

# Directorate of Outcome Outcome Report(Event/Activity Organized @ AUH)

**1. General Information** 

**Date:** 22/04/2022

Event Type: Workshop

**Event Title:** Sustainable Building Practices **Venue:** Construction Yard, AUH

Organized by(School): ASAP

Student Participation\*: No. of Students from AUH (Course wise):-B.ARCH- 20, B.Plan- 1, M.Plan- 7

Faculty Participation\*: No. of Faculty Members from AUH (Deptt. wise):- 11

Participation from outside AUH\*: No. of Students & Faculty Members- Nil

(Enclose attendance sheets in given format)

Event Coordinator(s) with designation: Dr. Pallavi Sharma (Professor), Ar. Geetika Verma (Assistant Professor II),

Ar. Meghna Vij (Assistant Professor),, Ar. Raghav Agrawal (Assistant Professor)

Details of Expert/Speaker/Resource Person/Judge:

SN	Country Name	Expert Name	Organizatio n Name	Designation	Specialization	Contact No.	E-mail Id	Address	Major Areas where Amity can Collaborate with expert	CV of Expert (Yes/ No)
1					NΔ					

## 2. Outcome of the Event with Time Lines (Proposed/Achieved)

Envisaged Outcome	Tangible/ Intangible	Achieved/ Proposed	Target date & responsibilities (if proposed )	Details of outcome
1. Outcome related to Academia Co	nnect			1
a) Collaborations for Research Papers / Conference Papers/ Book Chapter etc.	NA			
b) Collaborations & MOU for Research Guidance [PhD, PG & UG (summer training, Dissertation)] & Projects/Use of Instruments etc.	NA			
c) Collaboration for Funded Projects	NA			
2. Outcome related to Industry Con	nect	•	•	
a) Placement	NA			
b) Collaborations for Research Papers	NA			
c) Collaborations & MOU for Research	NA			
Guidance [PhD, PG & UG (summer				
training, Dissertation)] & Projects/Use				
of Instruments				
d) Collaboration for Funded Projects	NA			
3. Outcome related to Society Outre	each	•		
a) Benefit to society in terms of Health	NA			
& Hygiene				
b) Benefit to society in terms of	NA			
Education				
4. Outcome related to Students Least	rning & Groor	ning		
<ul> <li>Learning from the workshop:</li> <li>Using the Pythagoras rule.</li> <li>Usage of tools on site.</li> <li>Using earth rammer.</li> <li>Curing of bricks and its importance.</li> <li>Understanding of timing of drying mortar.</li> </ul>				

### 5. <u>Any other</u>

The workshop started by dividing the participants into three distinct groups and each was assigned a different task.

- Group 1- Bench made from bricks using the rat trap bond.
- Group 2- 4.5ft high Jaali wall make from bricks.
- Group 3- Bench made from bricks using cavity walls.

#### 3. Event Report along with glimpses of the event (Photographs)

- 3.1 **General Introduction of the Event -** Amity School of Architecture and Planning, Haryana organized a building material and construction workshop on the occasion of International Earth day 2022.
- 3.2 **Objectives of the Event-** The purpose of the workshop was to develop a general understanding of basic building techniques amongst the students, get some practical knowledge.

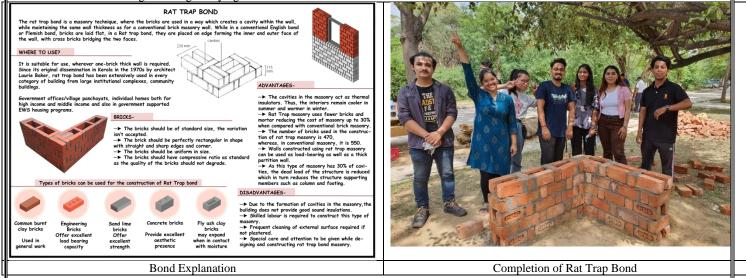
#### **Procedure for Group 1:**

The process of building a bench using rat trap bond starts with providing plain and strong bedding. To provide bedding the team started digging with the help of a spade of 4 to 6-inch-deep pits in the ground in L shape. After emptying the pit, the ground is made a plain surface with the help of an earth rammer and the ground is made moist with water.

After achieving a plain surface, mixture of mortar of ratio 1:5:3 is prepared. Now the PCC is laid with the mixture of broken bricks to achieve the strong foundation. To begin the procedure of laying the bricks we first make sure that the L shape of the bench is in a proper right angle using a thread and the 3:4:5 rules (Pythagoras theorem). The pattern of laying bricks is mentioned in the attached drawing given below. These drawing were referred to understand the laying pattern for the bricks. Each layer was laid carefully, and the mortar was again put in between and above the bricks. After laying each layer the thread is elevated according to the increasing height to keep the angle of the bench correct. Along with this to make sure the bench is erected vertically in a proper manner the usage of a plumb bob is made, it is used after laying each layer of bricks. A total of 5 layers of bricks are erected vertically to achieve a height of nearly 575mm.

Materials used- Bricks, Cement, Sand, trowel, spade

- Learning from the workshop:
- Using the 3:4:5 rule (Pythagoras theorem)
- Usage of tools on site.
- Using a earth rammer.
- Curing of bricks and its importance.
- Understanding of timing of drying mortar.

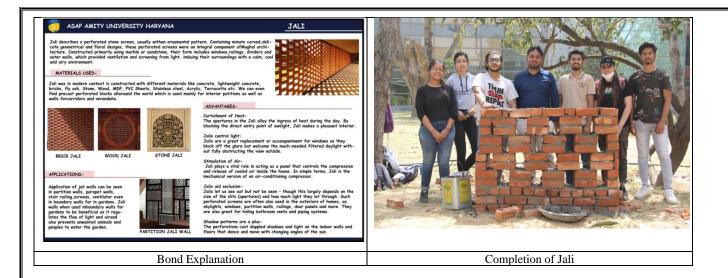


#### **Procedure for Group 2:**

The process of making jail wall began with providing a well prepared foundation around 5" deep. After that PCC was prepared by mixing cement water sand and brick pieces together. The PCC mixture was laid in the bedding. The next step was to lay 3 course of bricks. After that the design of the jali wall was started, which was made 900mm.

Learning from the workshop:

- Usage of tools on site.
- Using a earth rammer.
- Curing of bricks and its importance.



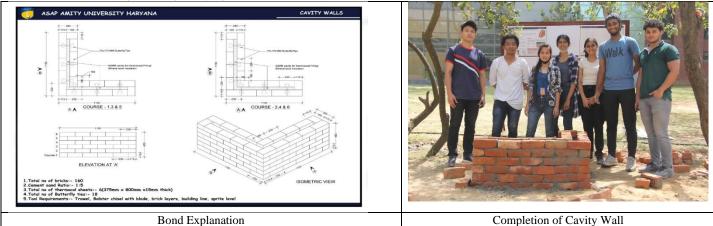
#### **Procedure for Group 3:**

The process of building a cavity wall bench starts with providing plain and strong bedding. To provide bedding the team started digging a 4 to 6-inch-deep pits in the ground in L shape. After emptying the pit, the ground is made a plain surface with the help of an earth rammer and the ground is made moist with water. Now a mixture of brick dust and pcc is made and laid into the pit and again made plain with the help of the earth rammer.

After achieving a plain surface, mixture of mortar of ratio 1:5:3 is prepared. A thin layer of this mixture is put on the rammed pcc and brick dust. To begin the procedure of laying the bricks we first make sure that the L shape of the bench is in a proper right angle using a thread and the 3:4:5 rule (Pythagoras theorem). The pattern of laying bricks is mentioned in the attached drawing given below. These drawing were referred to understand the laying pattern for the bricks. Each layer was laid carefully, and the mortar was again put in between and above the bricks. After laying each layer the thread is elevated according to the increasing height to keep the angle of the bench correct. Along with this to make sure the bench is erected vertically in a proper manner the usage of a plumb bob is made, it is used after laying each layer of bricks. After every two layers 3 sheets of thermocol were stuffed in between the wall and butterfly ties were laid on the horizontal plane surface achieved. A total of 6 layers of bricks are erected vertically to achieve a height of nearly 450mm.

Materials used- Bricks, Cement, Sand, thermocols for insulation, trowel, spade

- Learning from the workshop:
- Using the 3:4:5 rule.
- Usage of tools on site.
- Using a pump bob.
- Using a earth rammer.
- Breaking a brick into a three-quarter closure bat.
- Curing of bricks and its importance.
- Understanding of timing of drying mortar.



The workshop helps students to understand the procedures and the intricacy of work on site. Also help to understand the value of labors work and their hardship. The practical scenario on site is very different than the theoretical learning. The workshop was also a playful and bonding experience for the department.

## 3.3 Brief about the address/talk of speakers

**3.3 Photographs with caption** (also share high resolution JPEG files of photographs)





Group Picture- ASAP

# **3.3 Scanned copy of attendance sheets**

S.No.	Participant Faculty Name	School	Designation	Signature
1	Dr. Ila Gupta	ASAP	Director	ian
2	Dr. Pallavi Sharma	ASAP	Professor	Kullaw.
3	Dr. DoreshorKhwairakpam	ASAP	Associate Professor	Derwines
4	Ar. Geetika Verma	ASAP	Assistant Professor II	Loel
5	Ar. MeghnaVij	ASAP	Assistant Professor I	
6	Ar. AgrawalRaghav	ASAP	Assistant Professor I	itit
7	Ar. MeenuBabu	ASAP	Assistant Professor I	Ales.
8	Ms. HarneetKaur	ASAP	Assistant Professor III	Modh
9	Dr. Shashi Mehta	ASAP	Assistant Professor I	Strenki
10	Mr. Nitish Kumar	ASAP	Assistant Professor I	Man-
11	Mr. Siddharth P. Bettajewargi	ASAP	Assistant Professor III	- Bofic
		1	1	ame & Signature of the Event Coordinate

Event Title:Date: S.No. Participant Name School Programme & Signature 1 K. Maveena. ASAP B. Auch, 8th Seven Maveeva 2 Priyamvada D. ASAP B. Arch 8th Seven Maveeva 3 Shirang Kuman ASAP B. Arch 8th Seven Priyada 4 Vidor Shama ASAP B. Arch, 8th Seven Vide Shi 5 Distli Shing ASAP B. Arch, 8th Seven Vide Shi 6 Zwali 7 Aalthya ASAP B. Arch, 8th Seven Arch 9th 8 Malit yadav ASAP B. Arch, 8th Seven Madrid 9 Ganpahi ASAP B. Arch, 8th Seven Madrid 10 Hilcoth ASAP B. Arch, 8th Seven Madrid 11 Lotoah ASAP B. Arch, 8th Seven Madrid 12 Rohit Madav ASAP M. Plan 2th Seven Madrid 13 Akul ASAP M. Plan 2th Seven Magnia 14 Marcha ASAP M. Plan 2th Seven Magnia 15 Achnita ASAP M. Plan 2th Seven Magnia 16 Aginvin ASAP M. Plan 2th Seven Magnia 17 Glab ASAP M. Plan 2th Seven Magnia 18 Shubham ASAP B. Arch 2th Seven Magnia
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Signature of HOI

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