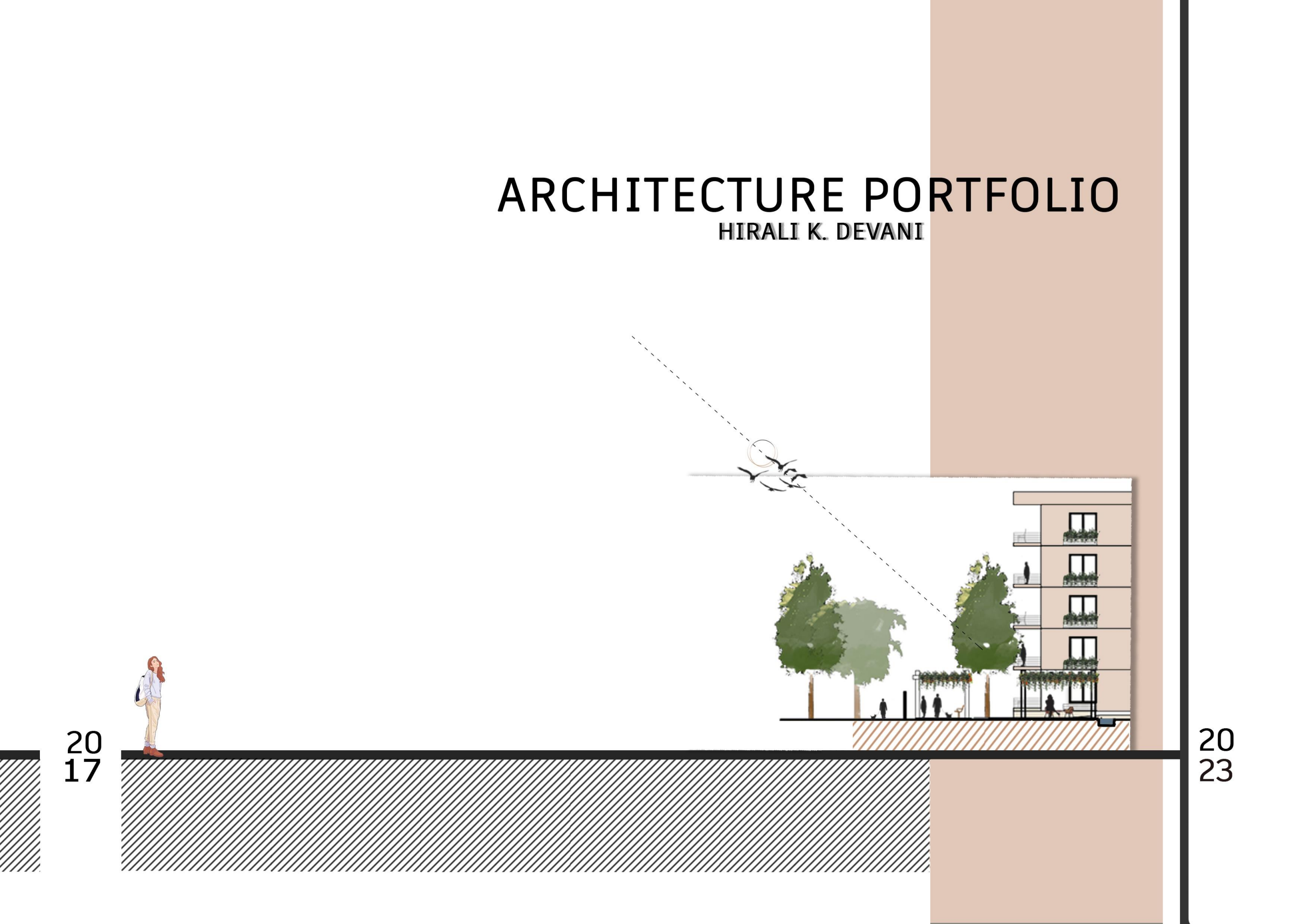


ARCHITECTURE PORTFOLIO

HIRALI K. DEVANI



20
17

20
23



HIRALI K. DEVANI

Hello,

I believe that architecture should inspire people to explore and create whole places that are filled with their emotions, rather than just providing a shelter and a functional environment. I am eager for knowledge and expertise in the field into which I am venturing. I enjoy working on a variety of projects of varying sizes and sorts to create lively spaces for people. This field provides unlimited opportunities for learning, and I intend to take great advantage of this opportunity.

INTEREST



New Jersey ,USA

hd335@njit.edu

+1 5517798697

Education

- 2023-2025 **Master of Architecture**
New Jersey Institute of Technology, Newark, NJ | Major: Architecture (In process)
- 2017-2022 **Bachelor of Architecture**
Faculty of Architecture Sarvajani Collage of Engineering and Technology, surat, Gujarat
Cumulative GPA : 3.83

Experience and Achivements

- 2017-2018 **louis i. Kahn Trophy**
Citation entry NASA (Role : Participant)
Wall painting Workshop ,Ferro cement workshop
ASAC ,collage fest
- 2018-2019 **Reubens Trophy**
Citation entry NASA (Role : Participant)
Dance Trophy
NASA (Role : Participant)
- louis i. Kahn Trophy**
Citation entry NASA (Role : Participant)
- Campus redevelopment**
As part of 'Gujarat Sahitya Parishad' (Role : Participant)
- Energy simulation workshop ,Slop design workshop, Twisting column**
ASAC, collage fest
- Attended seminar**
Ar. Dean D' cruz, Ar. Samira Rathod, Ar. Snehal shah, Ar. Yatin Pandya,
- 2019 - 2020 **Industrial Trophy**
Citation entry NASA (Role : Participant)
- Hudco Trophy**
NASA (Role : Participant)
- Attended seminar**
Ar. Jan Gehl from Gehl architects, Denmark
Ar. Manh Nguyen Hoang from MIA design studio
- 2020 - 2021 **Professional Training**
Head intern at Essteam Design Services LLP , Surat
- Research Thesis**
Individual this project as a part of Acedemic

Documentation

- 2017 - 2018 **Udavada, Gujarat**
Rural study programme
- 2018 - 2019 **Shallin, Himachal Pradesh**
National study programme
- 2019 - 2020 **Paro and Thimphu, Bhutan**
International study programme

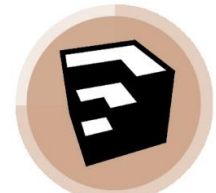
Software Skills



Autocad



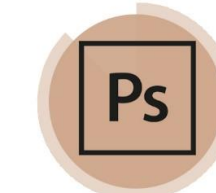
Revit



Sketchup



Rhino



Photoshop



Illustrator



Twinmotion



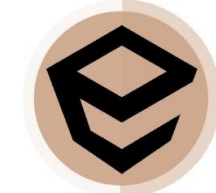
Lumion



V-Ray



Adobe Premiere Pro



Enscape

Manual Skills

- MODEL MAKING
- DRAFTING
- SKETCHING
- DIGITAL ILLUSTRATION
- PHOTOGRAPHY

Soft Skill

- COMMUNICATION
- PROBLEM SOLVING
- PRESENTATION
- ANALYSIS
- CRITICAL THINKING
- TIME MANAGEMENT

Content

Individual Work

- 1 PARK MIX-USED HOUSING, HUDSON YARDS**
Master Architectural Design Studio 1
Semester I
Year : 2023
- 2 National Indoor Stadium**
Technology Studio
Semester - VII
Year : 2020
- 3 Indian Institute of Skill**
Architectural Design Thesis
Semester- x
Year : 2022
- 4 Housing for elderly people**
Social Studio
Semester - IV
Year : 2019
- 5 Business hotel**
Technology Studio
Semester- V
Year : 2019
- 6 Professional work**
Selected work under Ikshana Design Studio
Junior Architect
Year : 2022 - 2023

Selected project from training at Essteam Design Services & LLP
Semester - VIII
Year : 2020 - 2021

Team Work

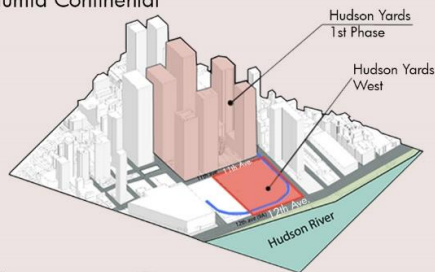
- 7 Documentation Project-Bhutan**
Semester - VII (International Study Tour)
Year : 2019
- 8 Louis I. Khan trophy**
NASA - Zonal
Year : 2018 - 2019
- 9 Industrial trophy**
NASA - Nationals
Year : 2019 - 2020
- 10 Roof Design**
Semester - V
Year : 2019
- 11 The Escape : Vacation House**
Competition in Ryterna Modul Architectural Challenge
Year : 2020
- 12 Miscellaneous**
Manual skill, Graphical Skill, AI and Model Making

01 PARK HOUSING URBAN INSERT AT HUDSON YARDS

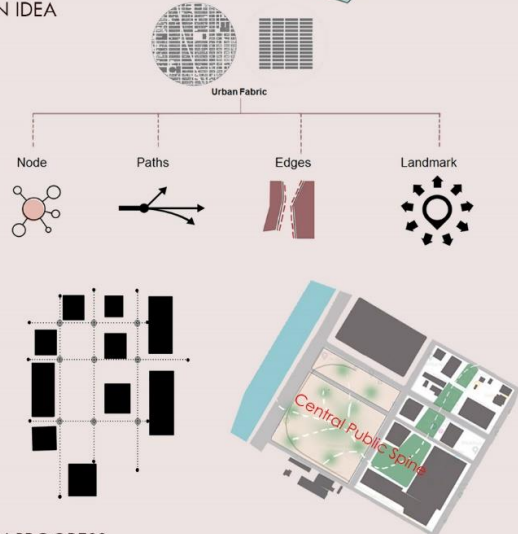
STUDIO OBJECTIVE :

The approach to design is based on the idea that an urban environment with thoughtful design may significantly affect both the environment and the well-being of its residents. The public park serves as a communal focal point. It encourages social interactions and supports public activities. The goal is to contribute to the overall quality of life in the surrounding area. Design Enhances a residents' quality of life through efficient, connected, and secure living spaces by not including a Vehicular Road way on site. The site development focuses on a Community-Centric Approach by adopting a dynamic and self-sufficient community development by providing a social and communal spaces at different location.

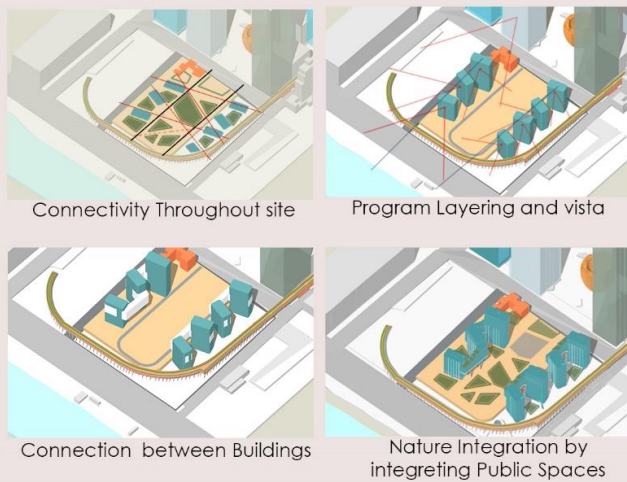
location : Hudson yards phase 2
Area : 585,600 ft²
Climate : Humid Continental



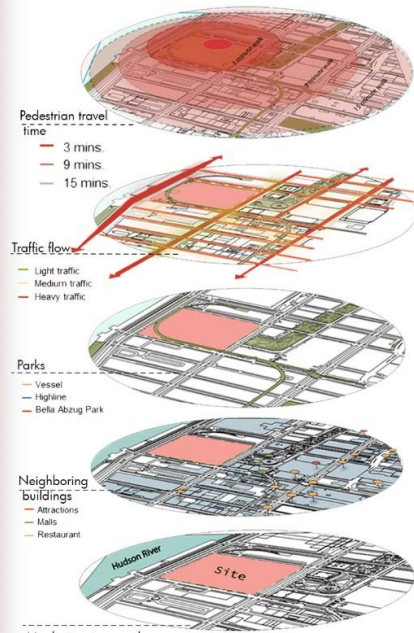
DESIGN IDEA



DESIGN PROGRESS



SITE ANALYSIS

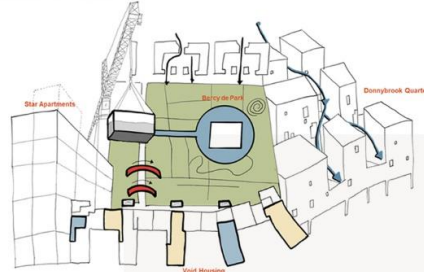


Manhattan true north is at 29 degrees east of north.

DESIGN PROGRAM

Studio Apartment 110,250 sq.ft	Commercial 106,699 sq.ft
1BHK Apartment 186,000 sq.ft	School 106,699 sq.ft
2 BHK Apartment 297,600 sq.ft	Public Park 538,425 sq.ft
3 BHK Apartment 248,400 sq.ft	
Residential	Public

PRECEDENT STUDY



Flower garden with sitting



Emphitheater for social gathering



Commercial area with in between transaction spaces

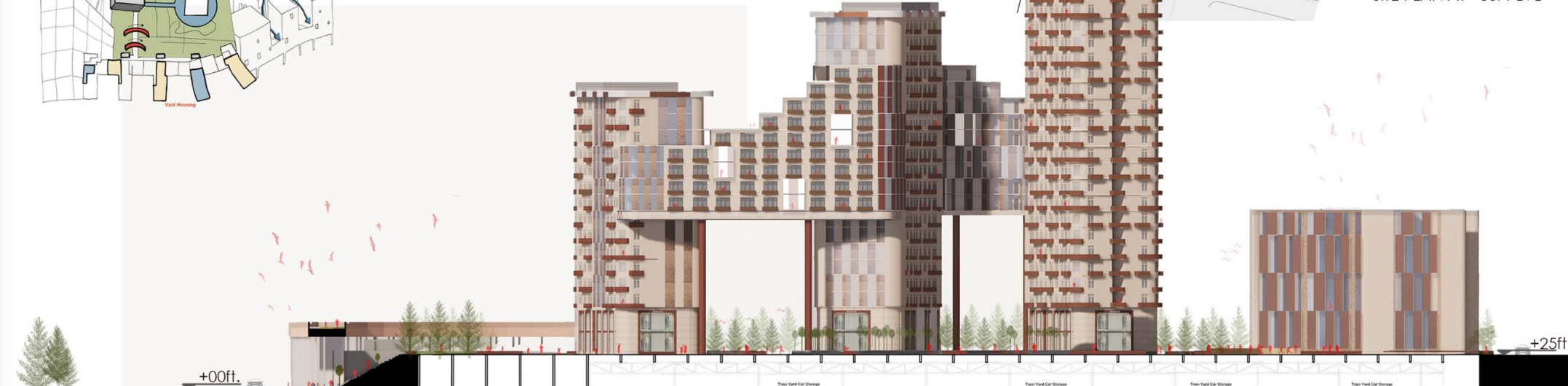


Commercial area between cluster 2



1. School
2. Cluster 1
3. Cluster 2
4. Highline
5. Public plaza
6. Sitting Area
7. Flower Garden with sitting
8. School Play Ground
9. Stairs with sitting
10. Round Amphitheater

0 25 50ft
SITE PLAN AT +35FT LVL

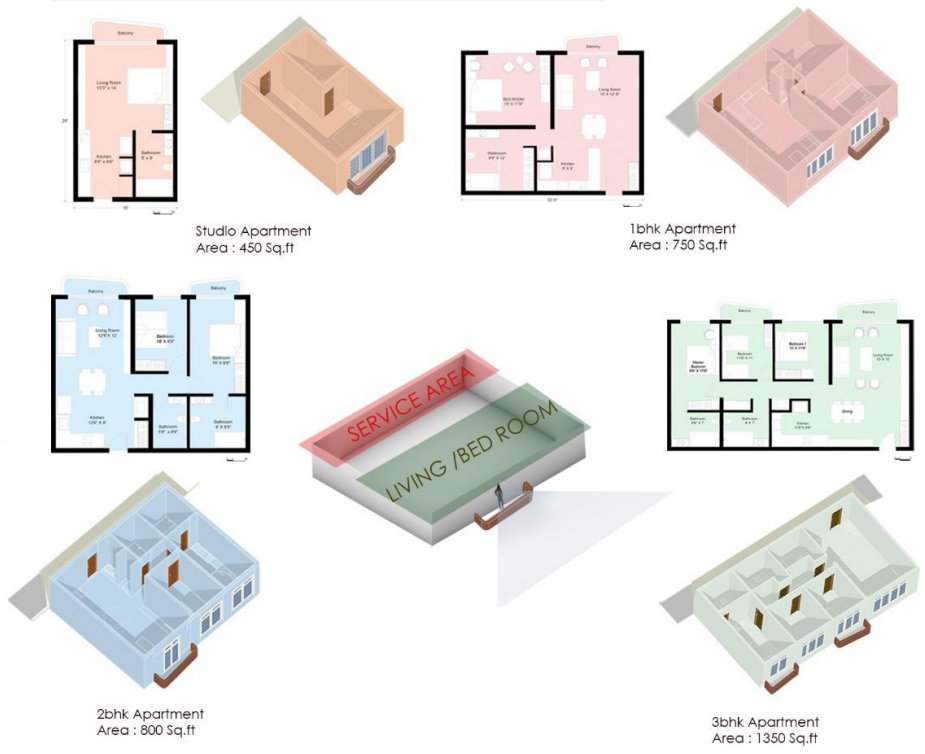


SITE SECTION AA'

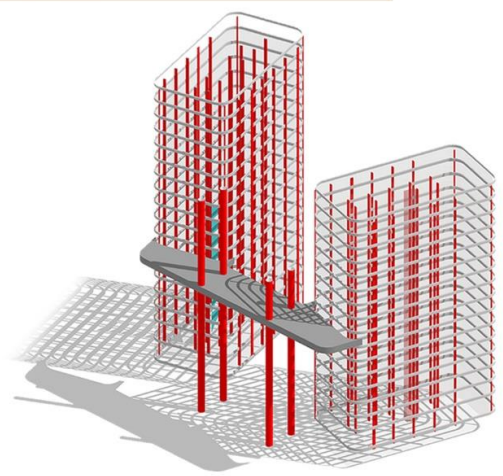
Cluster 1



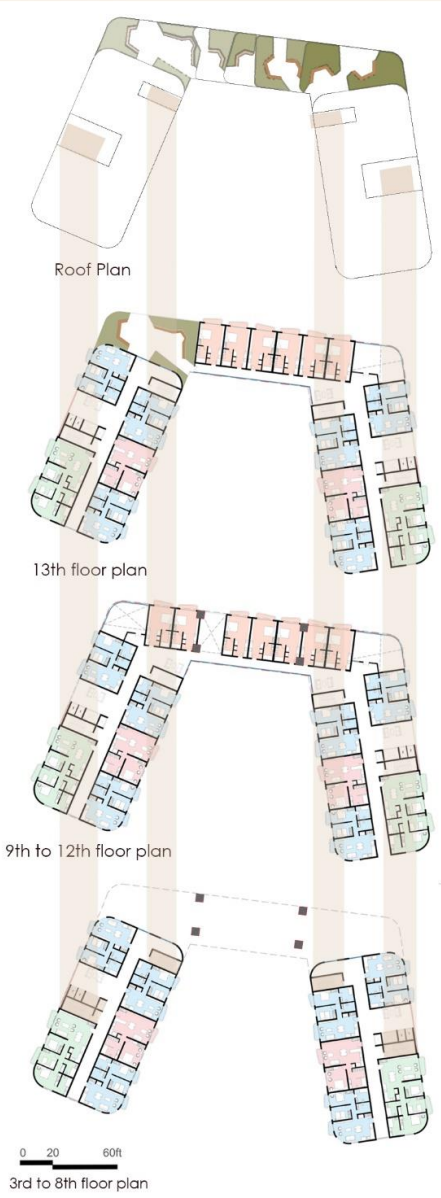
Units



Cluster B : Structure



Cluster 2



SITE ELEVATION from 12th Avenue

02 INDOOR STADIUM

LARGE SPAN STRUCTURE

URBAN INSERT

STUDIO OBJECTIVE :

The studio aim was to create a public space that would add to the uniqueness of the city. As The idea was to create an indoor stadium and, along with its surrounding buildings, would act as an important social hub and promote the spread of community events in the area. The stadium was supposed to be built for everyday usage.

location : Dumas Road,Surat

Area : 34,480 m²

Climate : Hot and Humid

DESIGN IDEA

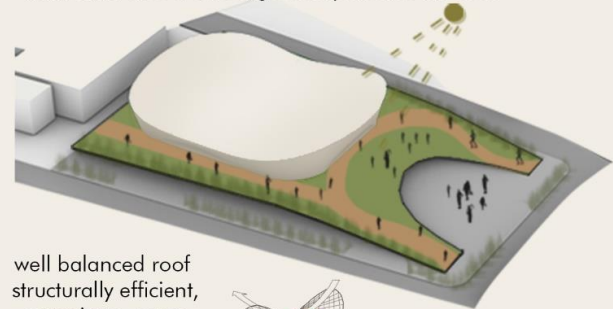


Re - Naturing cities and gaining quality space for citizens is no longer just an interesting idea, it is a necessity.

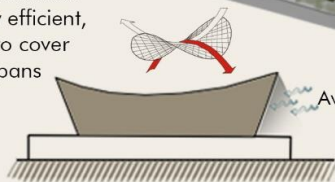


The stadium with public spaces will participate in life of city and enhancing the activeness of the stadium at the city level.

The main concern is to provide a Land mark ,Design a plaza for daily use for public,All spaces should be well ventilated and Design a place in such a way so that it can be use to avoid traffic and also create a good experience for user.

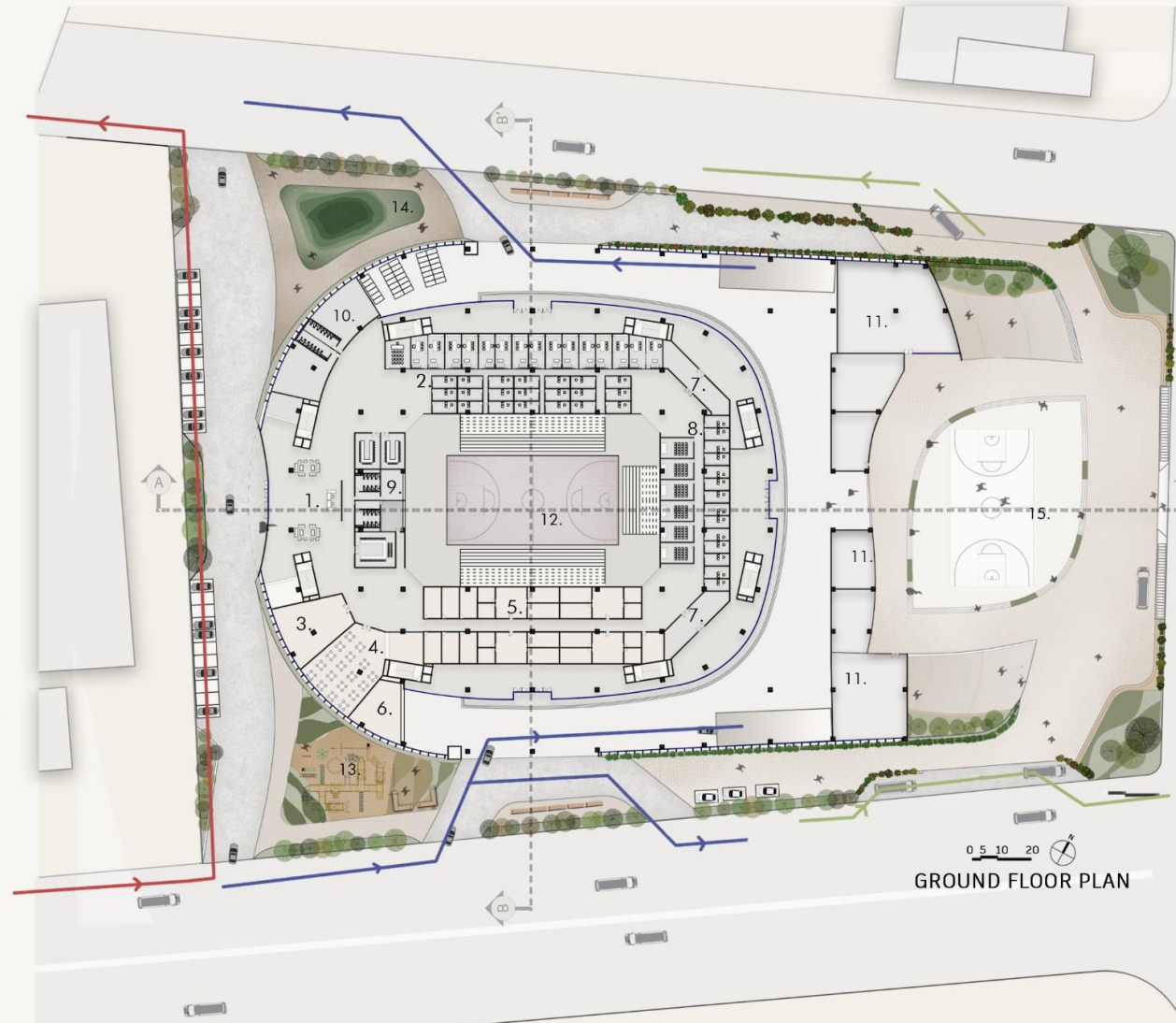
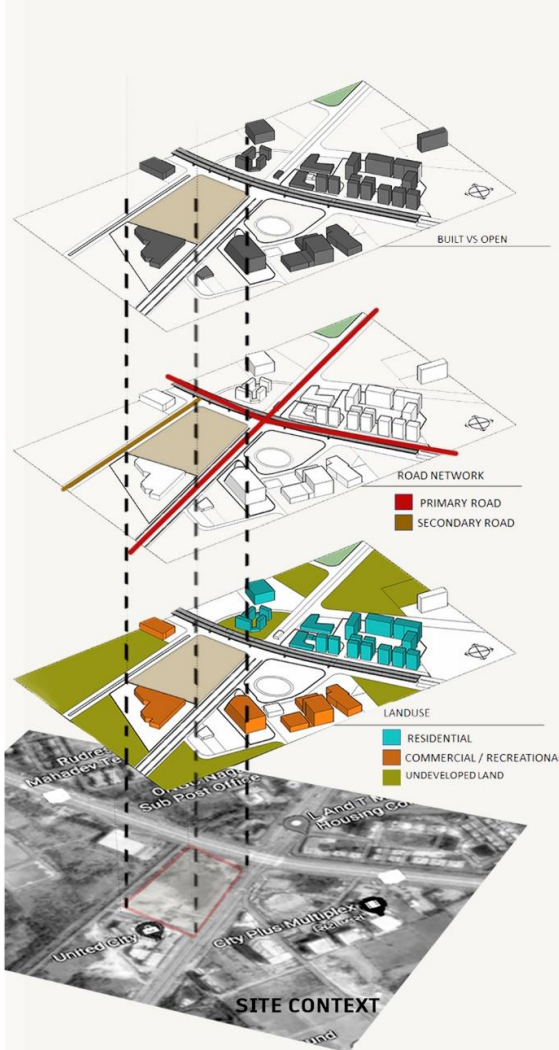
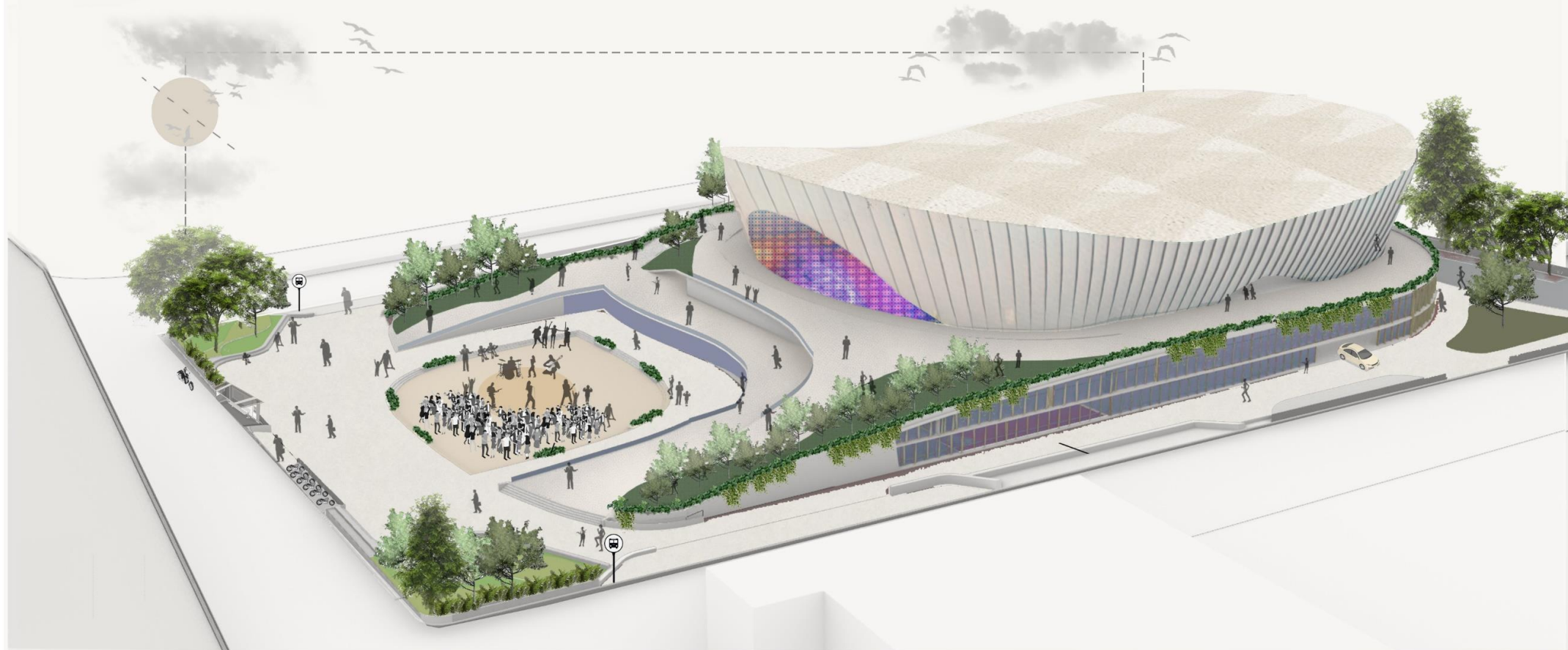


well balanced roof
structurally efficient,
capacity to cover
long spans



Avoid the direct heat gain by facade

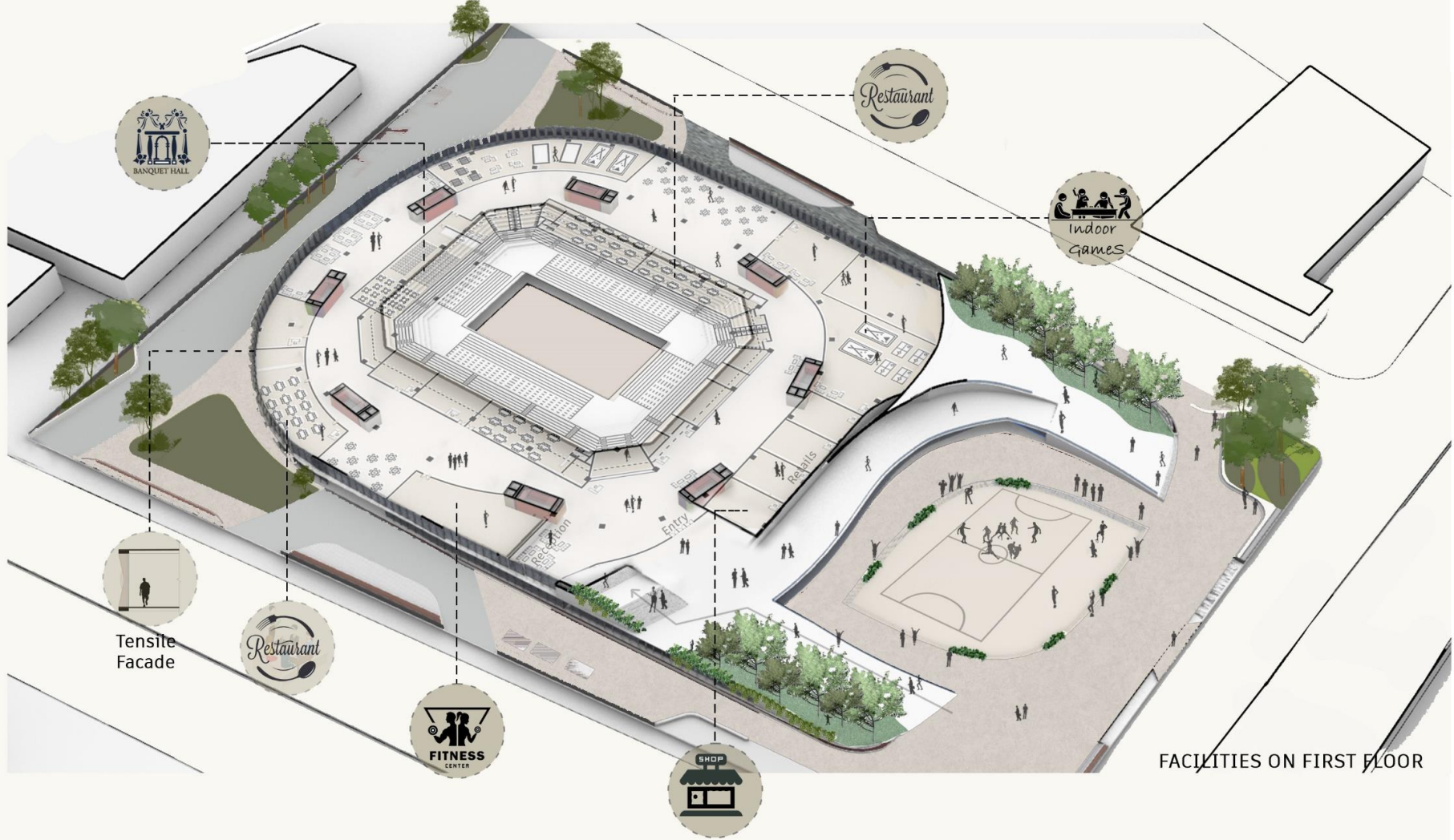
Hyperbolic paraboloid shape roof



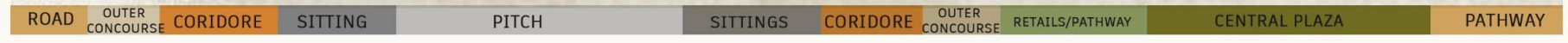
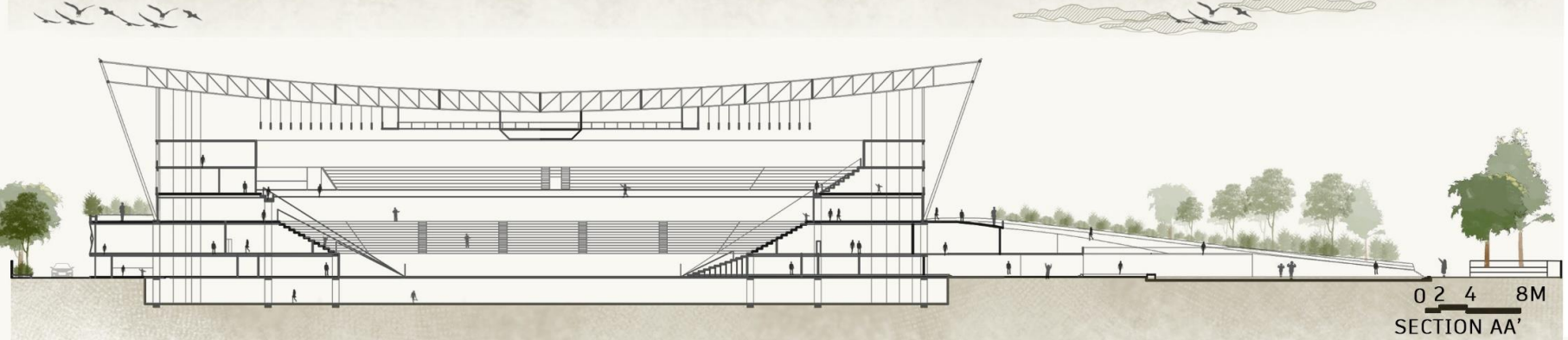
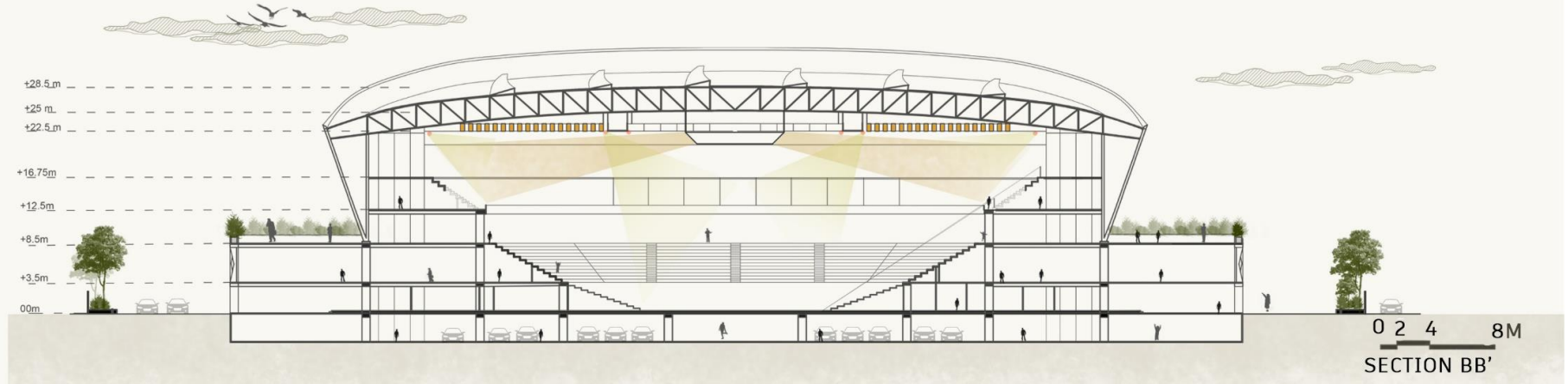
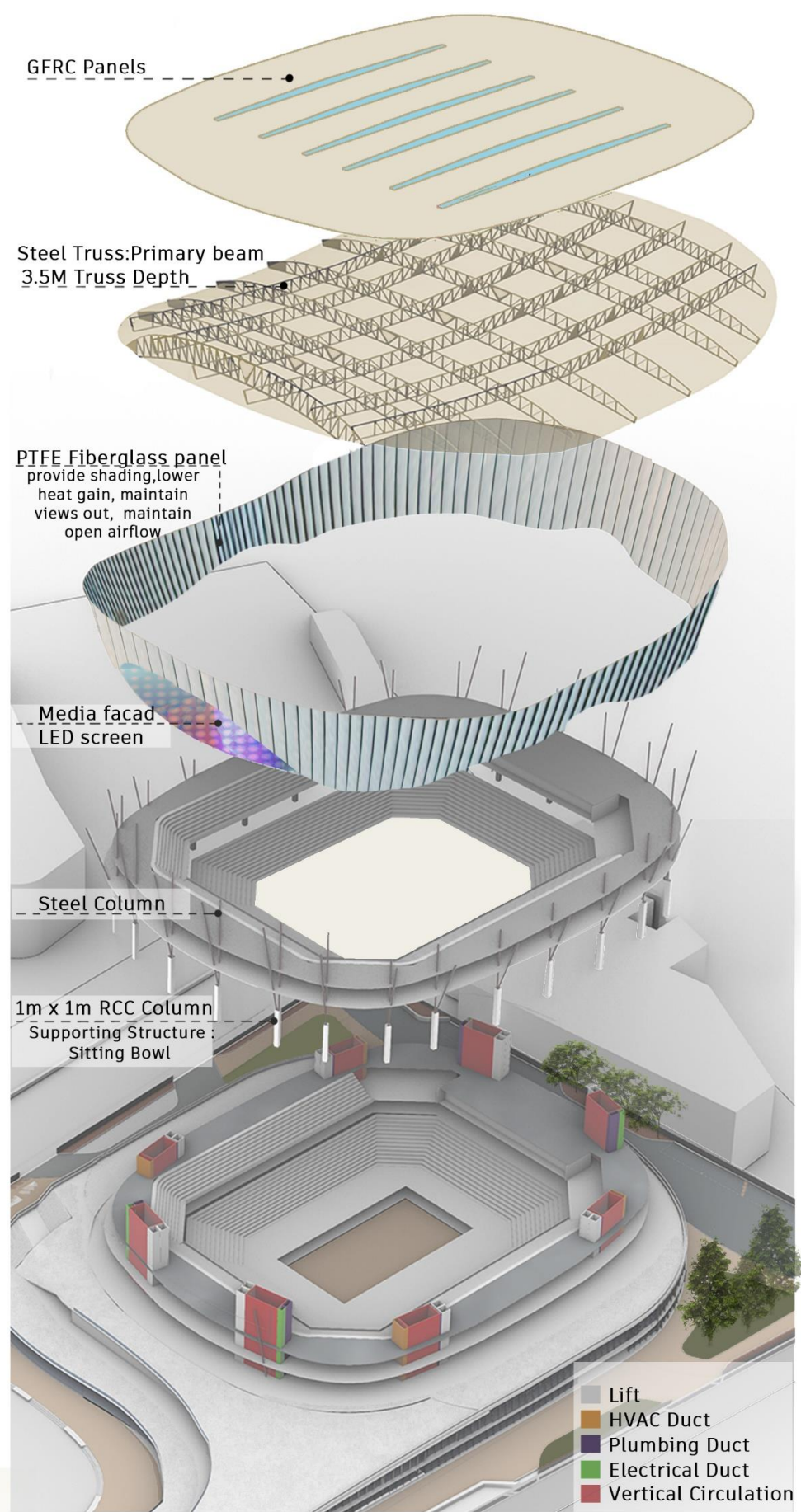
- ADMIN
- 1. RECEPTION
- 2. ADMIN OFFICES
- 3. PLATEY GYM
- 4. RESTAURENT
- 5. TEAM ROOMS
- 6. TICKET COUNTER
- 7. STORE ROOMS
- 8. MEETING ROOMS
- 9. MEDIA CONFERENCE ROOM
- 10. STAFFROOM
- 11. RETAILS
- 12. MAIN PITCH
- PUBLIC SPACES
- 13. KIDS PLAY AREA
- 14. PUBLIC PARK
- 15. MULTIPURPOSE CENTRAL PLAZA

- ROUTE FOR VIPS
- PUBLIC ROUTE
- BUS ROUTE

GROUND FLOOR PLAN



SERVICES AND STRUCTURE



03 INDIAN INSTITUTE OF SKILL, (IIS) GANDHINAGAR

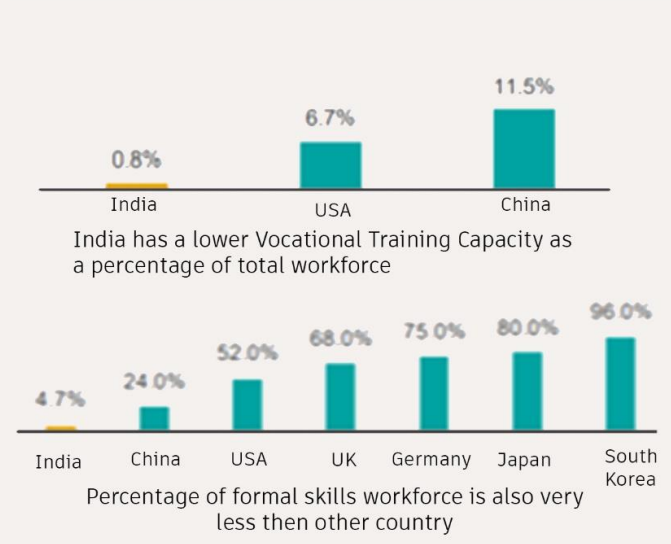
STUDIO OBJECTIVE :

The goal of the thesis was to create a learning infrastructure that would enable people to acquire new skills and advance their knowledge in order to compete in this industrialised world and meet demand. The objective is to examine national institutions to determine design requirements and create a user-friendly, sustainable institute from which to learn and grow. Gujarat's central location made it convenient for residents of the suburbs to visit as well.

location : Nasmed, Gandhinagar
 Area : 14,200 m²
 Climate : Hot and Humid

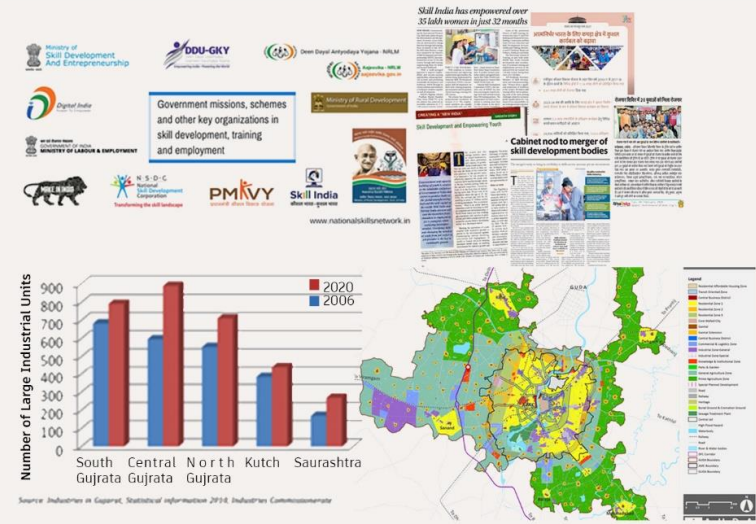


PROPOSAL FOR IIS



- It increases the labor productivity
- Provides expertise for attaining a comfortable job
- It increases employment opportunities
It generates a professional workforce, matching the International Standards
- Vocational Training can bridge the gap between the skilled and the unskilled

SITE JUSTIFICATION AND ANALYSIS



- The site is located in **nasmed, Gandhinagar** at the central Gujarat.
- Gujarat has been a significant contributor to India's GDP. With IIS Gandhinagar, an institute envisioned after national institutions like IIT and IIM a new impact will be given to the state's skilling ecosystem.
- The government allotted the land for the institute in the **proposed Knowledge and institutional zone**.
- Central Gujarat has a maximum number of **industrial unit** according to statics so it helps to connect the institute with more industries.

ROAD NETWORK



BUILT VS. OPEN

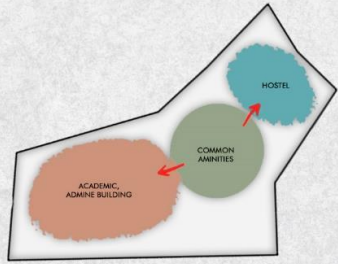


SUN PATH DIAGRAM

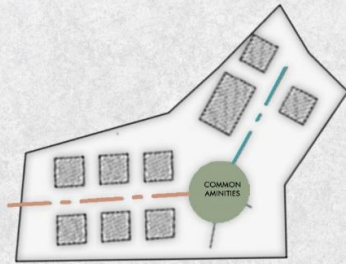


SITE PLAN

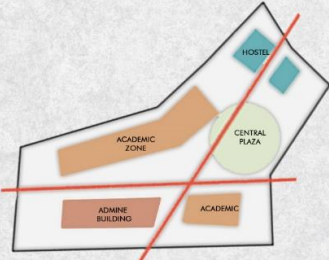
DESIGN IDEA



Connect Academic and Hostel zone with Public plaza at the junction of the site



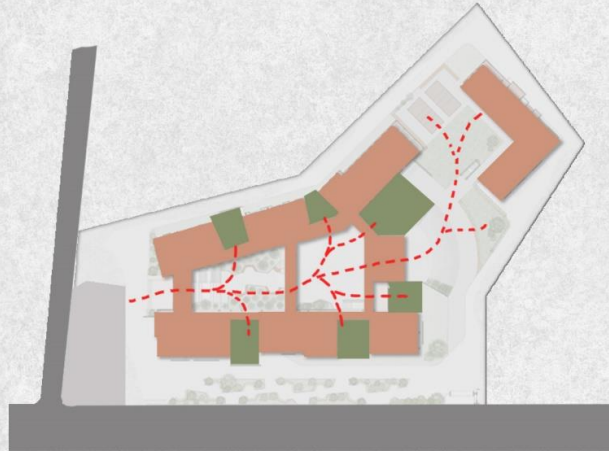
Axial planning, Orientation of the axis is the NW-SE



Zoning and Junction connectivity along the axis



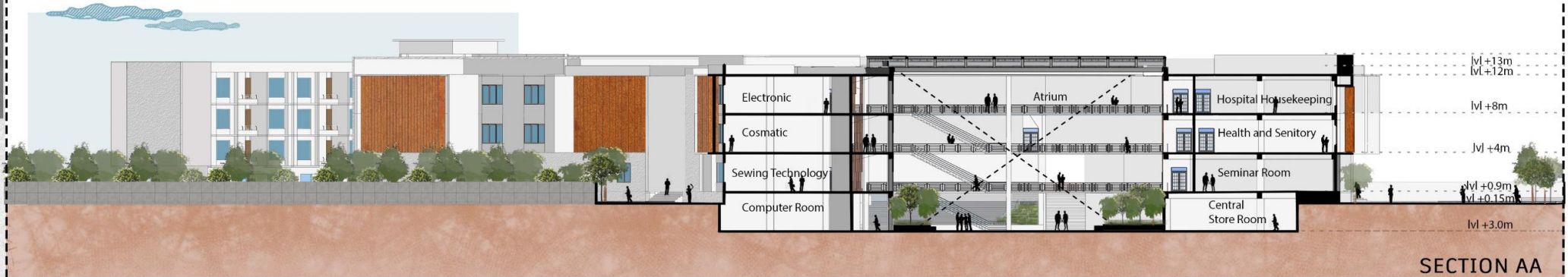
The central spine for public access follow the academic building and meet at the public plaza



The core spine is visibly connected to the green spill-out voids that are provided for vertical circulation, social gathering, relaxing and air circulation.



Sunken courtyard to match the atrium's scale. The entire atrium can also be shed due to the building's height. Atrium acts as a focal point.





ENTRANCE CANOPY AND DROP OFF



OPEN AMPHITHEATRE AND MULTIPURPOSE PLAZA

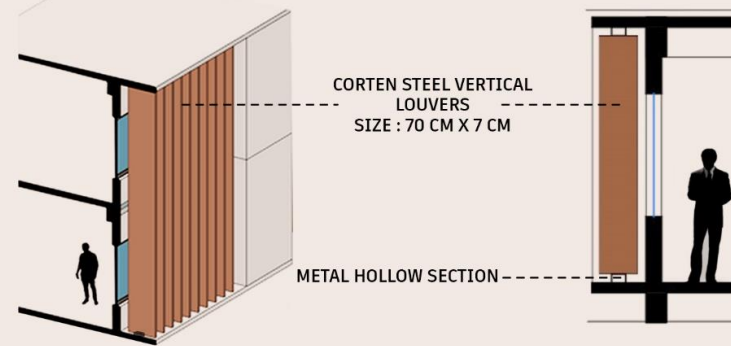


CENTRAL SPINE : ATRIUM SITTING AREA

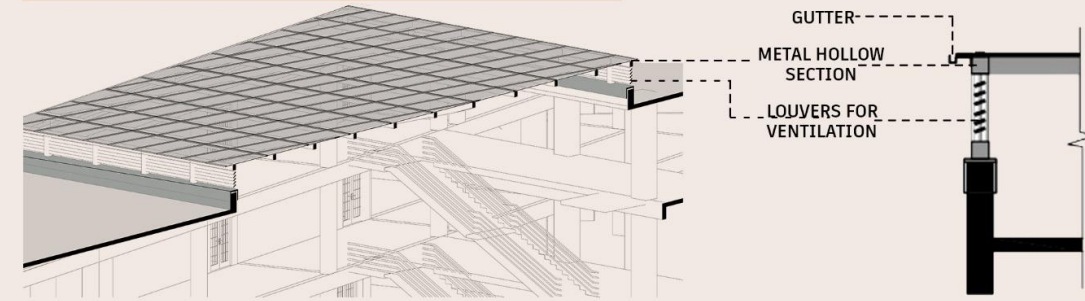


BACK SIDE VIEW FROM THE COMMON PLAZA

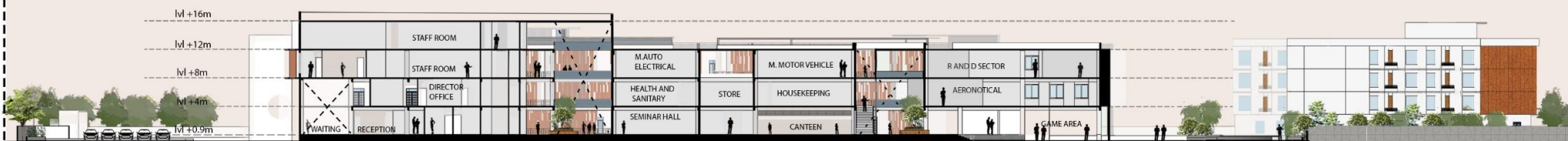
FACADE



ATRIUM ROOF DETAIL



ISOMETRIC SECTION FROM THE CENTRAL ATRIUM



SECTION BB

04 SOCIAL HOUSING

THE GOLDEN NEST : LIFE AFTER RETIREMENT

STUDIO OBJECTIVE :

The studio objective was to understand the social aspects and character of user while designing housing project. The housing was to be designed for elderly people, learning their character, behaviour, lifestyle and their needs. A comfortable living space require for retire people. The studio was more focused on the social life of the elder community.

location : Kadifalia dumas, Surat
 Area : 14,200 m²
 Climate : Hot and Humid

- No highrise building Around the site
- lake view
- Site near to the sea

S W

O T

- No existing tree
- High humidity area
- Flood may occur
- Site surrounded by empty land future development can be

DESIGN IDEA

view of lake to all public spaces.

open spaces are provided sensitively at the level of cluster and units.

site edges were developed for different activities.

SITE LAYOUT PROCESS

stage i

stage ii

stage iii

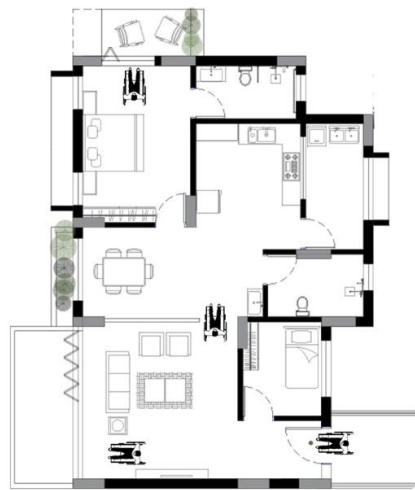


1. Entry
2. Admin and Healthcare
3. Central ground
4. Open game area
5. Club house
6. Open ground
7. Walking track
8. Vertical garden area
9. Empty sitting area

SITE PLAN



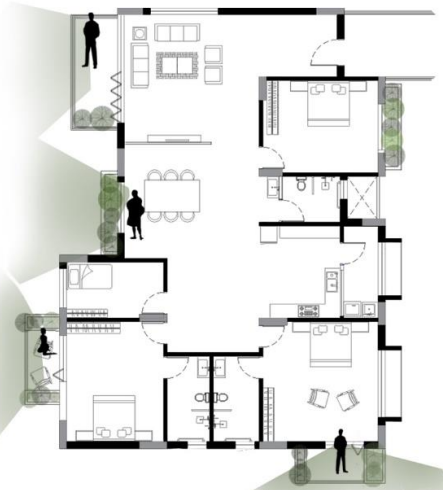
SECTION AA'



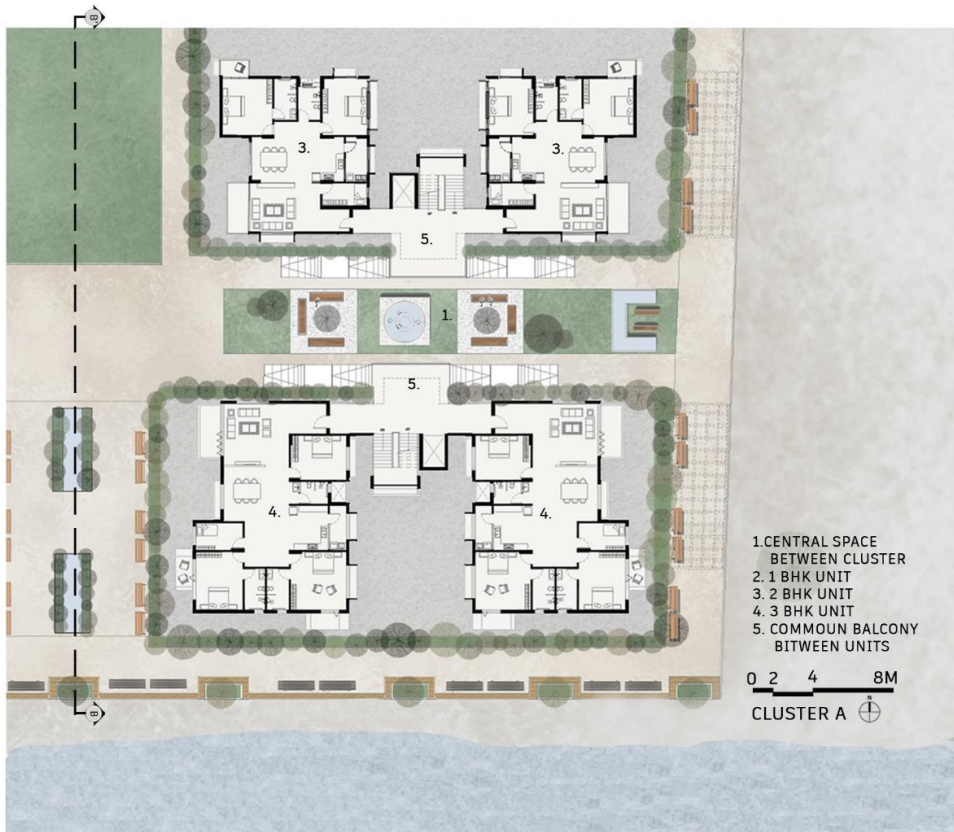
CLEAR CIRCULATION WITHIN THE UNIT



VISUAL CONNECTIVITY FROM EACH SPACE FOR SAFETY



SMALL BALCONIES TO CONNECT WITH OUTSIDE AND TO HAVE A VIEW OF LAKE



- 1. CENTRAL SPACE BETWEEN CLUSTER
- 2. 1 BHK UNIT
- 3. 2 BHK UNIT
- 4. 3 BHK UNIT
- 5. COMMON BALCONY BETWEEN UNITS

0 2 4 8M
CLUSTER A



0 2 4 8M
CLUSTER B



0 2 4 8M
SECTION BB'



CENTRAL OPEN GROUND FOR CELEBRATIONS



WALK WAY AND CYCLE WAY WITH THE VIEW OF LAKE



WALL AT EAST PERIPHERAL USE AS VERTICAL GARDENING



ADMIN AND HEALTHCARE



OPEN GROUND FOR MORNING AND EVENING ACTIVITIES

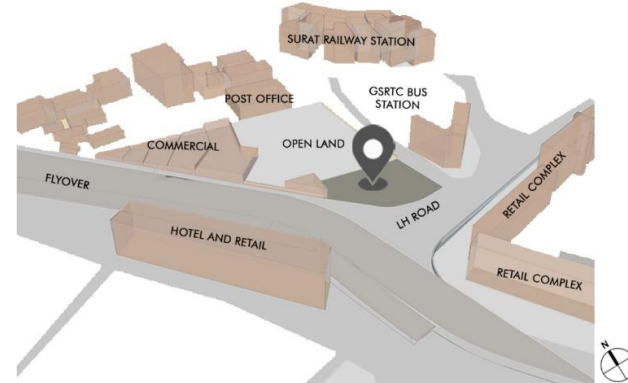
05 BUSINESS HOTEL

ECOTEL IN THE HEART OF THE CITY

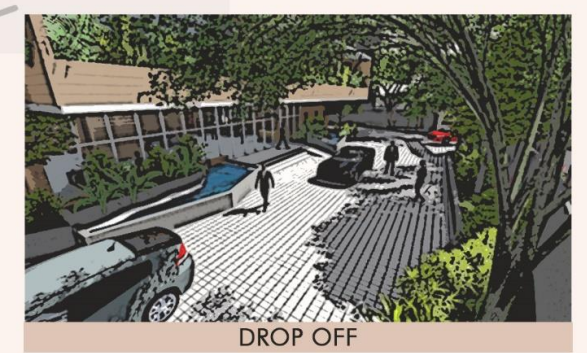
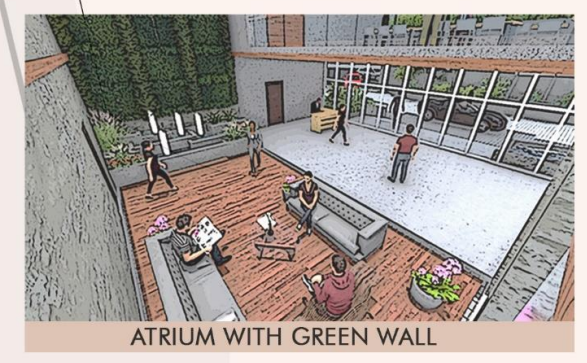
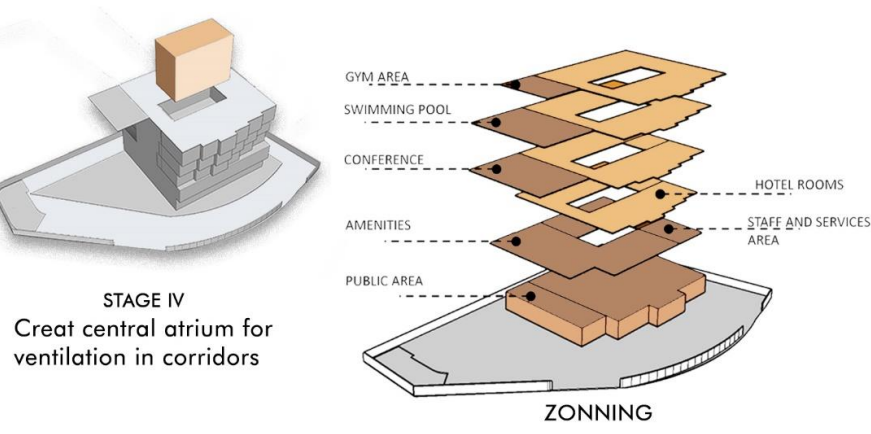
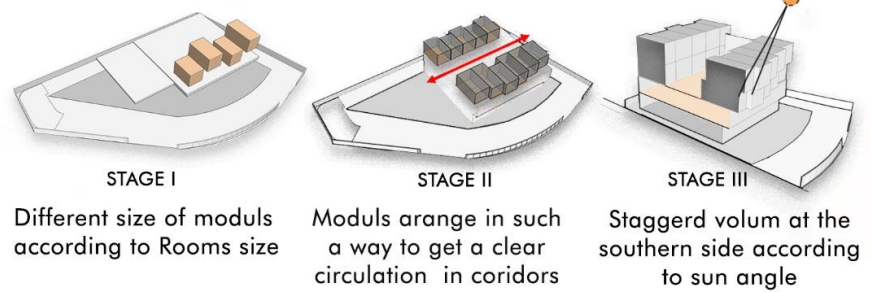
STUDIO OBJECTIVE :

The studio aim was to design a bussiness hotel near the railway station for people who travels different cities for business meetings. The studio focuses on how to design a more efficient and compact building in a small site with respect to the site context ,integreted with the building technology.

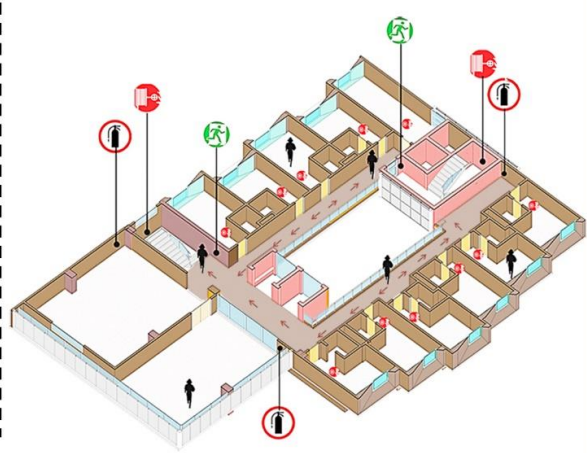
location : Railway Station, Surat
 Area : 1500 m²
 Climate : Hot and Humid



DESIGN IDEA



FIRE SEAFY



Green Atrium from corridore



Interior of Room

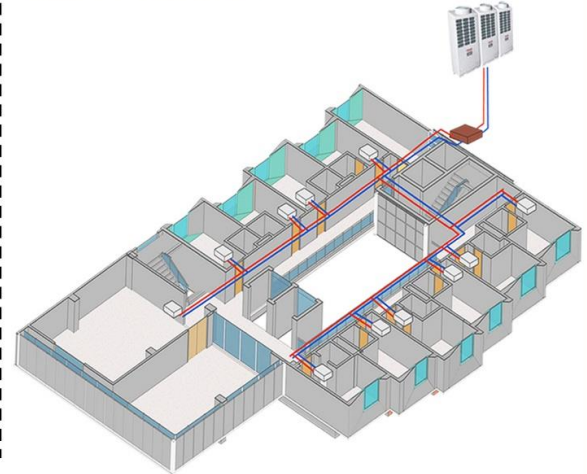


Restaurant with greenery



Open cafeteria

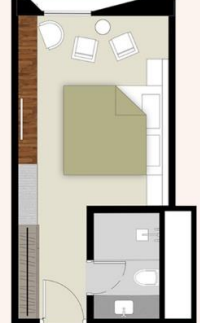
SERVICES : HVAC



Deluxe Room
Size : 3.5 x 5m
No. of rooms : 25



Deluxe Twin Room
Size : 3.2 x 5.8m
No. of rooms : 10



Executive Room
Size : 3 x 6.8m
No. of rooms : 10

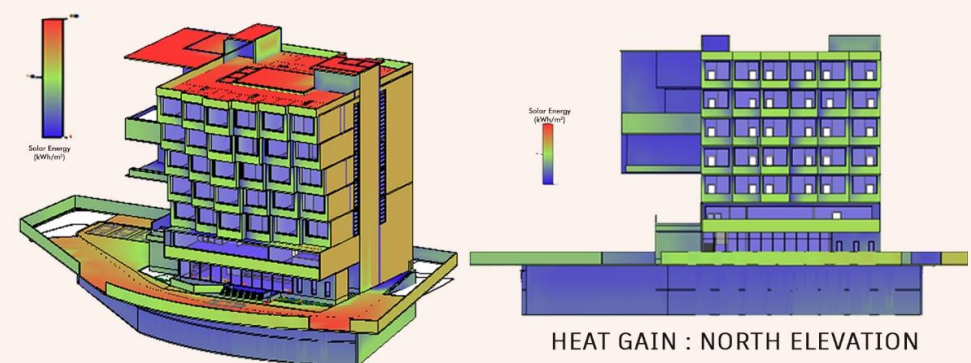


Executive Twin Room
Size : 3.5 x 6m
No. of rooms : 5

BUILDING FACADE

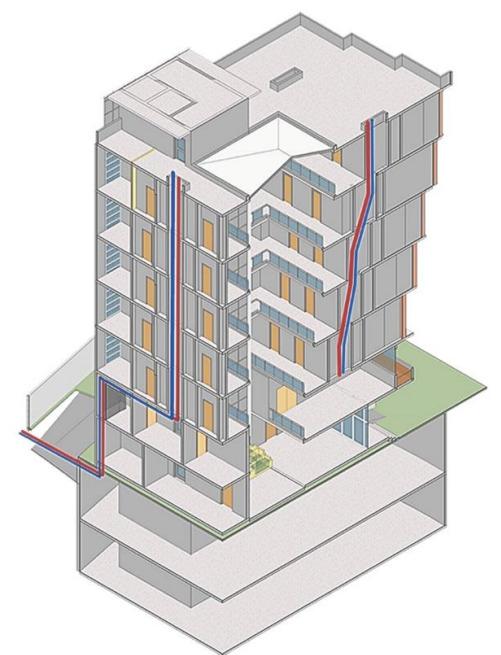
- 1 MEDIA FACADE : LED MASH
 - Transparency
 - Place at south - wast direction : Capabe to take wind load
 - Low Energy Consumption
 - Use as a advertisement : place at a prime location
- 2 TERRACOTTA PANEL CLADDING
 - Reduse the heat gain
 - Safety and shock resistance
 - Easy to install
- 3 CHAMFERED REVEALS WINDOW
 - Good Asthetic
 - less heat gain
 - Cutdown direct sunlight allow maximum natural light in to the room

CLIMATIC PERFORMANCE



Solar analysis will give amount of sun on the face of the building. Staggered volume help to reduce heat gain. Insulating terracotta cladding reduse the heat transferring to interior and provides better thermal performance.

SERVICES PROVISION



SOUTH SIDE ELEVATION

06 SHROFF'S RESIDENCE, MUMBAI

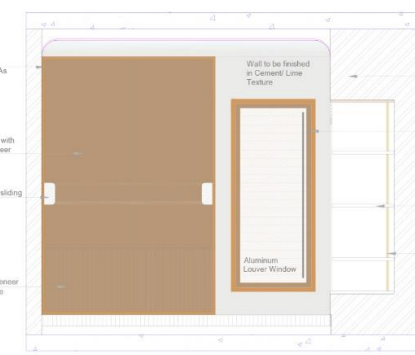
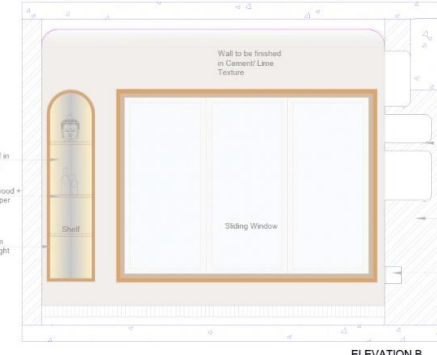
Type of project : Residence Renovation
 Location : Mumbai
 Project Architect : Ar. Jahanvi J.
 Drawing Status : Approved

- Involvement :
- Mapping layout
 - Furniture Layouts of house
 - Interior Elevations of whole house
 - 3d and vray Render for Presentation and client understanding
 - Electrical Layout
 - Client Meetings
 - Social Media Post

DESIGN LAYOUT OF BED ROOM



Space Visualization for Living Room

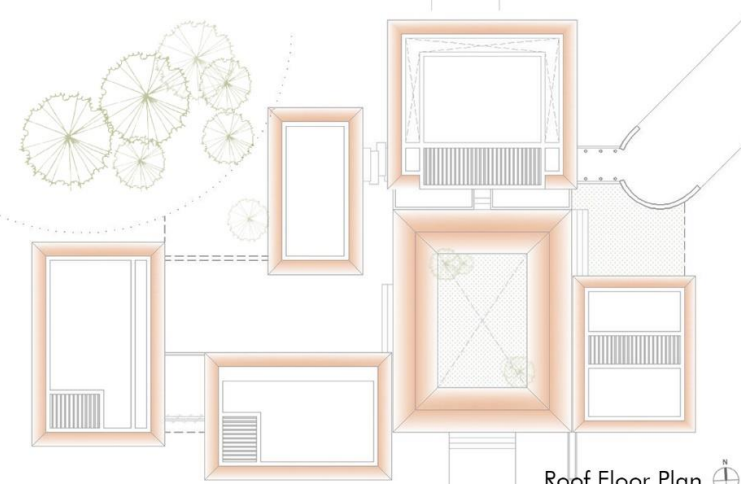
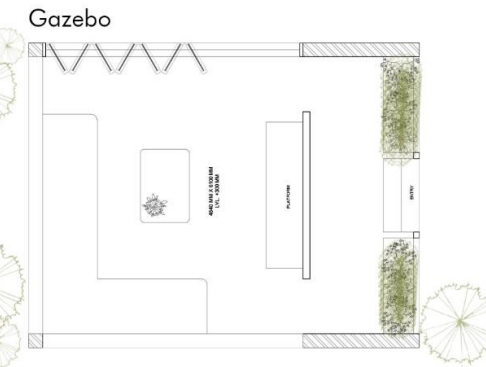


Space Visualization for Dhaval's Bed Room

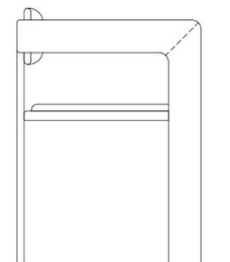
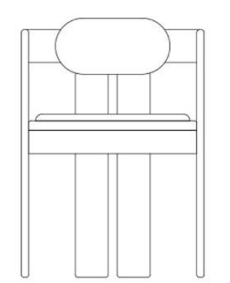
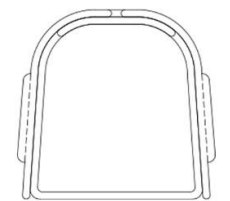
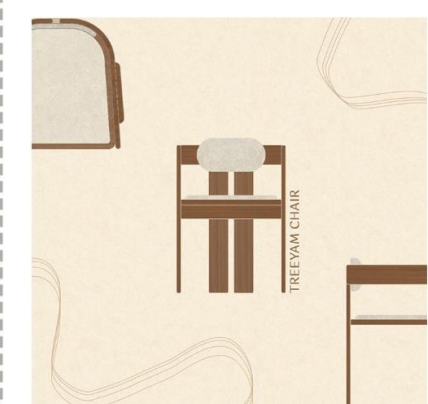
FARM HOUSE PROPOSAL: DHAMAN, NAVSARI

Type of project : Residence
 Location : Navsari
 Project Architect : Ar. Jahanvi J.
 Drawing Status : Approved

- Involvement :
- Mapping layout
 - Furniture Layouts of house
 - Presentation work
 - 3d and vray Render for Presentation and client understanding
 - Client Meetings



PRODUCT DESIGN : TRIYAM CHAIR





AMRI FARM HOUSE : NAVSARI

Type of project : Residential
Location : Navsari,Gujarat
Project Architect : Ar. Jahanvi J.
Drawing Status : Approved

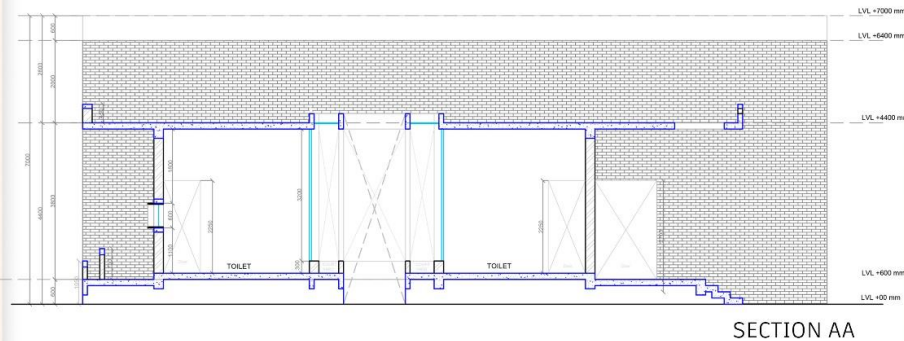
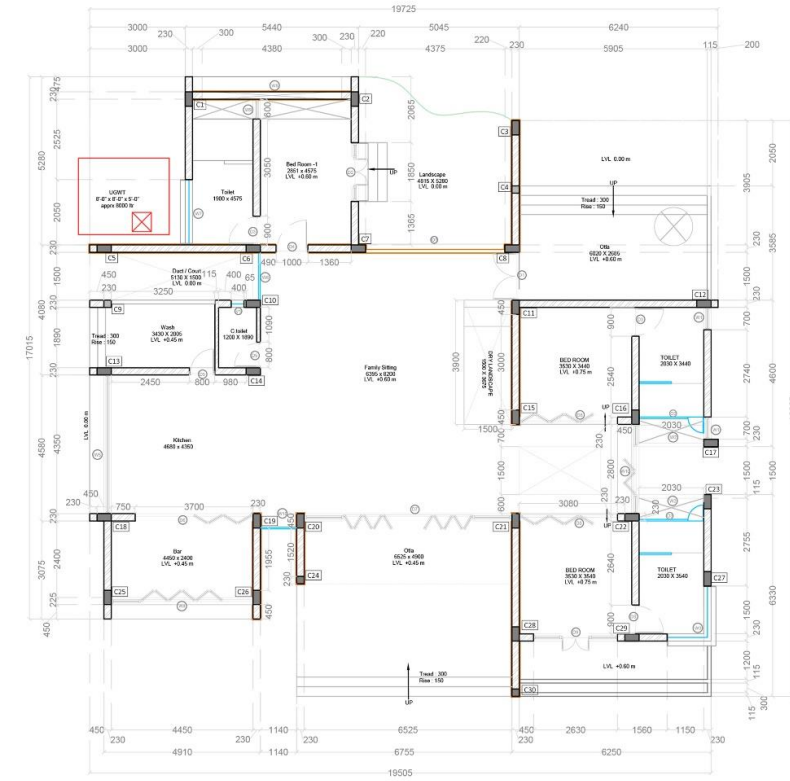
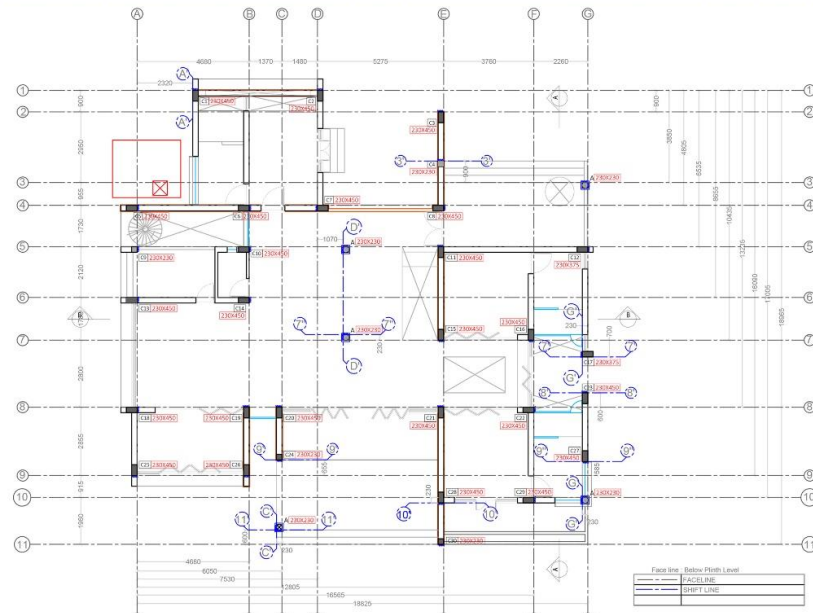
- Involvement :
- Mapping layout
 - Furniture Layouts with presentation
 - 3d and Render for Presentation and for understanding of the client
 - Workind set for site
 - site Visits
 - Client Meetings



VIEW FROM EAST SIDE



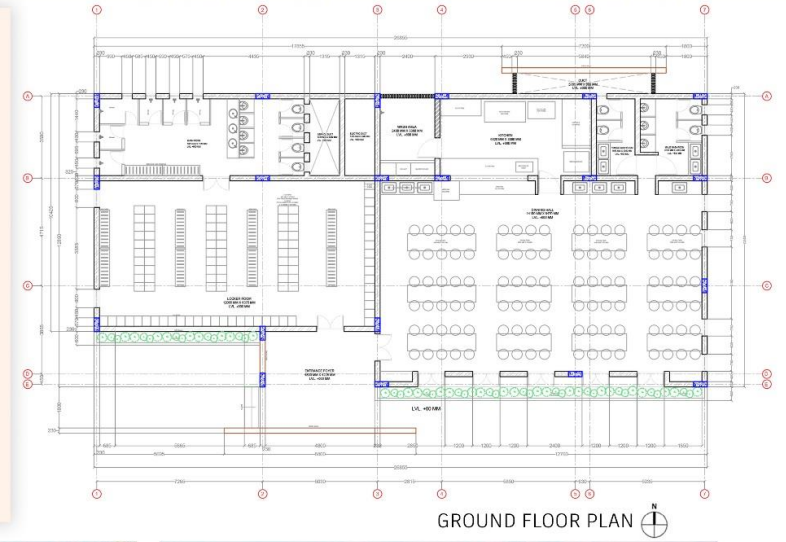
VIEW FROM SOUTH SIDE



DEEPAK CHEMTECH: DAHEJ FACTORY

Type of project : Factory Admin and Canteen
Location : Dahej,Gujarat
Project Architect : Ar. Devanshi S.

- Involvement :
- Design Development
 - Conceptual
 - Floor plan presentation drawings
 - Making 3d model
 - Realistic AI Render
 - Working Drawings



North Side Elevation OP 1



North Side Elevation OP 2



RE-DEVELOPMENT OF BINA RAILWAY STATION

Type of project : Government Project
Location : Bina , Bhopal
Project Architect : Ar. Devanshi S.
Drawing Status : Approved

- Involvement :
- Site Analysis , Survey Plans Drawings
 - Geotechnical Investigation Report_BINA
 - Design Development
 - Conceptual Idea
 - Floor plan presentation drawings
 - Making 3d model and Render
 - Working Drawings

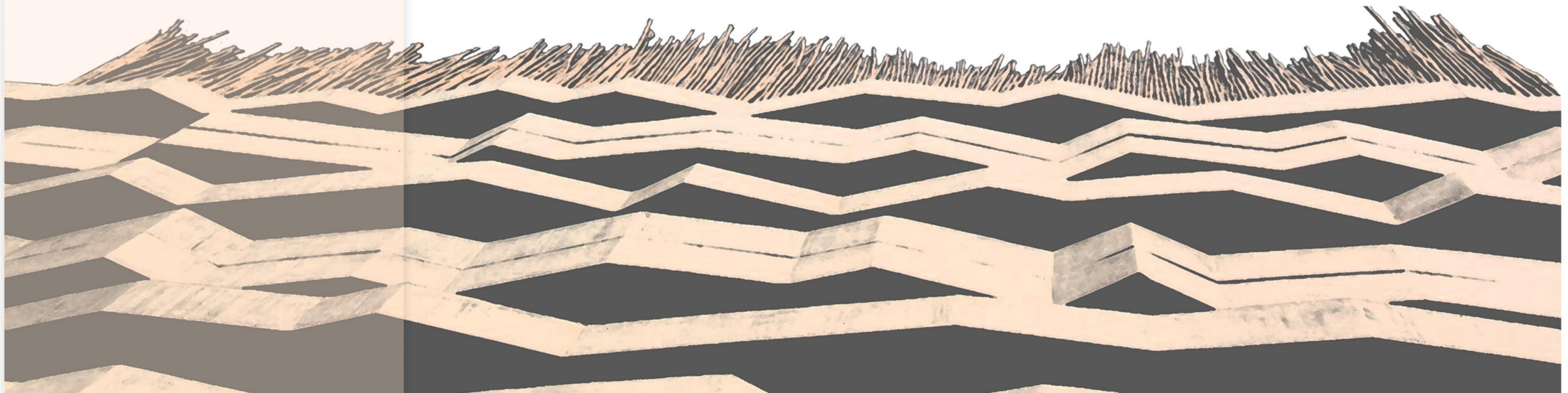


06 INTERNSHIP WORK AT ESSTEAM DESIGN & SERVICE LLP

STUDIO OBJECTIVE :

I spent a wonderful experience with the renowned firm Essteam Design Service and LLP, which focuses on sustainable design. I had the good fortune to work on various projects with four different architects at that time. I had the chance to work on township, factory, factory, and residential projects. I had the chance to interact with various consultants and agencies while I was working. My confidence was undoubtedly strengthened by this experience, which also taught me a great deal about working on real-time projects and handling clients and other problems on the work site simultaneously.

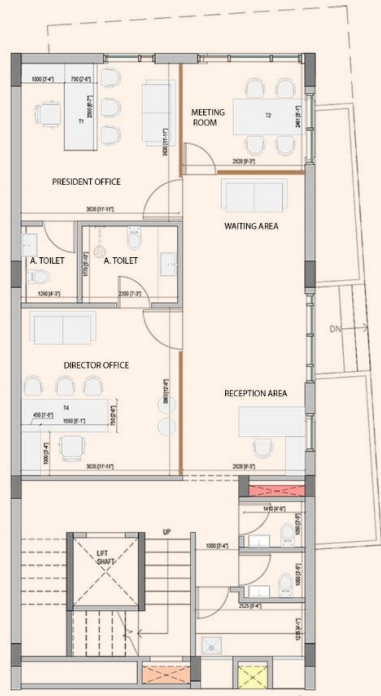
- 1. SAGAR LIFE SCIENCE PVT LIMITED,PANOLI**
PRESENTATION WORK
WORKING OF PLANS,ELLEVATIONS AND SECTIONS
AND DETAIL DRAWINGS OF FACADE INN REVIT
INTERIOR DESIGN ,3D MODELING AND V-RAY RENDER
- 2. SHRI PRADEEP BAGLA,KOLKATA**
PREPARE WORKING DRAWING SET AND DETAIL DRAWINGS
- 3. AETHER INDUSTRY LMT., SURAT**
PRESENTATION AND DESIGN WORK
PREPARE WORKING DRAWING SET IN REVIT
- 4. VILLA FOR NAROLA FAMILY , SURAT**
WORKING DRAWINGS OF SERVANT QUARTER
DESIGN WORK OF EXTERIOR CLADDING
SITE VISIT
- 5. SHELL ENERGY INDIA PVT. LTD.,SURAT**
WORKING OF LANDSCAPE
- 6. TOWNSHIP FOR AMRIT CEMENT LTD,MEGHALAYA**
3D MODELING AND LUMION RENDER
- 7. RESIDENCE FOR MR. ASHWIN DESAI , SURAT**
LIGHTING ANALYSIS IN REVIT (Confidential)
- 8. SARSANA EXHIBITION HALL,SURAT(COMPETITION ENTRY)**
PRESENTATION
3D MODELING OF INTERIOR
- 9. VANITA VISHRAM SPORTS COMPLEX,SURAT**
PRESENTATION OF PLANS AND PREPARE AREA STATEMENT
- 10. DIAMOND FACTORY FOR MR. KALPESHBHAI MEHTA**
DETAIL DRAWINGS
- 11. JEWEL GOLDI FACTORY**
PRESENTATION OF PLANS
PREPARE AREA STATEMENT
- 12. GUJARAT BIOTECHNOLOGY UNIVERSITY,GANDHINAGAR**
EXTERIOR CLADDING OPTIONS AND 3D MODELING
- 13. DHAMMA NARMADA - A VIPASSANA CENTRE**
MASTER PLANNING AND WORKING PLANS
- 14. ACCURE DIAMOND FACTORY,SURAT**
PLANTER,GLAZING AND COMPOUND WALL DETAIL DRAWING



SAGAR LIFE SCIENCE PVT LIMITED, PANOLI

Type of project : Admin Office
 Location : Panoli , Ankleshwar
 Project Architect : Ar. Ankur Desai
 Drawing Status : Approved

- Involvement :
- Furniture Layouts
 - Working Of Exposed Rcc Slab Shuttering
 - Working Sections And Elevations
 - Grooves In Elevations With Detailed Drawing
 - Glazing Detail
 - Electrical Layout Of All Floor Plans
 - Detail Drawings Of Staff Toilets On The Ground And First Floor, Executive Toilets On Ground Floor, And Pantry Area
 - Detail Drawing Of Vertical Louvers At East And North Facade
 - Design The Interior Of The Ground Floor According To Moodboard

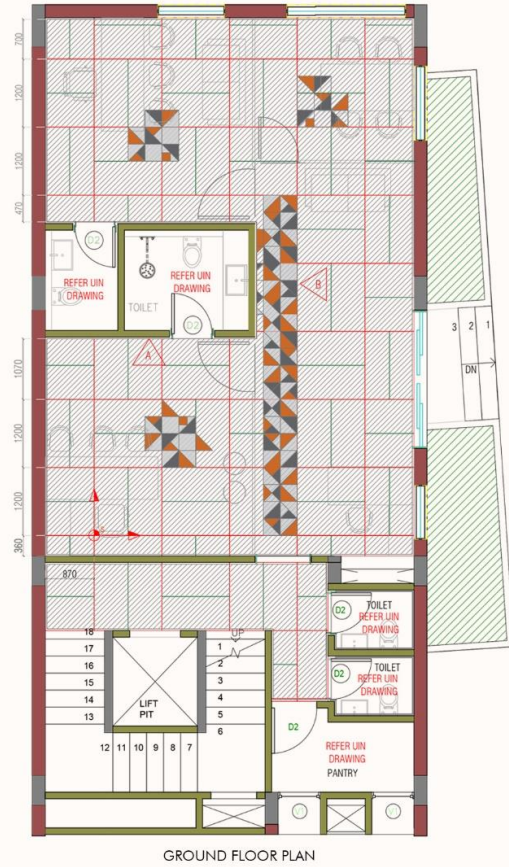


Ground Floor Plan

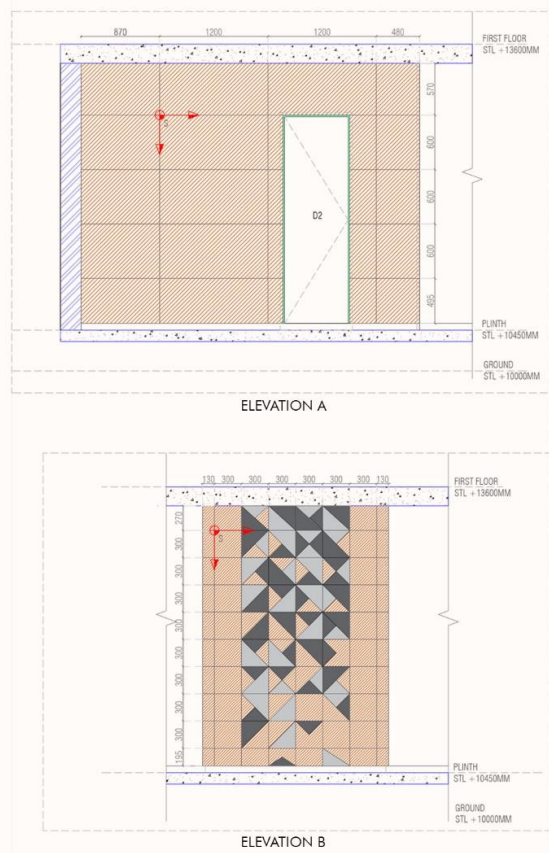


Learning :
 The process of assembling the working drawing set in accordance with site needs. By speaking with other consultants, find out how a project is progressing. How to present an interior design process in a professional manner in front of clients and convince them.

FLOORING DESIGN



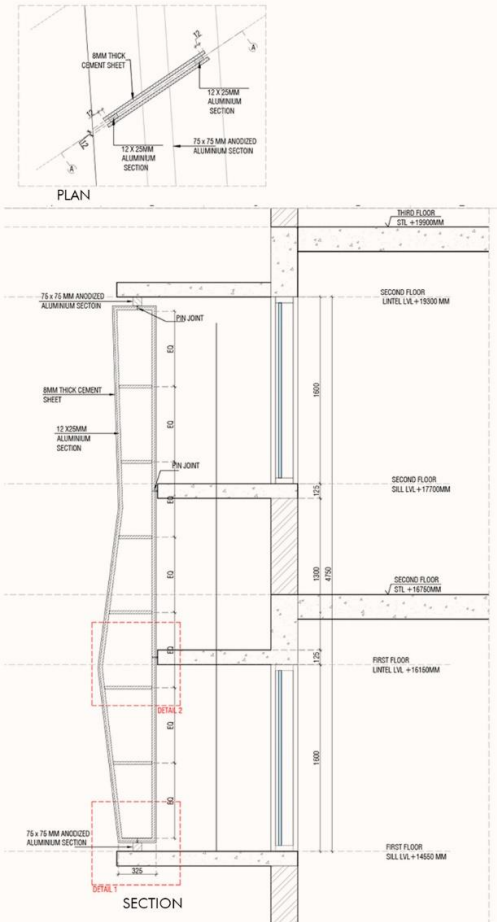
GROUND FLOOR PLAN



ELEVATION A

ELEVATION B

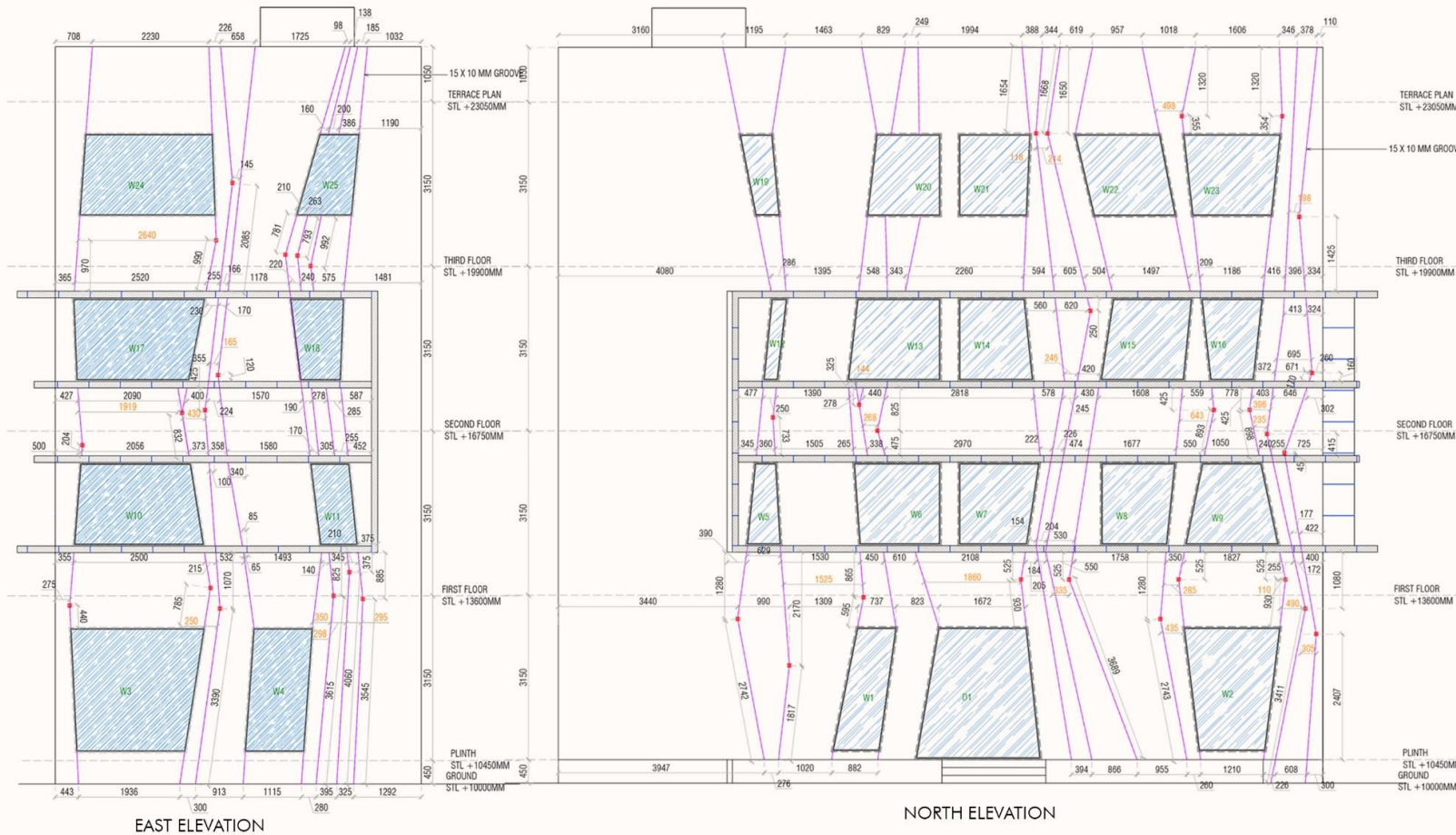
FACADE DETAIL



PLAN

SECTION

WORKING DRAWING GROOVES IN ELEVATION



EAST ELEVATION

NORTH ELEVATION

INTERIOR DESIGN



MOODBOARD



RECEPTION



MEETING ROOM



WAITING AREA



DIRECTOR OFFICE

SHRI PRADEEP BAGLA, KOLKATA

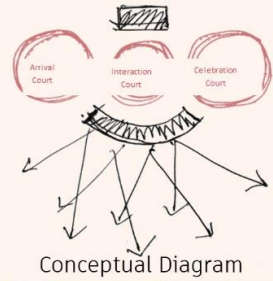
Type of Project: Farm House
 Location : Howrah, Kolkata
 Project Architect : Ar. Ankur Desai
 Drawing Status : Approved

Program :

- Entrance Foyer
- Living Room + Study
- Family Living Room
- Kitchen + Dining + Storeroom
- Guest Room + 3 Bed Rooms
- Sauna And Spa + Bar
- Swimming Pool
- Lawn Area

Involvement :

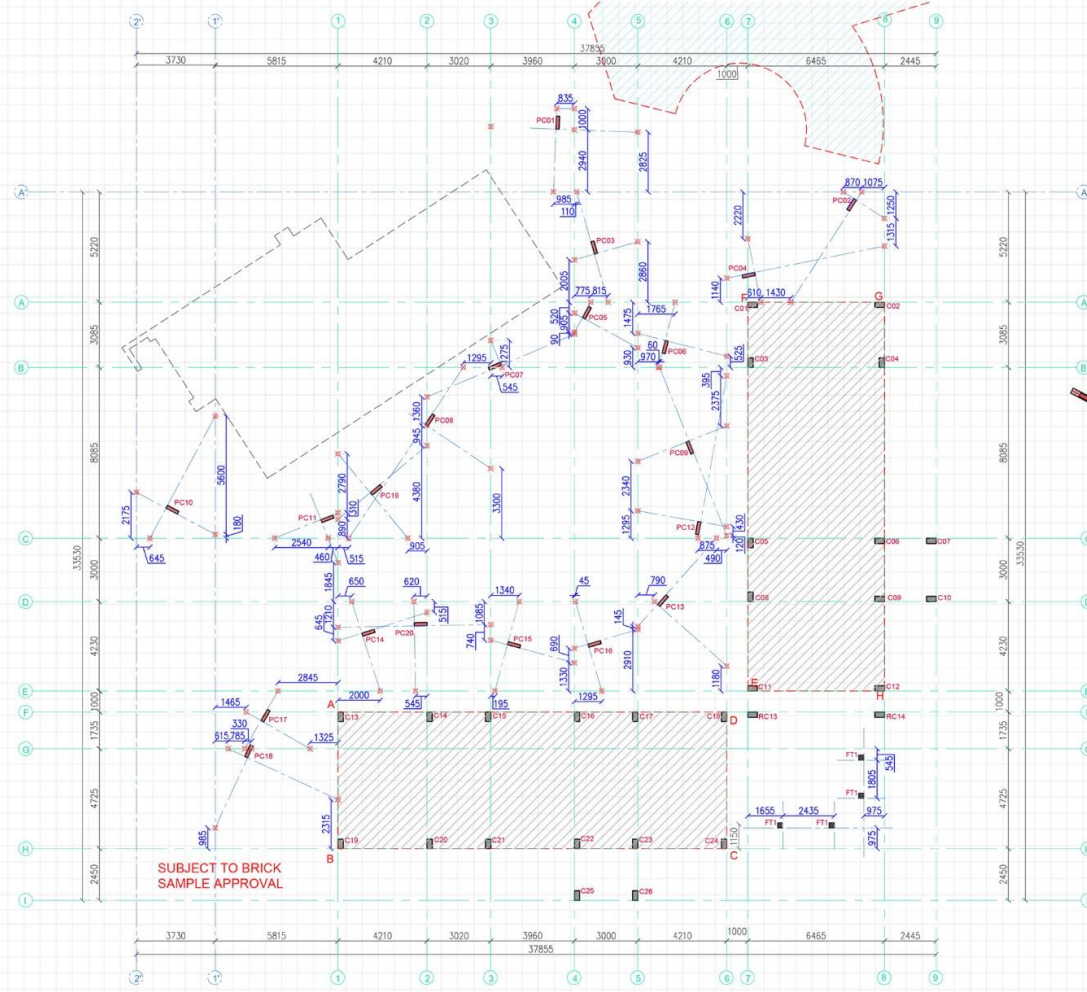
- Faceline Drawing
- Working Of All Floor Plans Sections, And Elevations
- Detail Drawing Of Curve Wall Of Courtyard



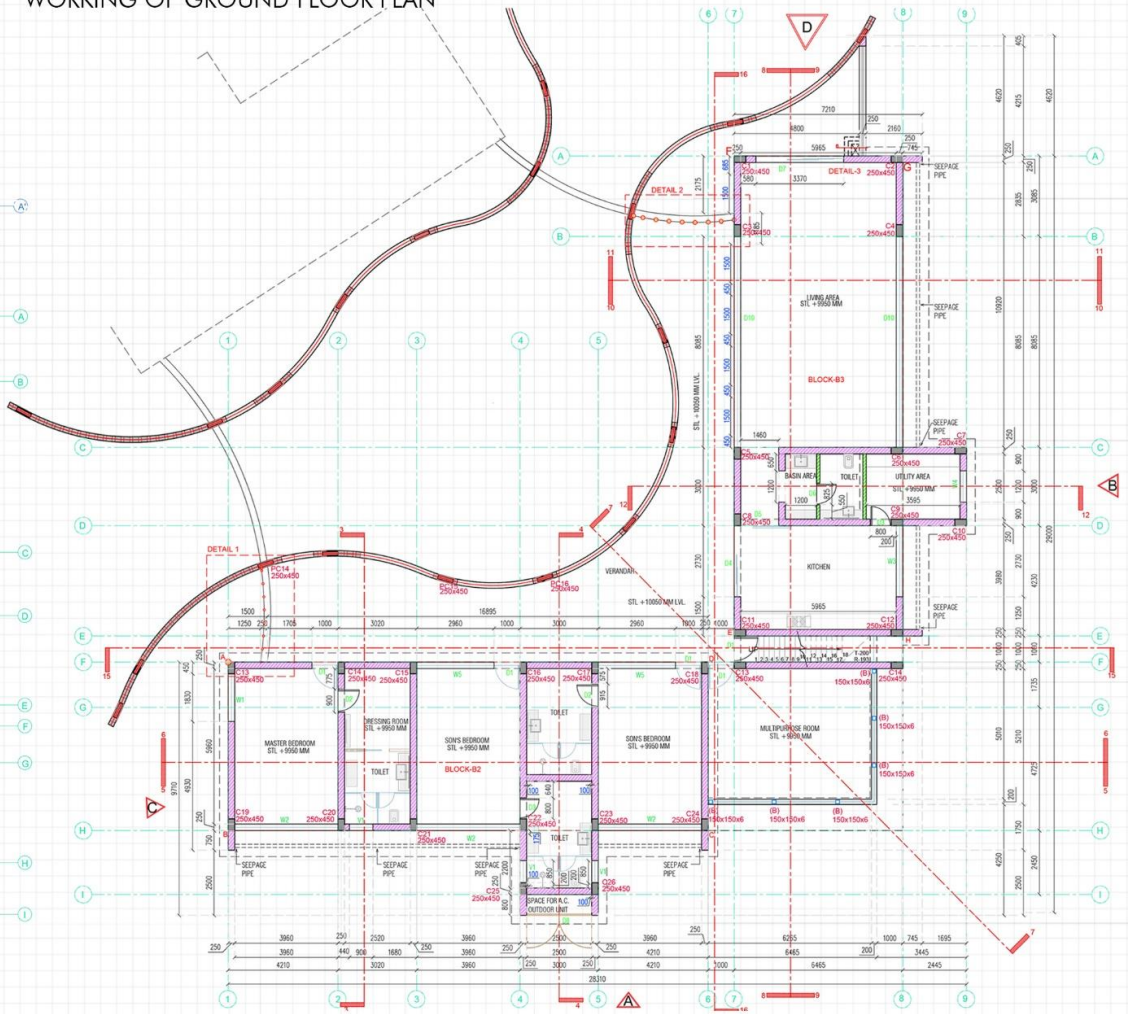
Ground Floor Plan



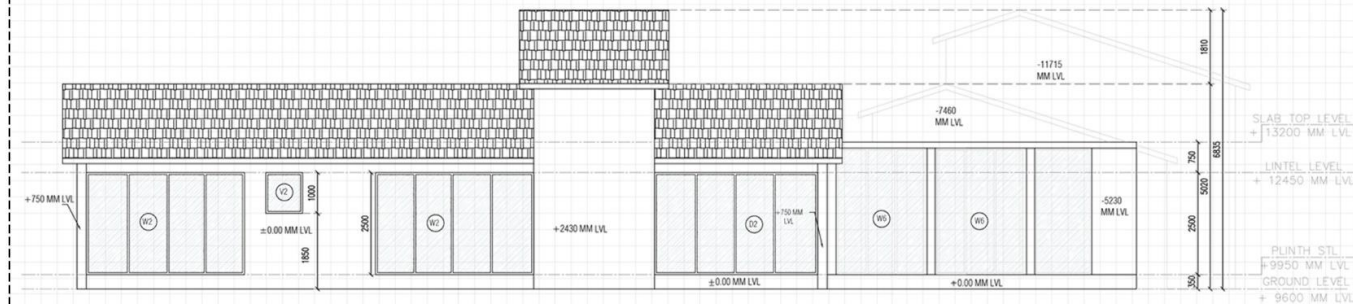
FACELINE DRAWING



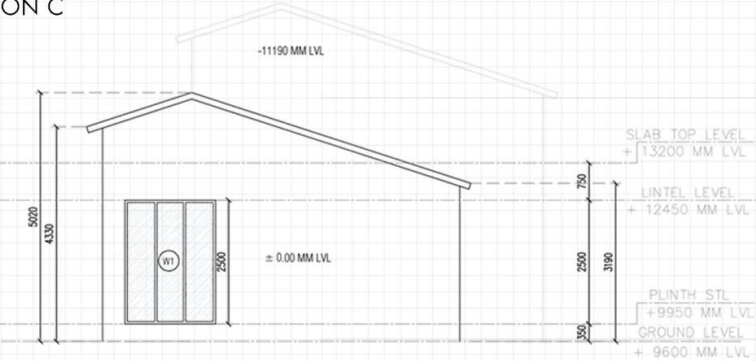
WORKING OF GROUND FLOOR PLAN



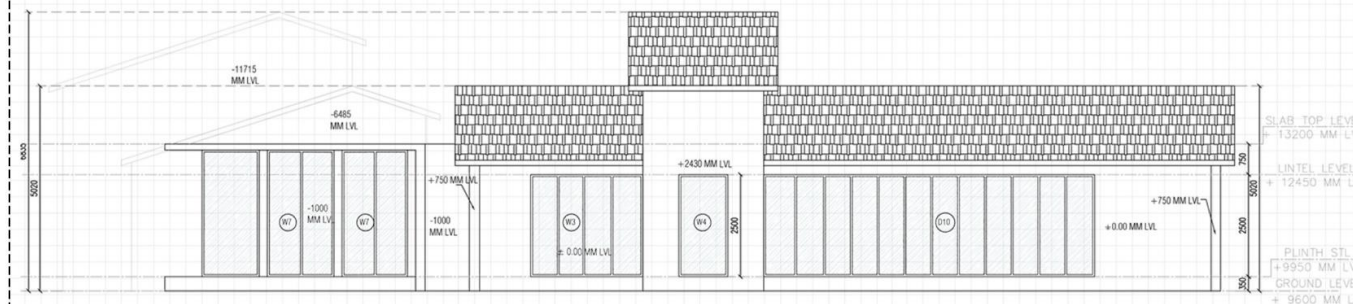
ELEVATION A



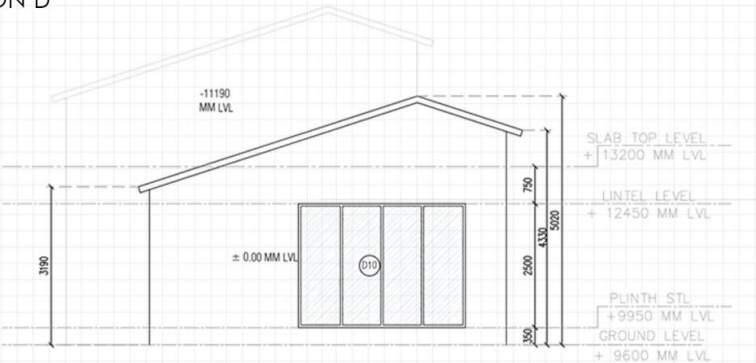
ELEVATION C



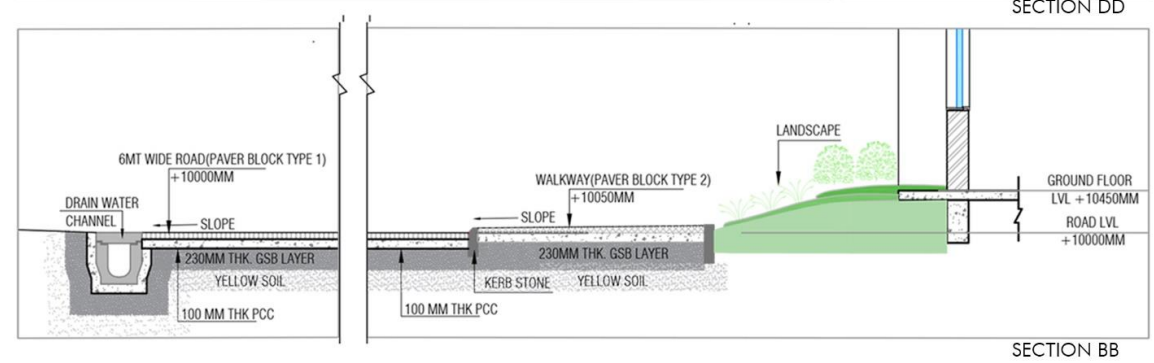
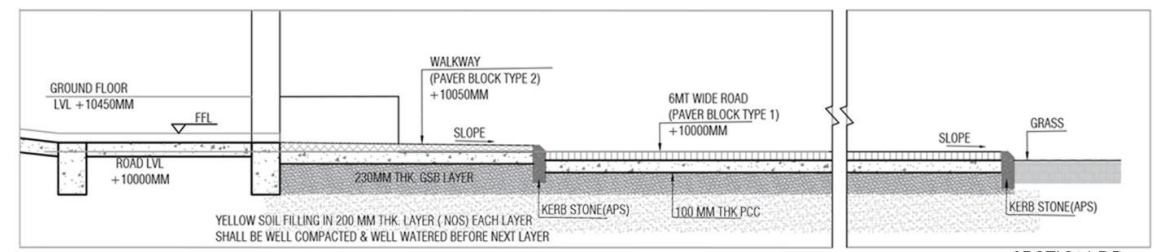
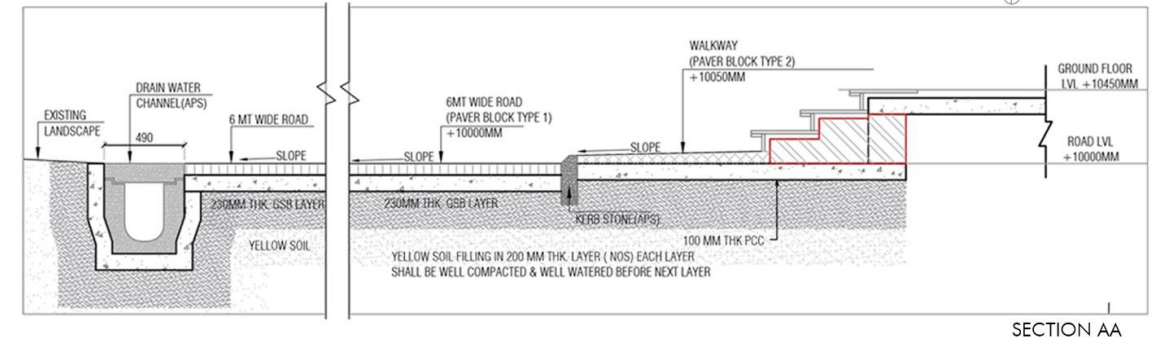
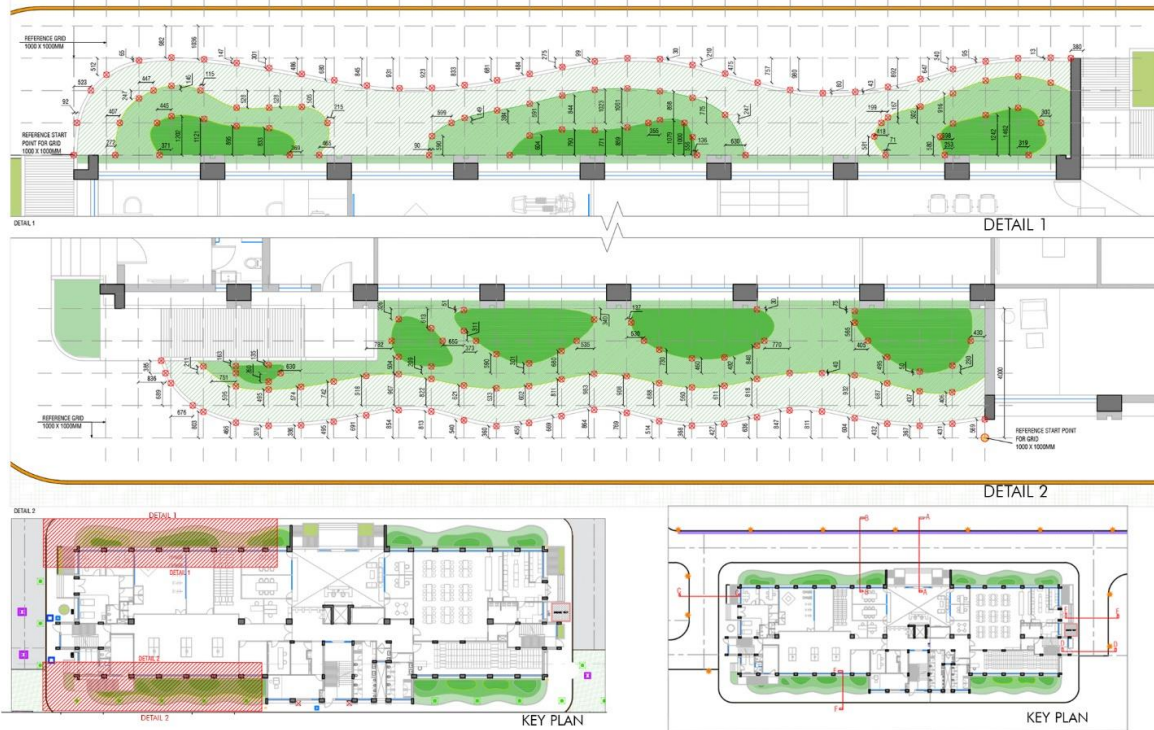
ELEVATION B



ELEVATION D



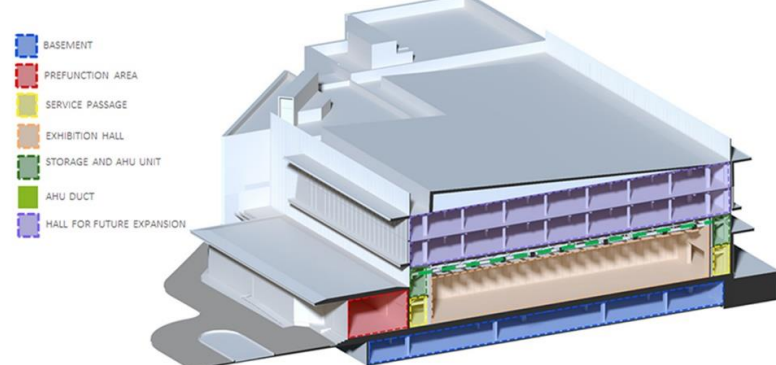
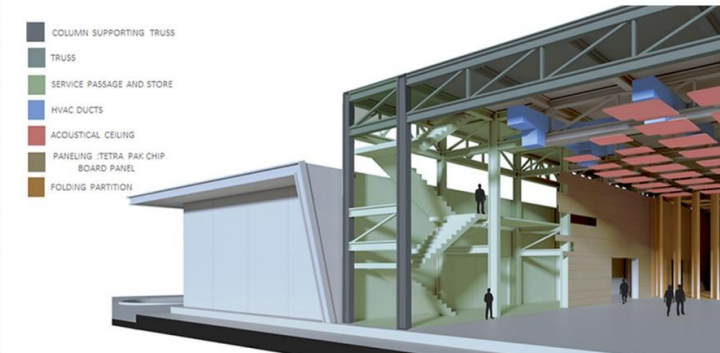
SHELL ENERGY INDIA PVT. LTD. ,SURAT



TOWNSHIP FOR AMRIT CEMENT LTD,MEGHALAYA



SARSANA EXHIBITION HALL,SURAT



07 BHUTAN (DOCUMENTATION WORK)

Contribution :Examine and photograph the Royal Textile Academy and the Punakha Dzong in Paro. I was involved in the onsite mapping, live sketching, and interacting with the locals and presented the compilation of work with with render after the visit.

STUDIO OBJECTIVE :

The study programme consists of studying Bhutanese architecture. Dzong is one of the temple styles that perfectly presents the architectural style of Bhutan. The Royal Textile Academy's mission is to promote Bhutanese art. The structure is a wonderful fusion of contemporary and Bhutanese design.

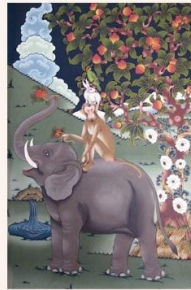
location : Thimphu and Paro

Climate : Cold

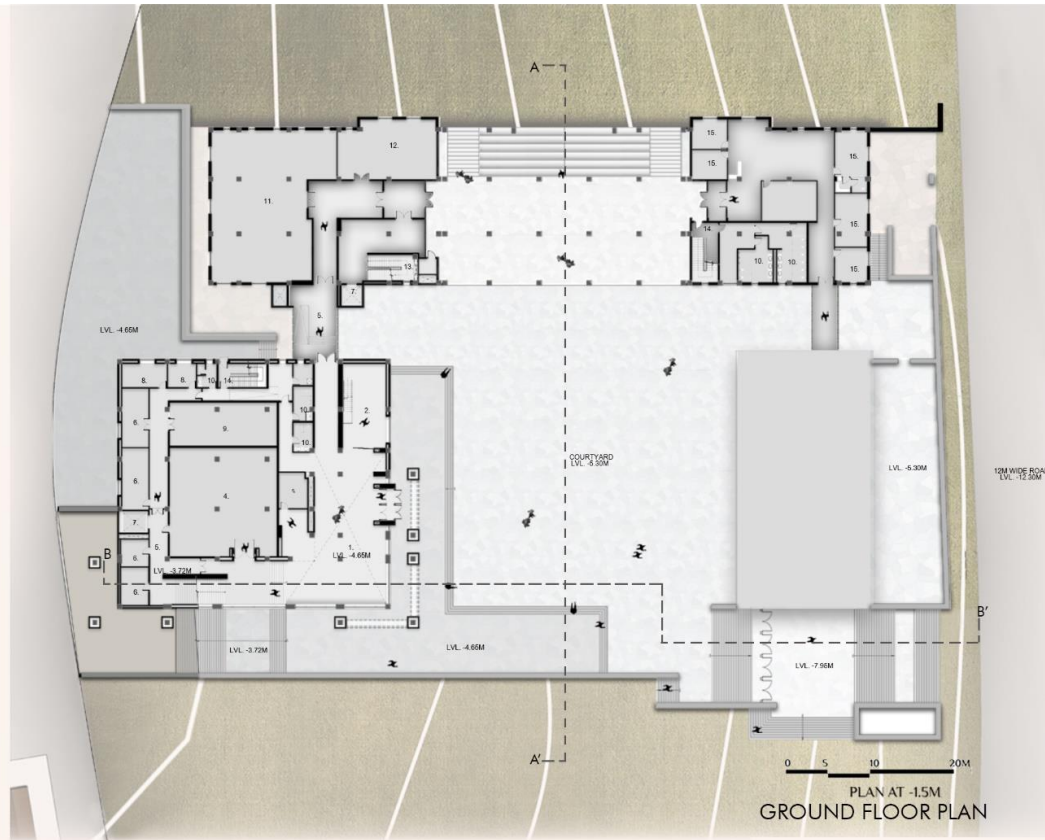
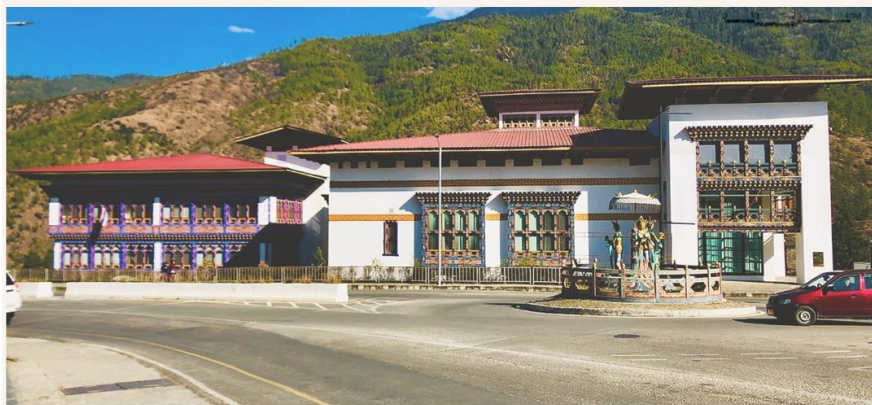
Year : 2019

ROYAL TEXTILE ACADAMY

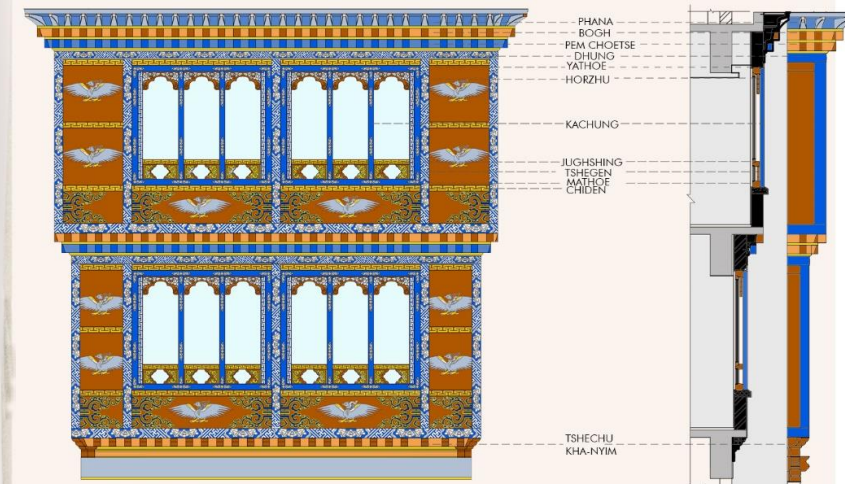
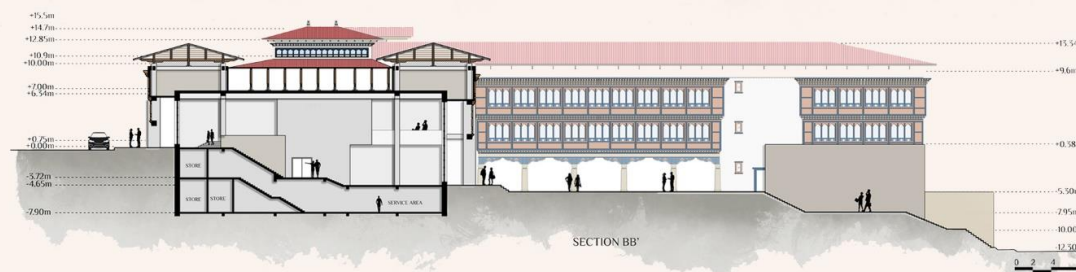
Weaving is an integral to the culture and traditions of bhutan. To preserve and promote this living art,the Royal Textile Academy of Bhutan was instituted in may 2005, under the patronage of her Majesty the queen Mother Sangay Choden Wangchuck, as a non - Government.



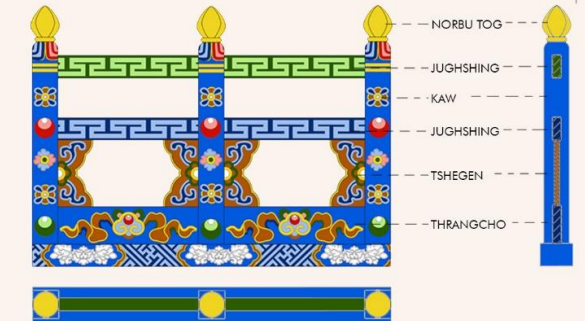
The Royal Textile Academy design is a reflection on the fable, The Four Friends (Thuenpa puen shi).



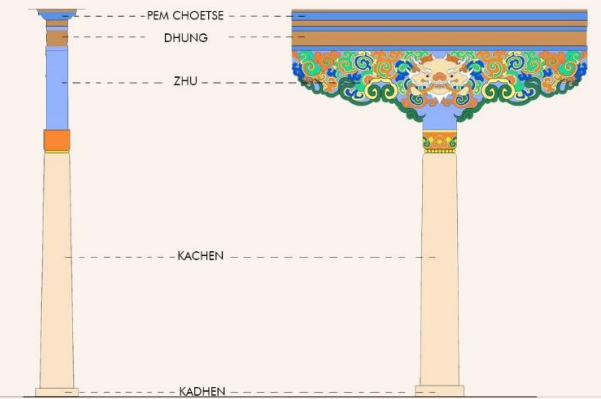
The three storied office building has two floors of basement parking. This phase mainly consists of office space to be rented out to generate income for the RTA to meet its administrative costs as well as running cost for its programs.



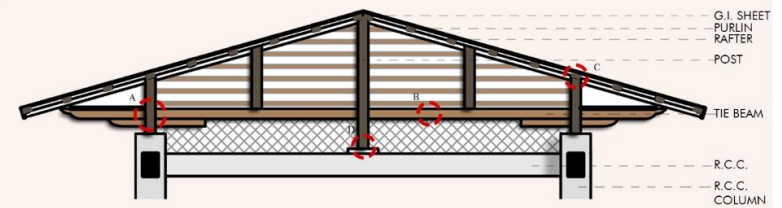
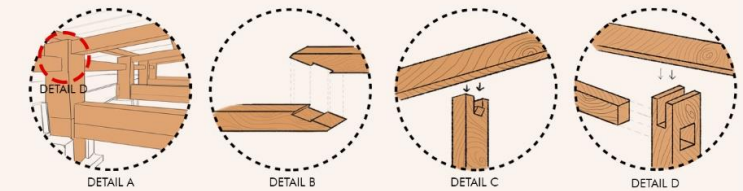
WINDOW DETAIL



TADHANG TAZI (BALUSTER) DETAIL



COLUMN DETAIL



WOODEN ROOF DETAIL



08 GARO : MEGHALAYA

THE INDIGENOUS LINEAGE OF SADOLPARA

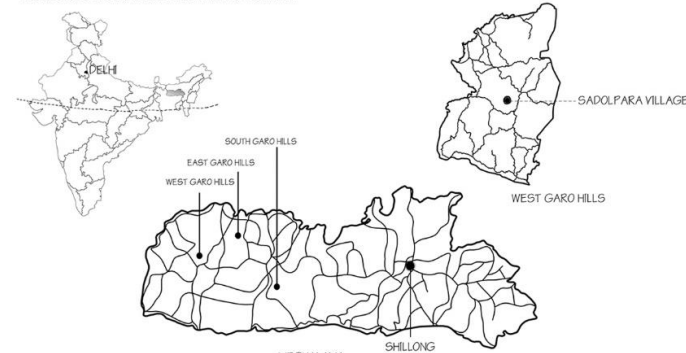
LOUIS I. KAHN TROPHY 2018 -19

Contribution : I assisted in gathering material and details from books and online resources. Then, as part of a 3d modelling team, I worked on creating the proper 3d of the documentation site as the vernacular material was bamboo and it was a difficult task to develop it manually, as well as was involved in detail study of units and sheet composition under a production team.

INTRODUCTION OF GARO TRIBES

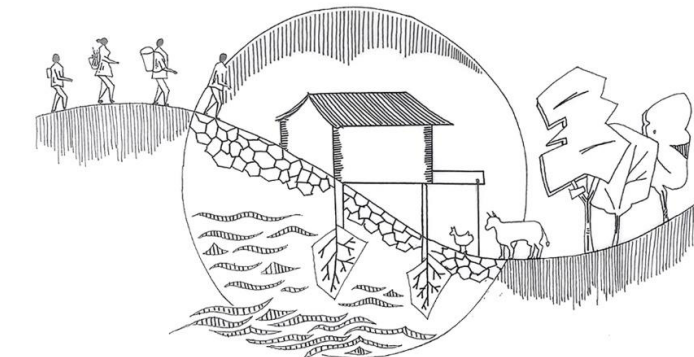
LOCATION

THE HIGHEST CONCENTRATION OF THE GAROS IS SEEN IN THE GARO HILLS DISTRICT OF MEGHALAYA. ETHNICALLY THE GAROS BELONG TO THE MONGOLOID RACE LIKE MOST OF THE TRIBES OF NORTH EAST INDIA. GARO INITIALLY REFERRED TO THE TRIBE WHO INHABITED THE SOUTHERN PART OF THE HILLS, BUT LATER EXTENDED TO ALL THE INHABITANTS OF THE HILLS. THE GAROS CALL THEMSELVES 'ACHIK MANDE' WHICH MEANS 'HILL MAN'

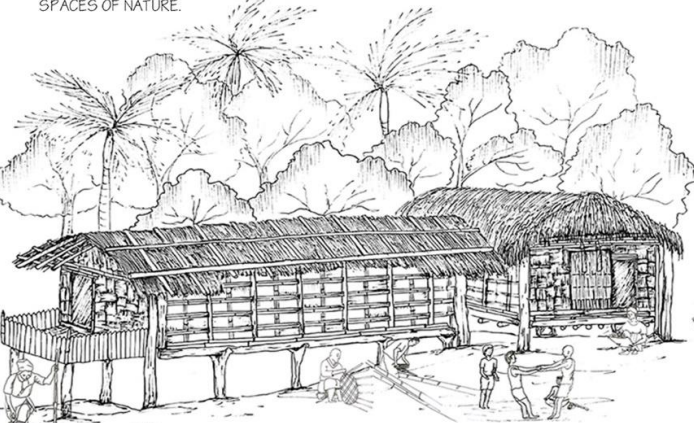


'ARCHITECTURE IS THE THOUGHTFUL MAKING OF SPACE'
-LOUIS I KAHN

SPACES ETCH AN EXPERIENCE ON OUR MINDS, WHILE WE ILLUMINATE THEM BY CREATING THEM. BUILT ENVIRONMENT INTENDS IN DESIGNING EASILY UNDERSTANDABLE SPACES, WHICH AMALGAMATE PEOPLE AND NATURE, MINIMIZE ENVIRONMENTAL IMPACT AND MAXIMIZE HUMAN INTERACTION. THE ETHEREAL ASPECT OF LIVING IS THE ASSIMILATION OF HOW IT IS DONE AND HOW A SYMBIOTIC RELATIONSHIP EFFECTUATES BETWEEN MAN AND NATURE, WHERE THE LATER INSPIRES THE FORMER TO CONSTRUCT AND DESIGN DWELLING INTEGRATES.



THUS, DWELLINGS ARE SPACES THAT COMMUNICATE AN EMPYREAL ESSENCE OF LIVING, THESE ARE A REFLECTION OF THE FORT STOOD TIME , WHICH HAVE EVOLVED THEM AS INCESSANT SPACES OF NATURE.



THE BUILDING OF UNITS IS PREFERRED ON FLAT AREAS. IF THE SPACE AVAILABLE HAS CONTOUR, THE ISSUE IS RESOLVED DURING CONSTRUCTION BY PROVIDING HIGH STILTS TO MATCH THE HEIGHT DIFFERENCE.

THE PLACEMENT OF HOUSES IS SUCH THAT THE FLOW OF WIND IS UNDISTURBED BY THESE HOUSES.

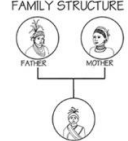
THE DWELLINGS ARE ORIENTED TOWARDS THE GAZEBO, THE COMMON GATHERING SPACE AND THE GRANARIES ARE EQUALLY DISTRIBUTED AMONG THE HOUSES.

ISOMETRIC VIEW OF THE SITE

UNIT TYPOLOGY : A

HOUSE TYPOLOGY A : NOGEN MARAK'S HOUSE

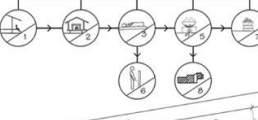
THE TYPOLOGY OF UNITS HAS BEEN STRATEGICALLY CLASSIFIED ON THE BASIS OF OCCUPATION OF THE FAMILY. THE UNIT OUTSTANDS THE OTHERS AS IT COMPREHENS A NEWLY CONSTRUCTED EXTENDED KITCHEN, ALSO USED FOR STORAGE. PURPOSES THE DWELLING IS OWNED BY A COUPLE AND THEIR SON OF TWELVE YEARS OF AGE. THE OPEN FOYER IN THE FRONT FACES TOWARDS THE CENTRE OF THE CLUSTER. THE UNIT CONSISTS OF A WEST FACED ENTRY. ANOTHER DISTINCTIVE FEATURE IS THE OPEN SPACE BETWEEN THE KITCHEN AND THE EXTENDED KITCHEN, WHICH HELPS IN REGULATING WIND AND LIGHT IN ABUNDANCE.



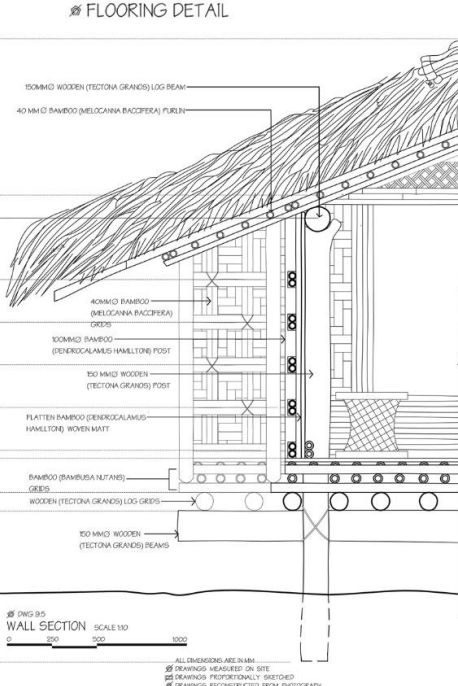
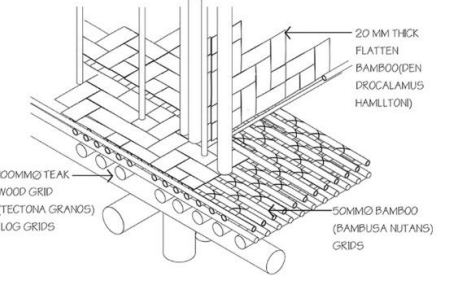
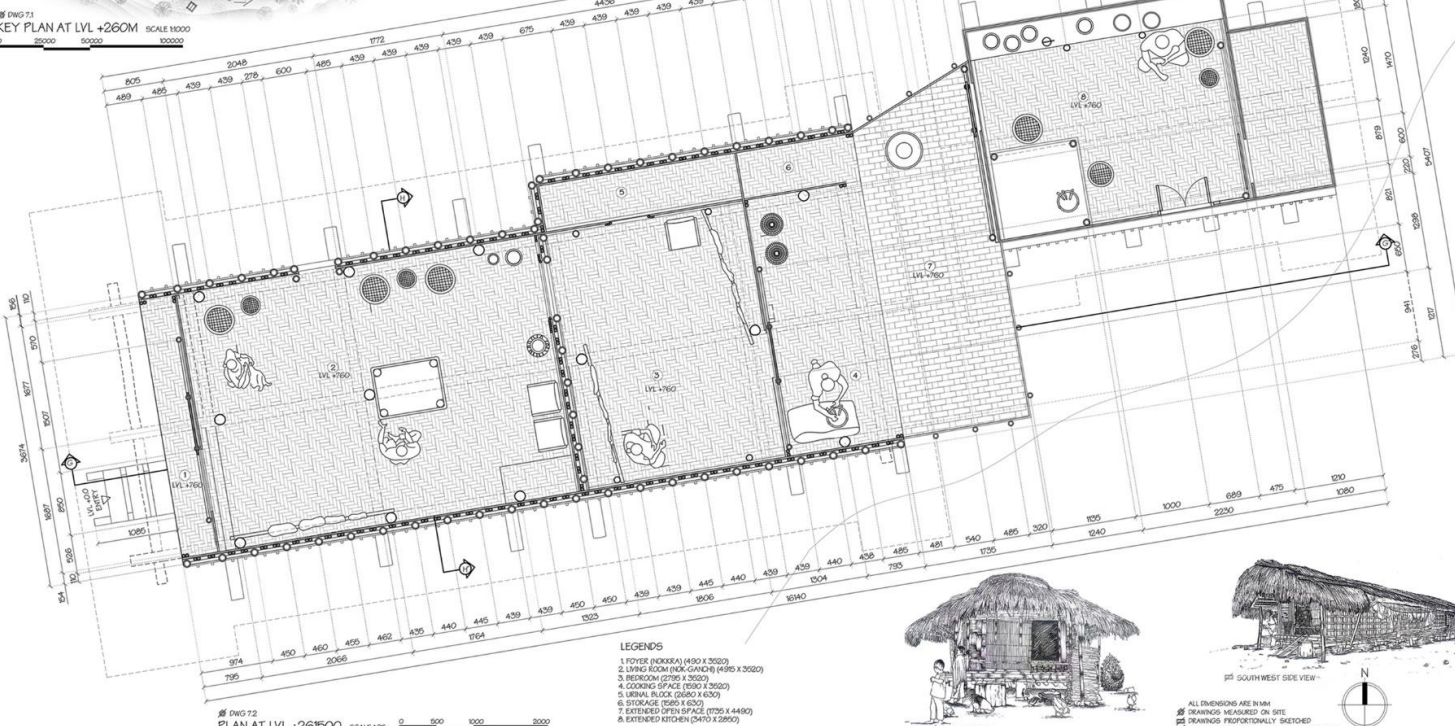
OCCUPATION : CULTIVATION

LIKE MAJORITY OF GAROS, THE HOUSEHOLD IS DEPENDENT ON AGRICULTURE AS A WAY OF LIVING. THE FAMILY CULTIVATES CORN AND CHICKEN. MOST OF THEIR DAY IS SPENT ON THE FIELDS. AFTER CULTIVATION, WORKING OF THE COOPS IS CHARGED OUT IN THE BACK OF THE UNIT.

SPATIAL HIERARCHY OF SPACES



THE HIERARCHY OF THE UNIT IS DIVIDED IN SUCH A WAY THAT TRANSITION TAKES PLACE FROM PUBLIC TO PRIVATE AREA. ALL THE ROOMS ARE INTERCONNECTED AND THE PLACEMENT OF DOORS HELPS MAINTAINING PRIVACY OF RESPECTIVE QUARTERS.



- 1. FOYER (NOKREA) (4190 X 3050)
- 2. LIVING ROOM (NOK-GANCHO) (4195 X 3500)
- 3. BEDROOM (7765 X 3020)
- 4. COOKING SPACE (1630 X 3020)
- 5. URINAL BLOCK (2850 X 1530)
- 6. STORAGE (1580 X 630)
- 7. EXTENDED OPEN SPACE (1735 X 4480)
- 8. EXTENDED KITCHEN (2470 X 2850)

ALL DIMENSIONS ARE IN MM
DRAWINGS MEASURED ON SITE
DRAWINGS PROPORTIONALLY SKETCHED
DRAWINGS RECONSTRUCTED FROM PHOTOGRAPH

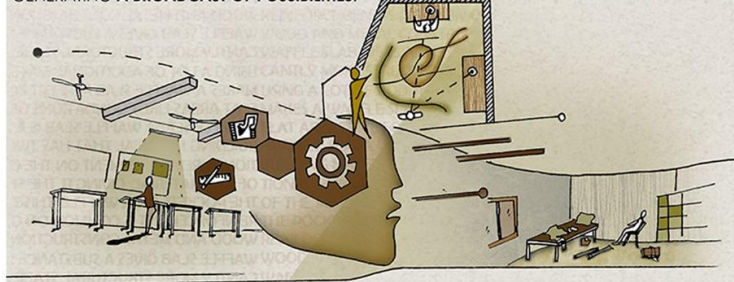
ALL DIMENSIONS ARE IN MM
DRAWINGS MEASURED ON SITE
DRAWINGS PROPORTIONALLY SKETCHED
DRAWINGS RECONSTRUCTED FROM PHOTOGRAPH

09 PLUG AND PLAY INDUSTRIAL DESIGN TROPHY 2019 - 20

Contribution :
As part of this competition, I participated in the design process and mind mapping to determine the design programme and concept. Then work as part of a development team to make design detail drawings, compose, and complete the render sheets.

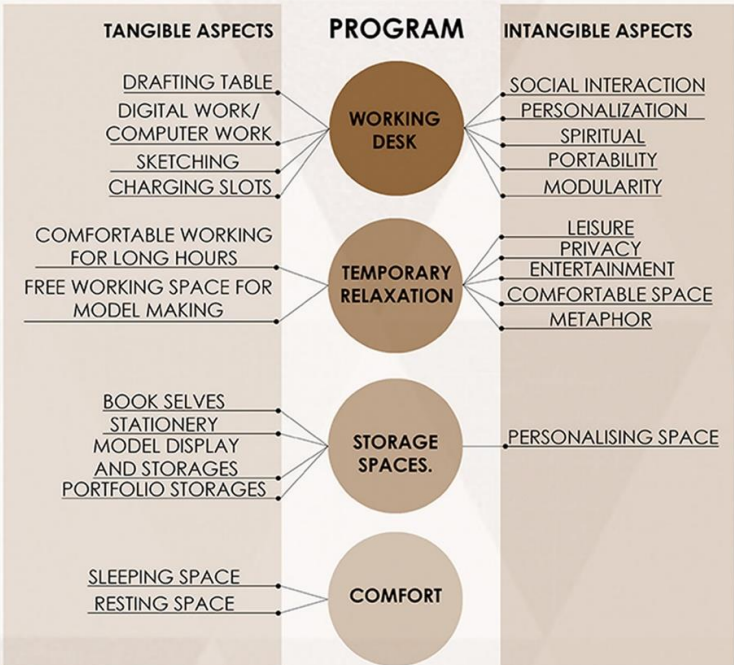
HYPOTHESIS

"TO CREATE MEANINGFUL INNOVATIONS, WE SHOULD CARE ABOUT USERS, LEARN, DISCOVER, CREATE AND TEST. BECAUSE ITS NOT ABOUT COMING UP WITH A RIGHT IDEA, ITS ABOUT GENERATING A BROADCAST OF POSSIBILITIES."



DESIGN PROGRAM

"IS WORKABILITY DEFINED AS TO METAMORPHOSE THE COMPLEXITIES?" "IS WORKABILITY DEFINED AS TO METAMORPHOSE THE COMPLEXITIES?" "IS WORKABILITY DEFINED AS TO METAMORPHOSE THE COMPLEXITIES?"



THE BIG IDEA

"IS WORKABILITY DEFINED AS TO METAMORPHOSE THE COMPLEXITIES?" THIS INFERRING FROM THE CASE STUDIES OF **ACTIVE WORKSPACES**, THEN RELATING IT WITH THE **MIND MAPPING** AND ANALYSING, A WORKSPACE WHICH IS MODULAR AND FLEXIBLE IN ANY HOSTEL ROOM FOR AN ARCHITECTURE STUDENT IN ANY GIVEN ENVIRONMENT SHOULD BE DESIGNED. "HOW IS A WORKSPACE DESIGNED? WHICH IS MODULAR AS WELL AS PERSONALIZED?" SIMILAR TO THE SWISS KNIFE, WHICH IS UNIQUE AND VARIED BUT ASSEMBLED AS A WHOLE, WITH CERTAIN SIZES AND **STANDARDS**, A MODULE COULD BE DESIGNED WHICH IS SMARTLY HANDLED BY THE STUDENTS AND CAN BE CONVERTED TO A HIGHLY **EFFICIENT WORKING** ENVIRONMENT IN ANY SITUATION. THE HOSTEL BLOCKS COULD CONTAIN SUCH MODULES WHICH CAN BE OPENED UP AND PULLED OUT ACCORDING TO THE USE AND PUSHED BACK WHEN FINISHED. WHICH COULD ROTATE BETWEEN STUDENT TO STUDENT AS THEY PASS OUT AND **THE GENERATIONS** WILL BE BENEFITTED WITH THE **EVOLUTION OF THE TYPE OF ITS USE**.

CONCEPT

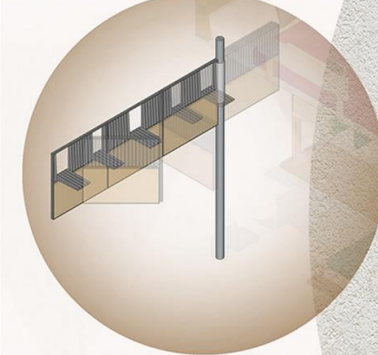
"PATRONISING SPACE" THE MAIN AIM IS TO **REVOLUTIONIZE THE FACTOR OF SPACE MAKING** AS A TRANSITIONAL MODULE, WHICH WILL IN TURN CONVERT ALL THE HOSTEL BLOCKS INTO A **CONVERTIBLE FLEXIBLE MODULE**.



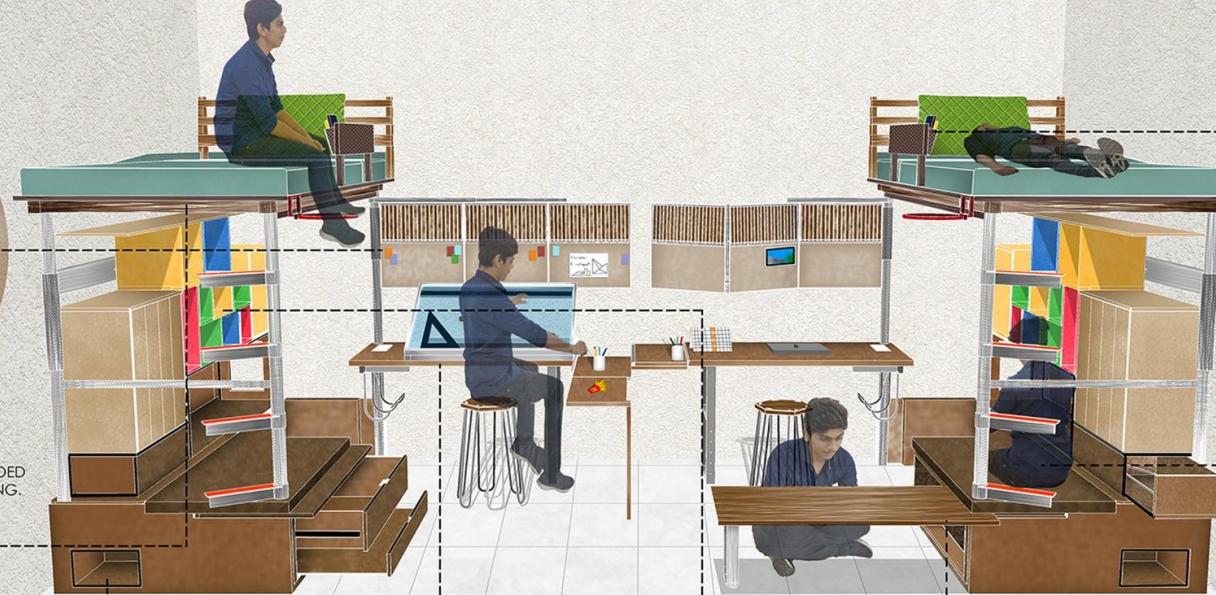
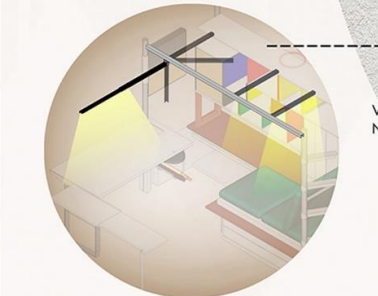
JUST TO ROTATE THE GENERAL IDEA OF A MODULE, FROM A CONSTANT PIECE TO A VARIED CHANGEABLE SPACE. WE IN-COOPERATED ALL THE REQUIREMENTS AND THE NEEDS AND SQUEEZED THEM INTO A VERY **ACCESS-EASY AND PROPORTIONAL SPACE** WHICH CAN BE CUSTOMISED ACCORDING TO, **PRIVACY AND INTERACTION, SURROUNDINGS, FUNCTIONALITY AND METAMORPHOSIS**. SO, **REVOLVING TIME CAN REVOLVE THE SPACE** AND GIVE IT AN IDENTITY AS WELL AS A **"UNITY AS A UNIT"**

SALIENT FEATURES

PERSONAL, FOLDING PIN-UP PANEL, WHICH CAN BE ROTATED ON Y-AXIS.



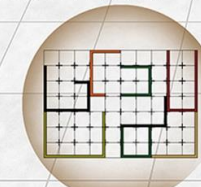
FOLDABLE LIGHT CHANNELS, WHICH CAN BE SLIDED ACCORDING TO THE ANGLE NEEDED FOR WORKING.



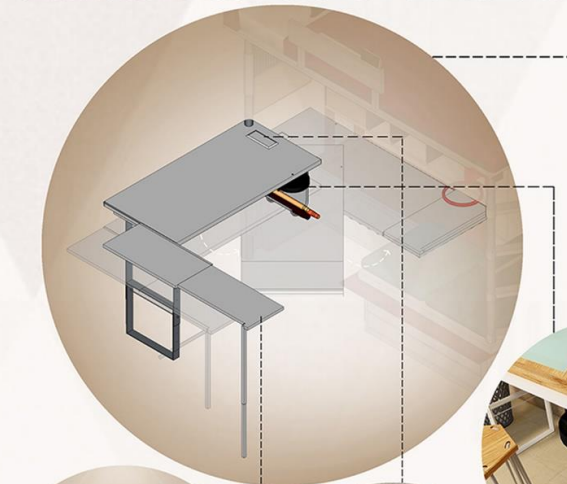
VARIED STORAGE FOR FOOTWEAR NEAR THE DOOR.



COMPOSITE PANEL STORAGE, WHOSE COMPOSITIONS CAN BE CHANGED AND VARIED ACCORDING TO THE PERSONAL USE.



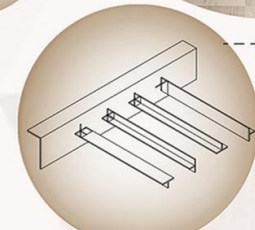
THE METAMORPHOSIS OF THE WORKING DESK, WHICH HAS PARTS THAT CAN BE UNFOLDED AND ADJUSTED HORIZONTALLY AND VERTICALLY AS WELL.



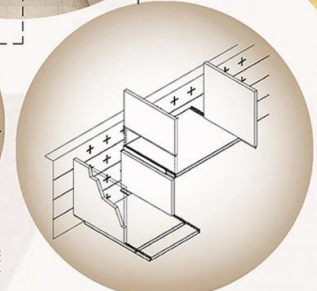
THE PERMUTATIONS AND COMBINATIONS OF THE PANELS FITTED IN THE GROOVES.



FIRST THE T-SECTIONS IS TO BE INSERTED IN THE GROOVES, FOR THE SUPPORT OF PLANKS.



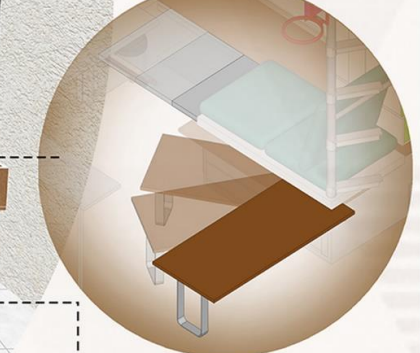
THE PANELS IS TO BE SLIDED AND TUCKED IN THE T-SECTIONS FOR CHANGING THE COMPOSITIONS.



THE SLIDING BED WITH A BACK-REST FOR RELAXATION.



PLUG-POINTS AND INCLINED STORAGE BESIDE THE BED.



THE VARIATIONS OF THE WHOLE WORKING SPACE AND THE COMPOSITE AND-VARIED STORAGES.

THE PERSONAL INFORMAL SITTING SPACE.



THE WORKING DESK, CAN BE ROTATED.



THE WORKING DESK CAN BE PULLED AND STRETCHED ACCORDING TO THE FUNCTIONALITY.



THE EXTENSION-DESK CAN BE PULLED OUT WHILE WORKING WITH GROUPS, OR FOR HELP IN MAKING MODELS ON THE FLOOR.



THE JOINT-SHARING PART OF THE DESK, CAN BE UNFOLDED FOR A INTERACTIVE TWIN- WORKING PURPOSE.



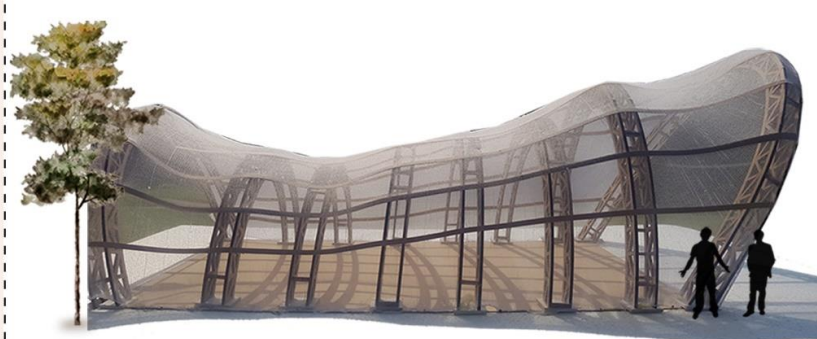
THE SWITCH BOARD FOR EXCESSIVE USE, FLUSHED WITH THE DESK, CAN BE OPERATED BY JUST PUSHING.



THE INSTANT STATIONERY AND SHEET STORAGE RACK ON THE RIGHT HAND SIDE.

10 ROOF DESIGN

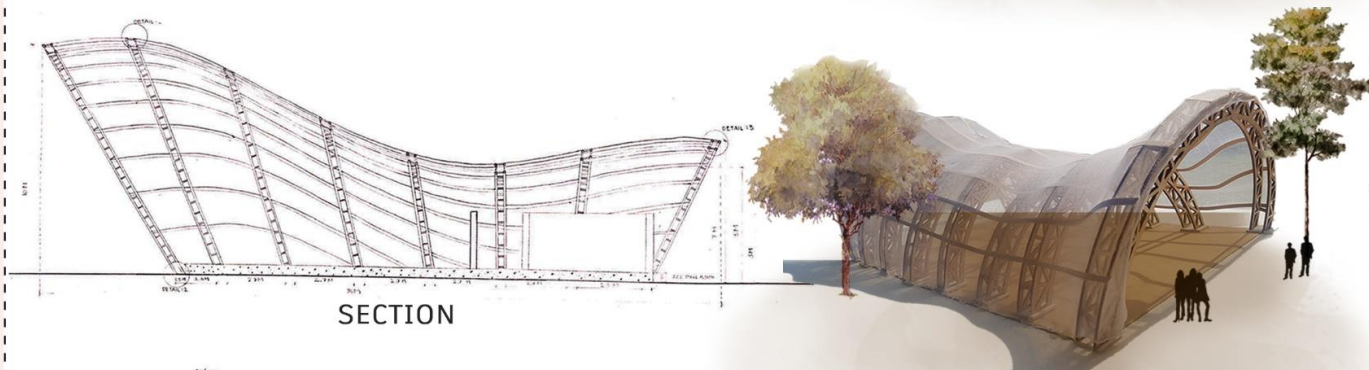
Subject : Building Material and Construction Technology
 The roof was designed and drafted on the 20 x 15 m stage before being turned into a model by the group of four. Equally involve in the design process and manual modelling.



SIDE VIEW



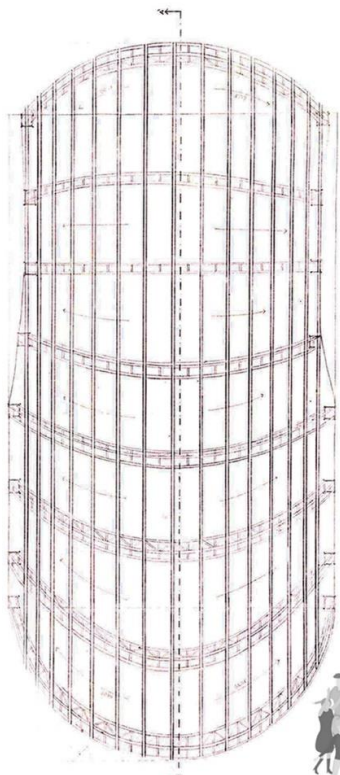
FRONT VIEW



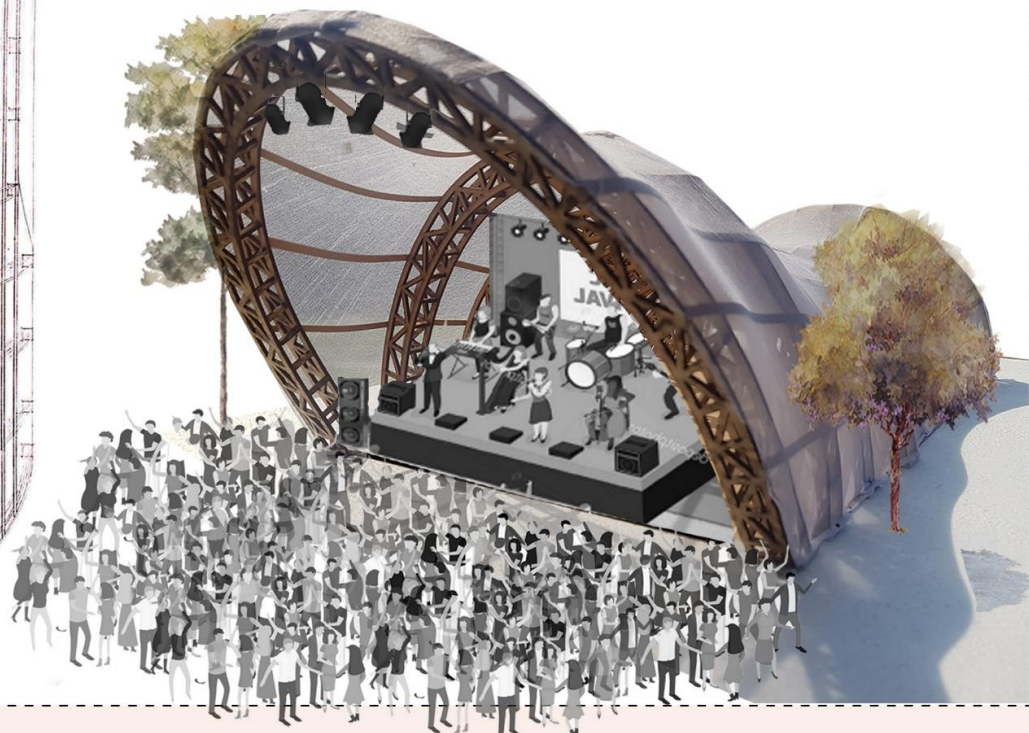
SECTION



BACK SIDE VIEW



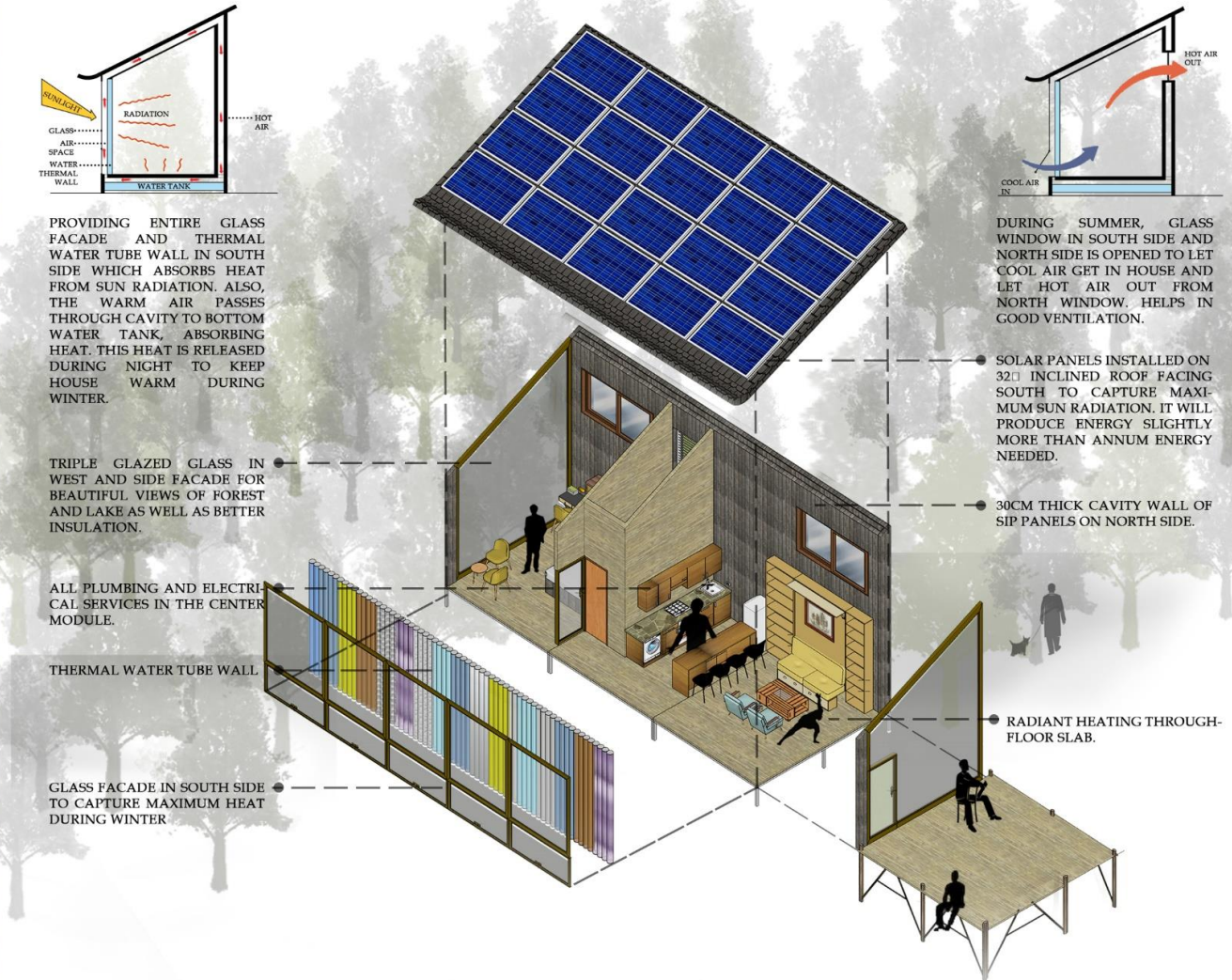
ROOF PLAN



11 VACATION HOUSE : THE ESCAPE

the project aim is to design a modular vacation house for a working couple, far from the city somewhere in remote area, near to a lake surrounded by forest. considering covid-19 pandemic period, the house has to be far from the nearest homes. In the group of three I had majorly worked upon a production of 3d modelling and sheet rendering.

EXPLODED VIEW



12 MISCELLANEOUS

Participated in different workshop during college events like ASAC and redevelopment of campus.

WORKSHOPS (SCULPTING SKILL, CAMPUS DEVELOPMENT : SANYUKL FEST)



1. Carving on POP block

4. Slop Development (team work)

2. Terracotta Pot

3. Twisting Column workshop (Team work)

5. Ferocement workshop (team work)

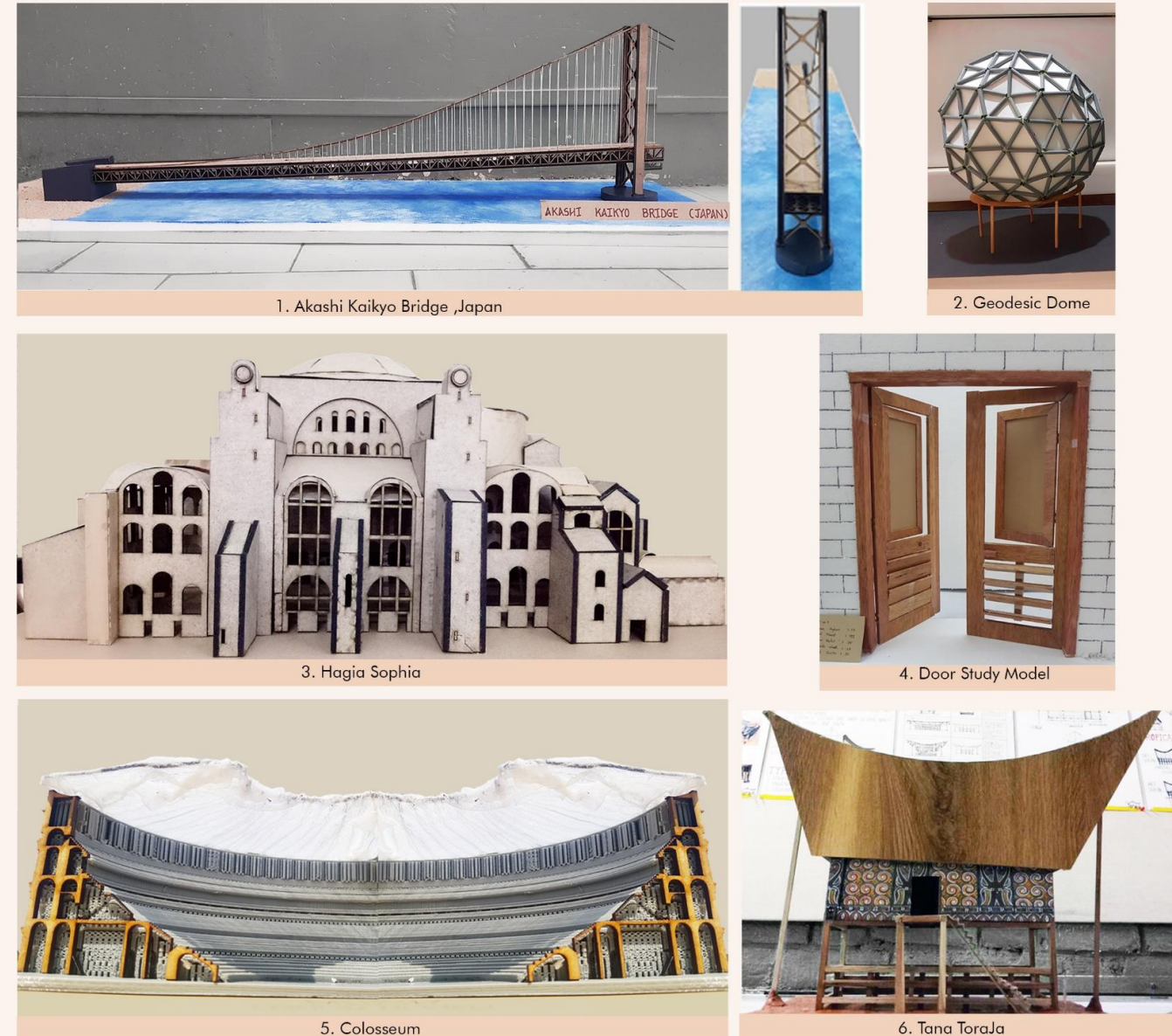
GRAPHICAL WORK (PHOTOSHOP, AILUSTRATION, MERCHANDISE)



1. Product Design based on Persian Art (team work)

2. Visual representation by using AI tools

MODEL MAKING (MANUAL , LASER CUT , 3D PRINTING)



1. Akashi Kaikyo Bridge ,Japan

2. Geodesic Dome

3. Hagia Sophia

4. Door Study Model

5. Colosseum

6. Tana Toraja

Model of Bridge, Geodesic Dome and Door was a group work under a building material and construction technology subject to explore the construction techniques and details. The model of Hagia Sophia ,Colosseum and Tana Toraja was under a history of architecture subject to learn about the Byzantine and Roman architecture.



7. Eco House : Residence Case Study Model to understand scale and proportion

THANK YOU
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HIRALI DEVANI