

**Academic & Professional portfolio**

# MALHAR AMBEKAR

**B.Arch, Council of Architecture (COA)  
(Part 2 Equivalent)**

Sir J. J. College of Architecture, Mumbai, India, 2015

**MA Architecture & Urbanism**

Manchester School of Architecture, Manchester, UK, 2023

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Researcher

Natural Materials Exhibition, 2023-2024

Manchester School of Architecture, UK

Worked as Researcher for the Natural Materials Exhibition at the Manchester School of Architecture, UK.  
Research involed understanding natural materials and the buildings executed with the least carbon emission.  
The materials focused were tember, cork, hemp, lime, micelium, stone.

NATURAL MATERIALS  
NOW!

Emissions from the building industry contribute around one-third to the total global carbon footprint. With aspirations to be net zero carbon by the 2050s, we need to rapidly change construction practices. The built environment should be constructed, maintained, replaced, and renewed using natural and finite resources efficiently.

Carbon emissions in the built environment are divided between operational carbon and embodied carbon. This exhibition tackles embodied carbon reduction through asking you to reconsider the construction materials that we commonly use.

Particularly in the developed world, we are wedded to concrete, steel and glass as building materials – all of which have high embodied carbon costs. Natural (biobased) materials, which come entirely from plant-based sources, may be the antidote to our carbon intensive practices. These materials are abundant and renewable, minimally processed, easily reused and recycled (or returned) to the Earth, and are non-toxic. Using natural materials should be the future in construction.

Through choosing natural materials, we have the power to change the construction industry. This exhibition displays natural material examples to encourage you to interact with them and to inspire you towards making natural materials your first choice in your studio projects (and beyond). Most of the examples here are UK-applicable so if you go onto practice elsewhere in the world, be sure to research the locally sourced and natural materials available.

We hope you enjoy the exhibition. For further information, a more detailed list of materials resources, suppliers, and exhibition references can be found by scanning the QR code found on every board.



Demolition of a reinforced concrete frame building



Open coal mine



Cement production



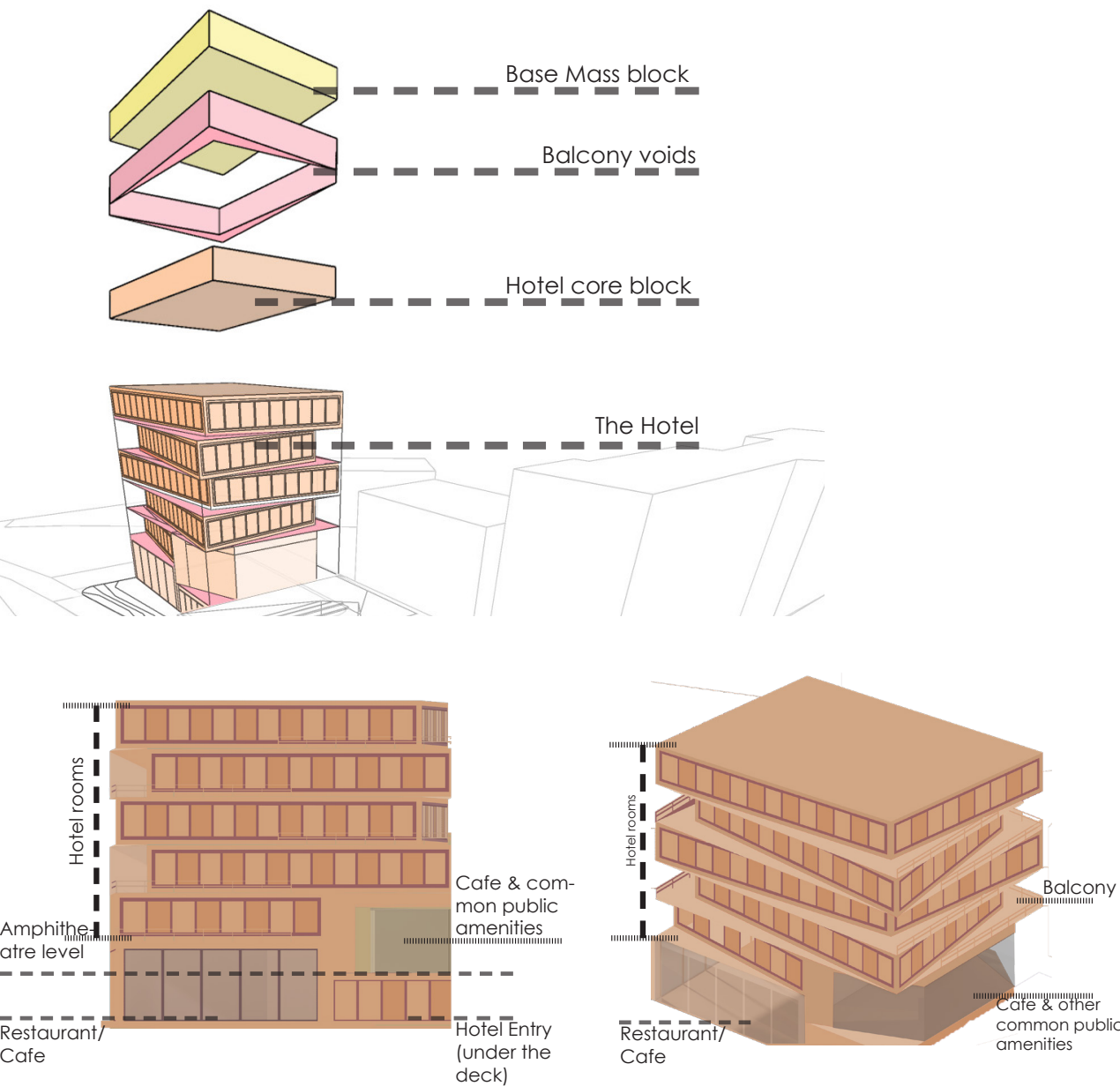
Brick kiln pollution





# ACADEMIA

MA Architecture & Urbanism  
Manchester School of Architecture, UK



Macclesfield predominately has elderly population. Along with that, what was evidenced and also laid down as a requirement from the residents of Macclesfield was an accommodating hotel. The hotel's location was strategically selected considering projects of other group members that included cultural interventions. Along with that, the abundance of parking lots in the town was addressed by a public plaza design at the Park Green, Macclesfield.

To read more on this project in detail-[Urban Intervention: Studio Project: Hotel Design and Public Spaces in Macclesfield, UK](#)

# ACADEMIA

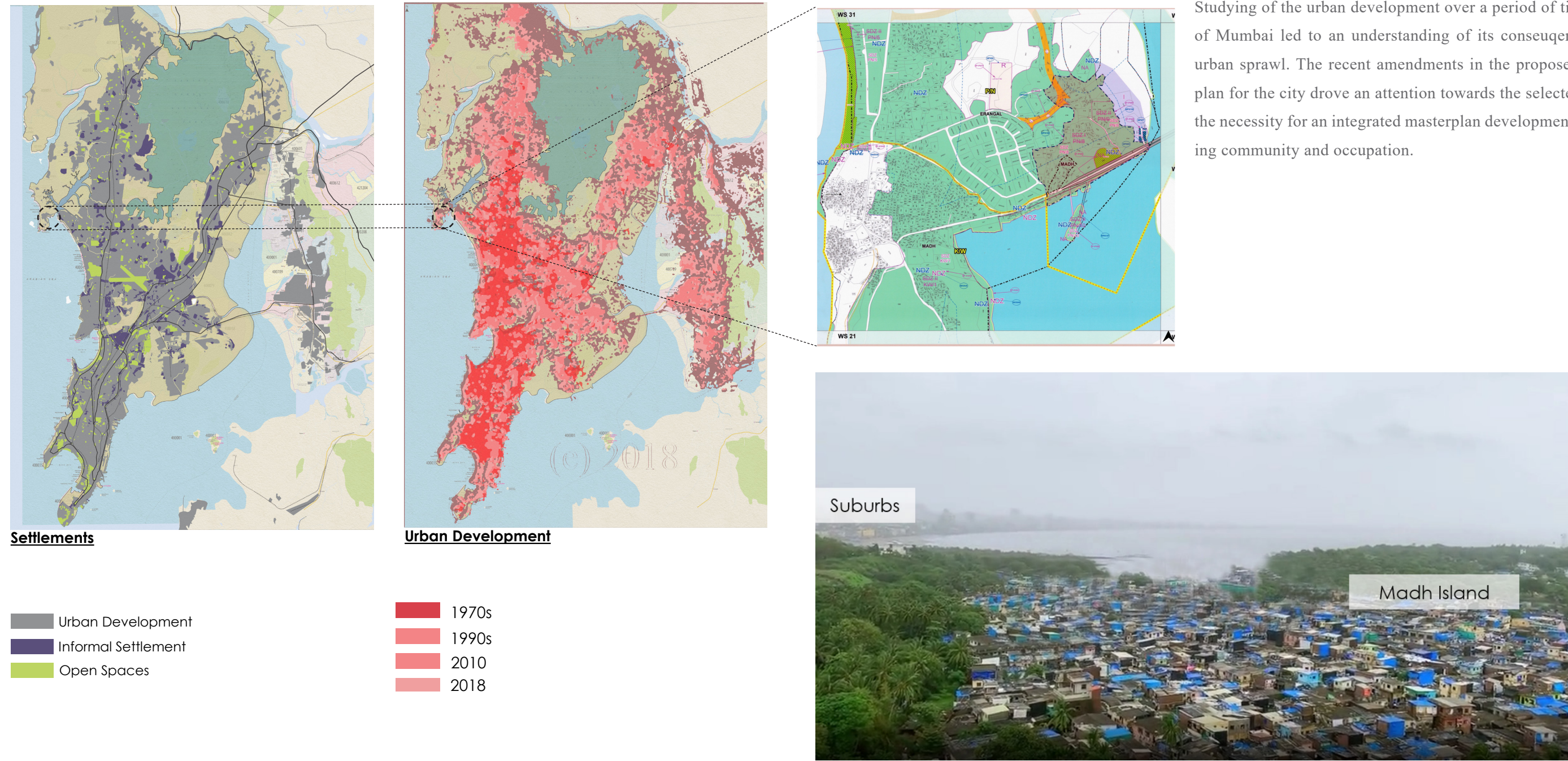
MA Architecture & Urbanism  
Manchester School of Architecture, UK



The hotel design intends to make a statement with its style while maintaining the material language of the town. The design of the plaza strategises on bringing a sense of engagement for the community as well as intends to be less imposing and carefully flexible at the same time. The seating arrangement are patterned in order to achieve that by means of a geometry that also allows flexible access throughout the place.

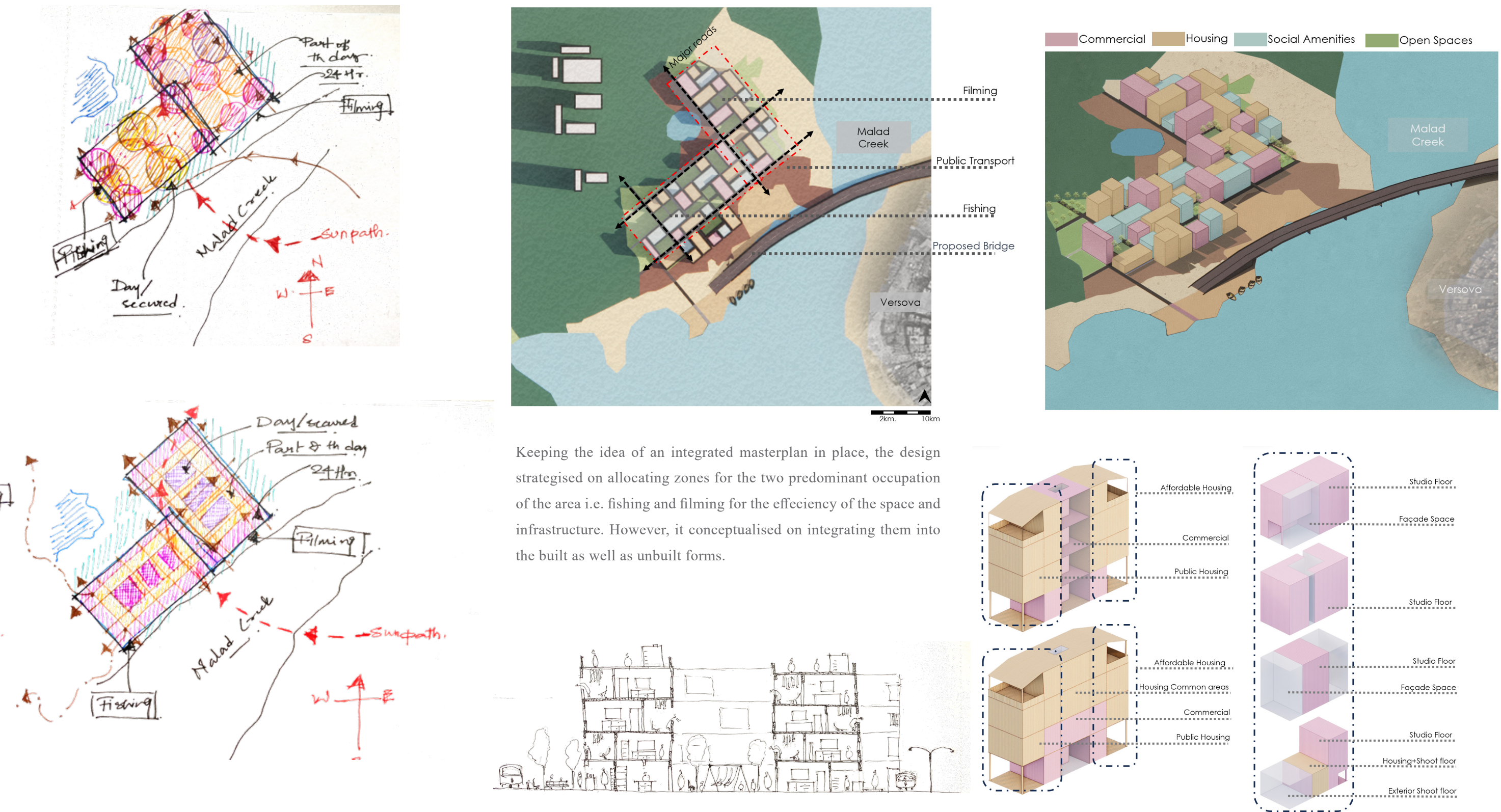
To read more on this project in detail-[Urban Intervention: Studio Project: Hotel Design and Public Spaces in Macclesfield, UK](#)





Studying of the urban development over a period of time in the city of Mumbai led to an understanding of its consequent growth and urban sprawl. The recent amendments in the proposed developmet plan for the city drove an attention towards the selected portion and the necessity for an integrated masterplan development for the exist-ing community and occupation.

To read more on this project in detail- [Integrated Masterplan Development: Formalizing the informal](#)



Keeping the idea of an integrated masterplan in place, the design strategised on allocating zones for the two predominant occupation of the area i.e. fishing and filming for the efficiency of the space and infrastructure. However, it conceptualised on integrating them into the built as well as unbuilt forms.

To read more on this project in detail- [Integrated Masterplan Development: Formalising the informal](#)



ACADEMTA



ACADEMTA





# ACADEMIA

B.Arch (Bachelors of Architecture)  
Sir J. J. College of Architecture, India



Music City, Mumbai, India

The topic primarily focused on designing a place with all the necessary areas required for music. The idea was to design a place that had areas dealing with different aspects such as learning to production of music, including the performance part of it. The goal was to bring all of these essential fragments together in one place and under one roof, eventually making it a ‘Music City’.



Administratvie Block at a rural coastal village

Considering a rural set-out, the idea was to design a building that would fit in within its natural surrounding and reflected an inspiration from the surrounding architecture. Zoning was primarily done keeping the requirements in mind and elements such as the central courtyard were inspired from a rural context whereas pergolas in the roof and offsetting structures were introduced for better movement, light and accessibility.

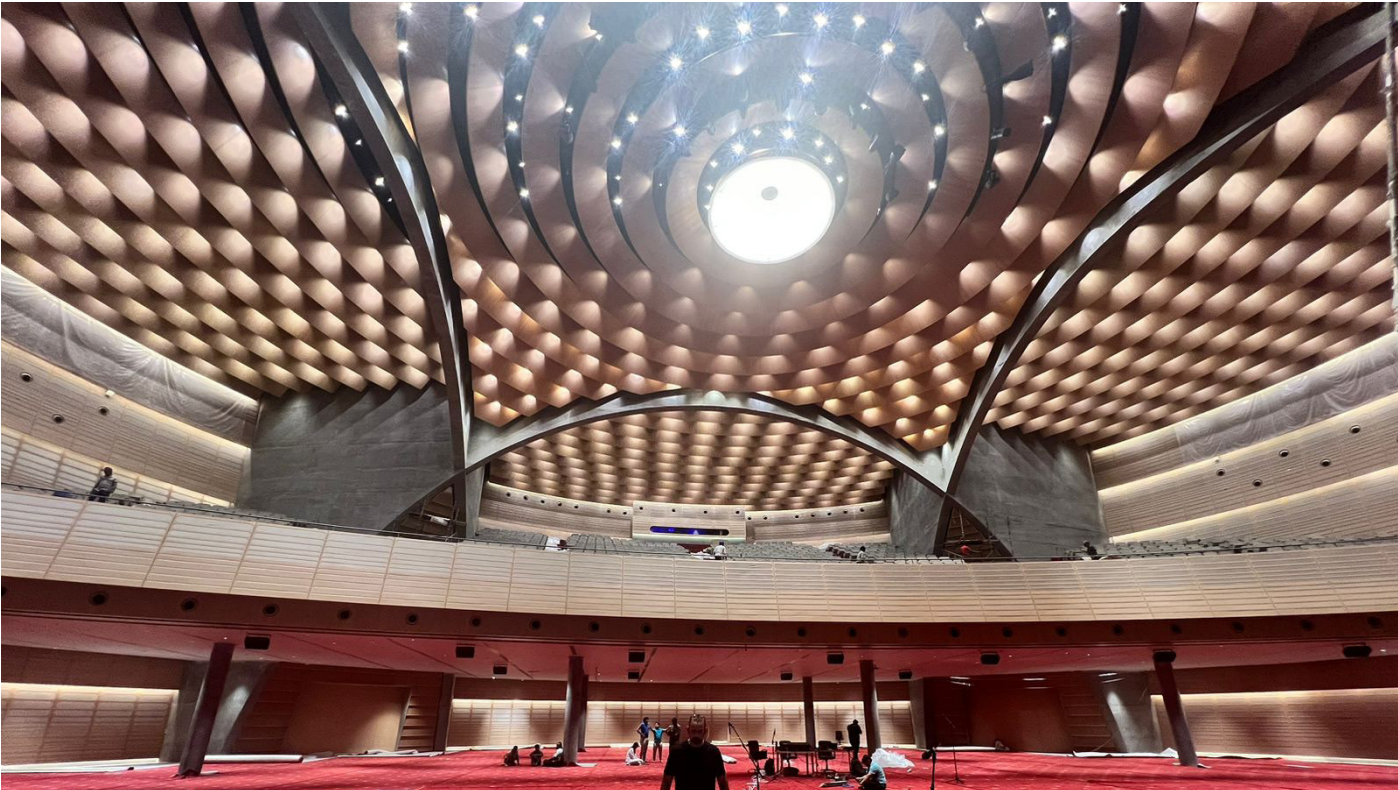
# PROFESSIONAL

MUNRO ACOUSTICS, Mumbai, India  
2021- 2022



IKEA, Noida, India

Work as an Architect and designer involved collaborating with different stakeholders on various projects and was particularly responsible to derive necessary relevant information and make informed technical design decisions. A great deal of learning and understanding of the practical knowledge of Revit and BIM360 interfaces along with the actual work-on-site.

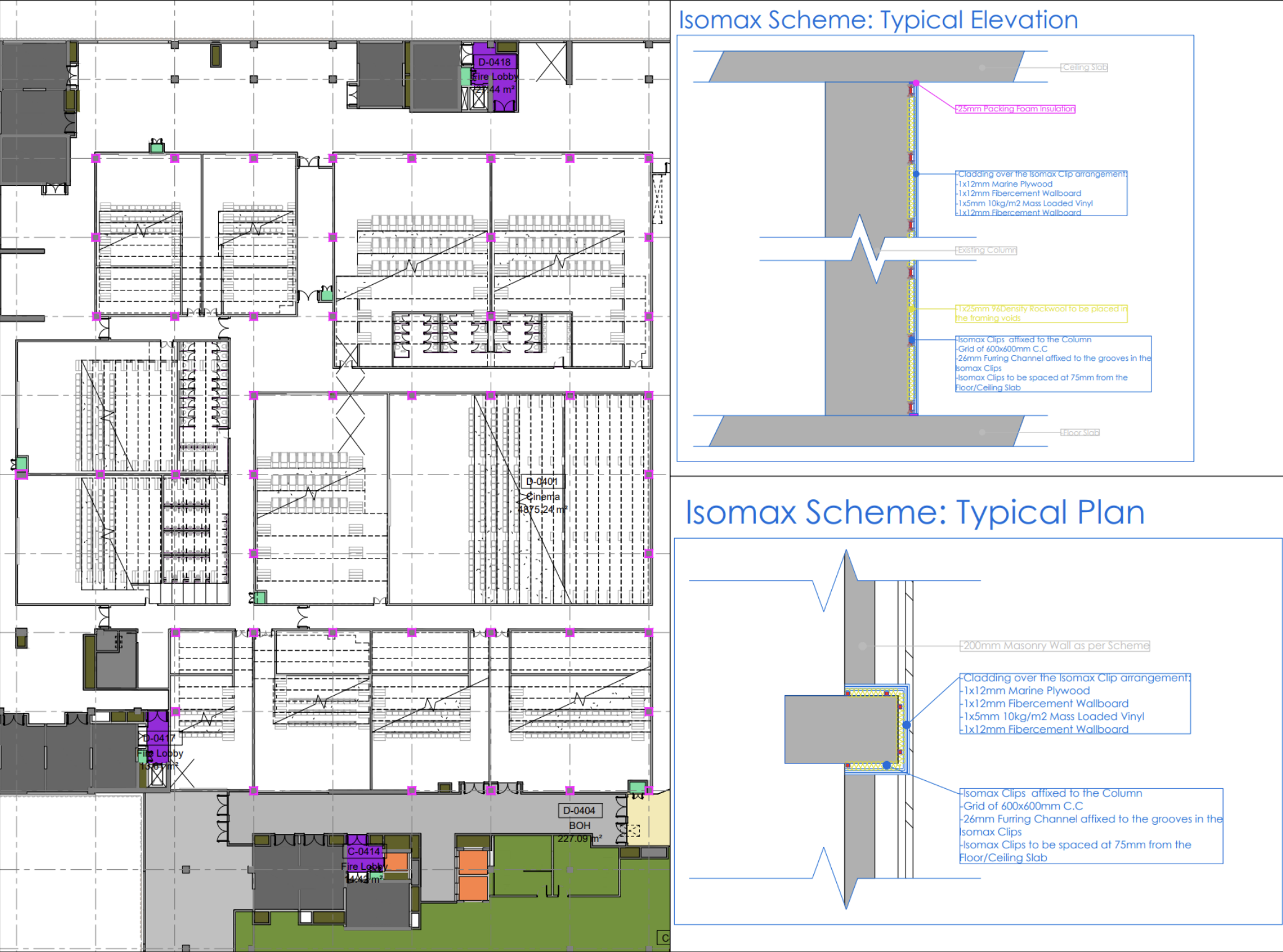


Meditation and Prayer Hall, Gujarat , India



# PROFESSIONAL

MUNRO ACOUSTICS, Mumbai, India  
2021- 2022



# PROFESSIONAL

MUNRO ACOUSTICS, Mumbai, India  
2021- 2022



Samsung Studio, Delhi, India



Subhash Studios, Mumbai, India

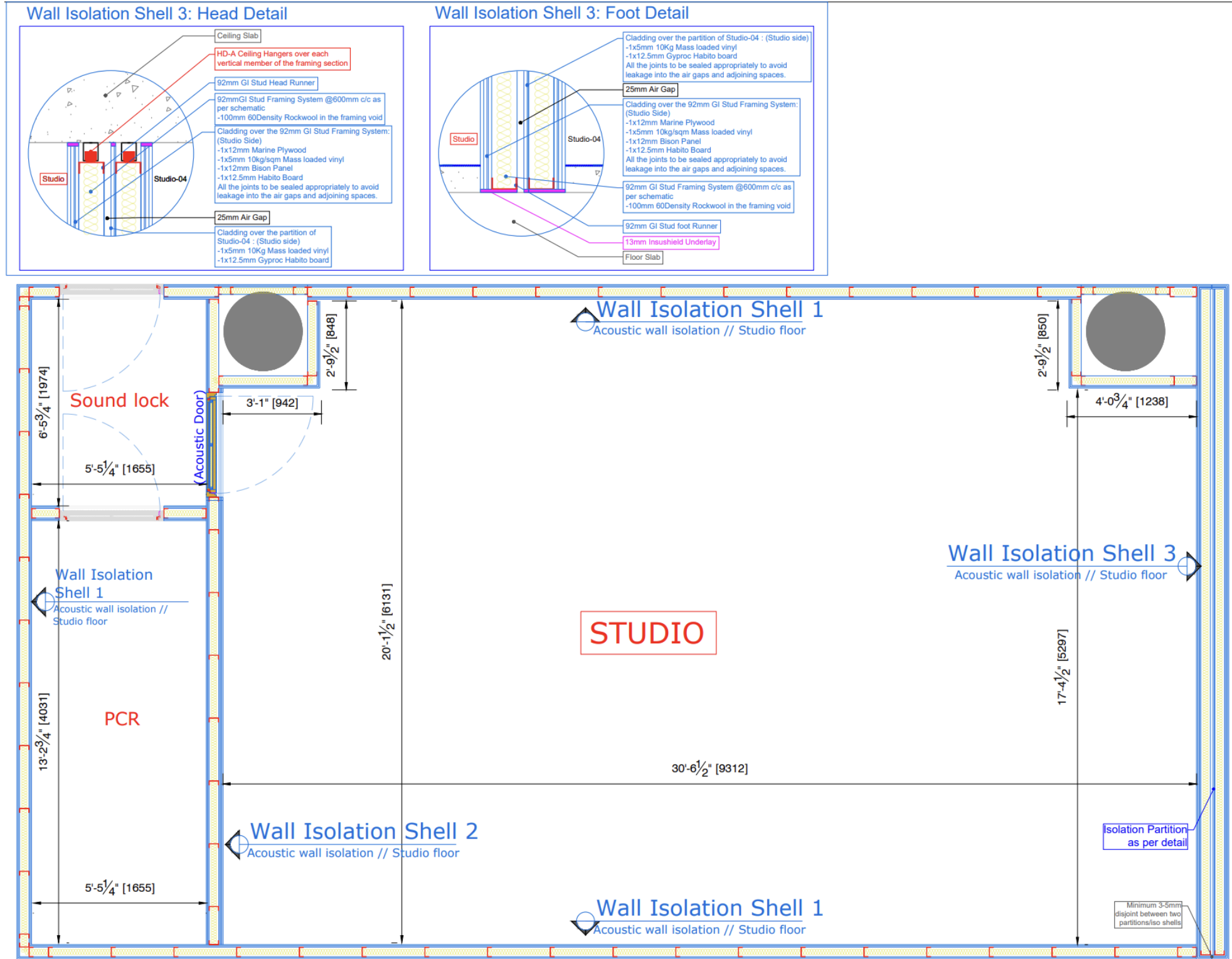
Worked as a designer in corporate shooting space for product launch, director interview etc. and collaborated with allied verticals of a filming exercise for the same. It was a wholesome opportunity to manage the disciplines of HVAC, electrical, and FF and deliver 2 studios with similar requests.

Learnt a great deal of communication and collaboration with clients and other services on these projects .



# PROFESSIONAL

MUNRO ACOUSTICS, Mumbai, India  
2021- 2022



Lead Architect: Alcove Design Consultants

Acoustics Consultants: Munro Acoustics

Work as an Architect at Munro Acoustics involved in designing the studio space along with the technical details for good-for-construction details.

Key elements of the project workings:

-Design a layout for a multi-functional studio space by providing adequate spaces for filming and control rooms.

-Generate technical drawings as per the calculations on softwares that provided necessary RTs and absorption coefficients as per the materials and room sizes.

-Drawings particular involved head and foot detail for isolation partition walls, flooring and ceiling isolation details, wall treatment details.

# PROFESSIONAL

CANNON DESIGN INTERNATIONAL PVT. LTD. (MUMBAI OFFICE)  
2014 - 2016



TATA Medical Center, Kolkata, India



CHUM Hospital, Montreal, Canada

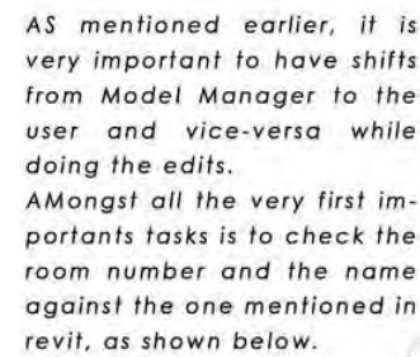
Worked on one of the largest PPP projects based in Montreal, Canada and Tata Medical Center, Kolkata, India. The work involved preparing and co-ordinating the executorial designs and drawings across offices of the Cannon Design Intl., from all over the world.

It was a first exprience and explorations for me in the field of BIM and Revit co-ordination in 2015 and working in an international setup.

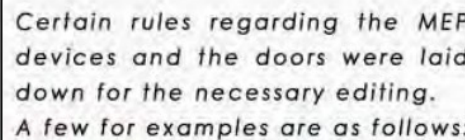


## 2014 - 2016

The following images are taken by keeping a certain worksets on/off in revit while the editing is in progress.



Editing in revit it is very essential to check the worksets and their respective elements, along with cross checking the dimensions and architectural layout with the production model as well as arranging the MEP devices according to another set of drawings exclusively made to refer in terms of MEP planning.



Lead Architect: Cannon Design Intl.

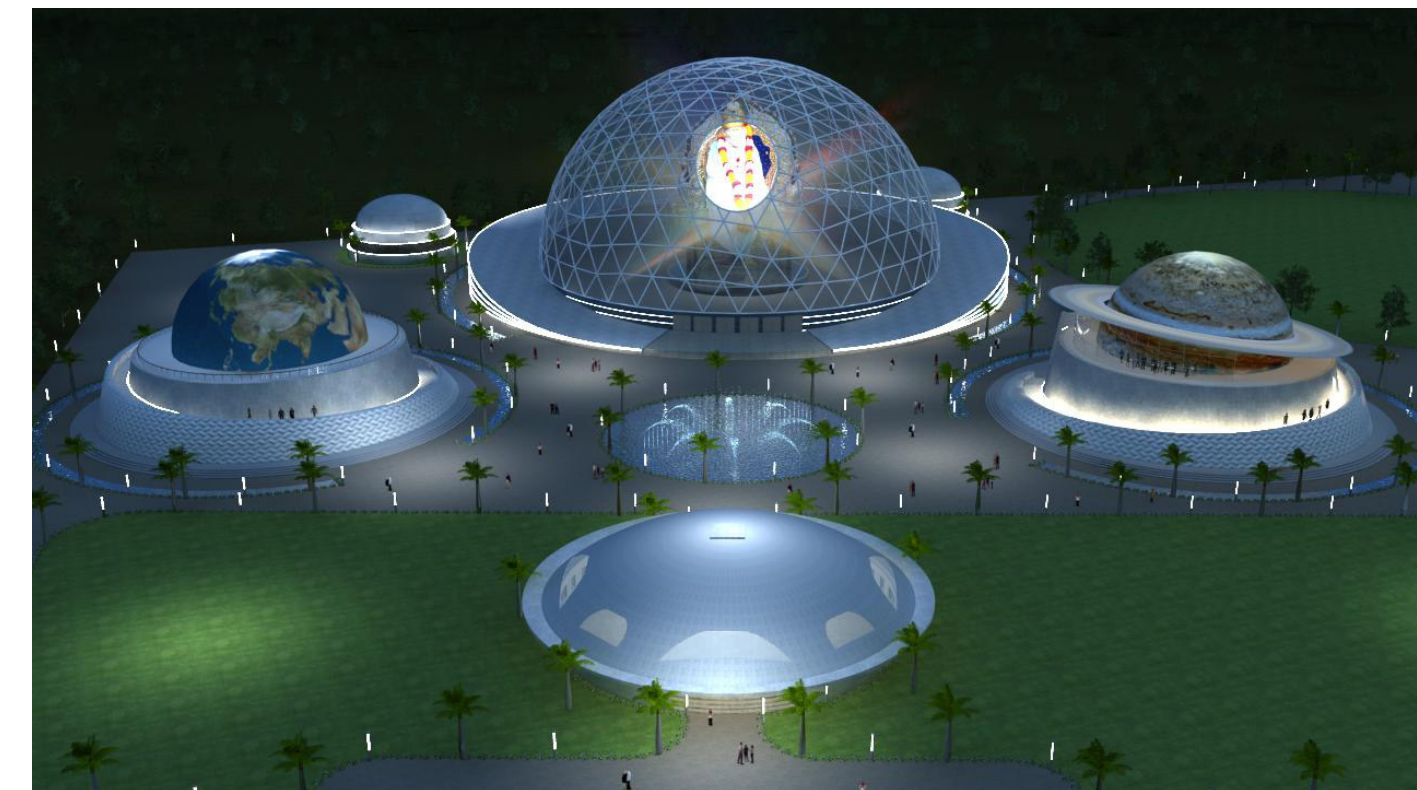
Worked on co-ordinating and preparing drawings accross Revit and BIM by means of softwares such as Codebook, Bluebeam.

Incorporated comments from the client as well architect leads from the US and Shanghai offices.

To access a detailed version of the workflow,  
kindly access:



## 'Shirdi in America'- Temple complex in New Jersey, US



Digital Technology Knowledge Park, Maharashtra, India

A temple complex conceptualised and designed as a replica of one in Maharashtra, India considering the local climatic conditions and norms of area requirements and allocations in New Jersey, USA. The temple is now in function and identifies itself as the replica in the West of a significant historic temple in India. Projects such as these involved in understanding the existing fabric of the town and the temple architecture and designing the same in a completely different environmental and social setup across the globe. It involved coordinating with architects in New Jersey to ensure the appropriation of the design guidelines and frameworks.

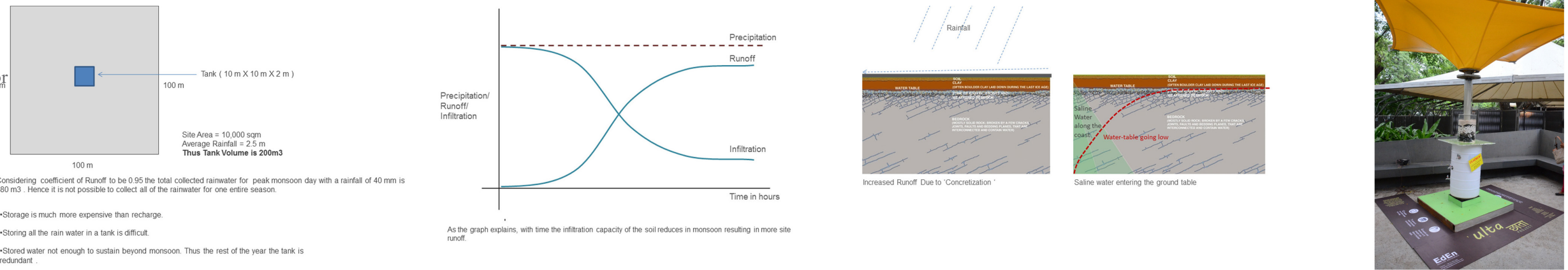
Projects such as the knowledge park with digital technology incorporations proposal in Shirdi, Maharashtra were a few initial experiences of working with architecture and design while incorporating technical architecture and digital design in generating a monumental piece.



# PROFESSIONAL

EdEn (Educated Environment), Mumbai, India  
2013 (3yd Yr. Arch. Voluntary Summer Internship)

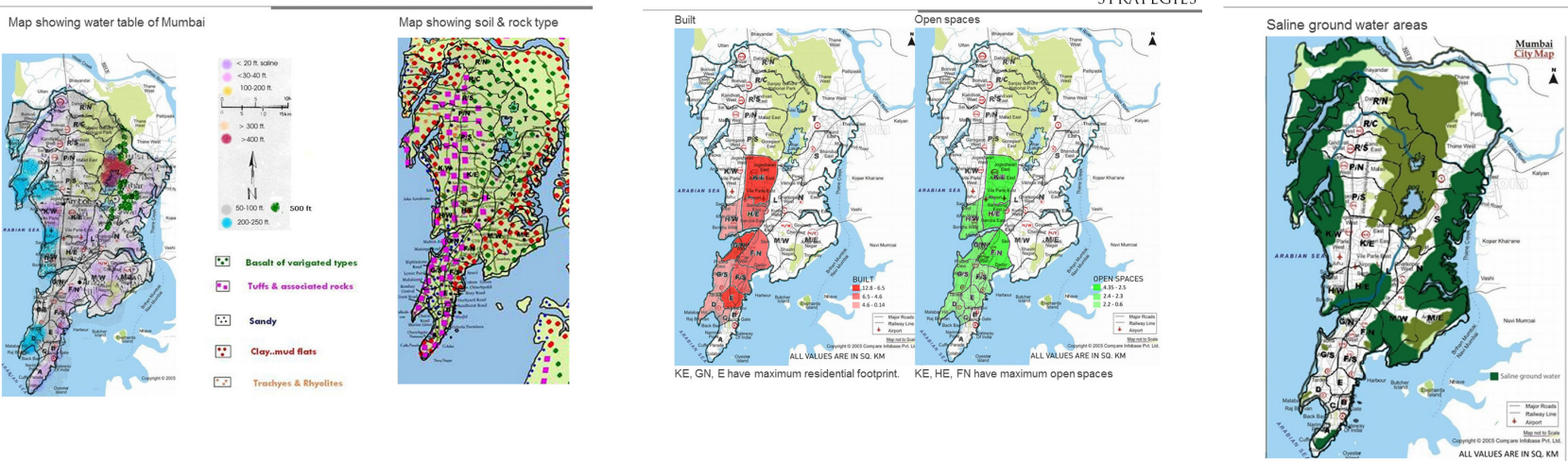
To understand and implement the techniques of rain water harvesting, it was essential to have a strong justification for water storage, recycle, recharge etc. It was done methodically considering a few instances and assumptions on the basis of the study done.



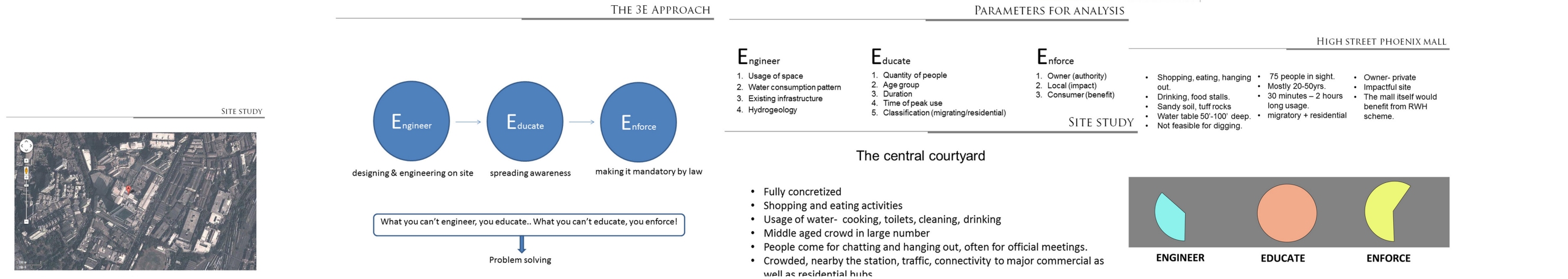
SOIL TYPE ANALYSIS			
Area	Ward	Geology	Properties of Rocks
Bandra(W)		Tuff & Associated Rocks	Medium water holding capacity, low permeability
Khar(W)	Ward HW	Chy. mud flats	Higher water holding capacity
Santacruz(W)		Tuff & Associated Rocks	Medium water holding capacity, low permeability
John	Ward KW	Sandy	High infiltration rate, Lowest water holding capacity
Vile Parel(W)		Chy. mud flats	Higher water holding capacity
Mahar Mill	Ward D	Tuff & Associated Rocks	Medium water holding capacity, low permeability
Raj Bhavan			

Source: Geologist Amar Joshi's Documents

Source of properties of rocks: e- book- Soil Survey of Shasta Country Area, California, By United States Bureau of Chemistry and Soils.



The selection of site was a mapping exercise of understanding the city on the basis of its structure and the wards which were then mapped as per land uses for site selection backed by a statistical justification. Further study on geology of the city also facilitated in identifying key areas for rainwater harvesting.





# CONTACT

## DISSERTATION:

[The Economic Implications of Urban Regeneration: The Gentrification of Madh Island, Mumbai](#)

## ART AND ARCHITECTURE

- [Architecture | Imagination, Visualisation & Representation](#)
- [The World of Architecture & Films | Understanding Architecture's implications in Set-Design](#)

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