

# RACHNA

RESILIENT, AFFORDABLE AND COMFORTABLE HOUSING THROUGH NATIONAL ACTION

## Training # 16: Two-Day Vocational Training Programme on 'Innovative Construction Technologies & Construction Process'

Location: Lucknow | Date : 25<sup>th</sup> & 26<sup>th</sup> May 2022 | Time : 10:30 AM to 4:30 PM

### ABOUT THE TRAINING PROGRAMME

The Ministry of Housing & Urban Affairs (MoHUA) in partnership with GIZ and the Building Material and Technology Promotion Council (BMTPC) is hosting series of trainings/workshops on Innovative Construction Technologies & Thermal Comfort for Affordable Housing named RACHNA (Resilient, Affordable, and Comfortable Housing through National Action). The prime focus of this training programme is to make participants gain practical and technical knowledge on the latest innovative technology being used at Light-House Project, Lucknow, i.e., Stay-in-Place Formwork with Pre-Engineered Building Structure. The training covers the specialized technical application of the technology including the advanced materials and systems used. The participants will also get the opportunity to explore more through a live tour of the Light-House Project. The outcome of the workshop would be to make the stakeholders understand the key advantages of the technology & urge them to use their learnings in future projects.

### Venue:

LIGHT-HOUSE PROJECT,  
Awadh Vihar Yojna, Lucknow

For Further Details, Please drop an email to  
Mr. Amrish Chaturvedi; [lucknow.gizcsbcell@gmail.com](mailto:lucknow.gizcsbcell@gmail.com)

### TARGET STAKEHOLDERS



Target Stakeholders for this training are Building Contractors,  
Masons, Insulation Applicators & other such Field Workers



## Innovative Construction Technologies & Construction Process

Location: Lucknow | Date: 25th May 2022, Wednesday | Time: 10:00 AM to 4:30 PM

### AGENDA - DAY 1

TIME	SESSION	TOPIC	SPEAKER
10:00 - 10:30	Introduction	Registration	
10:30 - 10:45		Welcome Address & Trainer Introduction	BMTPC / Climate Smart Buildings (CSB) Cell
10:45 - 11:00	TEA BREAK		
11:00 - 12:00	Session-1 Batch - 1	<b>Vocational Training</b> <ul style="list-style-type: none"> <li>• LHP and its Construction technology</li> <li>• GHTC: Brief explanation on other LHP construction technologies (GHTC videos)                             <ol style="list-style-type: none"> <li>a) Precast Components Assembled at Site – Chennai, Tamil Nadu</li> <li>b) Prefabricated Sandwich Panel System – Indore, Madhya Pradesh</li> <li>c) Precast Concrete Construction System – 3D Volumetric – Ranchi, Jharkhand</li> <li>d) Light Gauge Steel Structural System &amp; Pre-engineered Steel Structural System – Agartala, Tripura</li> <li>e) Monolithic Concrete Construction using Tunnel Formwork – Rajkot, Gujarat</li> <li>f) PVC Stay In Place Formwork System – Lucknow, Uttar Pradesh</li> </ol> </li> </ul>	Climate Smart Buildings (CSB) Cell
12:00 - 13:00	Session - 2 Batch - 1	<ul style="list-style-type: none"> <li>• <b>Construction Technology Process:</b> <ol style="list-style-type: none"> <li>a) Site Excavation and Stabilization – Excavation and Stabilization Process, hazards, protective methods during construction, Consolidation, Compaction and Transportation</li> <li>b) Column laying and structure – Types, defects in construction and preventive measures, Retaining walls, Soil nailing, Mortar and Filling, Reinforcement</li> <li>c) Technology specific construction and other walling and roof component details</li> <li>d) Plastering &amp; Finishes – Plastering and Painting</li> <li>e) Improving Efficiency in construction – Defects in construction, avoiding cracks, infiltration, and reduction in wastage during construction</li> </ol> </li> </ul>	JAM Sustainable Housing LLP
13:00 - 14:00	LUNCH BREAK		
14:00 - 15:00	Session-1 Batch - 2	<b>Vocational Training</b> <ul style="list-style-type: none"> <li>• LHP and its Construction technology</li> <li>• GHTC: Brief explanation on other LHP construction technologies (GHTC videos)                             <ol style="list-style-type: none"> <li>a) Precast Components Assembled at Site – Chennai, Tamil Nadu</li> <li>b) Prefabricated Sandwich Panel System – Indore, Madhya Pradesh</li> <li>c) Precast Concrete Construction System – 3D Volumetric – Ranchi, Jharkhand</li> <li>d) Light Gauge Steel Structural System &amp; Pre-engineered Steel Structural System – Agartala, Tripura</li> <li>e) Monolithic Concrete Construction using Tunnel Formwork – Rajkot, Gujarat</li> <li>f) PVC Stay In Place Formwork System – Lucknow, Uttar Pradesh</li> </ol> </li> </ul>	Climate Smart Buildings (CSB) Cell
15:00 - 16:00	Session - 2 Batch - 2	<ul style="list-style-type: none"> <li>• <b>Construction Technology Process:</b> <ol style="list-style-type: none"> <li>a) Site Excavation and Stabilization – Excavation and Stabilization Process, hazards, protective methods during construction, Consolidation, Compaction and Transportation</li> <li>b) Column laying and structure – Types, defects in construction and preventive measures, Retaining walls, Soil nailing, Mortar and Filling, Reinforcement</li> <li>c) Technology specific construction and other walling and roof component details</li> <li>d) Plastering &amp; Finishes – Plastering and Painting</li> <li>e) Improving Efficiency in construction – Defects in construction, avoiding cracks, infiltration, and reduction in wastage during construction</li> </ol> </li> </ul>	JAM Sustainable Housing LLP
16:00 - 16:15	TEA BREAK		
16:15 - 16:30		Q & A and Feedback Session	Climate Smart Buildings (CSB) Cell

## Innovative Construction Technologies & Construction Process

Location: Lucknow | Date: 26th May 2022, Thursday | Time: 10:30 AM to 4:30 PM

### AGENDA - DAY 2

10:30 - 10:45	Introduction	Welcome Address & Trainer Introduction	Climate Smart Buildings (CSB) Cell
10:45 - 11:00	TEA BREAK		
11:00 - 12:00	Session-1 Batch - 3	<p><b>Vocational Training</b></p> <ul style="list-style-type: none"> <li>• LHP and its Construction technology</li> <li>• GHTC: Brief explanation on other LHP construction technologies (GHTC videos) <ul style="list-style-type: none"> <li>a) Precast Components Assembled at Site - Chennai, Tamil Nadu</li> <li>b) Prefabricated Sandwich Panel System - Indore, Madhya Pradesh</li> <li>c) Precast Concrete Construction System - 3D Volumetric - Ranchi, Jharkhand</li> <li>d) Light Gauge Steel Structural System &amp; Pre-engineered Steel Structural System - Agartala, Tripura</li> <li>e) Monolithic Concrete Construction using Tunnel Formwork - Rajkot, Gujarat</li> <li>f) PVC Stay In Place Formwork System - Lucknow, Uttar Pradesh</li> </ul> </li> </ul>	Climate Smart Buildings (CSB) Cell
12:00 - 13:00	Session - 2 Batch - 3	<ul style="list-style-type: none"> <li>• <b>Construction Technology Process:</b> <ul style="list-style-type: none"> <li>a) Site Excavation and Stabilization - Excavation and Stabilization Process, hazards, protective methods during construction, Consolidation, Compaction and Transportation</li> <li>b) Column laying and structure - Types, defects in construction and preventive measures, Retaining walls, Soil nailing, Mortar and Filling, Reinforcement</li> <li>c) Technology specific construction and other walling and roof component details</li> <li>d) Plastering &amp; Finishes - Plastering and Painting</li> <li>e) Improving Efficiency in construction - Defects in construction, avoiding cracks, infiltration, and reduction in wastage during construction</li> </ul> </li> </ul>	JAM Sustainable Housing LLP
13:00 - 14:00	LUNCH BREAK		
14:00 - 15:00	Session-1 Batch - 4	<p><b>Vocational Training</b></p> <ul style="list-style-type: none"> <li>• LHP and its Construction technology</li> <li>• GHTC: Brief explanation on other LHP construction technologies (GHTC videos) <ul style="list-style-type: none"> <li>a) Precast Components Assembled at Site - Chennai, Tamil Nadu</li> <li>b) Prefabricated Sandwich Panel System - Indore, Madhya Pradesh</li> <li>c) Precast Concrete Construction System - 3D Volumetric - Ranchi, Jharkhand</li> <li>d) Light Gauge Steel Structural System &amp; Pre-engineered Steel Structural System - Agartala, Tripura</li> <li>e) Monolithic Concrete Construction using Tunnel Formwork - Rajkot, Gujarat</li> <li>f) PVC Stay In Place Formwork System - Lucknow, Uttar Pradesh</li> </ul> </li> </ul>	Climate Smart Buildings (CSB) Cell
15:00 - 16:00	Session - 2 Batch - 4	<ul style="list-style-type: none"> <li>• <b>Construction Technology Process:</b> <ul style="list-style-type: none"> <li>a) Site Excavation and Stabilization - Excavation and Stabilization Process, hazards, protective methods during construction, Consolidation, Compaction and Transportation</li> <li>b) Column laying and structure - Types, defects in construction and preventive measures, Retaining walls, Soil nailing, Mortar and Filling, Reinforcement</li> <li>c) Technology specific construction and other walling and roof component details</li> <li>d) Plastering &amp; Finishes - Plastering and Painting</li> <li>e) Improving Efficiency in construction - Defects in construction, avoiding cracks, infiltration, and reduction in wastage during construction</li> </ul> </li> </ul>	JAM Sustainable Housing LLP
16:00 - 16:15	TEA BREAK		
16:15 - 16:30		Q & A and Feedback Session	Climate Smart Buildings (CSB) Cell

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