश्वविद्यालय के फ़ाजों के लिए प्रतप्रथा विजूर्द में और भी वैष्णव बिक्यायोंद विश्वविद्यालय, इंटोर के फ़ाजों के लिए प्रतप्रथा देवों में ऑन-साइट सजो का आयोवन किया गया। इस बीच, उत्तर प्रदेश सरकार की टास्क फोर्स की एक टीम ने नवीन निर्माण मुौद्योगिकियों के उपयोग का अध्ययन करने के लिए एलएचपी चेन्नई साइट का भी

#LightHouseProjects #LHPs #Technograhis #GHTCI



Housing For All O

#LightHouseProjects: Fulfilling housing dreams of people with a touch of new & innovative technologies!

Take a closer look at the construction work undergoing at Agartala site. 1,000 houses, spread across 7 tov with 7 floors each, are underway here.

#HousingForAll



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HP INDORE

Pradhan Mantri Awas Yojana - Urban, Government of

of Lucknow, Rajkot, Agartala, Indore & Ranchi. Here are the glimpses.

#InternationalWomensDay2022 #WomensDay #WomensDay2022

#WomenEmpowerment #NariShakti #HousingForAll #PMAYUrban

nensDay was celebrated at #LightHouseProject sites

Celebrating #WomenPower! Honouring the women who are

Social Media Corner

Global Housing Technology Challenge - India 11 March at 18:39 · @

Today, #MoHUA launched a webinar series for e-learning & webcasting of #LightHouseProjects for #Technograhis under chairmanship of Shri Kuldip Narayan, JS&MD, Housing for All.

The initiative aims to create awareness about LHP technologies, their construction process & foster an environment of research/development. Technical session, explaining in detail about specifications of the technologies, their use & how they were selected through a global challenge, was shared by 8MTPC Delhi. In the first session, a virtual tour of #LHPRajkot site was undertaken Here's a recap of the session: https://www.youtube.com/watch?

Such sessions will be organised on regular basis. To participate &

know more about the series, visit: https://ghtc-india.gov. #HousingForAll #PMAYUrban #LHPs #TransformingUrbanLandscape #TransformingLives #GHTCIndia



Pradhan Mantri Awas Yojana - Urban, Government of India O 13 March at 12:42 - @

Another on-site training session for #Technograhis!

About 60 students of institute of Engineering & Technology, DAVV, Indore, Madhya Pradesh recently visited #LightHouseProject tile in the city to learn about use of technologies, its application/benefits & construction practices, Indore is one among the 6 cities where #LHPs are being constructed. The other LHP locations are Chennal, Lucknow, Rajkot, Agartala & Ranchi.



Housing For All Xale

#LightHouseProjects: Fulfilling housing dreams of people with a touch of new & innovative technologies!

Take a closer look at the construction work undergoing at Ranchi site. 1,008 houses, spread across 7 towers with 9 floors each, are underway here.



9:59 AM - Feb 26, 2022 - Twitter for Android

Housing For All

Webcasting of Construction for #Technograhis will include technical session by @bmtpcdelhi & virtual tour of #LightHouseProjects.

98 time bimipc Attains giz



GHTC INDIA @Ghtclnver

2:50 PM - Mar 9, 2022 - Twitter Web App

Xin

India 🔮 8 March at 21:49 - 🕲

#GHTCIndia #LHPs

LHP LUCKNOW

contributing in bringing the change.

The Future of Construction Technology at #LHPRanchi as country's first large-scale deployment of 3D Precast Concrete to Construct over 1000 units, also serving as a LIVE Laboratory for further research. #HousingForAll #PMAYUrban #GHTCIndia

#LightHouseProjects #TransformingLives



12:21 PM · Mar 7, 2022 · Twitter Web App



She works hard, she stands strong, she is what the society needs more of. #PMAYUrban & #LHPRa salutes every woman for making India a better place.

#LightHouseProjects #HousingForAll #GHTCIndia #Transforminglives #TransformingUrbanLandscape



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@MoHUA_India is organizing webcast of Construction & e-learning sessions for #Technograhis to create awareness on new age technologies & capacity building. Joining link : pmayu.webex.com/pmayu/j.php?MT... #HousingForAll #PMAYUrban #GHTCIndia #TransformingLives #LightHouseProjects 3 time billio Teres Astron ana giz LIGHT HOUSE PROJECTS : LIVE LABORATORIES





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GHTC INDIA @Ghtclode