

Architectural Portfolio

ritik jain

Curriculum Vitae



Ritik Jain
Architect

I am a young architect who is passionate about designing for the future with an uninhibited architecture approach. Architecture for me is how science and technology can be explored with an intention to improve the natural milieu. The vision beyond brick and mortar is what defines my architectural journey. For me, architecture is an art that is full of life.

I am a creative seeker, problem solver, and disciplined person. The portfolio reflects my knowledge of different typologies of architecture and my passion for contributing to mankind.

Date of Birth

28th January 2000

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5 - Rambaug 3, Gangapur road,
Nashik - 422005, Maharashtra.

Language

English

Hindi

Marathi

Marwari

Gujarati

Education

2017 - 2022 M.V.P. Samaj's College Of Architecture (CANS), Nashik
Bachelor of Architecture with CGPA 8.9/10

2015 - 2017 R.Y.K. Science College, Nashik
Higher Secondary Education
Maharashtra State Board

2015 Don Bosco High School, Nashik
Secondary Education
Maharashtra State Board

Technical Tools



Documentation

2017 Pandav Leni Caves, Nashik Heritage
2018 Kere Thonnur, Karnataka Rural (Study Tour)
2018 Shaskiya Kanya Vidyalaya, Nashik Heritage
2017 Deolali Railway Station, Nashik Heritage
2018 Malvan, Sindhudurg, Maharashtra Rural (StudyTour)
2018 Dahaur, Nashik Rural (ANDC Competition)

Architectural & Design Interests

Residence Design	Conceptual Architecture	Interior Design
Urban Planning	High-Rise Architecture	Product Design

Personal Interests

Architectural Visualization
Singing
Sculpturing
Travelling
Financial Investing
Food & Chai
Sitcoms & Movies

Participations

Time Management	2017 Zonal NASA Convention, Sinhagad Dance Trophy, Reubens Trophy Citation
Goal Oriented	2018 Zonal NASA Convention, D.Y.Patil OS. Design Trophy, Reubens Trophy Citation
Organized	2019 Zonal NASA Convention, J.N.E.C. Reubens Trophy Head
Team Management	2019 Annual NASA Convention, Film City Reubens Trophy Head, Landscape Trophy
Communication	2020 Streets For People Challenge, (MoHUA) Group of 8 Participants
	2021 Student of The Year Ethos Trophy NASA India

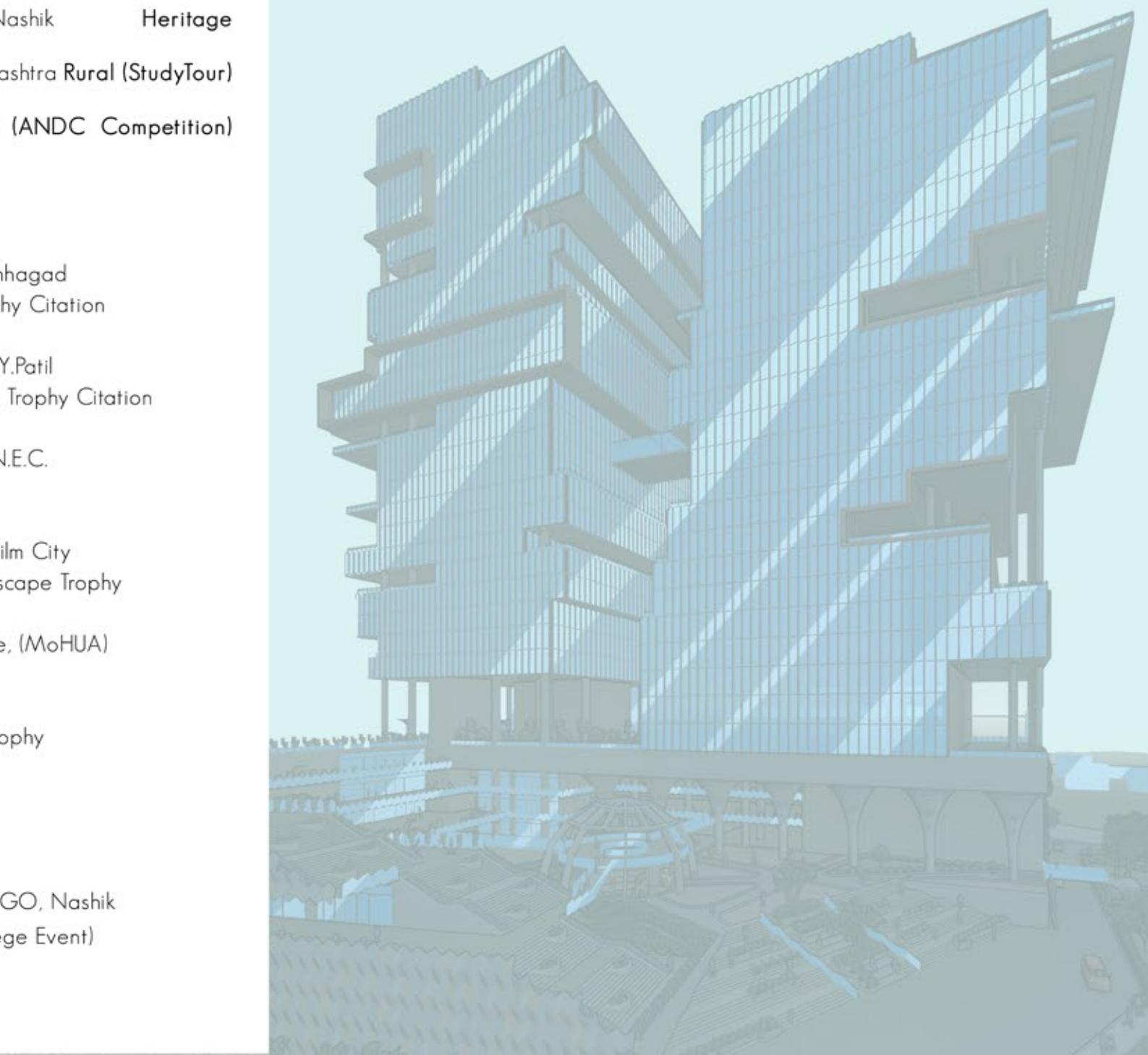
Seminar And Workshops

2017 Siporex Sculpture Workshop
2018 Mud & Bamboo Exploration
2018 Wood Working Workshop
2019 Parametric Bamboo Workshop

Volunteering

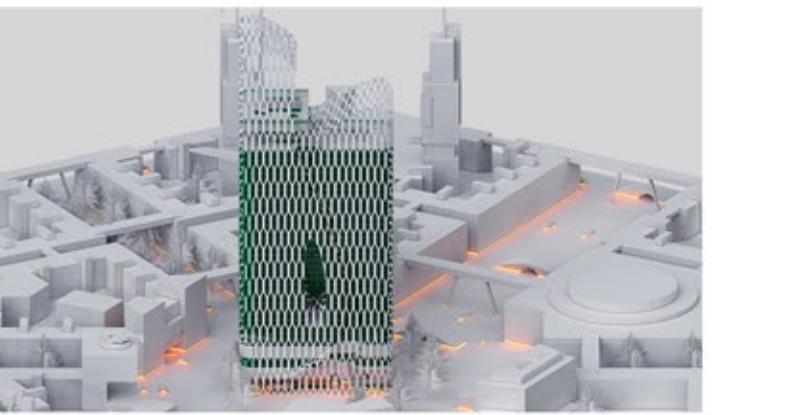
2018 Mistura Art Fest, Shaurya NGO, Nashik
2019 Headed THEE Awards (College Event)

Design
Evolve
Process...



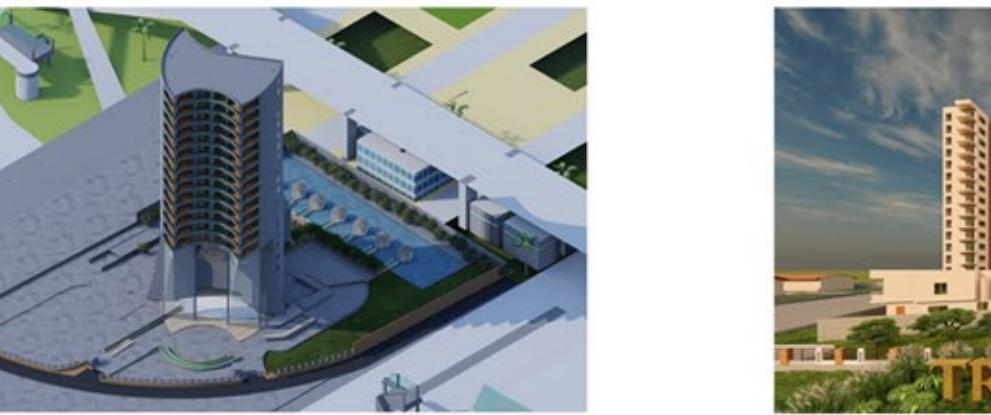
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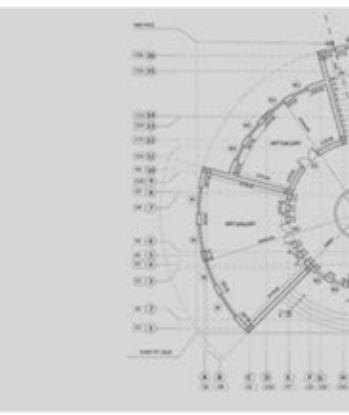
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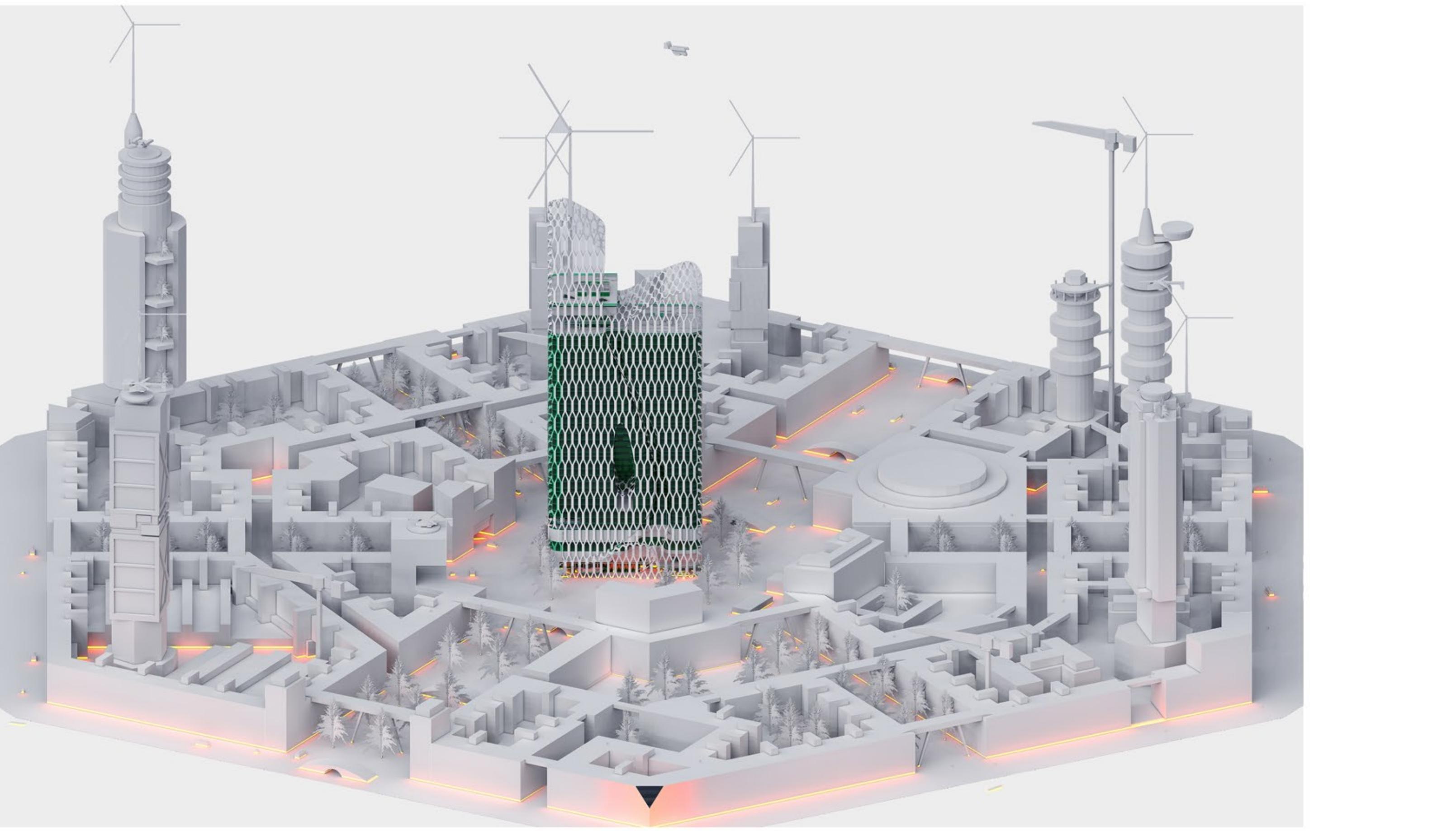


Professional

07



Miscellaneous



A Vision Beyond Brick And Mortar

Future Of Farms

5th Year | 10th Sem | 3 Months
Project Mentor: Dr. Prajakta Baste
Ar. Umesh Hirawe

This project as my thesis for my Bachelors in Architecture at NDMVPS's College Of Architecture for the academic year 2022. The design seeks to propose a hypothetical design for Future Of Farms

Project Location: Mumbai, India.
Site Area: 6 Acres (24281 sq.m)

The concept of a **vertical farm** is the remedy to this crisis. A vertical farm is farms stacked on top of one another, instead of branching out horizontally. The farm uses conventional farming methods such as **hydroponics** and **aeroponics** to produce more yields faster.

The modern ideas of vertical farming use indoor farming techniques and controlled-environment agriculture (CEA) technology, where all environmental factors can be controlled.

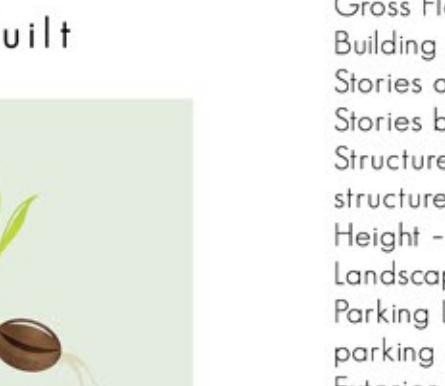
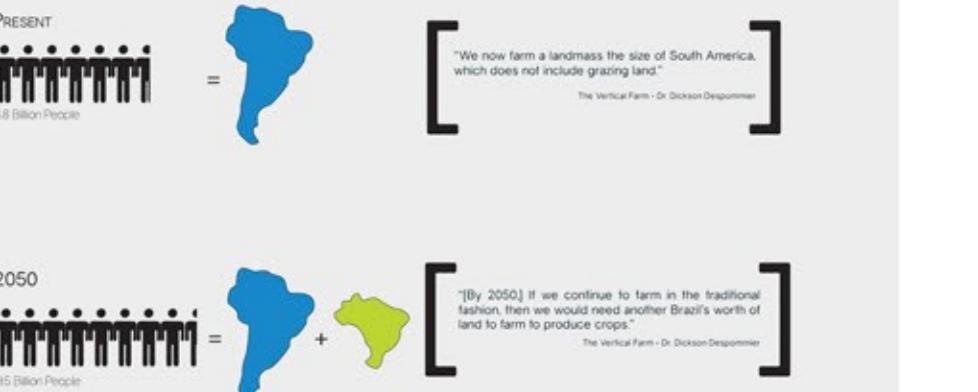
Defining the Problem

Cities around the world are growing at a fast pace and becoming rapidly urbanized. They are growing not just in quantity but also in density because of the rapid growth of the population and because half of the population of the countries move from rural areas to urban areas. According to the UN, 55% of the world's population live in urban areas and is expected to increase to 68% by 2050.

India is one of the many countries that has been influenced by urbanization. As the population continues to increase, food production also needs to grow to feed the people. However, due to the rapid growth of population and land use, there has been an increase in pollutants, and environment degradation which has caused unfavourable effects on agriculture in the India.

Urban dwellers do not understand the value of farming, which has helped us to feed people up to this point. They have no understanding of where and how food is being produced and distributed. People have become very dependent on powerful, profit-minded, unsustainable business to bring huge amount of produce from industrial farms into our markets and home.

These irreversible damages are so widespread that it endangers the rest of the course of our life and will continue to worsen at increasing rates if we do not address these problems. To avoid a global environmental calamity and a mass famine in the future we need to find an alternative approach of food production, one such way is through growing huge amount of produce within vertical buildings, warehouse or containers; the term for it is - vertical farming.



Case Study

Seoul Vertical Farm And Botanical Gardens

Site - Cheonggyecheon-ro, Seoul, Korea

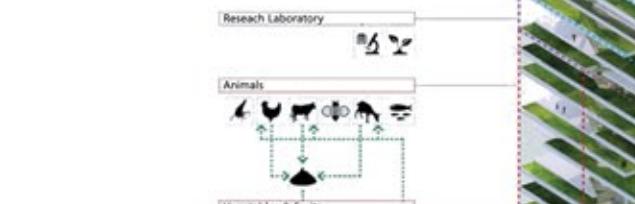
Site Area - 20,120 sq.meters
Building Area - 65,000 sq.meters
Gross Floor Area - 10,000 sq.meters

Building Coverage Ratio (%) - 50%
Stories above Ground - 80 stories
Stories below Ground - 4 stories

Structure - Wood and concrete structure
Height - 300 meters

Landscape Area - 70,000 sq.meters
Parking Lot - Underground automated parking

Exterior Finish - Micro-Algae bioadaptive façade and prestressed Carbon - Dioxide absorbing concrete skin held by steel structure.



Design Brief

Integration of different types of technology with the intentional design intervention on the building architecture will create a sustainable solution for the new century market farm typology where each resources used will be fully utilized and not wasted. Both major consumer of the resources are the crops and the users, hence integrating both consumers pattern together and form a loop of resource reuse system will minimize waste and promote sustainability. The integration will benefit the environment by giving out minimal solid, liquid, or gaseous waste, reducing green house gas by taking in and turn it into oxygen and maintain a great supply of potable water. It can also generate energy through photovoltaic panels and use less power from the grid system. Built in technology will also reduce the cooling load and hence reducing the power consumption in overall, the system aims to create a low carbon environment for the people to live in.



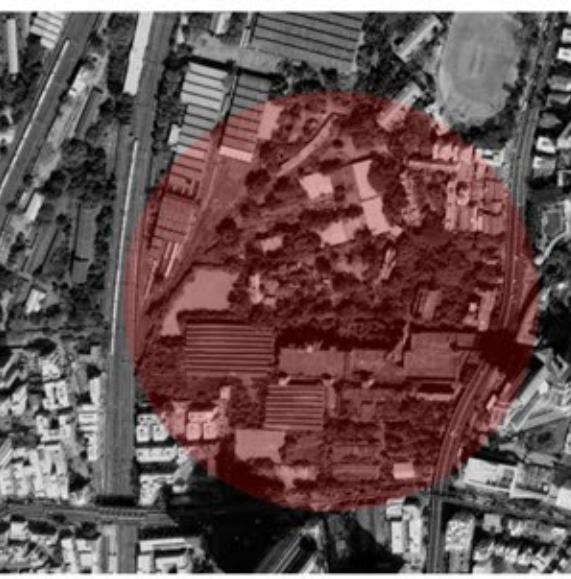
" We need a "double green revolution" where we will have to think about lowering the environmental impact of farming as well as doubling productivity.
- Bill Gates "



Mumbai



Parel East, Lalbag, Mumbai.



India United Mill Unit 01

Site Selection

India's first and world's sixth biggest metropolitan area, capital of Maharashtra state, commercial, financial and entertainment capital of the country, home to over 21 million people, density of 25000 people per square kilometers.

Mumbai is the most populous city in India and second most populous city in the world.

Urban Farm will reduce the need for commuting and the extra development of the transportation system and it will replace the urban zoning strategy by more sustainable. The aim of this project is the formation of a new social and urban order and that can be replicated as it represents traditional human values lost in the process of modernization and progress. This thesis is to make the farmers do what they're best at, but in a more skilful way that would make them yield 9 times more of what they earlier used to through vertical farming.

Criteria

The site selected shall meet the Economical and Practical need of the users.

The site is located in the Urban area.

Site - India United Mill Unit 01

Redevelopment of mill lands is one of the few options left for a sustainable revival of the city.

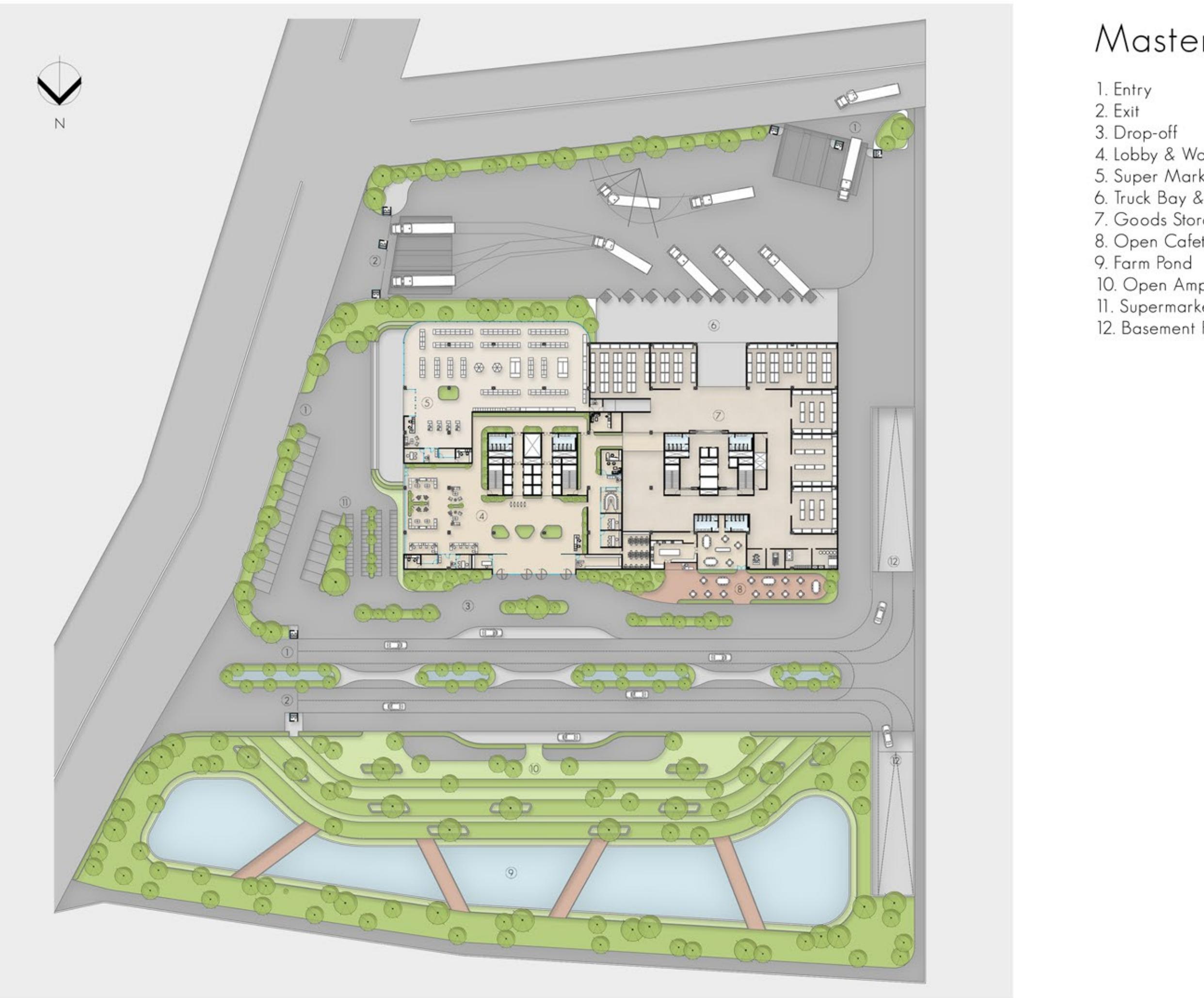
Mumbai's ecological, social & cultural aspects are the fundamental drivers in this process of urban revitalization.

The selected site is a such 6 acres of mill land, a part 16 acre campus of the abandoned India United Mill unit 2 and 3 at Byculla.

The Govt. of Maharashtra is set to develop this mill land for development and has been reserved for public use.

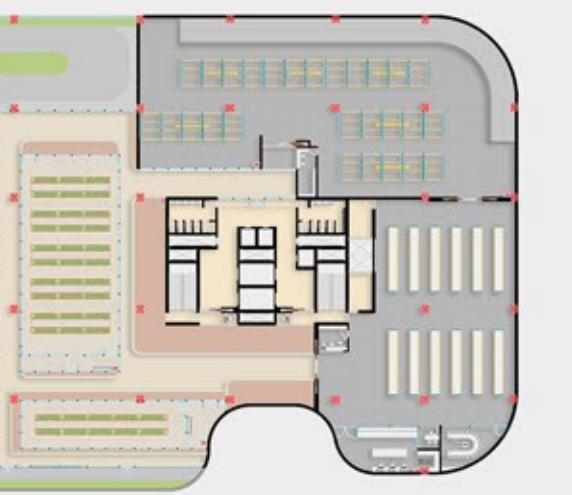
The site is ideally located in a tight residential area, which houses various communities and classes.

The site full fills the criterias and is ideal for the programme and design brief.



Master Plan

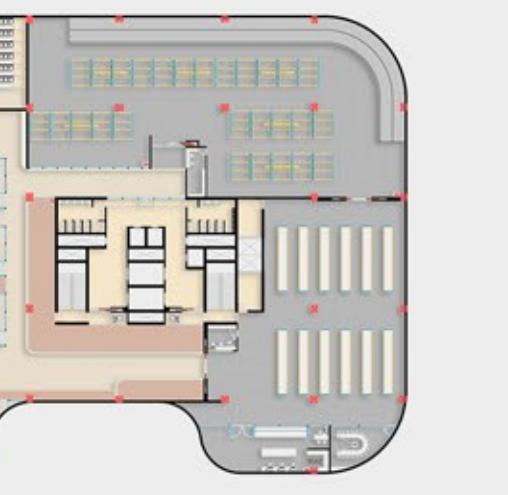
1. Entry
2. Exit
3. Drop-off
4. Lobby & Waiting
5. Super Market
6. Truck Bay & Loading/Unloading
7. Goods Storage
8. Open Cafeteria
9. Farm Pond
10. Open Amphitheatre
11. Supermarket Parking
12. Basement Parking



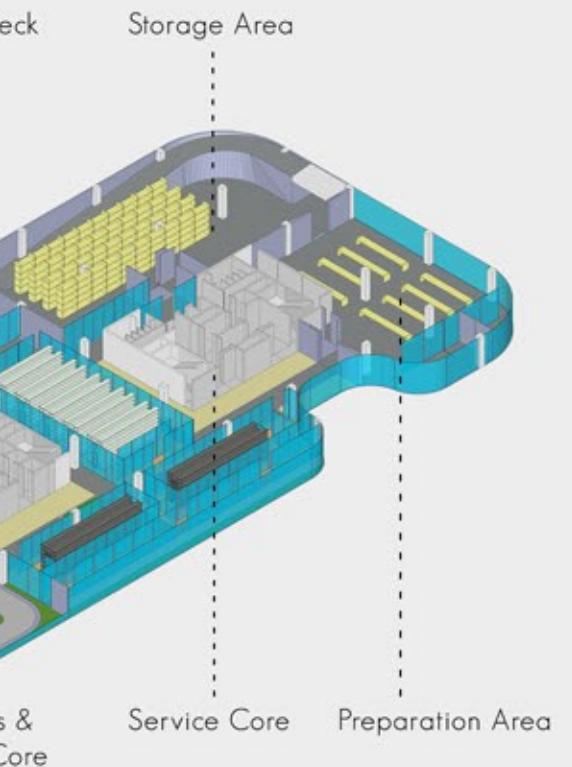
Visitors Floor Plan
N



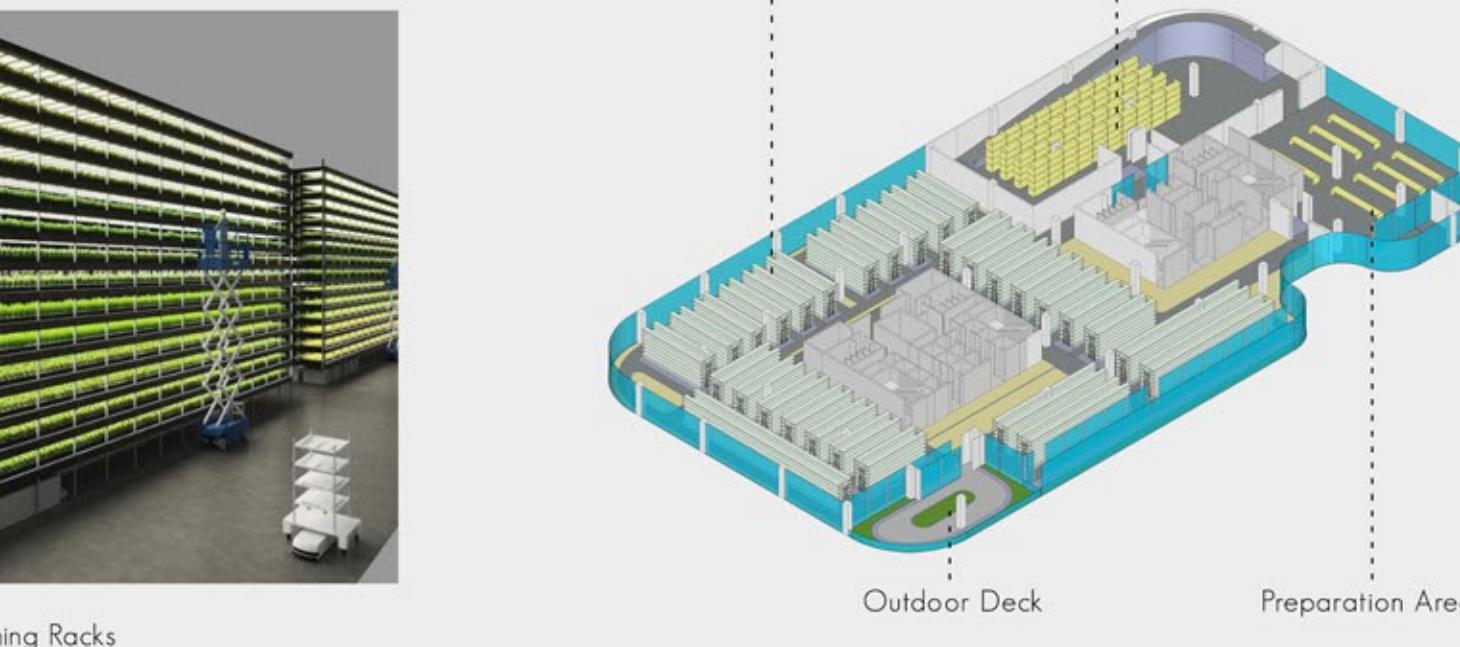
Training Centre Floor Plan
N



Farming Floor Plan
N

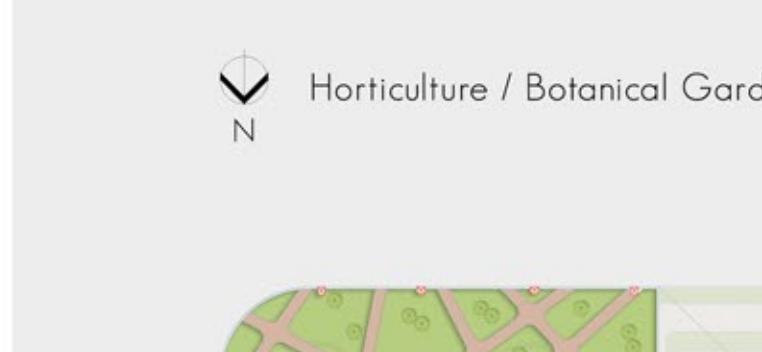
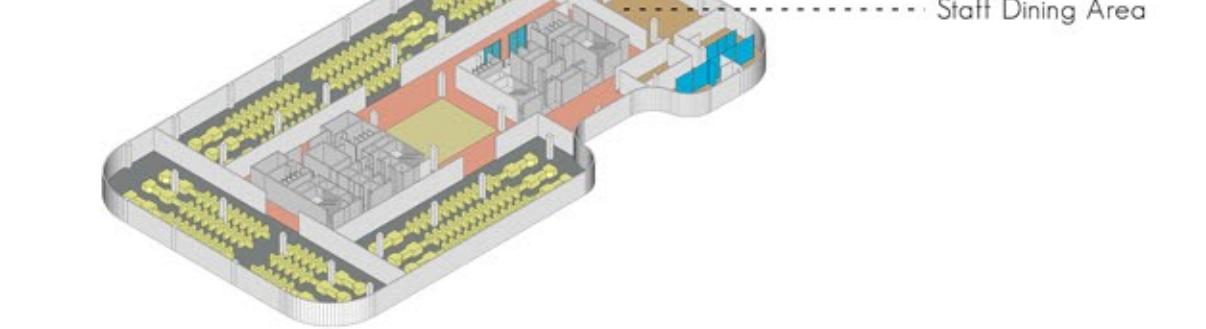
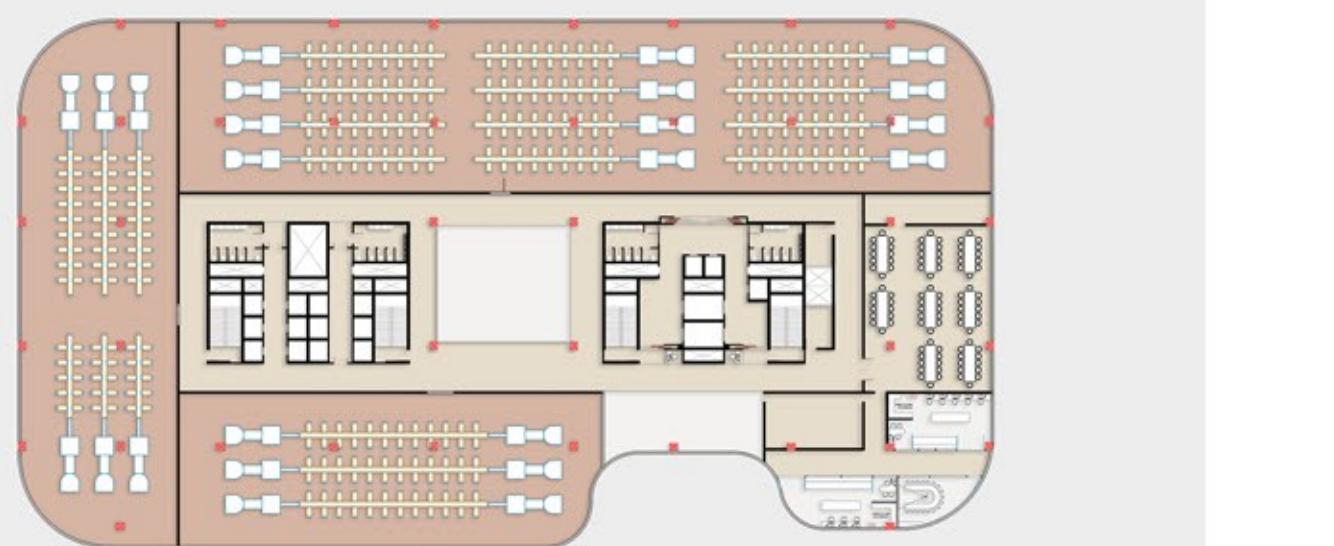
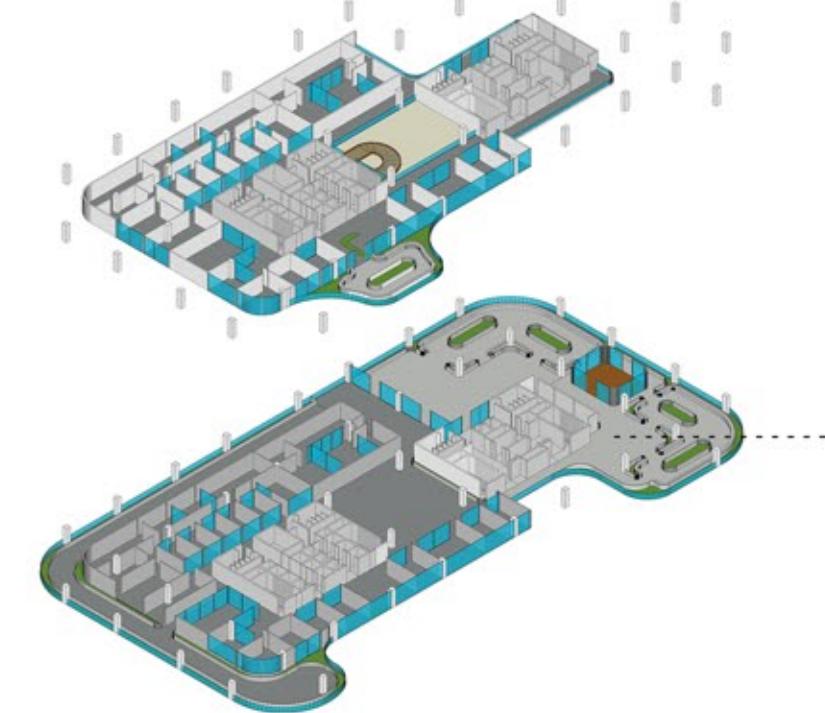
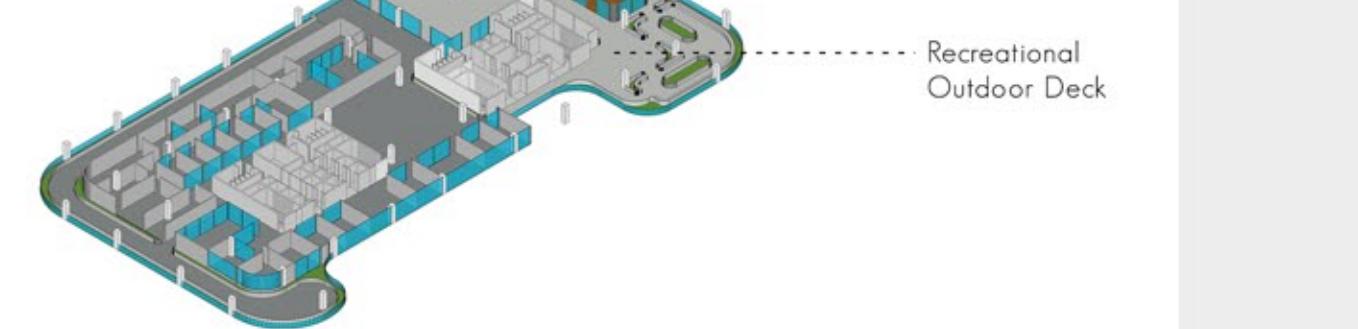
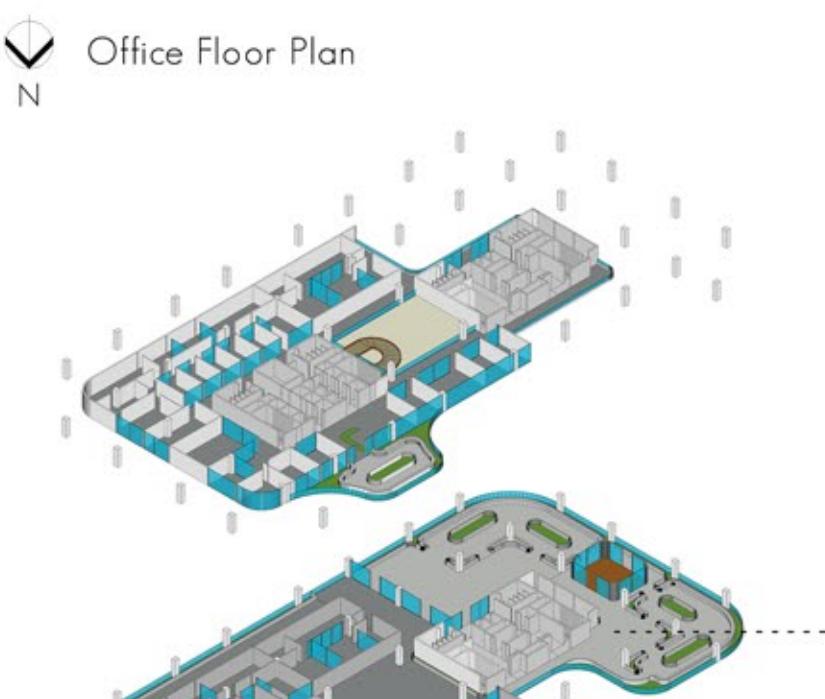


Hydroponic Farming Racks



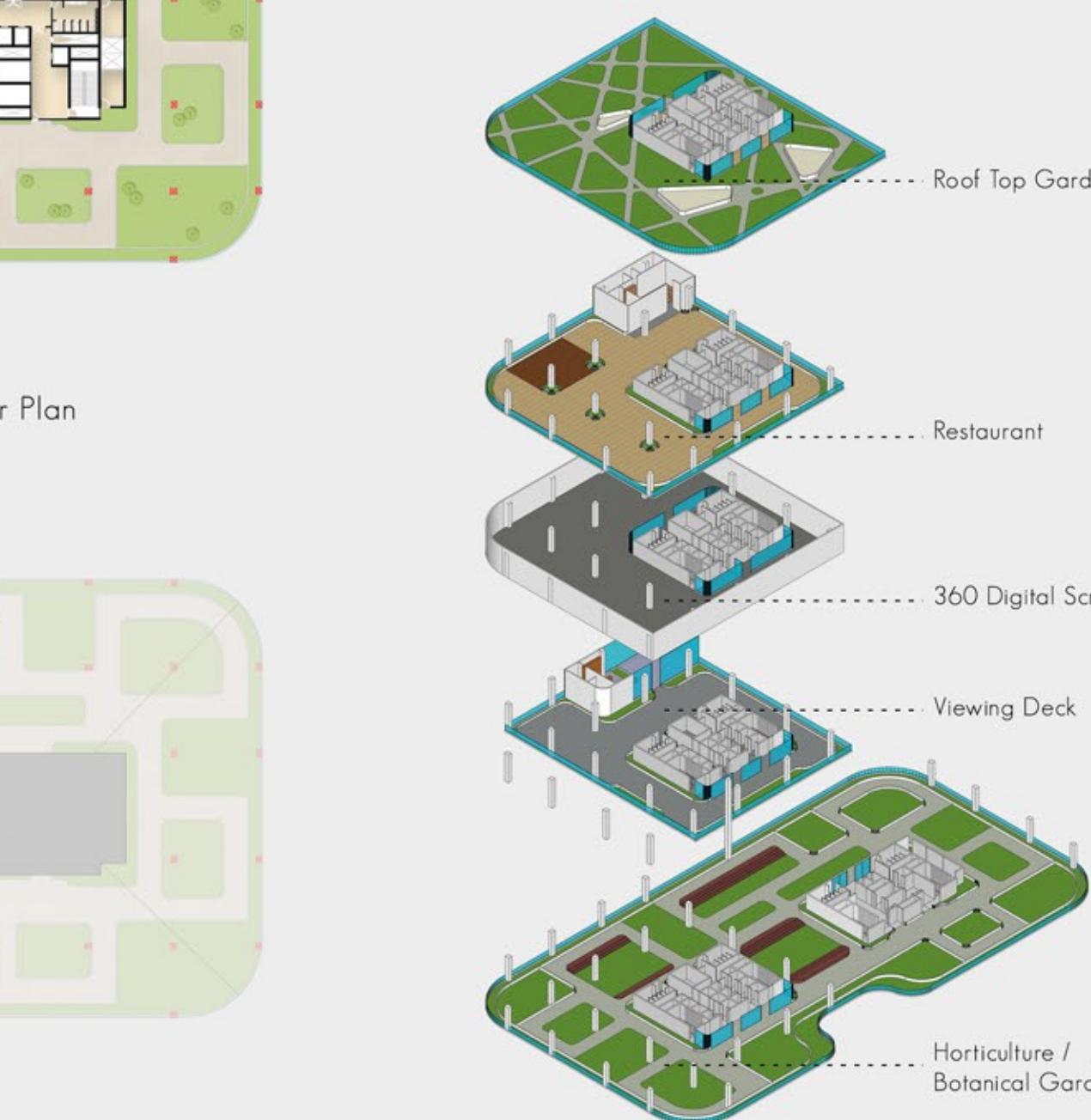
Outdoor Deck
Preparation Area

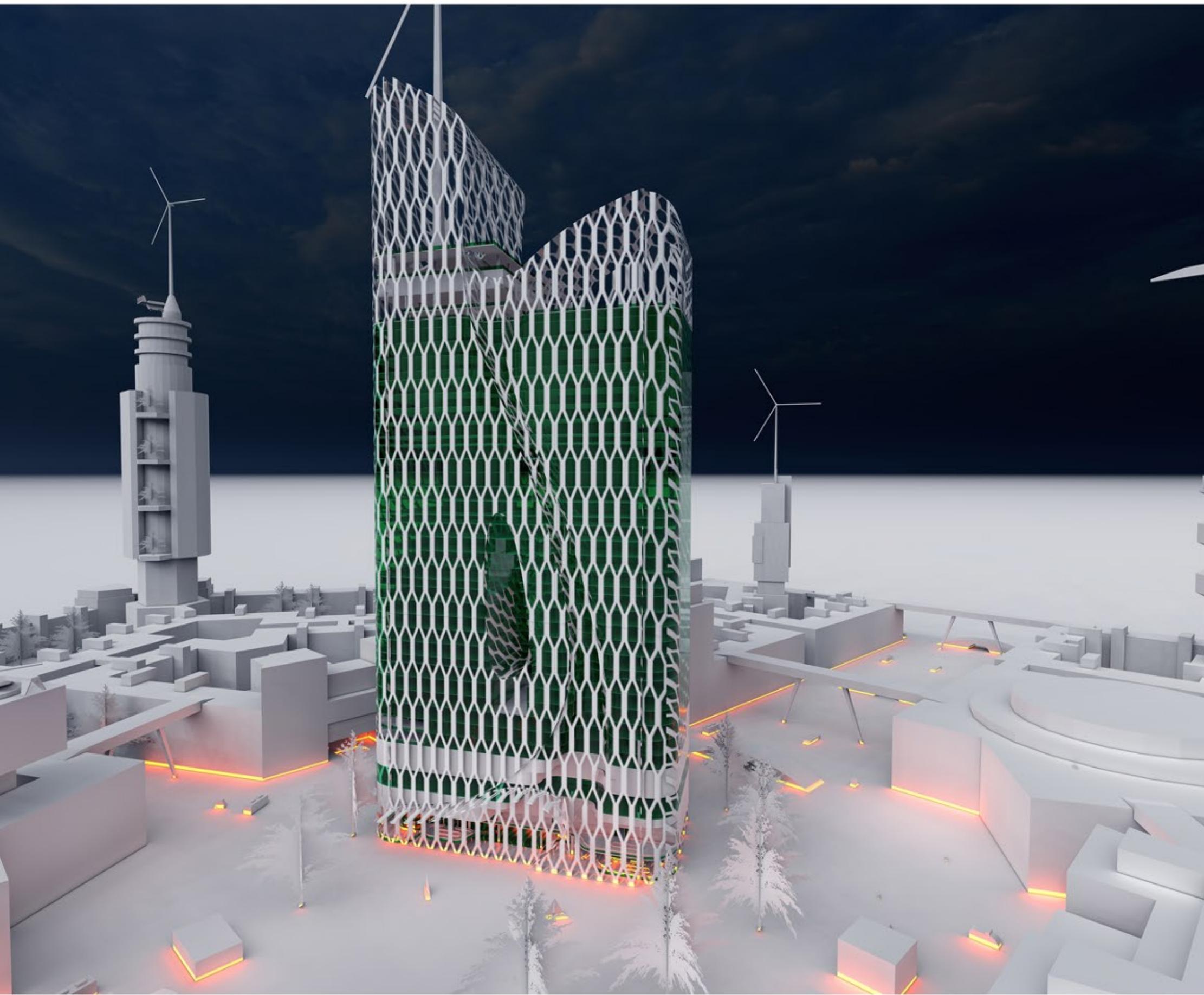
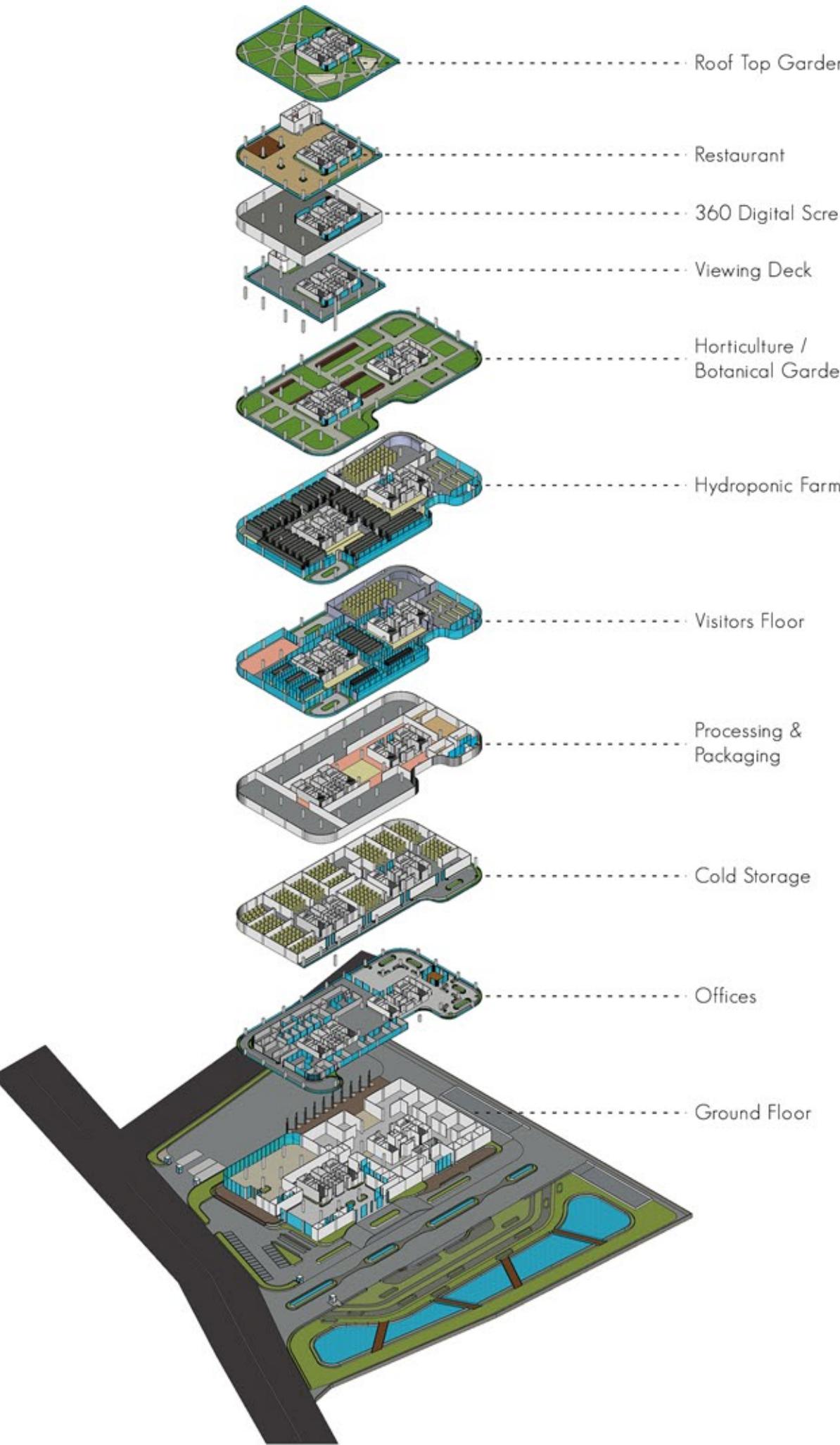
Floor Plans



N

Roof Top Garden





Business Hotel



" Every building must have... its own soul " - Louis I. Kahn

3rd Year | 6th Sem | 3 Months
Project Mentor: Ar. Nandan Malani

Project Location: Kolkata, India.
Site Area: 12440 sq.m (133903 sq.ft)

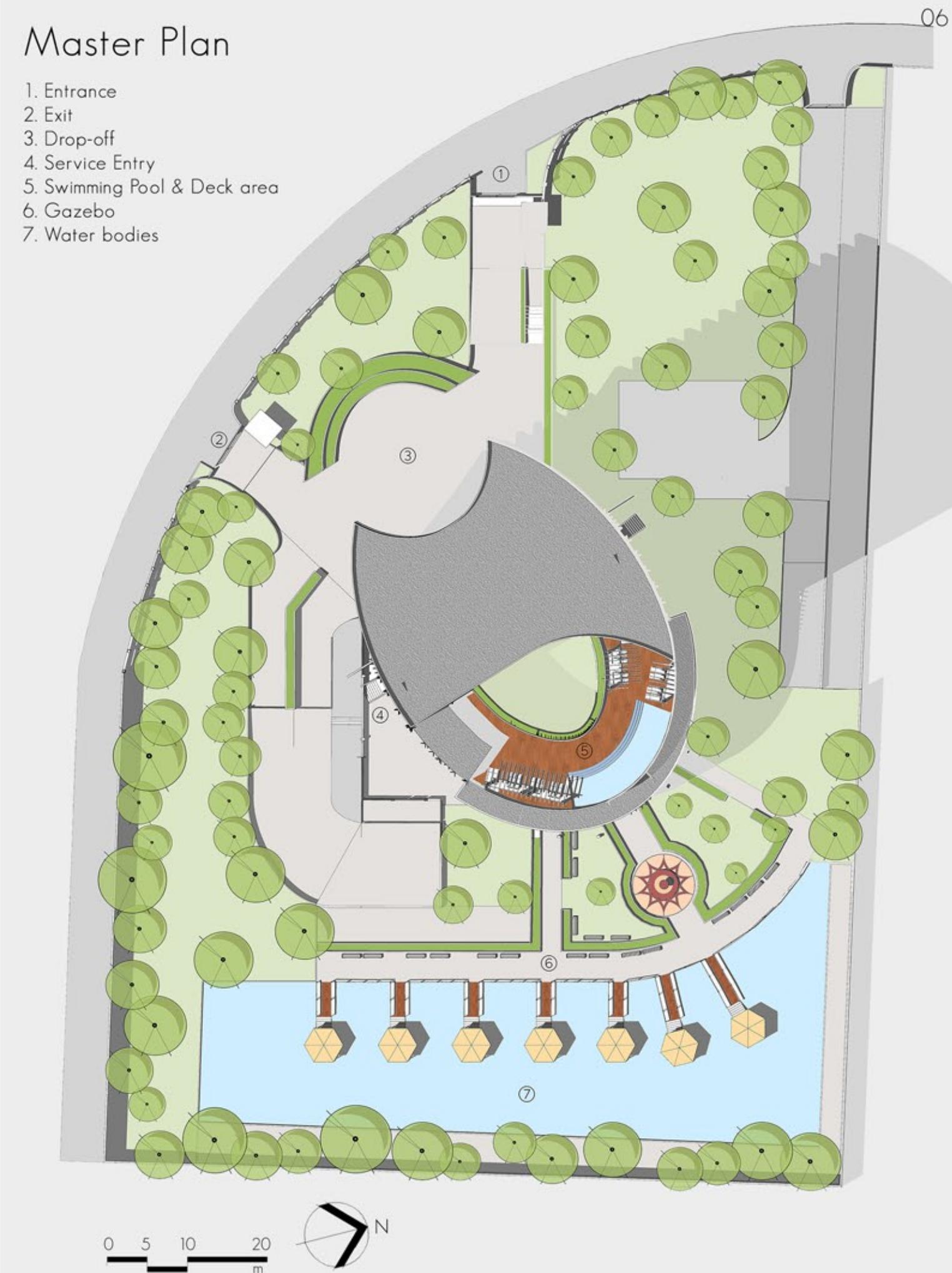
Hotels play an important role in the society as a way to get together with the people and socially interact and also becomes one of the ways to be entertained.

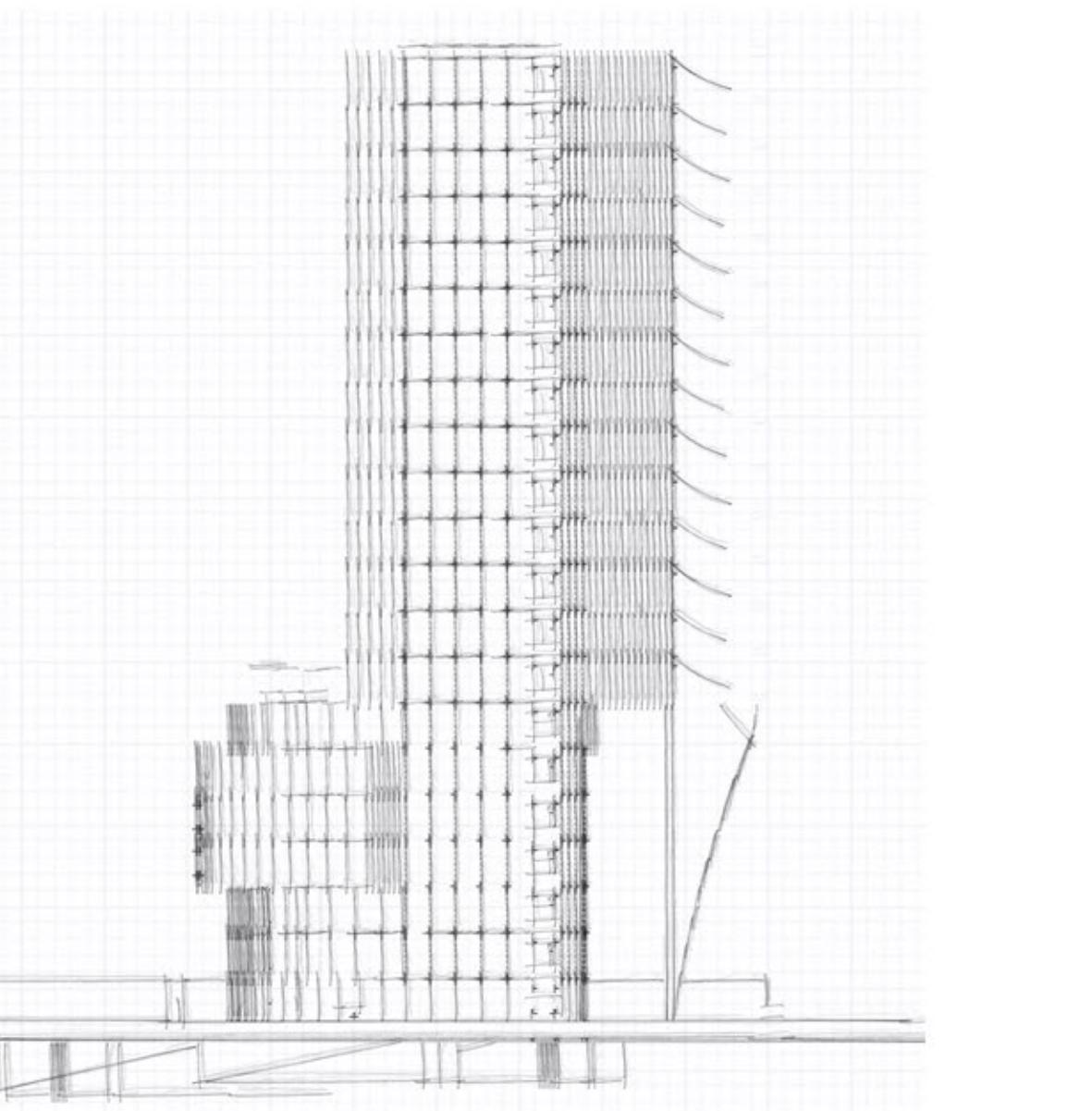
To design a four-star business hotel in the city of joy which is Kolkata, the design should function with respect to climate, culture, its users and should become a landmark for the city. It should deal with complexities related to services and structure with respect to site planning and integration of complex relationship between the form, function and context. The design should focus on the grandeur of the space with respect to materials.

To understand the functioning of a business hotel in terms of integration of services in high rise hotel structures and facilities provided for the users as well as the working staff.

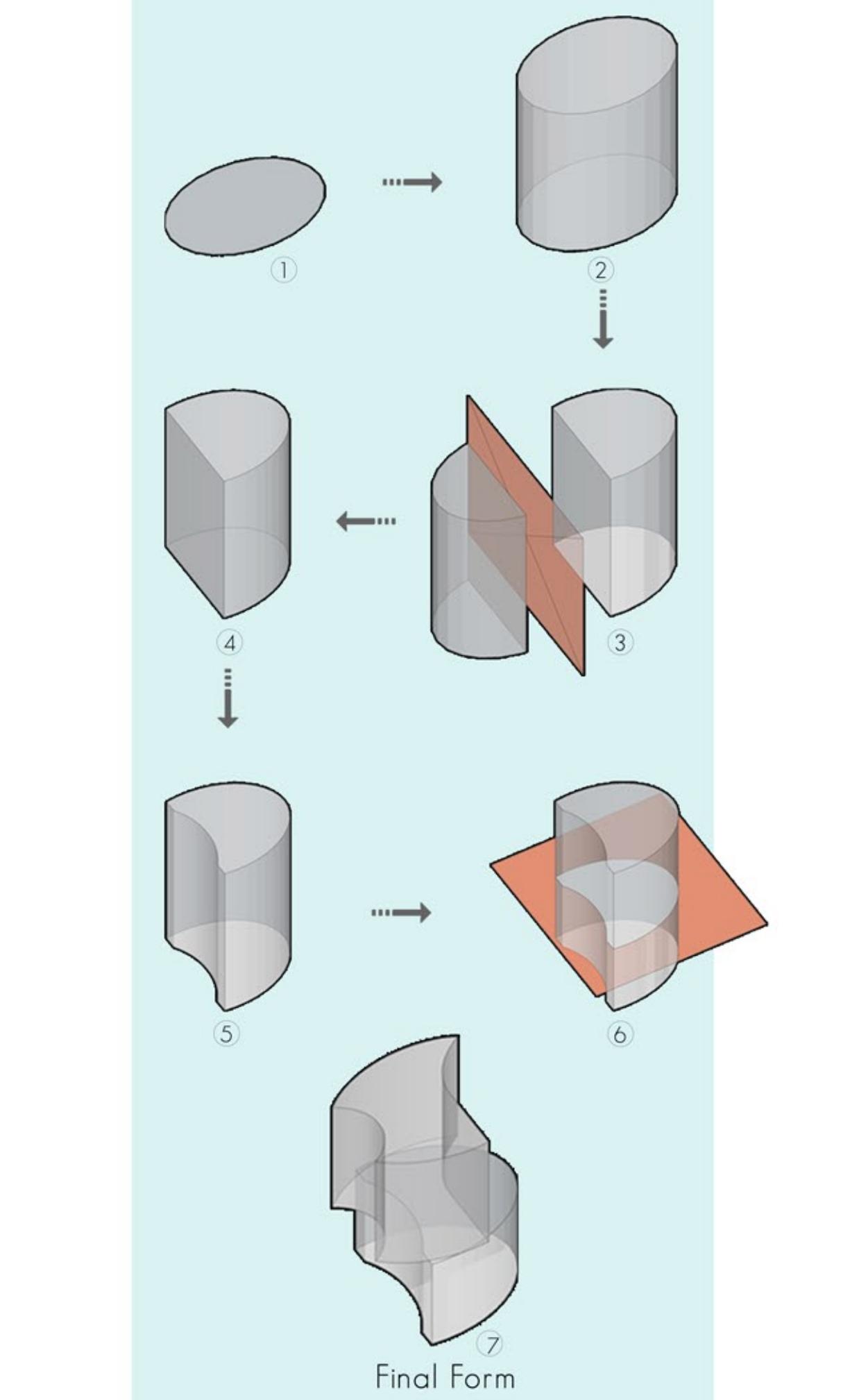
Master Plan

1. Entrance
2. Exit
3. Drop-off
4. Service Entry
5. Swimming Pool & Deck area
6. Gazebo
7. Water bodies

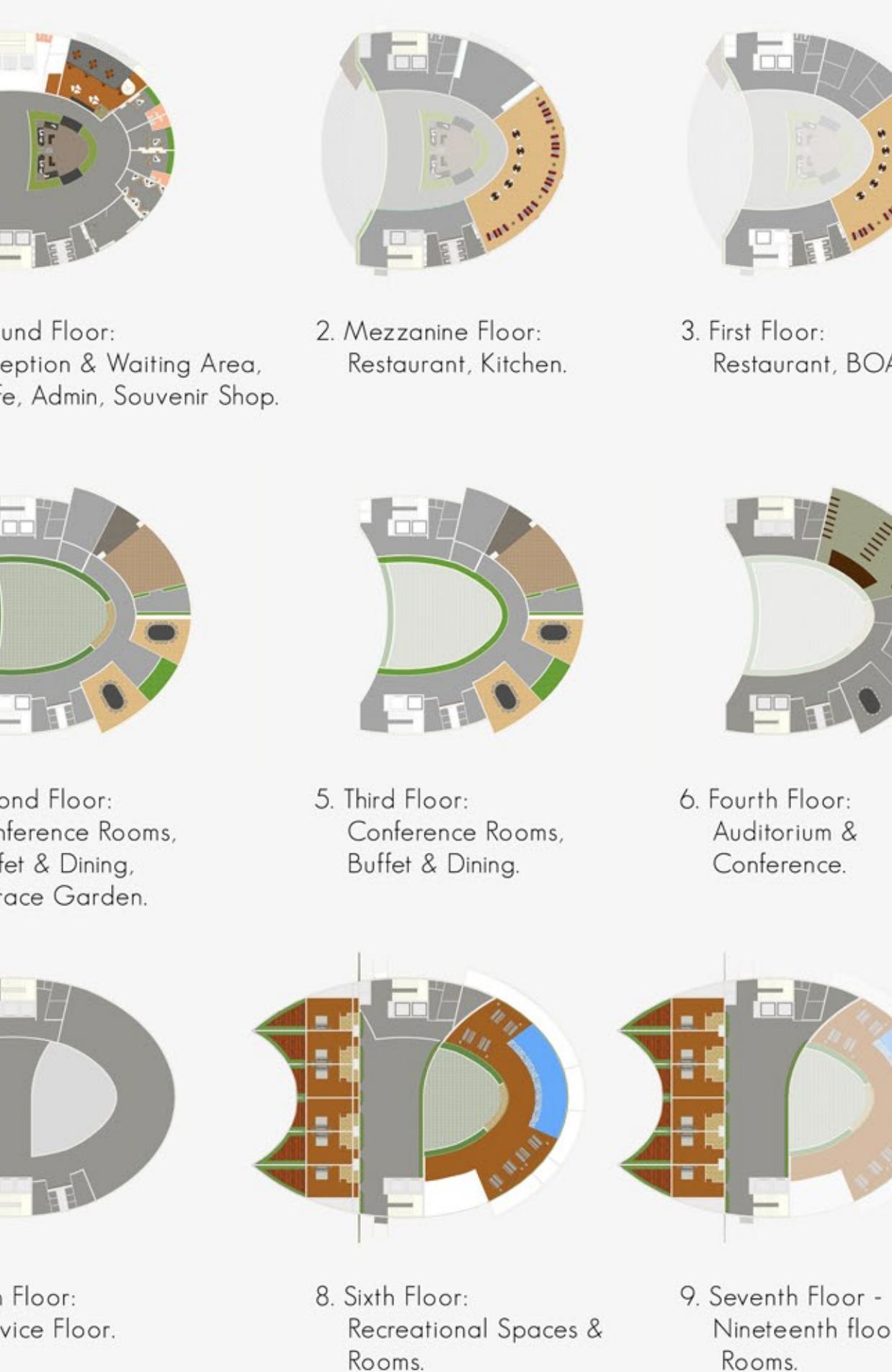




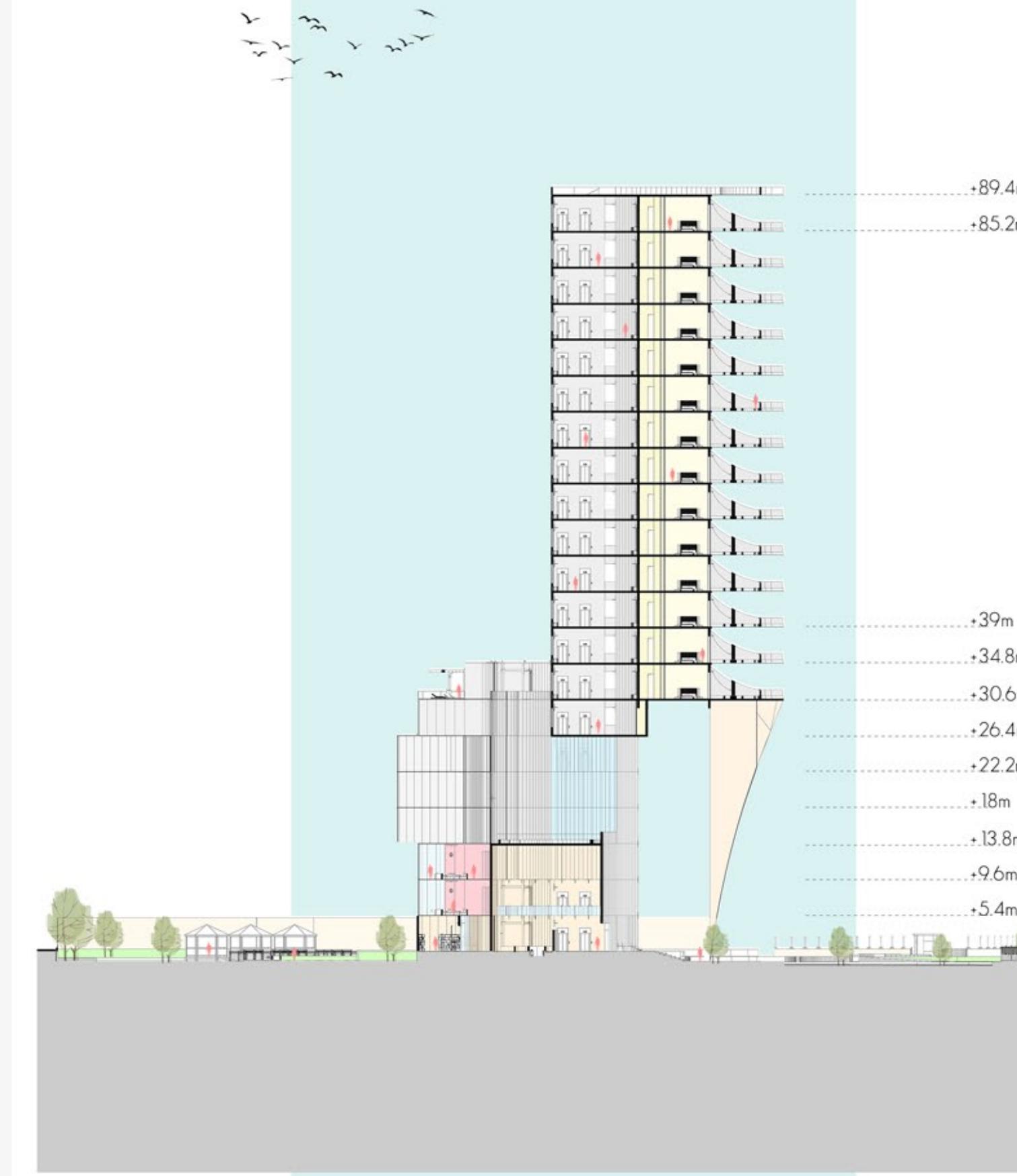
Initial Sketch

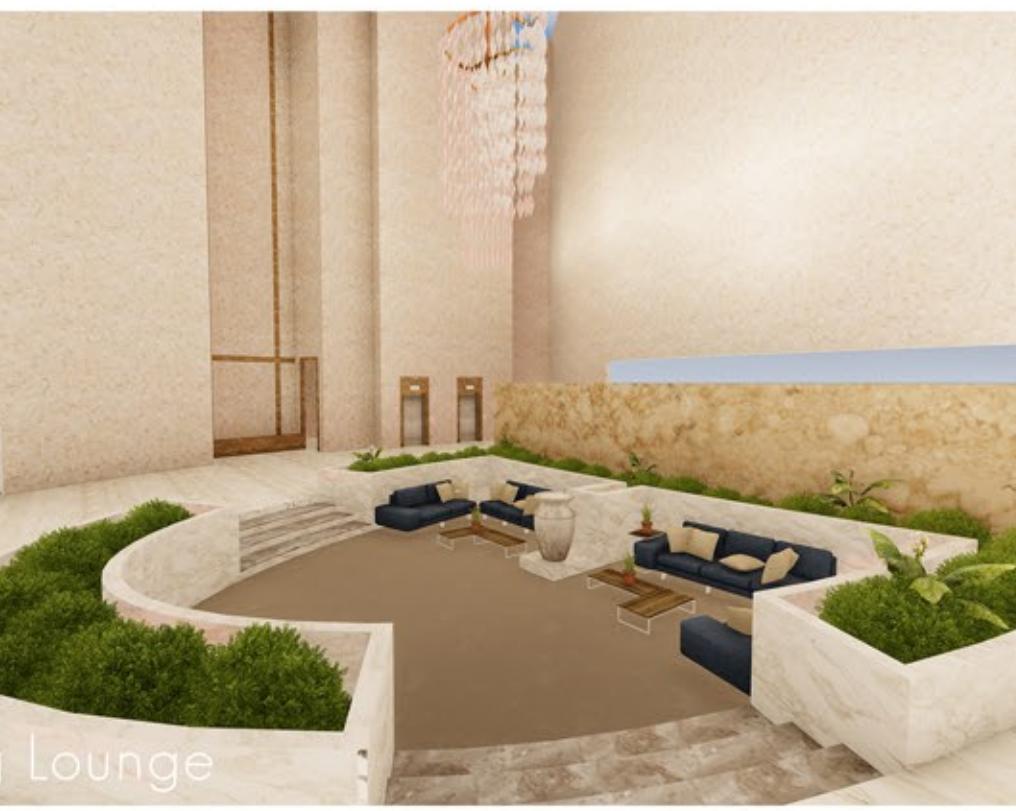
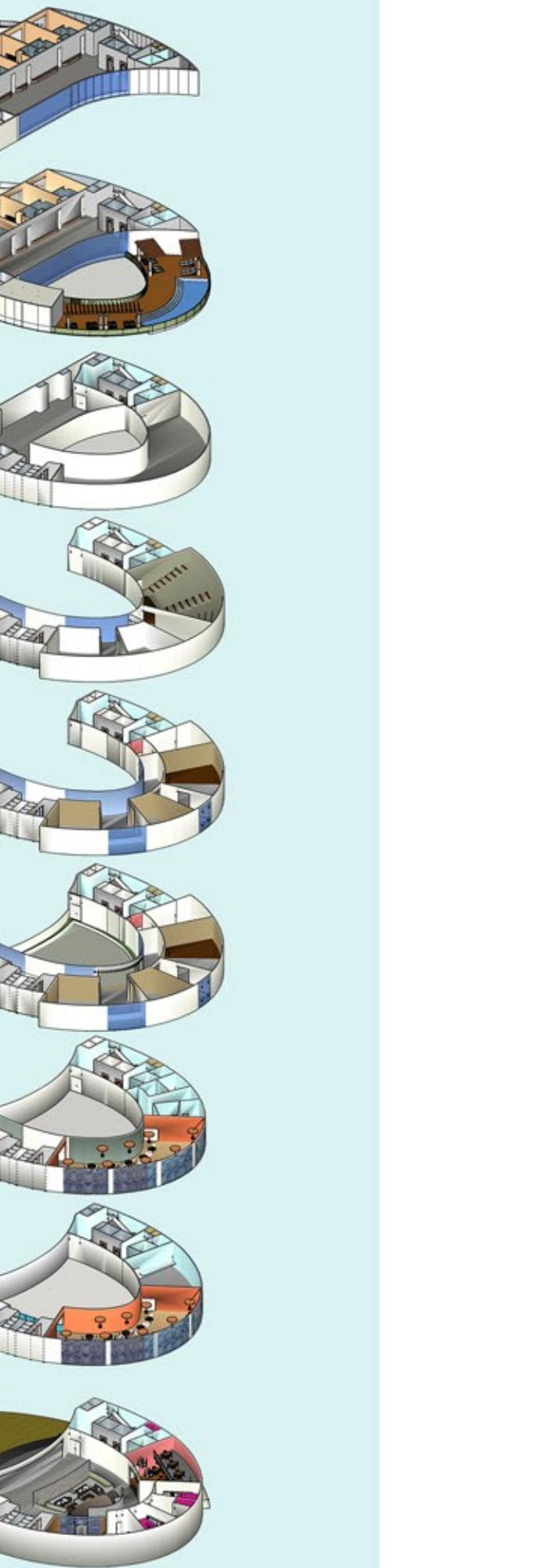


Floor Plans



Section







Mass Housing

4th Year | 7th Sem | 4 Months
Project Mentor: Ar. Nitin Nikam

Project Location: Nashik, Maharashtra.
Site Area: 30,064.8 sq.m (7.42 Acres)

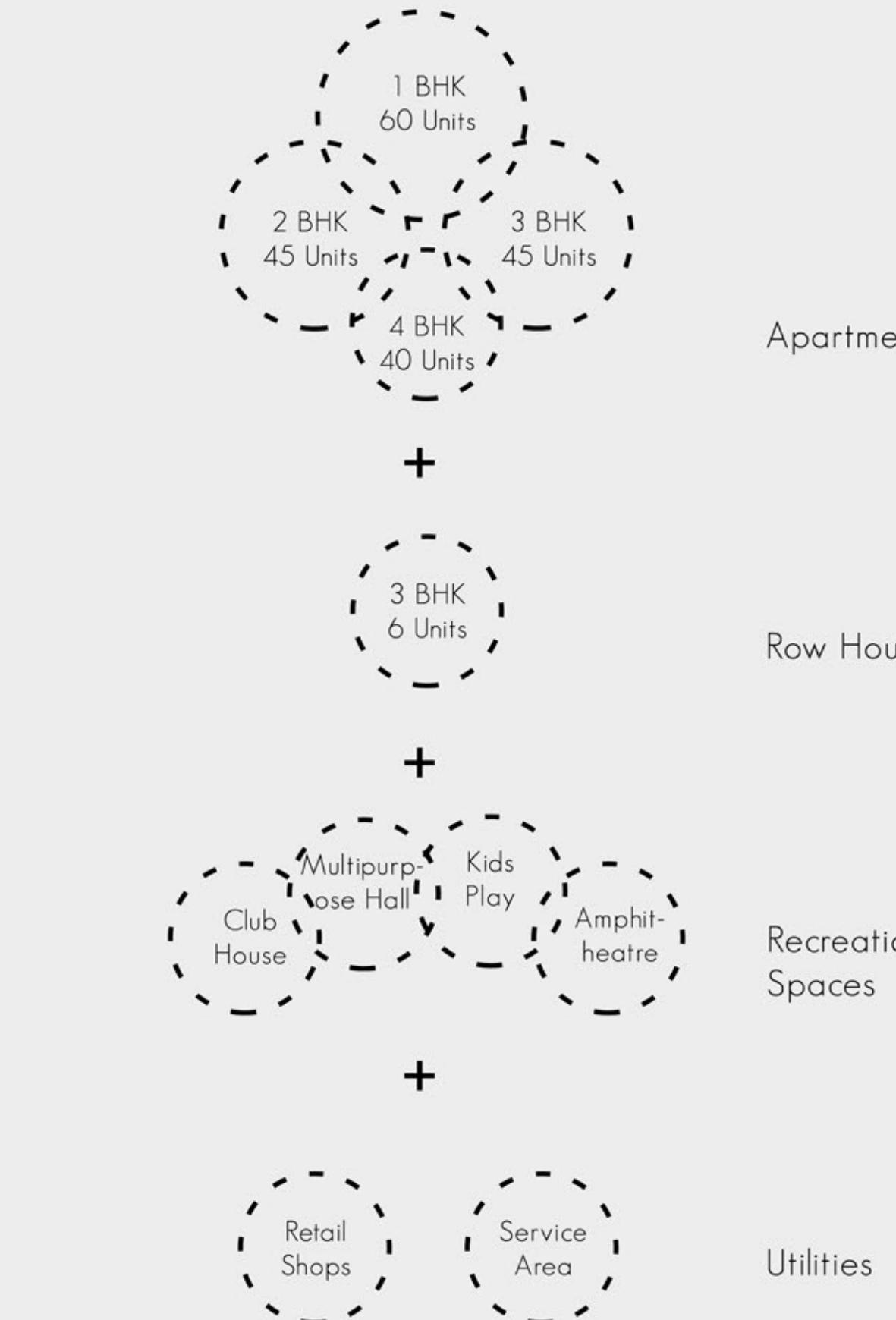
Residential spaces plays an important role in the success of a city and it's inhabitants. They become the foundation to which those living and visiting in the area come together and communicate. Mixed use is the necessity to accommodate today's urban housing need considering rapid urban growth for future.

Project Based on Mass housing-(mixed used), with emphasis on urban context - planning & relationship of built and un-built spaces, parking circulation, Function, movement pattern, activity pattern, architectural character and image of the city etc.

The major emphasis with this project is redevelopment of housing in Nashik City. This will be done by analyzing existing condition, identifying problems, demand of real estate, Urban need in first stage and second stage would designing a livable space will have the elements to bring a community together by embracing the environment in the area.

Brief Requirements

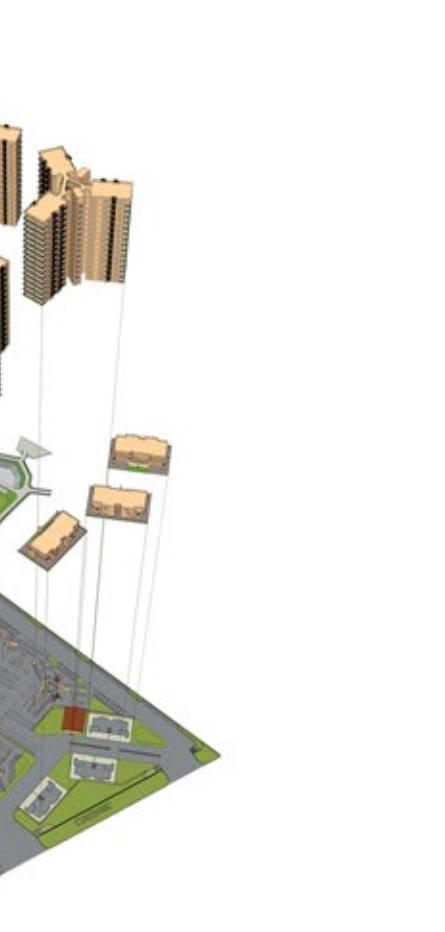
The major concern is to develop the site in such a way that all residents irrespective of their class and typology of house should get bigger open spaces / breathing spaces with beautiful surrounding views. At the same time should bring people together as a community.





Master Plan

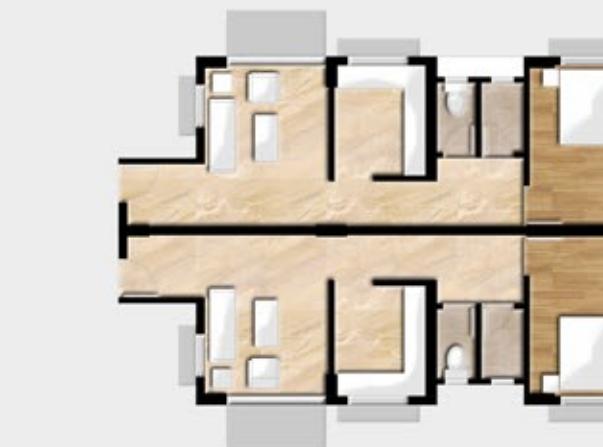
Unit Plans



Unit Plans



1 BHK (Type 1) : 40 sq.m



1 BHK (Type 1) : 54 sq.m



Row House : 114 sq.m



2 BHK : 105.50 sq.m



3 BHK : 143 sq.m

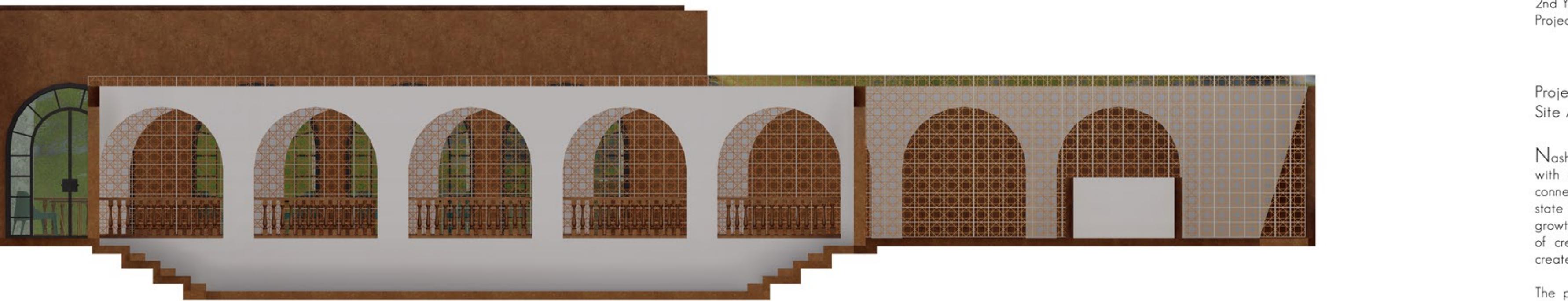


4.5 BHK : 200.50 sq.m



Convention Centre

12



"You say to a brick, 'What do you want, brick?' And brick says to you, 'I like an arch.' And you say to brick, 'Look, I want one, too, but arches are expensive and I can use a concrete lintel.' And then you say: 'What do you think of that, brick?' Brick says: 'I like an arch.'" - Louis I. Kahn

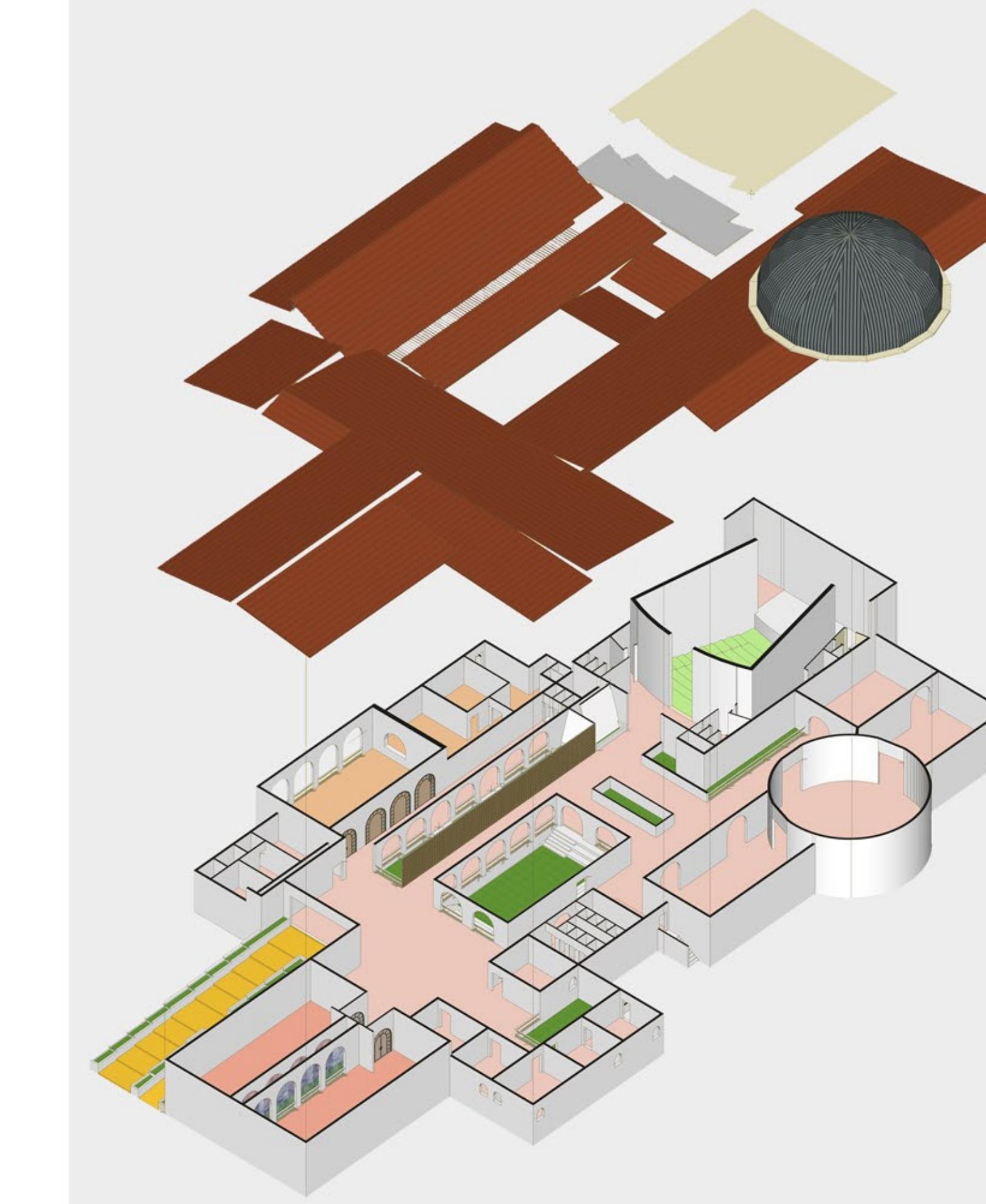
2nd Year | 4th Sem | 3 Months
Project Mentor: Ar. Purva Shah

Project Location: Nashik, Maharashtra.
Site Area: 9,000 sq.m (96,875 sq.ft)

Nashik—the wine capital of India is rapidly growing with a business point of view and having easy connectivity with the other business cities of the state like Mumbai & Pune has clearly impacted the growth of this city. There is an increasing necessity of creating a space which will host events and create social gathering.

The project was to design a Convention Centre which will accommodate different activities like exhibition spaces, dining experience, auditorium, conference halls, meeting rooms. The design problem will deal with the social context, climate and site context of the location. The design problem should focus on the aesthetics as well as functions of a convention Centre.

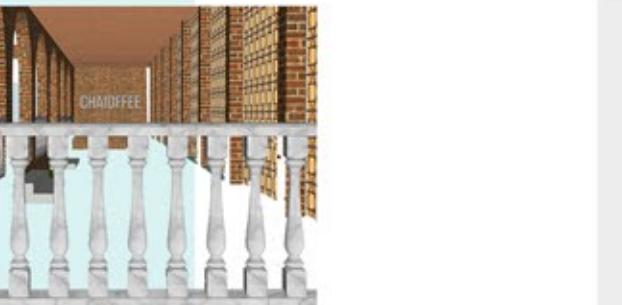
The Convention Centre will create a much-needed public space for the city of Nashik.



Moodboard



Open Amphitheatre



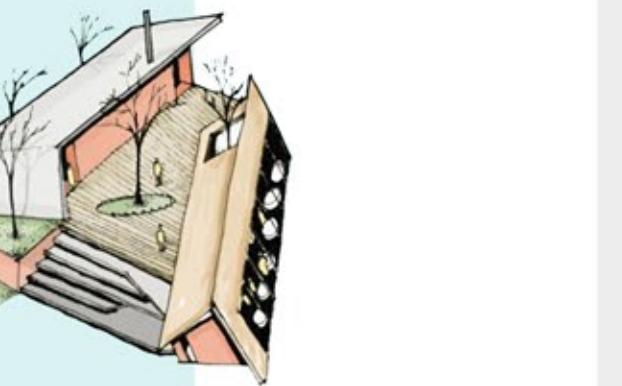
Baluster Railing



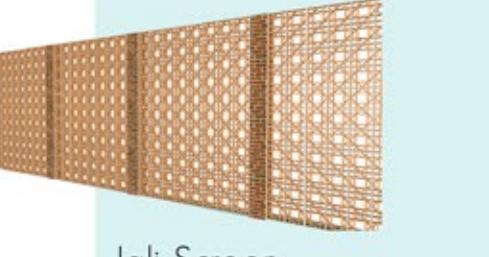
Mangalore Tiles Sloping Roof



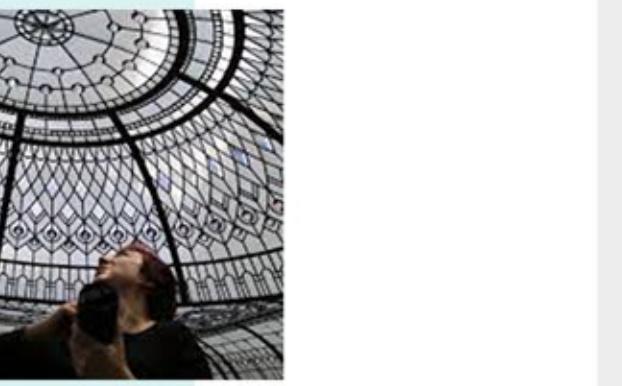
Arch



Courtyard



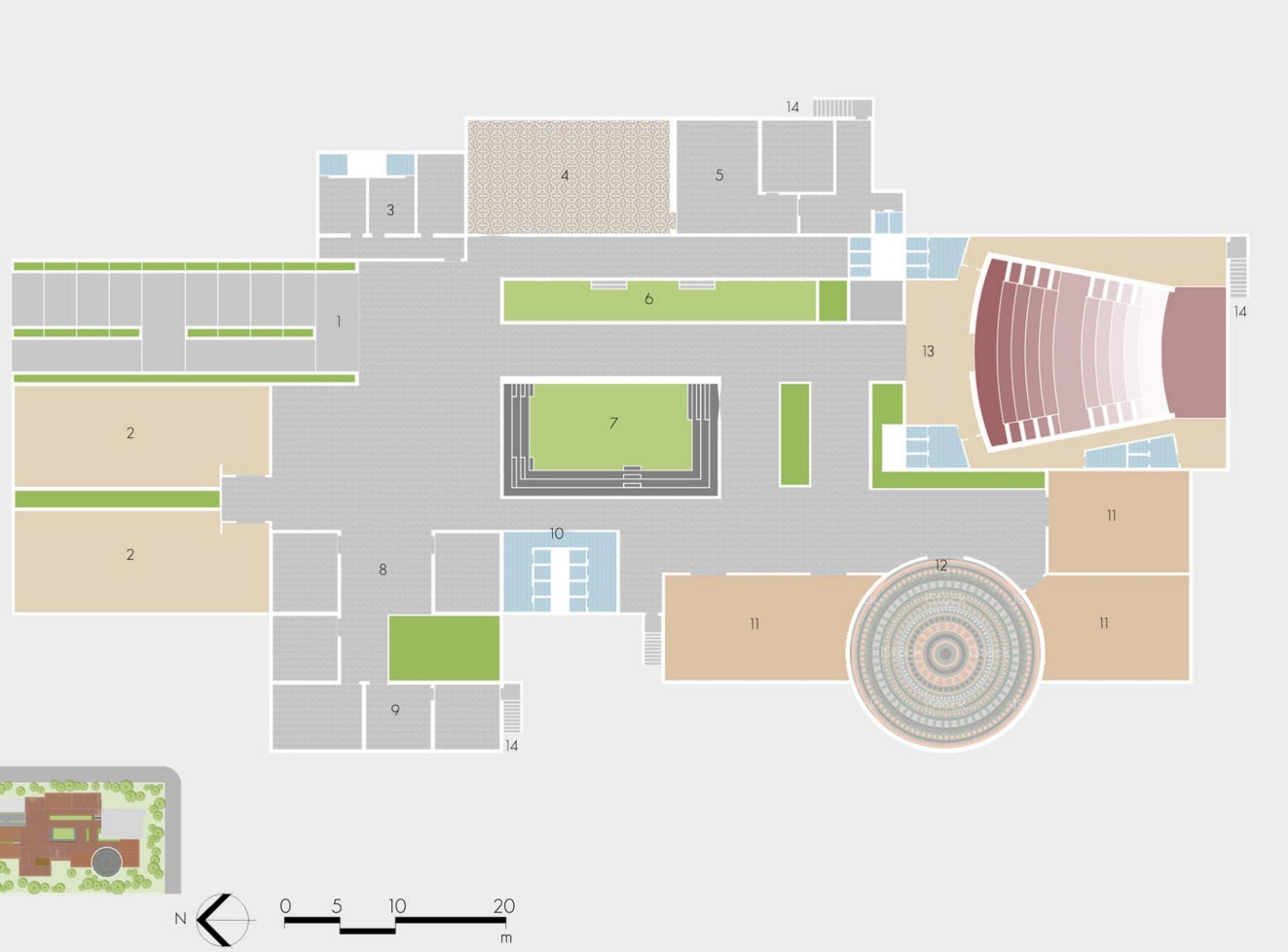
Jali Screen



Dome

Floor Plan

- 1. Entrance
- 2. Banquet Hall
- 3. Office Area
- 4. Restaurant
- 5. Kitchen & Storage
- 6. Open Restaurant
- 7. Open Amphitheatre
- 8. Meeting Room
- 9. Cafeteria
- 10. Toilet
- 11. Art Gallery
- 12. Museum
- 13. Auditorium
- 14. Service Entry
- 15. 4 Wheeler Parking
- 16. 2 Wheeler Parking
- 17. Site Entry



Section



Entry

Open Restaurant

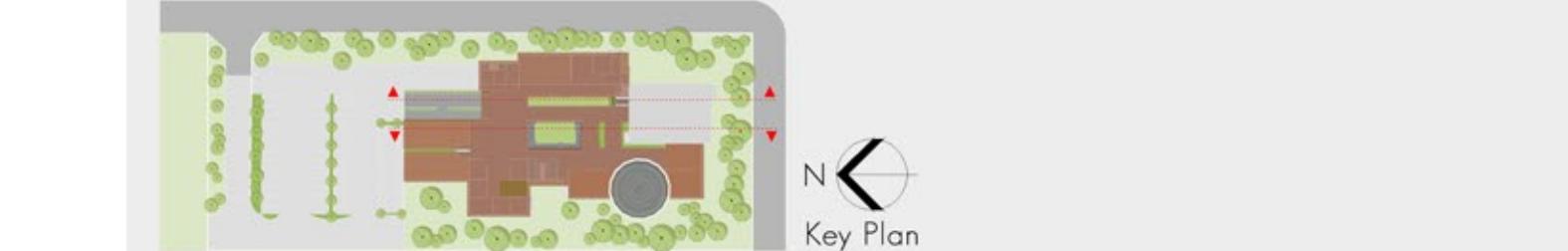
Auditorium



Auditorium

Open Amphitheatre

Banquet Hall



Auditorium

Open Amphitheatre

Banquet Hall



Auditorium

Open Amphitheatre

Banquet Hall

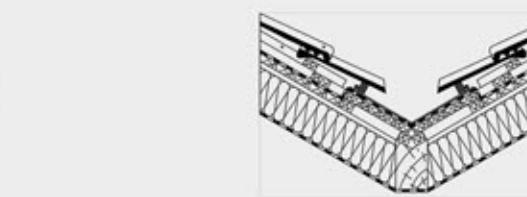


Auditorium

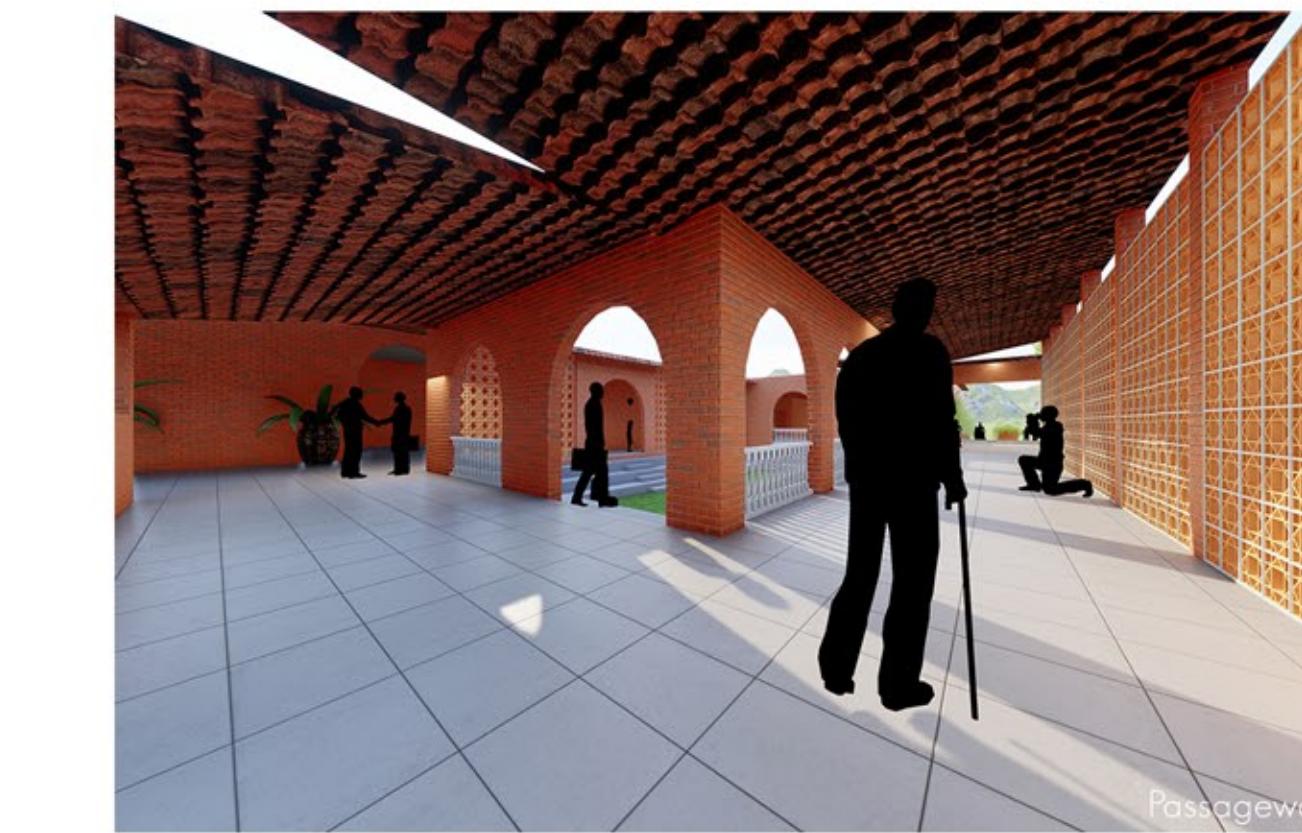
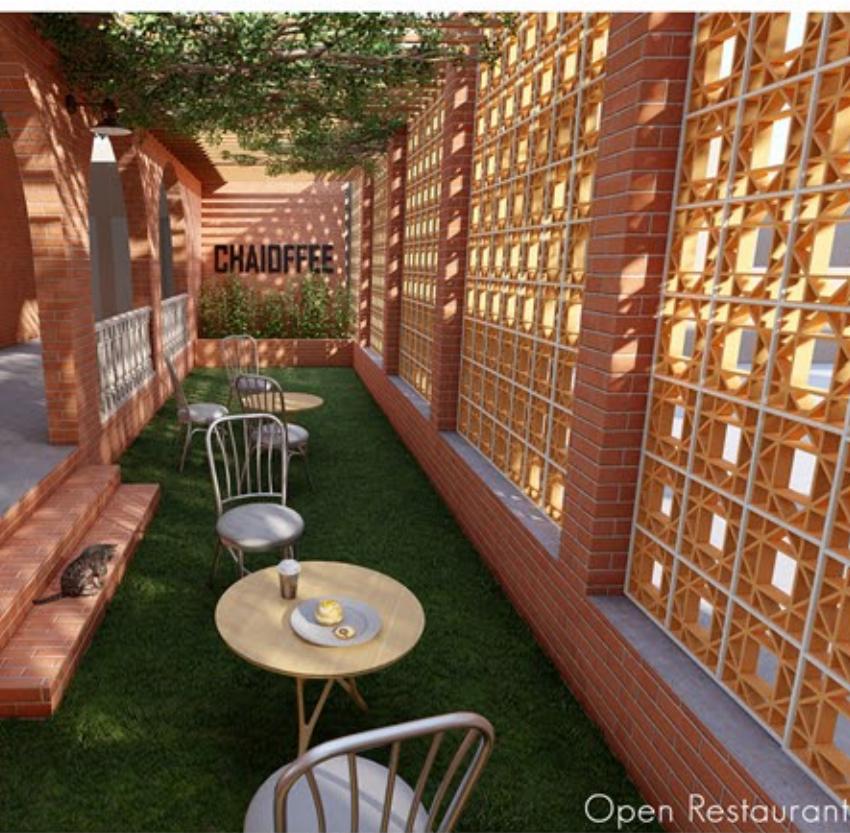
Open Amphitheatre

Banquet Hall

Key Plan



Roofing Details



Business Resort



3rd Year | 5th Sem | 4 Months
Project Mentor: Ar. Parag Adenwala

Project Location: Nashik, Maharashtra.
Site Area: 32,823 sq.m (8.110 Acres)

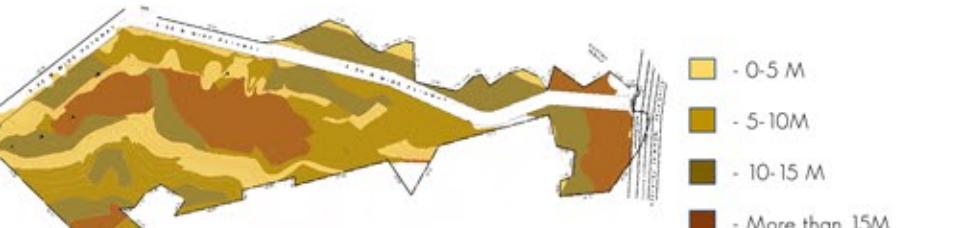
After being titled as 'The Wine Capital Of India', Nashik has seen a sharp rise in tourists for wine tasting and resort activities. Looking at a prospective business opportunity a 4 Star Resort facility is to be designed at Koroli (Trimbak, Nashik).

A tag line "Experience The Uncommon Element". The facility design needs to be first of its kind in Maharashtra.

The proposed site is surrounded by Trimbakeshwar mountain range on north, east and west sides with a view of upper Vaitarna reservoir back waters on southern side.



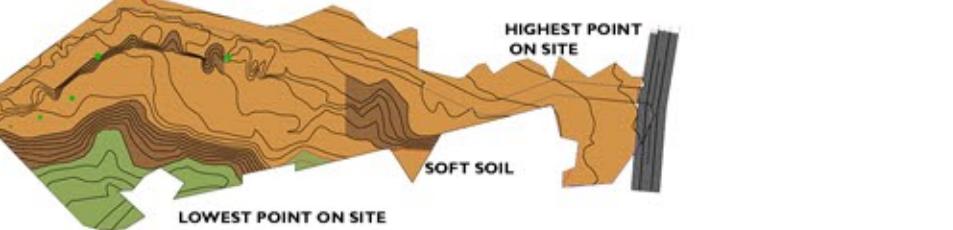
Site Analysis



Contour Analysis

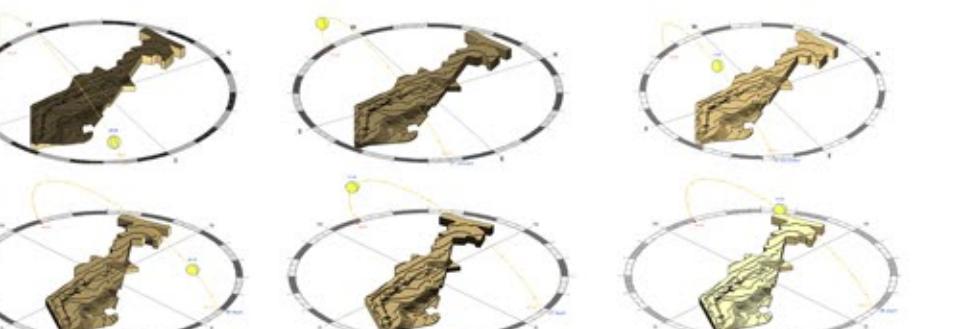


Wind Direction
Macro Climate



Topography:

- Due to contours 3 valleys are formed.
- Contour Drop: 1M height each, Total height Drop- 21M.



Sunpath Analysis:

Winter sun- Because of low altitude hill acts as a barrier and casts pattern.

Summer sun- High altitude, no much impact. As vegetation is less, no shadow is casted.

Approach to the Site:

- ABB Circle to prayagirtha (24.5 km with moderate traffic)
- Prayagirtha to Karoli (12.8 km with min traffic)
- ABB to site (37 km)

Width of road:

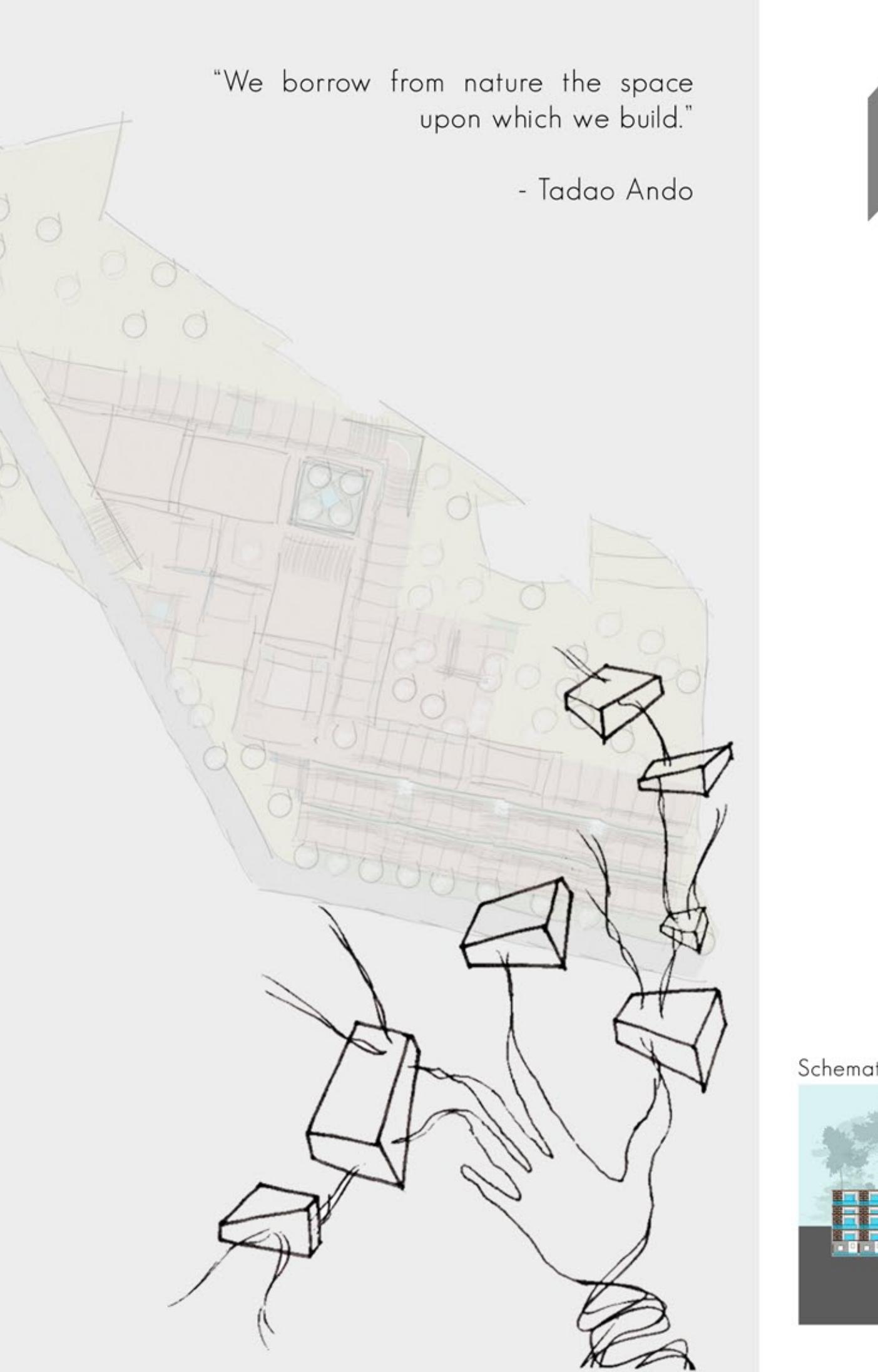
- Highway-30 m
- Secondary roads- 15 m
- Tertiary road- 6 m

About Site:

- Site area: 32,823 sq.m
- River View: South side
- Surrounded by hills and valleys with farming done on it.
- 6 existing trees on site (Trees: Neem and Jamun trees).

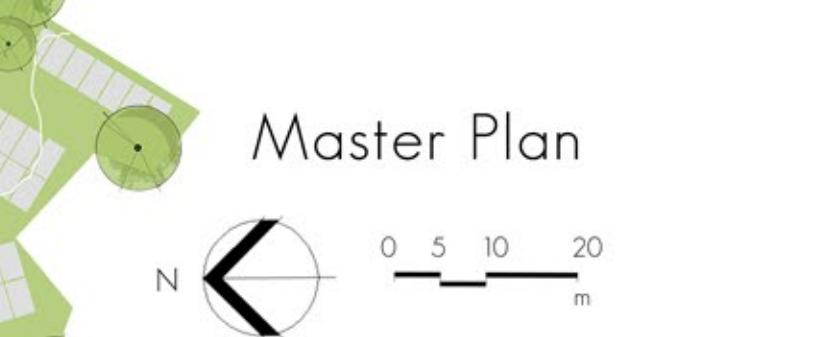
Site Surroundings:

- Vaitarna Dam: 44.9 km
- Trimbak Temple: 27.2 km
- Anjaneri: 24.2 km



"We borrow from nature the space upon which we build."

- Tadao Ando



Master Plan





Resort Entry



Recreational Spaces



Golf Cart Pickup Point



Swimming Pool & Premium Cottages

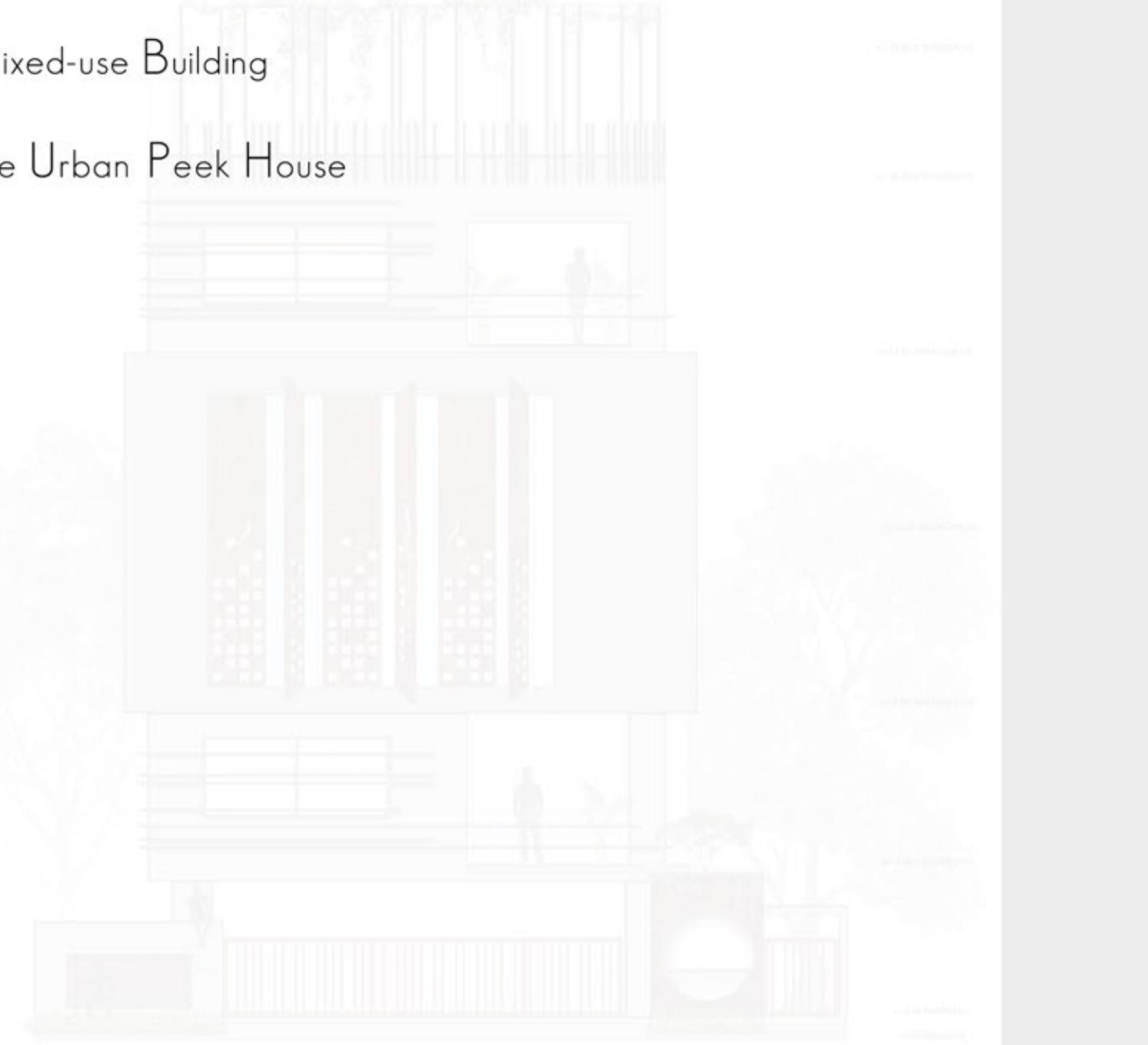
Professional Work

Architectural Internship - PDP Architects

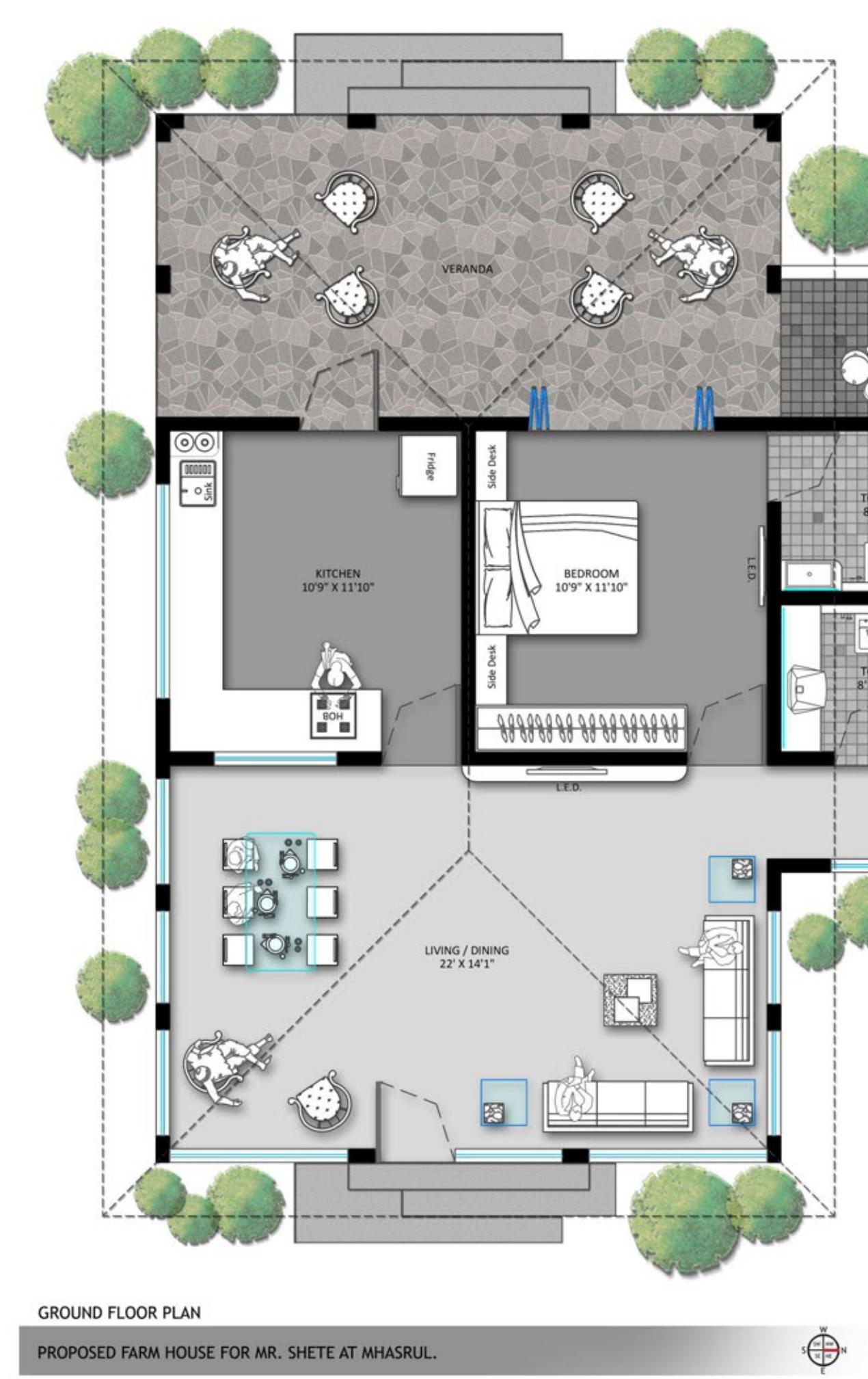
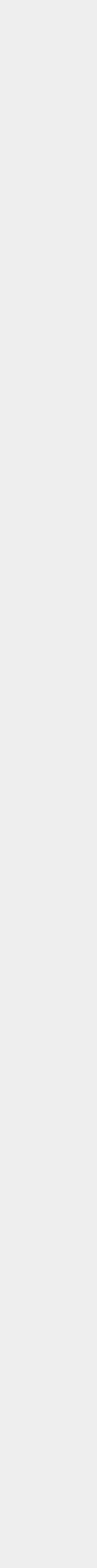
01. Farmhouse Design

02. Mixed-use Building

03. The Urban Peek House

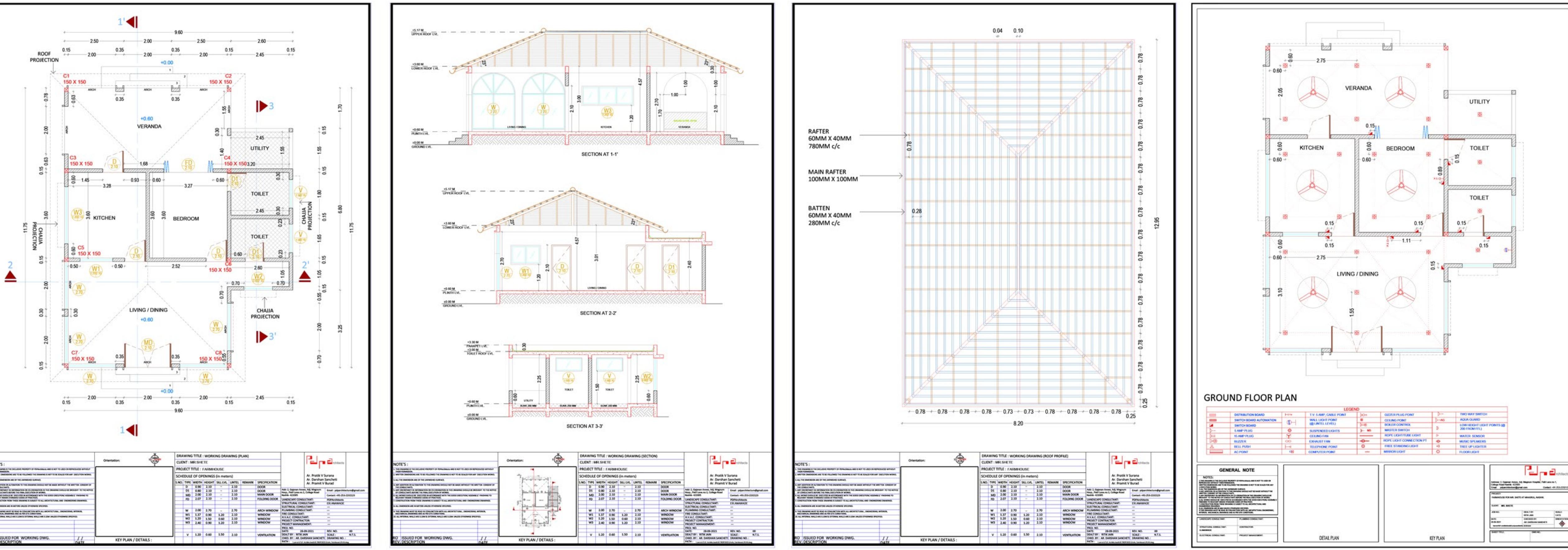


Farmhouse Design | Designing | Working Drawing |



Farmhouse Design

| Designing | Working Drawing |



Mixed-use Building

| Landscape Designing |



Schematic Section



4th Floor



22nd Floor (Recreational)



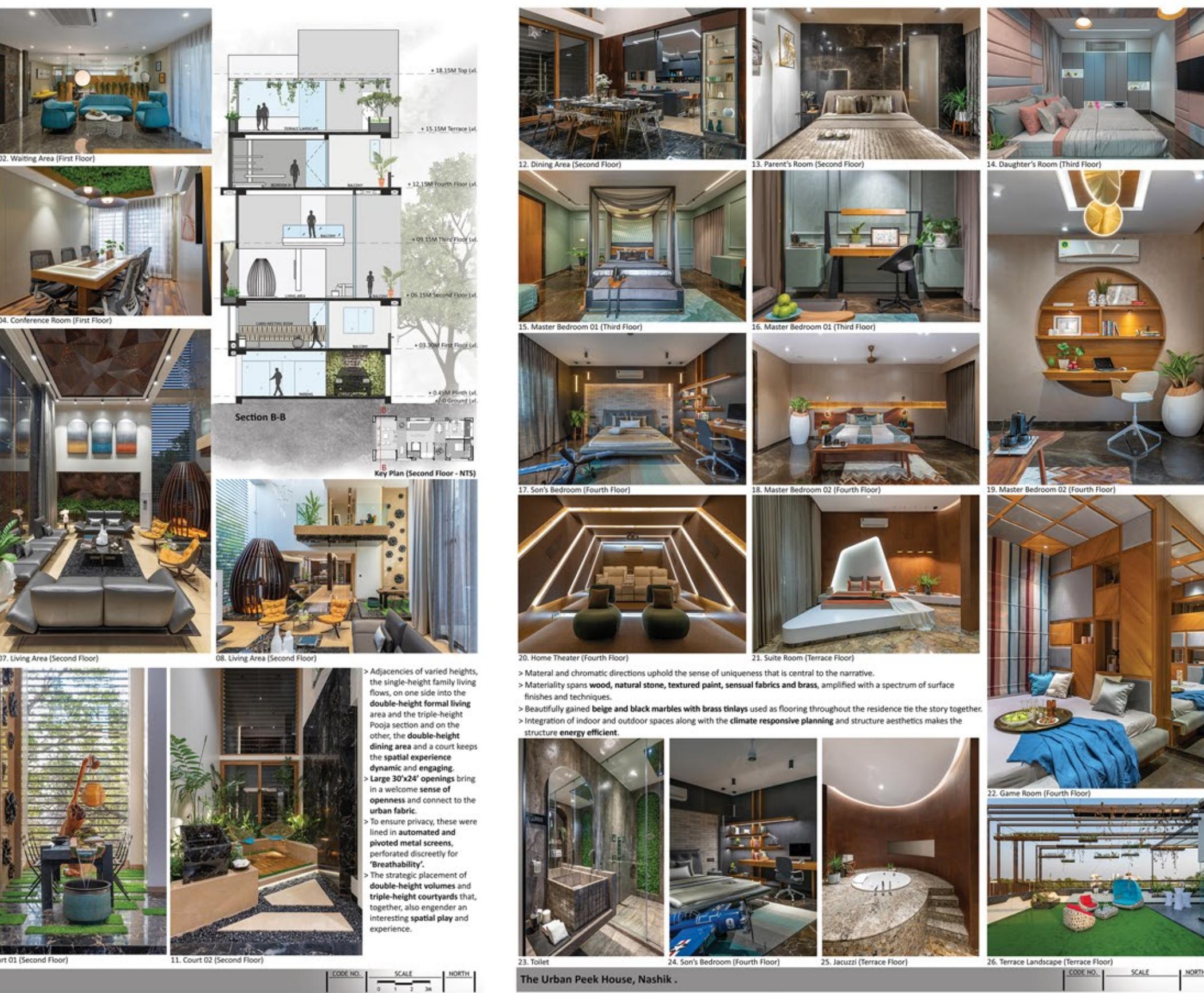
23rd Floor Plan

The Urban Peek House

Award Winning Residence

I Worked on presentation for Competitions |

JK Cement Competition
UltraTech Competition



Miscellaneous

Freelancing Work

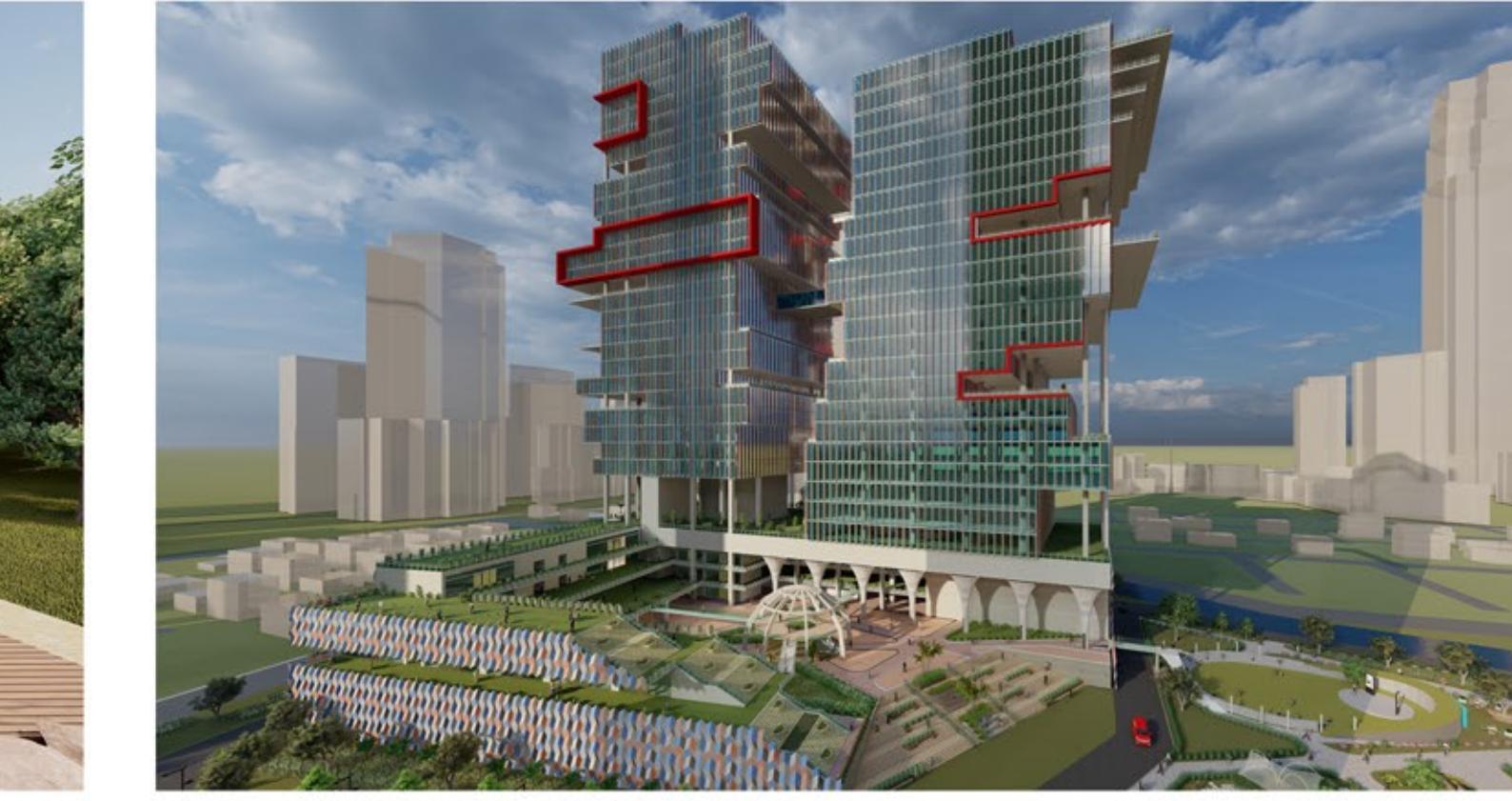
Model and Sculpture Making

Photography

| Freelancing Work |



Residence Facade Design and 3D View for Mr. Karan Benke



Thesis 3D Views and Walkthrough



3D View for Ar. Omkar Hande

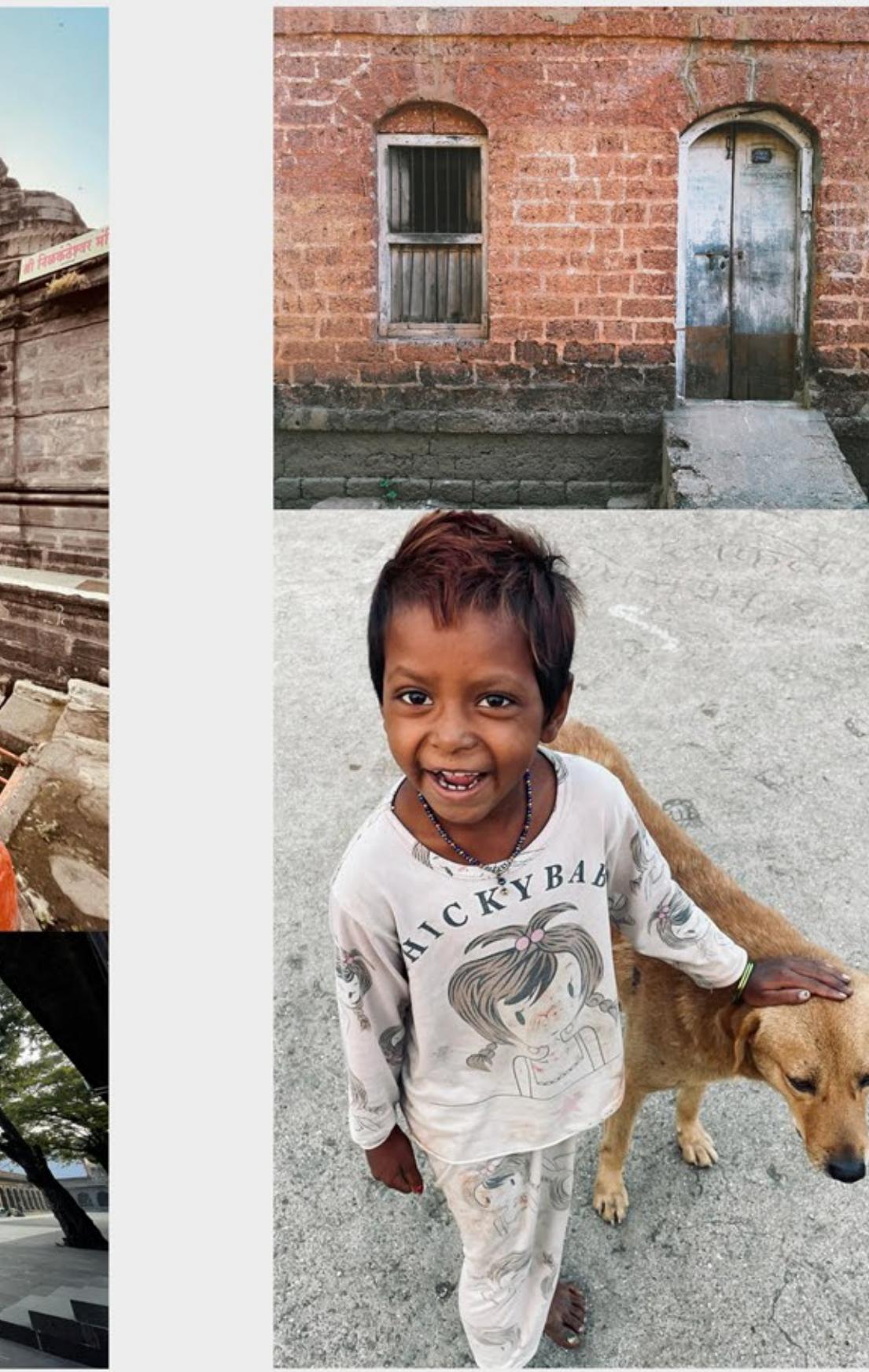


Thesis 3D Views

| Model & Sculpture Making |



| Photography |



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Design evolves, with it I evolve,
It's a process, I am a process!