

Dates of Activity: 14 Nov 2022 – 01 July 2023 (22 Days)

Name of the Activity: On-site Learning at Kumar Parc Residences, Kumar Palmsprings and Gokhale Business Bay

Name of the collaborating agency: Kumar Properties Group & Madhav Limaye Consulting LLP

Co-ordinated by: A. Raghunandan & Farhana Kapadia

Contact Person at the collaborating agency:

Ar. Rohit Sardesai, VP Technical at Kumar Properties Group

Mr. Satyajit Limaye, Director, Madhav Limaye Consulting LLP

Objective of the activity: On-site Learning for the students of M. Arch Design & Project Management as an integral part of academics and pedagogy.

Summary of the Activity

SMEF's Brick School of Architecture has adopted a case-based pedagogy for the M. Arch Program in Design & Project Management. In order to facilitate the case-based pedagogy, it has signed MOUs with industry collaborators.

Kumar Properties Group entered in this MOU with BRICK on 16th September 2022. As per the provisions of the MOU, Kumar Properties identified 2 of its live project sites i.e. Kumar Parch residences at Hadapsar and Kumar Palmsprings at Undri.

Similarly, Madhav Limaye Consulting LLP entered in MOU with BRICK on 18th September 2022. As per the provisions of the MOU, Madhav Limaye Consulting LLP identified 1 of its live project sites i.e. Gokhale Business Bay.

The students started visiting the sites on 17th November 2022, reporting to the project incharge of the respective projects.

The students were assigned to these projects for the entire academic year. The on-site learning visits were scheduled every Thursday and specific learning targets were given to the students for observation and data collection. These observations and data were incorporated in their academic assignment and presentations. The learning objective of the projects were delineated as follows

Learning objectives of Semester -I, Term-I 2022-23

Sl no.	Date	Learning at Site	Drawings/documents to be studied
1.	17/11/22	Familiarization with project and its scope	Project Brief, Architectural, structural, external development and MEP&FPS drawings, Vendor/shop drawings etc.
2.	24/11/22	Familiarization with project and its scope	Architectural, structural, external development and MEP&FPS drawings, Vendor/shop drawings etc.

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3.	1/12/22	Studying project site, site logistics	Location of site amenities and infrastructure to enable construction process
4.	8/12/22	Construction logic	Study of construction logic adopted at site
5.	15/12/22	Project Calendar (commencement, planned end date, milestones, non-working days), project execution plan	Project management plan/project charter
6.	22/12/22	WBS & Project Schedule	Project schedule
7.	29/12/22	Project Schedule	Project schedule
8.	5/1/23	Specifications & BOQ	BOQ
9.	12/1/23	Quantity Estimation	Estimation & Service work order
10.	19/1/23	Material Management	Purchase Requisition & Purchase order
11.	26/1/23	Republic Day	
12.	2/2/23	Resource identification	Resource matrix
13.	9/2/23	Productivity of resources	Productivity data of the organization, based on activity type and location of project
14.	16/2/23	Project cost planning	Budgeted cost, actual cost
15.	23/2/23	Cost monitoring and controlling plan	Budgeted cost, actual cost
16.	2/3/23	Billing cycle & Payment process	Accounting processes

Learning objectives of Semester -II, Term-II 2022-23

Sl no.	Date	Learn from Site	Drawings/documents to be studied
1	16/03/22	Site Progress over Semester Break	-
2	23/03/22	Execution planning for the mock up - Plumbing in a Toilet	Advance copy of Drawings and Specifications lists
3	30/03/22	Execution planning for the mock up - Plumbing in a Unit/toilet block	Planning process in place for executing the plumbing activities and integration with civil activities within the unit or toilet block
4	06/04/22	Execution planning for the mock up - Plumbing on a floor	Planning process in place for executing the plumbing activities and integration with civil activities within the salable and common areas
5	13/04/22	Studying contract terms for scope of deliverables wrt Plumbing	Contract documents for PHE services
6	20/04/22	Study of submittals received at Site for drawing management	Study of submittals and drawing register for understanding timeline


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7	27/04/22	Execution planning for the mock up - Electrical in a Unit/office/shop	Planning process in place for executing the electrical activities and integration with civil activities within the unit/office/shop
8	04/05/22	Execution planning for the mock up - Electrical on a floor	Planning process in place for executing the electrical activities and integration with civil activities within the saleable and common areas
9	11/05/22	Execution planning for ELV system	Planning process for execution of ELV systems.
10	18/05/22	Studying contract terms for scope of deliverables wrt Electrical	Contract documents for Electrical services
11	25/05/22	Studying the time line for legal compliances	Listing the regulatory compliances required and their time line
12	01/06/22	Study of consultant integrations	understanding the integration of services aspects with design aspects
13	08/06/22	Execution planning for the mock up - Fire Protection System in a Unit/office/shop	Planning process in place for executing the Fire Protection System activities and integration with civil & other services activities within the unit/office/shop
14	15/06/22	Execution planning for the mock up - Fire Protection System on a floor	Planning process in place for executing the Fire Protection System activities and integration with civil & other services activities within the saleable and common areas
15	22/06/22	Execution planning for Fire pump room	Planning process for execution of Fire Pump Room
16	29/06/22	Studying contract terms for scope of deliverables wrt Fire Protection System	Contract documents for Fire Protection System services

Comments/Observations/Remarks of the Coordinators:

The on-site learning objectives were set at the commencement of the semester. This was done to connect with the academic activities and assignments. Students were able to adhere to the requirements, however it was observed that confident exchange of ideas and communication was missing. The confidential nature of information also made it a challenge to obtain the required drawings and details from the site team.

Kumar Properties Group: Thursdays being the weekly meeting day at Kumar Parc Residences, made it difficult for students to interact with the site team.

The exposure to High Rise Residential project gave the opportunity to observe and learn the relevant services planning and execution. It also helped in understanding construction techniques using Alu-form for monolithic construction. Access to site, enabled in understanding the Standard Operating Procedure and activities for the work processes,

resource requirement, duration for the activities taken by a team of labors, productivity of labors, material management, material quality and testing, etc.

Madhav Limaye Consulting LLP being a PMC had limitation in terms of sharing data without the consent of Project Promoters. Furthermore, the scope of Madhav Limaye Consulting LLP was limited to execution planning and monitoring, making it difficult to obtain information regarding pre-construction design management.

The exposure to Commercial project gave the opportunity to observe and learn the relevant services planning and execution. Access to site, enabled in understanding the Standard Operating Procedure and activities for the work processes, resource requirement, duration for the activities taken by a team of labors, productivity of labors, material management, material quality and testing, etc.

The on-site learning program is crucial as it helps the students in getting practical exposure. There are challenges regarding the ease of acquiring drawings & details, gaining the confidence of site team (which is difficult when the students are there for only 1 day in a week) and continuous alignment of students with site objectives to keep them motivated towards on-site learning.

Students Assigned to Projects

S.No.	Name of the student	Name of Collaborating Organization	Name of Project Site	Remarks
1	Aakanksha Admane	Kumar Properties Group	Kumar Parc Residences	--
2	Digvijay Deshmukh			Discontinued program after Semester I
3	Srushti Padir			--
4	Pranav Pawar		Kumar Palm Springs	--
5	Akanksha Sonawane			--
6	Shivani Mulik			Discontinued program after Semester I
7	Sakshi Agarkar	Madhav Limaye Consulting LLP	Gokhale Business Bay	Discontinued program after Semester I
8	Leena Jagtap			--
9	Somesh Mundhe			--
10	Ankita Chankhore			--



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Photographs from Projects of Kumar Properties Group

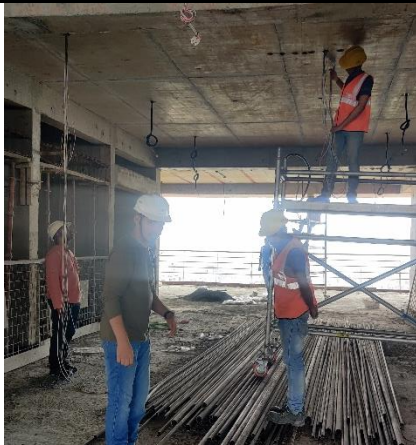


Students learning practical side of projects at the Project sites of Kumar Properties Group



ACTIVITY UNDER COLLABORATION (AY 2022-23)

Photographs from Project of Madhav Limaye Consulting LLP



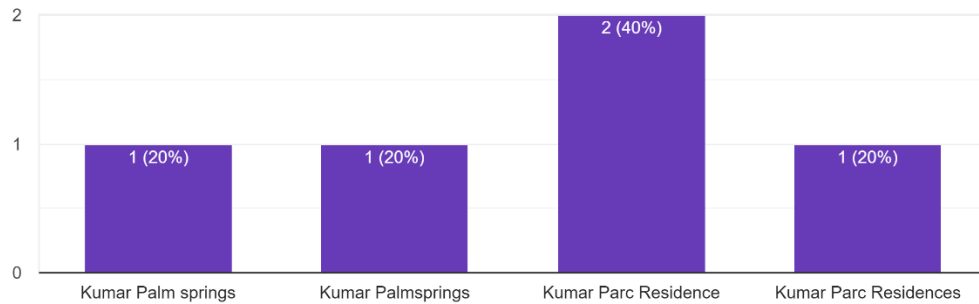
Students learning practical side of projects at the Project sites of **Madhav Limaye Consulting LLP**

Feedback from Kumar Properties Group Students

The feed back was collected at the end of AY 2022-23. The result of feedback provided by 5 students is as followed

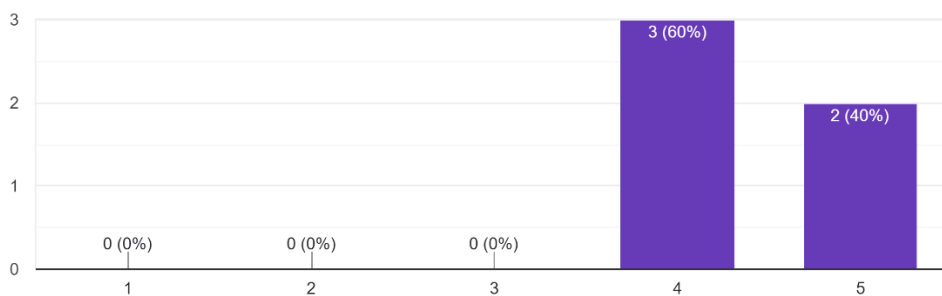
Name of the Project

5 responses



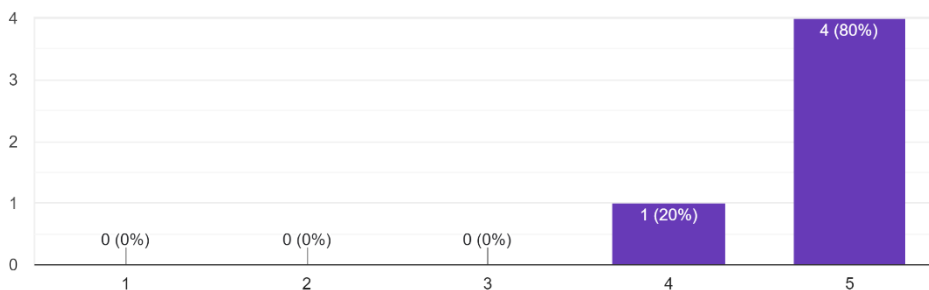
Clarity on intent of the on-site learning

5 responses



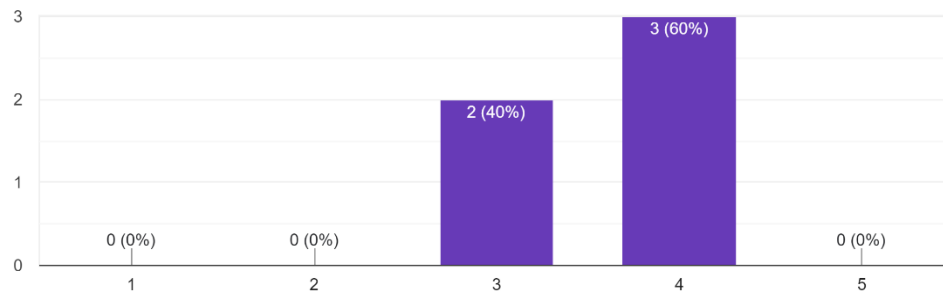
Co-operation of site team in sharing knowledge

5 responses



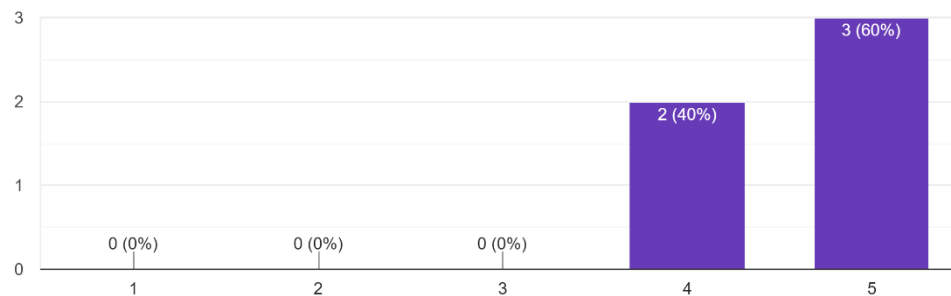
Co-operation of site team in sharing drawings and details

5 responses



Rate the quality and content of learnings at project site

5 responses



Comments/suggestions

5 responses

Very helpful

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good opportunity to learn

Learned a lot at site

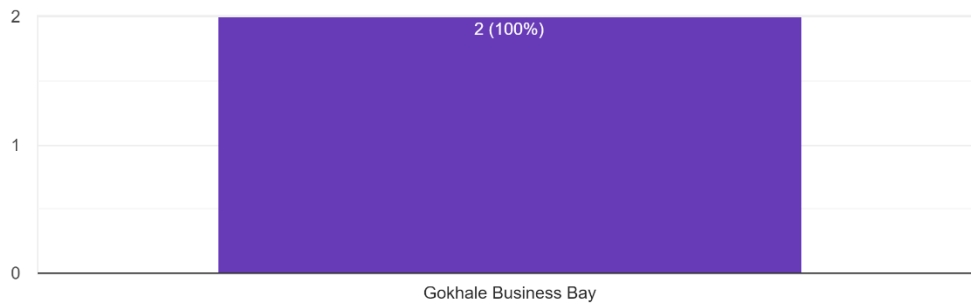
None

Feedback from Students with Madhav Limaye Consulting LLP

The feedback was collected at the end of AY 2022-23. The result of feedback provided by 2 students is as followed

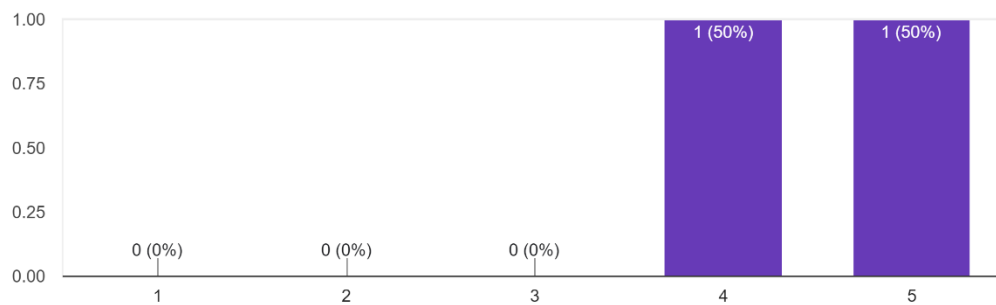
Name of the Project

2 responses



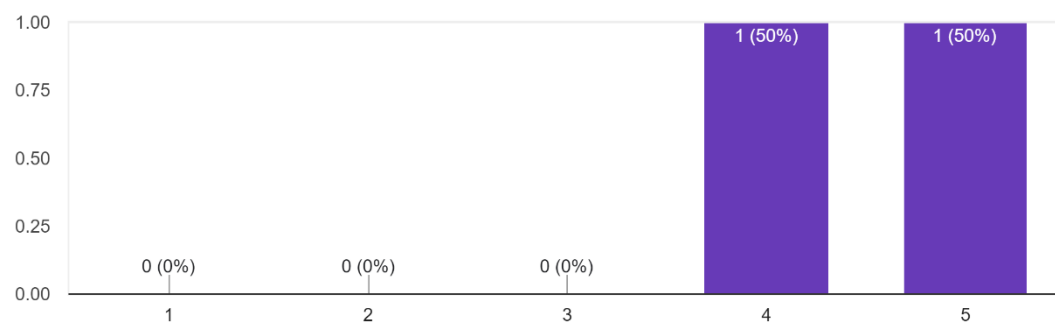
Clarity on intent of the on-site learning

2 responses



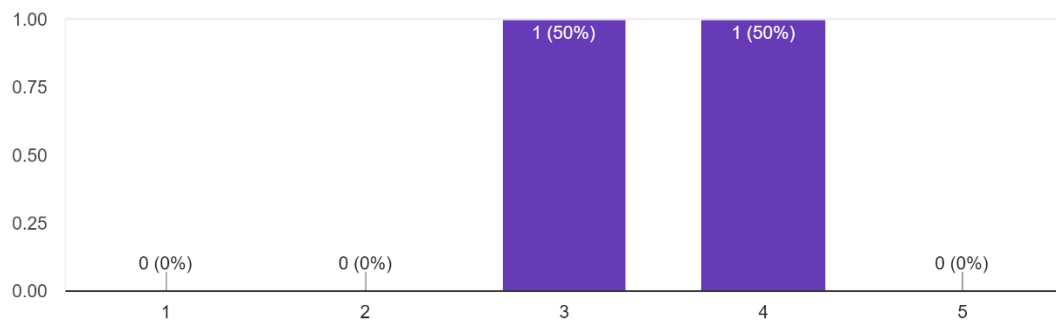
Co-operation of site team in sharing knowledge

2 responses



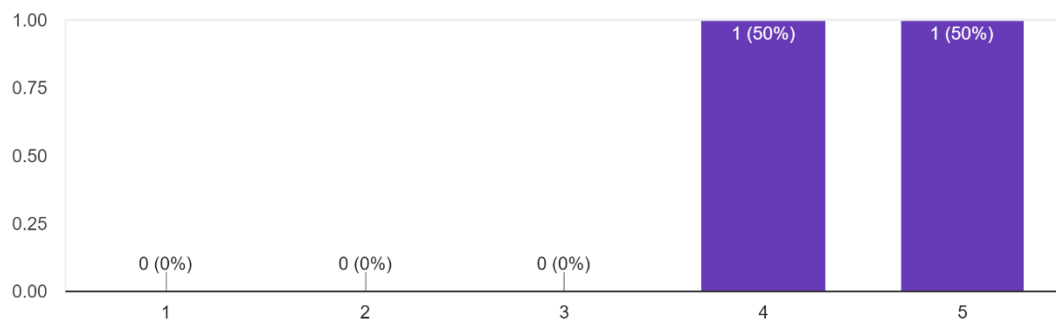
Co-operation of site team in sharing drawings and details

2 responses



Rate the quality and content of learnings at project site

2 responses



Comments/suggestions

2 responses

Construction sites need to have better infrastructure for labor and employs especially for female labor and employs at site.

got to see post tensioning, escalator installation, AHU installation, services under false ceiling etc.