

E-Newsletter-Vol - XIX

LIGHT HOUSE PROJECTS

August 25, 2022, New Delhi

Hon'ble Chief Minister of Tripura Inspects Work at Light House Project Agartala



Hon'ble Chief Minister of Tripura Shri Manik Saha visited Light House Project Agartala on 1st August 2022 to review progress of ongoing construction work at site. Hon'ble Chief Minister was apprised by construction agency officials about work-in-progress status of the project and the efforts being undertaken to speed up construction activities. Hon'ble Chief Minister directed the officials to finish the project as soon as possible so that the beneficiaries get maximum benefits on time. Hon'ble Chief Minister also visited the sample flat constructed in one of the blocks and appreciated the quality of construction.

LHP Agartala comprises of 1,000 affordable flats along with social infrastructure facilities. Light Gauge Steel Framed (LGSF) System with Pre-engineered Steel Structural System, a technology from New Zealand which can withstand major earthquake risk, has been adopted in Agartala for construction process.

Agartala is one among the six cities zeroed in on for construction of LHP across India. The project in Chennai was completed and inaugurated by Hon'ble Prime Minister on 26th May 2022. In Rajkot, LHP is near to completion meanwhile, in Lucknow, Indore, Ranchi and Agartala, the projects are in finishing stages.





Message from JS&MD (HFA) Shri Kuldip Narayan

This August, the PMAY-U Mission got an extension by the Union Cabinet till December 2024, which would give added momentum to our objective of providing Housing for All. The decision was taken upon the request of States/UTs which would help in completion of already sanctioned houses under different verticals of PMAY-U. In these seven years, we have been able to bring smiles on the faces of more than 62 lakh families who are leading a dignified life in their pucca houses.

LHPs too are such projects which are catering to the housing needs of people. LHPs in total comprise of more than 6,000 affordable housing units with associated infrastructure facilities & in Chennai, beneficiaries are already staying in their dream homes. Soon, Rajkot will be occupied too & we would be steadily moving towards our target of providing roof over the heads of these families, for whom owning a house was once a distant dream.

Monitoring of LHPs is being done by the Ministry constantly and periodic visits to sites add more weightage to the initiative. In his recent visit to LHP Agartala, Hon'ble Chief Minister of Tripura directed the officials to complete work on time for the benefit of beneficiaries.

Meanwhile, under Azadi Ka Amrit Mahotsav we have also successfully completed 75 training programmes under our RACHNA initiative, wherein thousands of stakeholders have been briefed about the importance of thermal comfort. The 75 trainings were conducted across the country covering participants from various domains.

On that note, I would like to appreciate the efforts of everyone associated with PMAY-U for their contribution in taking the Mission to new heights every day.

Foundation Stone Laid for Demonstration Housing Project in Guwahati

Shri Ashok Singhal, Hon'ble Minister, Department of Housing & Urban Affairs, Government of Assam, laid the foundation stone for Demonstration Housing Project (DHP) under Pradhan Mantri Awas Yojana-Urban at Guwahati on 7th August 2022. Shri Mrigen Sarania, Mayor, Guwahati Municipal Corporation (GMC), Smt Smita Roy, Dy Mayor, Guwahati Municipal Corporation, Shri Devashish Sharma, Commissioner of Guwahati Municipal Corporation were present on the occasion among other officials.



The DHP at Guwahati, equipped with all basic and adequate social infrastructure, will be given to contractual safai karamcharis of Guwahati Municipal Corporation. It will consist of 40 (G+3) Dwelling Units, each comprising of living room, bedroom, kitchen, bathroom and other basic facilities. DHPs are model housing projects built with innovative construction technologies under Technology Sub-Mission (TSM) component of PMAY-U. Under the project, resource-efficient, cost-effective, eco-friendly, disaster-resilient houses are built.

These DHPs have helped in spreading awareness about new technologies and disseminate technical know-how in the States. Most of the States are adopting new construction technologies for speedy, safe and sustainable construction.



Shri Farman Khan, Assistant Secretary, MoHUA Visits Light House Project Indore

On 1st August 2022, Shri Farman Khan, Assistant Secretary, Ministry of Housing & Urban Affairs (MoHUA), visited Light House Project (LHP) in Indore, Madhya Pradesh. A detailed review of the housing project was undertaken by Shri Khan as he was briefed about the progress by construction agency officials.



In Indore, 1,024 houses, spread across 8 towers, are being constructed under LHPs. An already established technology named Prefabricated Sandwich Panel System with Pre-Engineered Steel Structural System has been adopted for construction purposes. This technology brings speed in construction, helps in water conservation. It replaces conventional brick and mortar walling construction practices.

76th Independence Day Celebrated at LHP sites

As the country marked 76th Independence Day on 15th August 2022, the citizens of India celebrated the spirit of Azadi Ka Amrit Mahotsav by actively participating in the Har Ghar Tiranga campaign on the clarion call of Hon'ble Prime Minister. PMAY-U also promoted the campaign amongst beneficiaries and encouraged them to hoist the National Flag at their homes and to take selfies/photographs with flag, following the Flag Code of India. The States/UTs showed active involvement in the initiative by encouraging PMAY-U beneficiaries to hoist the National Flag in their homes.

At LHP sites too, the celebrations were carried on with full fervour by State officials and construction agencies. Flag hoisting ceremonies were conducted at LHP sites. At Ranchi, 75 trees were also planted on the occasion. See the glimpses here.

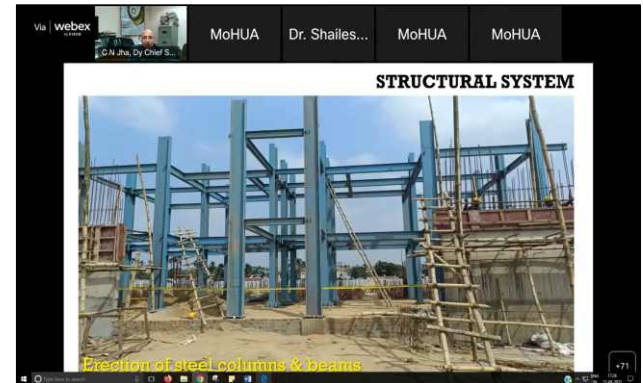


Webinar on e-Learning and Webcasting of LHP for Technograhis held at Agartala

The 12th edition of 'e-Learning sessions and webcasting of LHPs for Technograhis' was held in Agartala, Tripura on 29th July 2022. Under the series jointly hosted by the Ministry, Building Materials and Technology Promotion Council (BMTPC) and GIZ, technological specifications and construction processes of LHPs are explained in detail to Technograhis and other participants through live photos, videos and presentations. In each session, one LHP site is focussed on. The webinars are serving as learning and knowledge sharing platforms for all stakeholders interested in learning about innovative construction technologies.

LHPs are being promoted as Live Laboratories for learning, facilitating transfer of technology to the field and its further replication. The objective is to encourage large scale citizen participation and create technical awareness for

technical learning, learning by finding ideas for solutions, experimentation and encouraging innovation. So far, close to 36,000 stakeholders have enrolled themselves as Technograhis for learning purposes.



75 RACHNA training programmes on Innovative Construction Technologies & Thermal Comfort in Affordable Housing hosted across India



75 RACHNA training programmes under the ambit of Azadi Ka Amrit Mahotsav has been successfully conducted across India, covering over 4,200 stakeholders. RACHNA - Resilient, Affordable, Comfortable Housing with National Action - is a collaborative effort of MoHUA, BMTPC and GIZ. Different groups of stakeholders, ranging from urban practitioners, Central/State Government officials, Urban Local Body (ULB) officers, architects, engineers, builders, professors, students and construction workers, were included in the online/offline training programmes and workshops imparted on the importance of thermal comfort, building materials, methods of construction for affordable housing and technology.

Between 26th July to 25th August 2022, 13 RACHNA trainings were organised. The #55th RACHNA training was organised in Chandigarh for Government officials, building sector stakeholders and developers, ULB officials and Technograhis. Training #64 was an awareness drive at School of Architecture, Planning & Design, DIT University, Dehradun, Uttarakhand, for architecture students and faculty.

The #65th training was hosted online for practitioners, architects, engineers and builders. Training #66 was a two-day affair at Lucknow, Uttar Pradesh, for a similar target audience.





RACHNA #67 was held in Ranchi, Jharkhand, for Government officials, building sector stakeholders and developers, ULB officials and Technograhis. The #68th one was conducted in online mode for different range of stakeholders. Training #69th was hosted in Hyderabad, Telangana, for Government officials, building sector stakeholders and developers, ULB officials and Technograhis. Nagaland's Dimapur hosted the #70th training under RACHNA for a similar target group.

RACHNA #71 was in online mode for architects, engineers and builders. Training #72nd was held in Shimla, Himachal Pradesh, for Government officials, building sector stakeholders and developers, ULBs officers and Technograhis.

RACHNA #73 was an awareness drive in School of Planning & Architecture, Vijayawada, Andhra Pradesh for architecture students and faculty. The 74th one was a 2-day Training for professionals at Raipur, Chhattisgarh.



The #75th RACHNA training programme was held in Goa College of Architecture, Panaji for architecture students and faculty members.

Under RACHNA, series of trainings and workshops were conducted with the aim to create awareness among stakeholders on thermal comfort, its necessity in the affordable housing sector and ways to achieve it. The trainings delivered in-depth knowledge on thermal comfort, material influences and its relationship with building physics. Moreover, it would also familiarise participants with design strategies, construction techniques, low-cost solutions, policy documents, building codes, international practices and other aspects relevant to thermal comfort in affordable housing.

The outcome focussed on making the stakeholders in the affordable housing sector understand the need for thermal comfort and urge them



to include no cost or low-cost strategies in upcoming projects. The participants would be equipped with advanced knowledge and skillset to ensure provision of thermal comfort in India's affordable housing sector.



LIGHT HOUSE PROJECT RAJKOT, GUJARAT



GLOBAL
HOUSING
TECHNOLOGY
CHALLENGE INDIA

Soon-to-be Home of 1,144 families



In over one year since the foundation stone for Light House Projects were laid by Hon'ble Prime Minister, the housing project has successfully brought a new era in building construction sector. In May 2022, the completion and inauguration of LHP Chennai was a milestone under this ambitious initiative of MoHUA. Next up in line for inauguration is LHP Rajkot, which will accommodate 1,144 families in their dream homes. The project is completed in all respect and is located in Rajkot's Raiya Road area. It comprises of S+13 floors with a total plot area of 39,599 sqm.

For LHP Rajkot, all 1,144 beneficiaries have already been identified by the State. The beneficiaries are from different walks of life working in various sectors. They are proud to be pioneers and first-time owners of technology-driven affordable houses which is unique in itself and not the conventional type. Some of them expressed satisfaction that houses are being provided to them within the stipulated time with all basic and social infrastructure such as shops, park, solar lamps, sewage treatment plant (STP), anganwadi and school within the vicinity.



"I have been living in Rajkot for the past 30 years. However, I did not have a proper house to stay. Where I currently live, there is lack of basic facilities such as water or toilet. Light House Project has fulfilled my dream of having a pucca house with all amenities, for which I am extremely thankful to the Government."

- Shri Makvana Girdharbhai Mohanbhai

"I have been staying in a rented place since the last 20 years. It was my family's dream to have our own home one day. Today, we are extremely happy to own a house in LHP Rajkot. I feel fortunate."

- Shri Surya Kishorbhai



"I feel extremely happy & blessed with having a flat in my name. This would give me & my family an opportunity to lead a dignified life & will also improve our lifestyle. I look forward to staying in a smart home in a smart city."

- Shri Dineshbhai Kanjibhai Dodhia

LIGHT HOUSE PROJECTS



“ These Light House Projects are now a perfect example of the country’s working practices. We also have to understand the big vision behind it. Under the Pradhan Mantri Awas Yojana, lakhs of houses have been made in the cities in a very short time. The construction work of lakhs of houses is also continuing. If we look at the houses built under PMAY-U, focus has been given on both innovation and implementation. ”

- Hon’ble Prime Minister during foundation laying ceremony of LHPs on 1st January 2021

PROGRESS OF LIGHT HOUSE PROJECTS AS ON AUGUST 25, 2022

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 work	Completed in all 11 blocks
Superstructure work	Completed
Sample Unit	Completed
Masonry work	Completed
Internal Building work	Internal plaster is completed. Kitchen slab, tile work, plumbing, electrical work etc. are in advanced stage. Installation of lifts is in progress.
Social Infrastructure	The finishing work is near completion in Anganwadi cum Shopping Complex and Community centre.
External Physical Infrastructure	Infrastructure works including Sewer line, storm water drains, water supply works,

PROGRESS OF LIGHT HOUSE PROJECTS AS ON AUGUST 25, 2022

INDORE, Madhya Pradesh

Technology Name: **Prefabricated Sandwich Panel System with Pre-engineered Steel Structural System**



No. of Dwelling Units : **1024 Nos. (S+8)**
 No. of Block / Tower : **8 Blocks**
 Units in each Block / Tower : **128 Nos.**

Activities	Progress
Superstructure	
PEB Work	66 Floors completed in 8 blocks
Slab Work	57 Floors completed in 8 blocks
EPS Panel work in Wall	54 Floors completed in 8 blocks
Sample Unit	Completed
Infrastructure Work	Boundary wall, Community Centre, Road work, underground tank, STP & Sewer line works are in progress.



LUCKNOW, Uttar Pradesh

Technology Name: **Stay In Place PVC Formwork with Pre-Engineered Steel Structural 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
Superstructure work of Building Blocks	
Pre-Engineered Steel Building (PEB) Work	<ul style="list-style-type: none"> • PEB erection work is in progress upto 13th Floor in Block A1 (Part of Block A) • PEB erection work is in progress upto 9th Floor in other 2 Blocks (Block C & D)
Shear Wall Work (Staircase & Lift well)	• Stilt to 8 th Floor shear wall work is in progress in all 4 Blocks
Slab Work & SIP Wall Form work	<ul style="list-style-type: none"> • Casting of Slab upto 8th floor is in progress in Block A1, and upto 4th & 5th floor in Block C & D respectively. • SIP Wall form installation & casting is in progress upto 9th Floor level in Block A1, at 4th Floor level in Block C & 5th floor level in Block D along with Electrical & Plumbing work.
Sample Unit	Completed
Social Infrastructure	Community Centre & Commercial Block work completed upto Plinth level
Infrastructure Work	<ul style="list-style-type: none"> • Underground Water Tank Civil work is completed. • About 82% of the Boundary Wall work is completed. • Wall casting work is in progress for STP.

PROGRESS OF LIGHT HOUSE PROJECTS AS ON AUGUST 25, 2022

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



No. of Dwelling Units : **1008 Nos. (G+8)**
 No. of Block / Tower : **7 Blocks**
 Units in each Block / Tower : **144 Nos.**

Activities	Progress
Casting Yard (Production of Components)	In the casting yard, 1345 numbers of different components have been produced out of total requirement of about 11151 number of components
Foundation work	<ul style="list-style-type: none"> The Raft slab of all 7 building blocks has been completed. The Grade Slab of all Building blocks except Building No.7 is completed
Super Structure	The erection of building components of Block No. 1 & 2 are in progress at 4 th Floor level.
Infrastructure work	The Pre-cast boundary wall 323 m out of total 578 m length has been completed.



AGARTALA, Tripura Technology Name: Light Gauge Steel Framed (LGSF) System with 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
Foundation (Dwelling Units)	
Pile Work	Completed in 6 Blocks (A,B, C,E,F & G) & D-Block is in Progress.
Excavation	A, B, C, E, F & G Block completed
Pile head breaking	A, C, E, F & G Block completed & B-Block is in Progress.
PCC for foundation	A, E, F & G Block completed.
Raft Foundation	A, E, F & G Block completed
Plinth Beam & Pedestal Column Casting	A, E, F & G Block is in Progress.
Superstructure	A & F Block is in progress
Sample Unit	In progress

Social Media Corner



With #LightHouseProjects, we are making technology driven #affordablehousing accessible for people. Work at #LHPAgartala is undergoing at rapid pace to ensure benefits of the housing project are made available to beneficiaries soon.

#HousingForAll #PMAYUrban #GHTCIndia #LHPs



10:34 AM - Jul 27, 2022 - Twitter Web App

5 Retweets 25 Likes



12th webinar of e-learning session & webcasting of #LightHouseProjects for #Technograhis will be hosted this Friday from 3 pm onwards. Join us to know about more about #LHPs, innovative construction technologies & take a virtual tour to #LHPAgartala site.



5:31 PM - Jul 28, 2022 - Twitter Web App

7 Retweets 26 Likes



Hon'ble Chief Minister of Tripura Shri Manik Saha visited #LightHouseProject Agartala today to review progress of construction work at site. Hon'ble CM was apprised by construction agency officials about status of project & efforts being undertaken to speed up construction work.



7:00 PM - Aug 1, 2022 - Twitter Web App

1 Retweet 7 Likes



The project in Agartala comprises of 1,000 affordable flats, being built using New Zealand's 'Light Gauge Steel Frame System with Pre-Engineered Steel Structural System' technology.

More details: ghtc-india.gov.in.

#HousingForAll #PMAYUrban #GHTCIndia #LHPs



7:00 PM - Aug 1, 2022 - Twitter Web App

1 Like



#RACHNA initiative of @MoHUA_India under the aegis of #AzadiKaAmritMahotsav is being successfully conducted across India in form of online & offline training programmes & workshops. Recently, Lucknow, Hyderabad, Dimapur & Vijayawada turned hosts for the trainings.



10:21 AM - Aug 7, 2022 - Twitter Web App

1 Retweet 6 Likes



In Lucknow, a 2-day training event was held at Lucknow Development Authority to disseminate knowledge & learnings on innovative #constructiontechnologies & #thermalcomfort for #affordablehousing.



10:21 AM - Aug 7, 2022 - Twitter Web App

1 Like



At Dimapur, Climate Smart Building Cell stationed at #LightHouseProject Agartala completed a training programme for Govt officials to make them aware about importance of #thermalcomfort in #affordablehousing.

#HousingForAll #PMAYUrban #GHTCIndia #TransformingUrbanLandscape



10:22 AM - Aug 7, 2022 - Twitter Web App



Govt officials, private architects & builders participated at training in Hyderabad to understand the importance to include thermal comfort in #affordablehousing.



10:22 AM - Aug 7, 2022 - Twitter Web App

1 Retweet 4 Likes

Social Media Corner

Global Housing Technology Challenge - India
12 August at 21:32

Recently, foundation stone of #DemonstrationHousingProject under #PMAYUrban in Guwahati, Assam, was laid by Shri Ashok Singhal, Hon'ble Minister, Department of Housing and Urban Affairs. Once ready, the project will be given to contractual safai karmacharis of Guwahati Municipal Corporation. It will consist of 40 DUs, each comprising of living room, bedroom, kitchen, bathroom & other basic facilities.

#HousingForAll #DHPs #TransformingLives #TransformingUrbanLandscape #ConstructionTechnology #AffordableHousing

Global Housing Technology Challenge - India
18 August at 19:03

The power of 3S - Skill, Speed & Scale - is what makes #LightHouseProjects unique. Such confluence of new age innovative construction technologies is being witnessed to transform building construction sector of India. Have a look at sequence of construction process at #LHP Rajkot, which will soon be home to 1,144 families.

#HousingForAll #PMAYUrban #GHTCIndia #ConstructionTechnology #AffordableHousing #TransformingLives #TransformingUrbanLandscape

Housing For All
@PMAYUrban

With adoption of best of new-age global technologies, materials & processes, #LightHouseProjects are revolutionising building construction sector of country step-by-step. Here's a glimpse of sequence of construction process at #LHPIndore, comprising of 1,024 flats.

GHTC INDIA
@GhtcIndia

Bhopal, Lucknow, Agartala, Ranchi & Chandigarh are the 5 cities where #RACHNA training programmes were recently held. The one in Bhopal was conducted for HODs & senior Govt officials on innovative #ConstructionTechnologies & #ThermalComfort in #AffordableHousing.

GHTC INDIA
@GhtcIndia

Meanwhile, architecture students & faculty of School of Planning & Architecture, Vijayawada attended a programme to include thermal comfort in affordable housing design under the theme of Innovative #ConstructionTechnologies & Thermal Comfort for Affordable Housing.

Housing For All
@PMAYUrban

#LightHouseProjects brought a new era in building construction sector & completion of #LHP Chennai was a milestone. The project, fully equipped with all basic & civic infrastructure, got completed in 12 months' time. A look at how beautifully #LHPChennai has been developed.

Global Housing Technology Challenge - India
9 August at 13:21

Thousands of #Technograhis have got hands-on experience about innovative construction technologies as part of Live Laboratories under #LightHouseProjects. They are explained about the #LHP technologies, their usage for replication in future context.

Both physical & virtual trainings have been held for #Technograhis at the 6 LHP sites. More details on: <https://ghtc-india.gov.in/>

#HousingForAll #PMAYUrban #GHTCIndia #ConstructionTechnology #AffordableHousing #TransformingLives #TransformingUrbanLandscape

GHTC INDIA
@GhtcIndia

At Chandigarh, innovative, affordable, environment friendly & disaster resilient technologies were promoted among senior Govt officials, architects & #Technograhis.

#TransformingUrbanLandscape

Light House Project Chennai, Tamil Nadu
GLOBAL HOUSING TECHNOLOGY CHALLENGE INDIA

Technology
Precast Concrete Construction System - Precast Components Assembled at Site