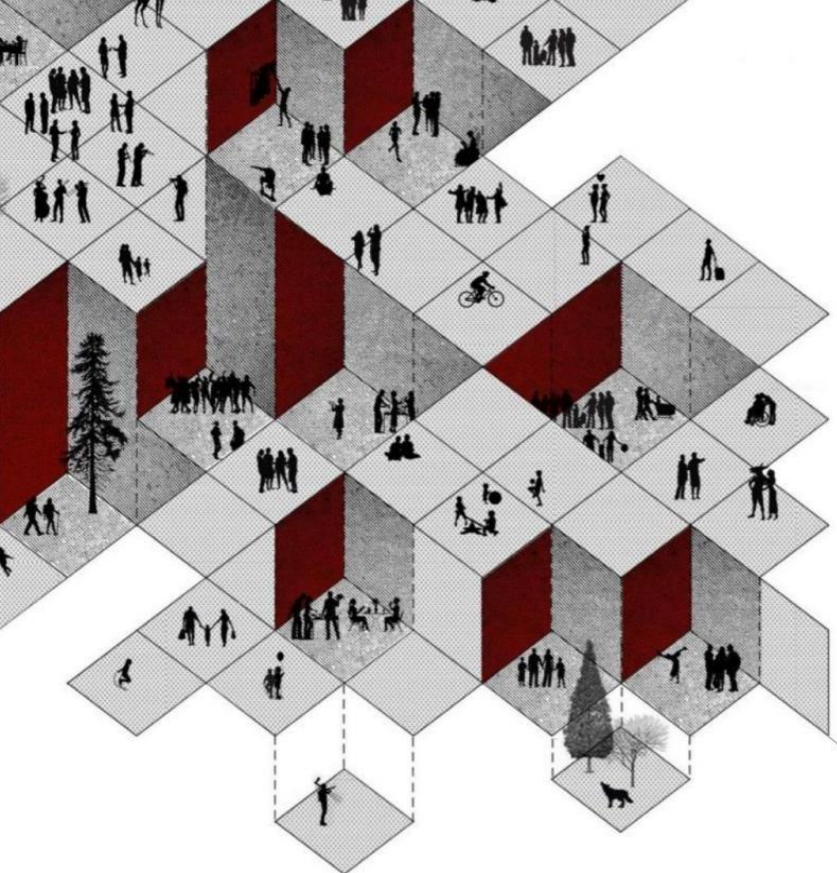


# ARCHITECTURE PORTFOLIO





# Atchayea Dharene Kumar

Eager to handle multiple tasks, who also has a creative approach in solving problems, energetic to learn new skills, flexible, hardworking and motivated who is a fan of creating sustainable and green spaces.

## CONTACT

7339666185  
House No.40  
Swarnabhoomi, Titan Township  
Hosur - 635109  
[atchayea.kumar@gmail.com](mailto:atchayea.kumar@gmail.com)

## LANGUAGES

ENGLISH ██████████  
TAMIL ██████████  
TELUGU ██████████  
HINDI ██████████

## CAPABILITIES AND SKILLS

PROFESSIONAL	PERSONAL
TIME MANAGEMENT	TEAM PLAY
LEADERSHIP	ORGANIZED
PHOTOGRAPHY	FAST LEARNER
CREATIVE SPIRIT	POSITIVE
JOURNALISM	FRIENDLY
DOCUMENTATION	PURPOSEFUL

## EDUCATION QUALIFICATIONS

RV COLLEGE OF ARCHITECTURE, BANGALORE

2016 - 2022

B.ARCH

TVS ACADEMY, HOSUR

March 2014 - MAY 2016

## PROFESSIONAL SKILL SET

### BUILDING INFORMATION MODELLING

AutoCad ██████████  
Sketchup ██████████  
Rhino ██████████  
Revit ██████████

### VISUALIZATION

Lumion ██████████  
Enscape ██████████

### ADOBE

Photoshop ██████████  
Illustrator ██████████  
Indesign ██████████

### DOCUMENTATION

Brihadisvara Temple,  
Thanjavur  
Airavatesvara Temple,  
Dharasuram

## WORKSHOPS AND COMPETITONS

### GREEN SPACES - EXPLAINED

Certified  
UGREEN.IO ONLINE WORKSHOP

### SUSTAINABLE ARCHITECTURE

Certified  
UGREEN.IO ONLINE WORKSHOP

### DESIGNING FOR GREATER EFFICIENCY

Certified  
EDGE ONLINE COURSE BY IFC, MEMBER OF WORLD BANK GROUP

### SOLAR DECATHLON

Building Competition  
Net zero energy - Water

### ONE ISTO X HABITAT + WORKSHOP

TERI BANGALORE

### MADE IN EARTH

Plaster Workshop, RVCA

### BAMBOO WORKSHOP

Hands on, RVCA

### AUDA - INTRODUCTION TO URBAN DESIGN

Online Workshop

## CERTIFICATE COURSES

### SUSTAINABILITY AND DEVELOPMENT

Online Certificate - Pursuing  
UNIVERSITY OF MICHIGAN

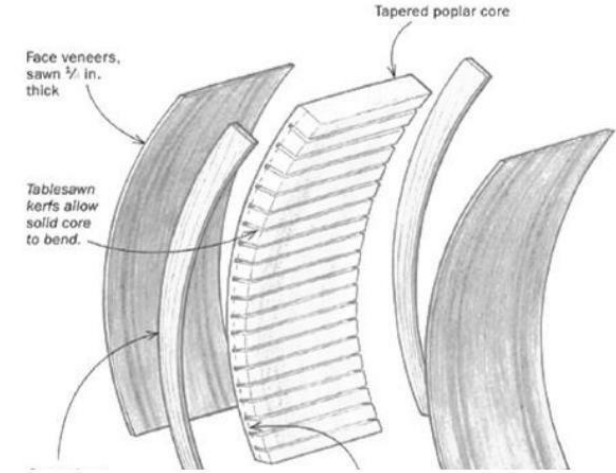
# NOTION OF THE CENTER CAFÉ AT RVCE CAMPUS

Location : RV College of Engineering,  
Mysore road,  
Bangalore

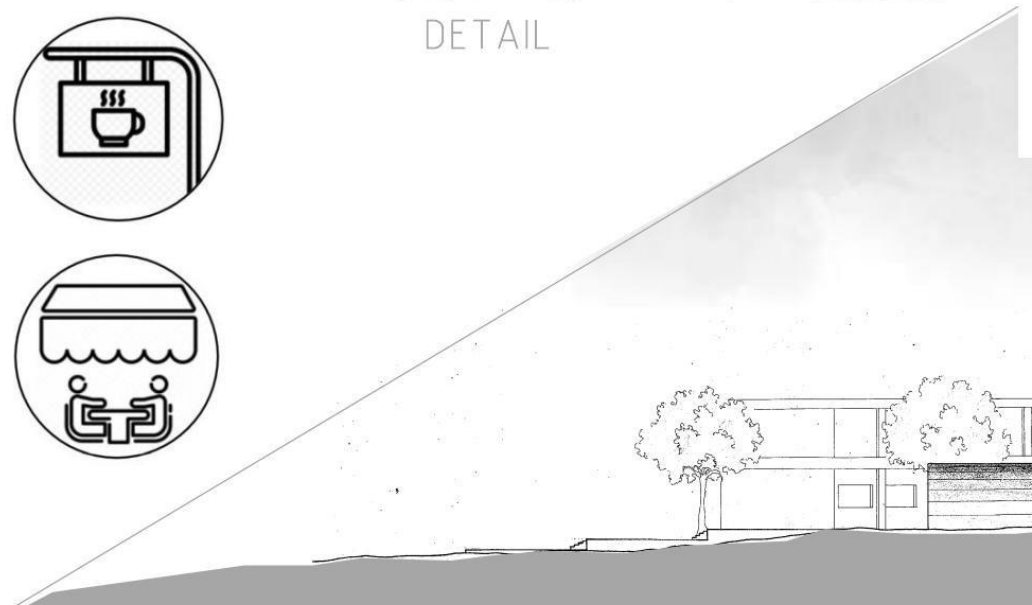


The Pavilion lies between three blocks of the RVCE Campus – Library, Telecommunication block and Aerospace Department block, creating a semi private area for the students and staff to use during leisure times.

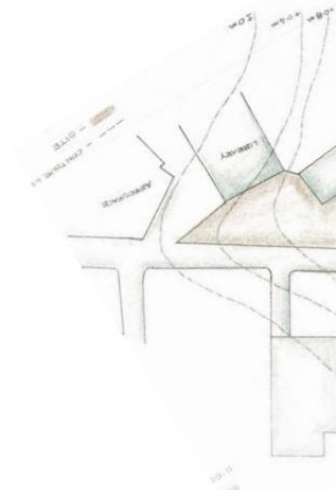
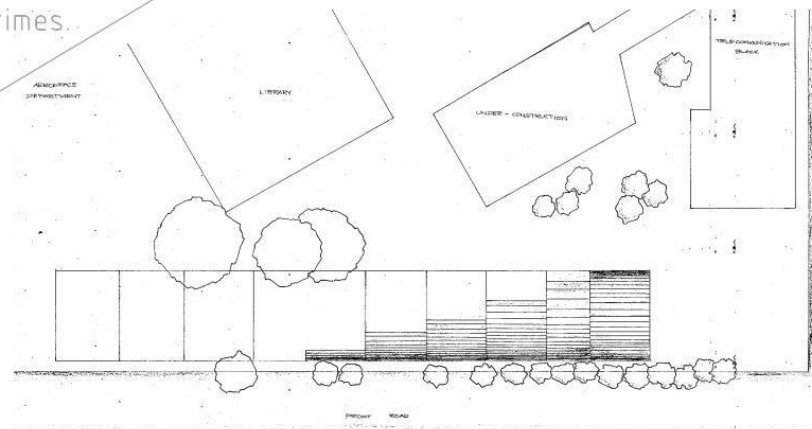
## PROGRAM

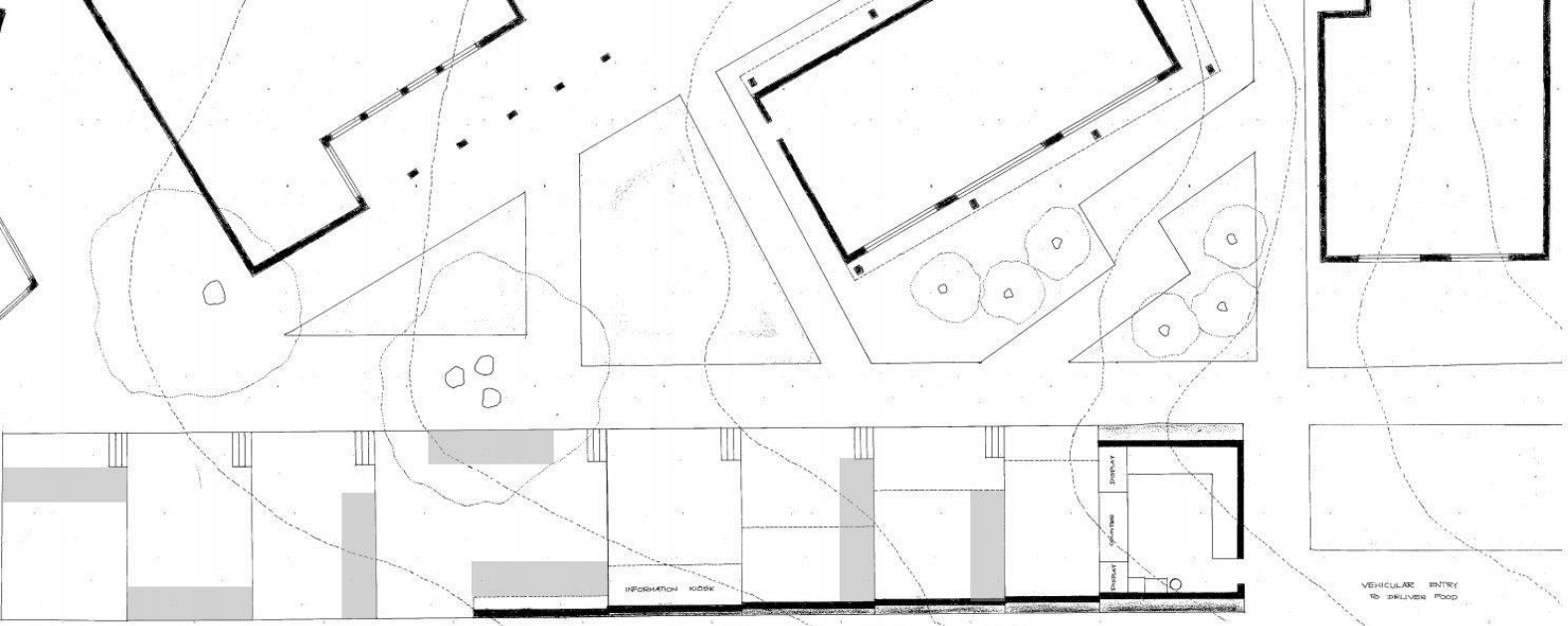


## DETAIL

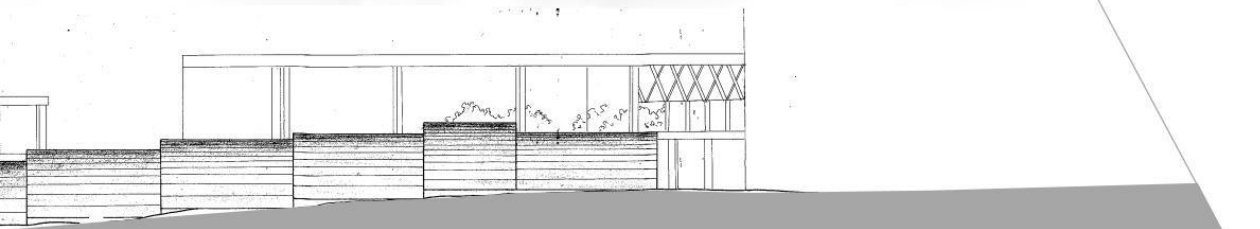


## ROOF PLAN

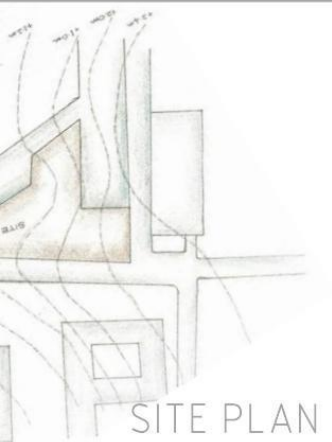




PLAN at 1.2m



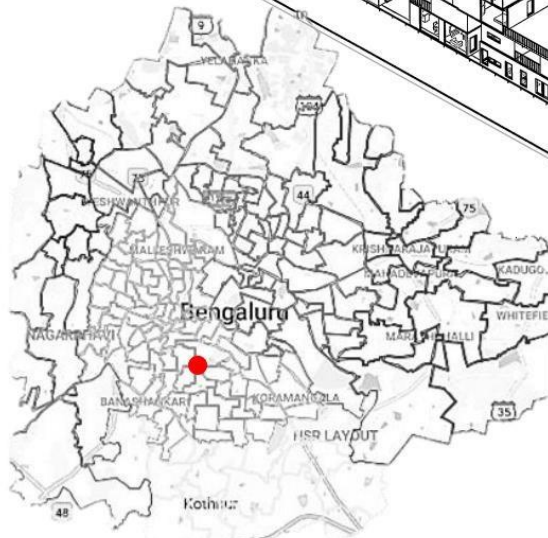
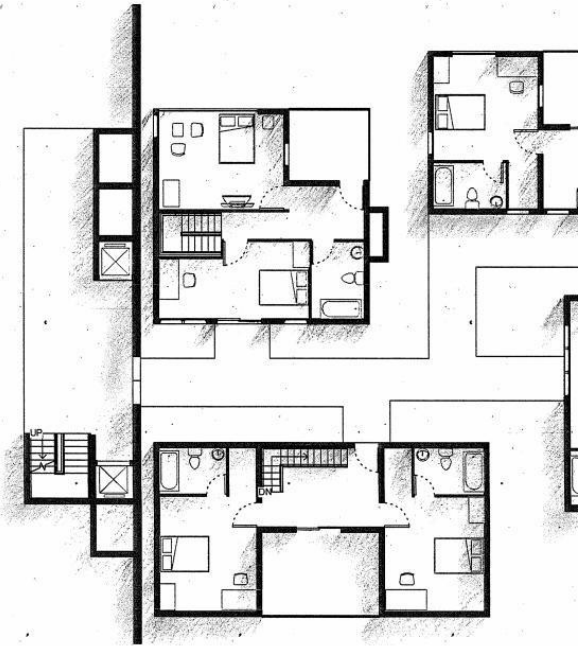
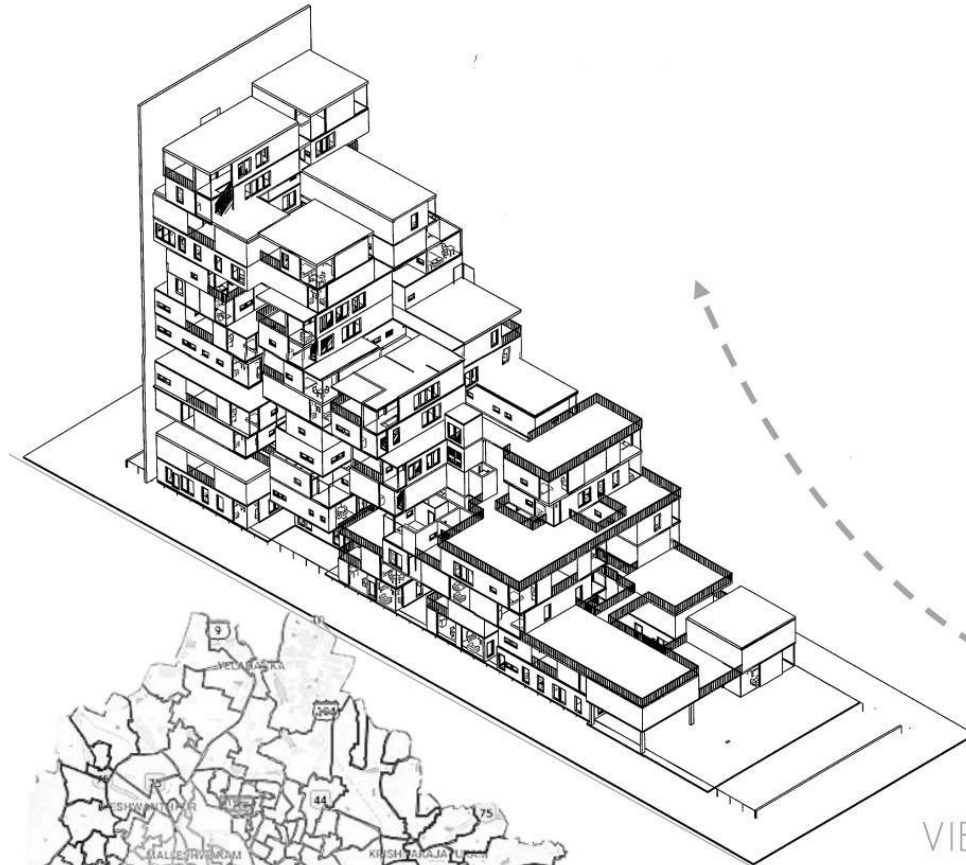
Sectional Elevations



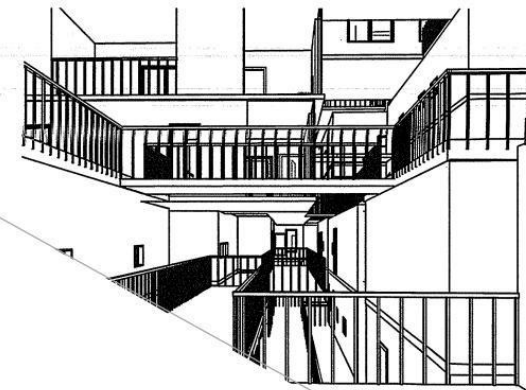
SITE PLAN







VIEWS



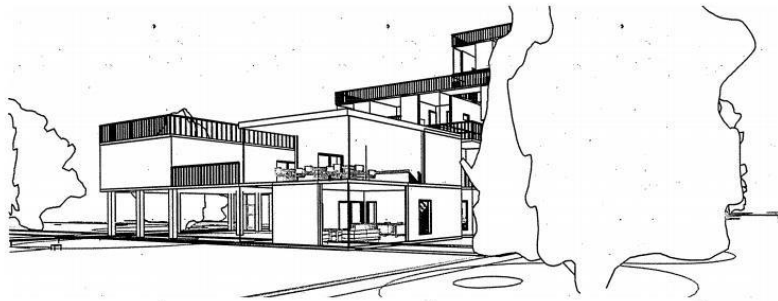
## 44 HOUSES RESIDENTIAL PROJECT

Location : Film Shooting,  
Basavangudi,  
Bengalure

The project includes two typical residential units – 2BHK and 3BHK units that are placed to create terraces that are accessible by the units. The building is placed in a densely populated area hence reacts to the context visually

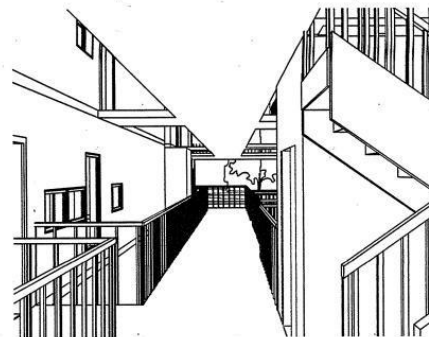
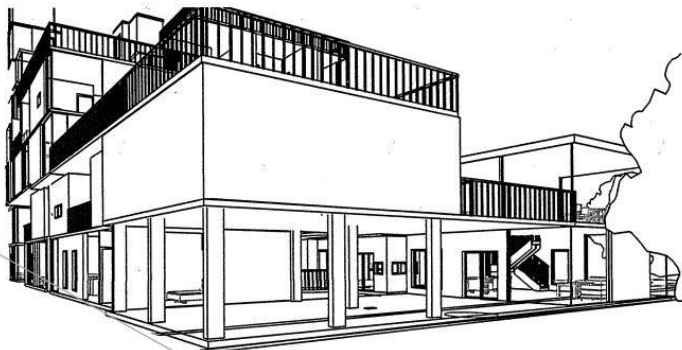


GROUND FLOOR PLAN



The main services are placed on the west side so as to block the excess heat

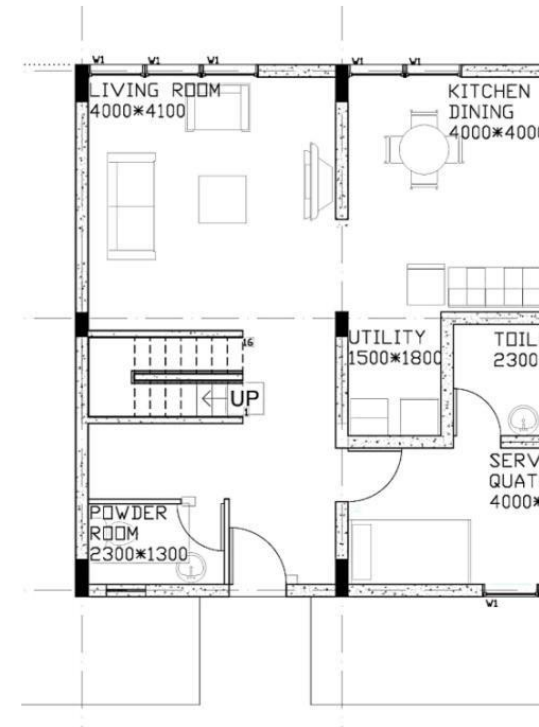
VIEWS





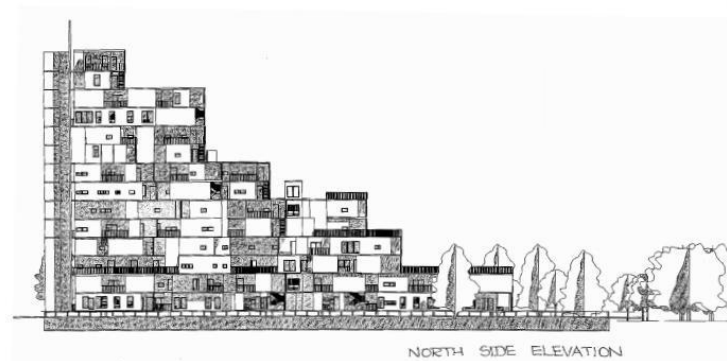


SITE PLAN

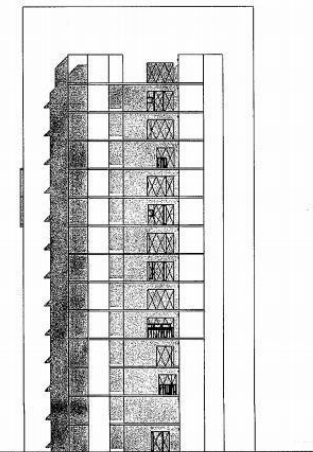


PART TO W  
APPRO

The proposal follows the existing grid of the context.



NORTH SIDE ELEVATION



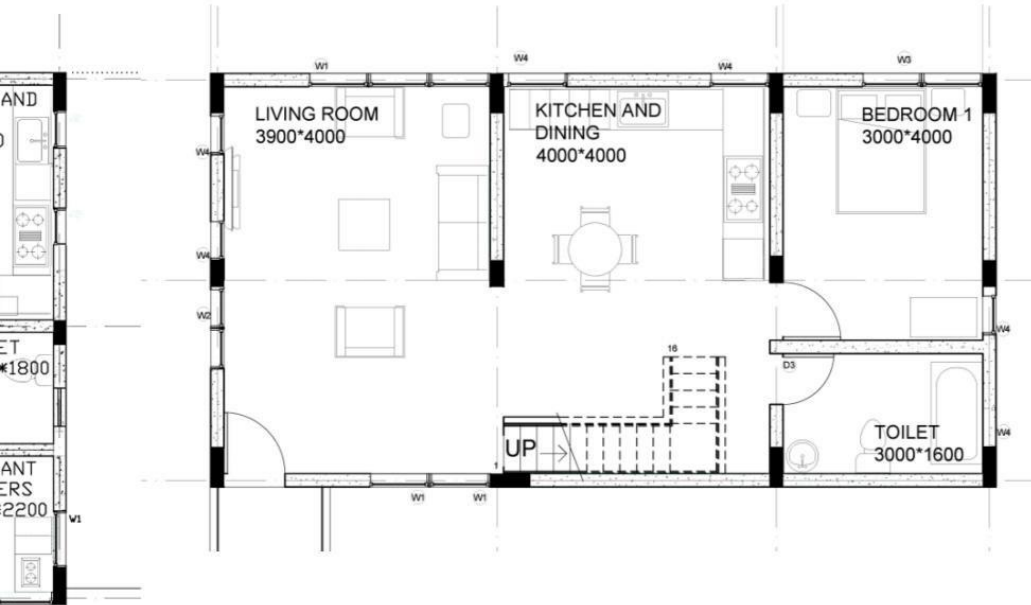
WEST SIDE ELEVATION

The typical units – 2BHK unit and 6x12m unit multiplies and t

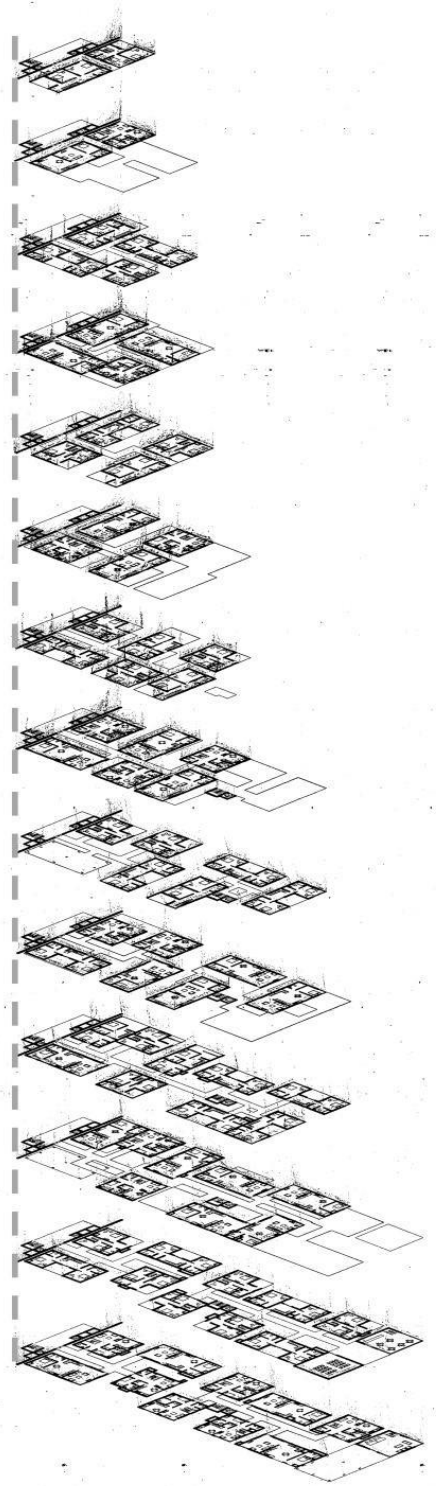
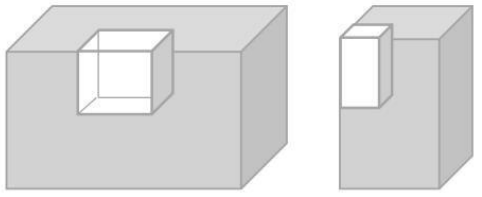
form of the build

Terraces are create  
community space  
enhance human intera  
and add an element of g  
to the building and  
context with dense conc  
struct

**44 HOUSES  
RESIDENTIAL PROJECT**



TYPICAL 3BHK and 2BHK UNITS



HOLE  
 DACH:  
 8x8m  
 3BHK  
 takes  
 the  
 dding.  
 ed as  
 es to  
 ction  
 reen  
 d in a  
 crete  
 ures.



# EUPHORIA

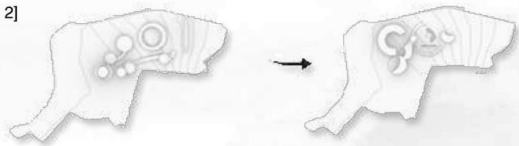
Through miniature Utopia  
Centre for environmental studies  
Bangalore

1]



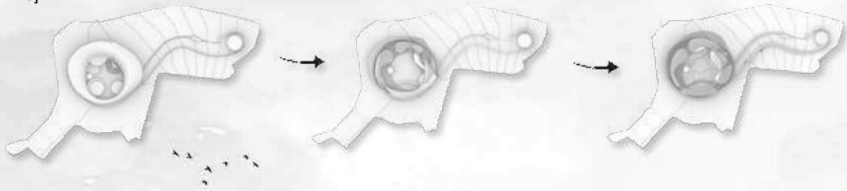
1] Units connected through an intangible concept of axis. Here, the train station and the main unit are connected with the concept of axis.

2]

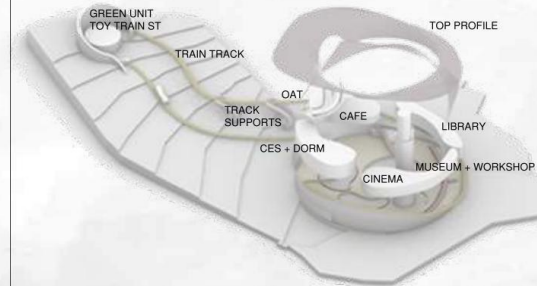
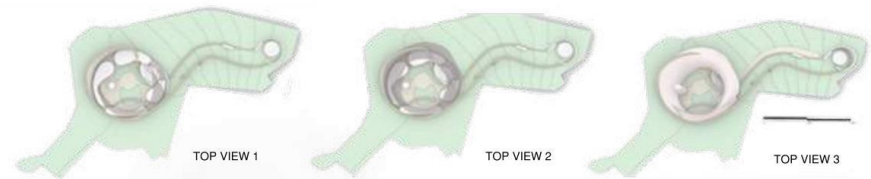


2] Initially, The units were dispersed keeping the form variations as a major idea along with the concept of axis. Through the process, concept of convergence came into picture.

3]



3] Later, converging the units made the concept of axis bolder, hence, attempts were made to bring the units together.

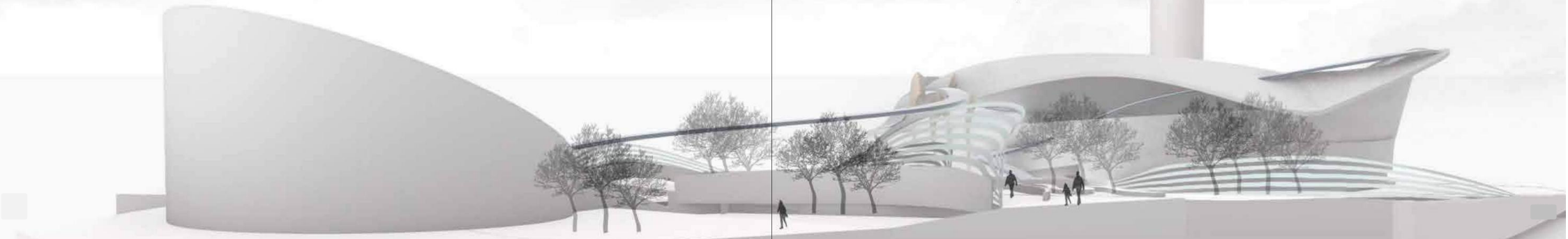


## Idea: PARAMETRICS and SOFT FORMS

There is a semi open roof before the top profile is placed. This roof not only supports the structure but also forms the roof for cafe and a part of library.

The massing exploded view elicits the arrangement of spaces.

The train track and cycle ramp connects the green unit to the main unit.





Walkways



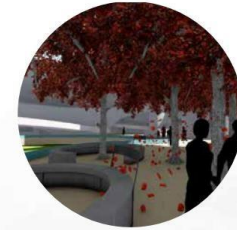
Train station view



Central space



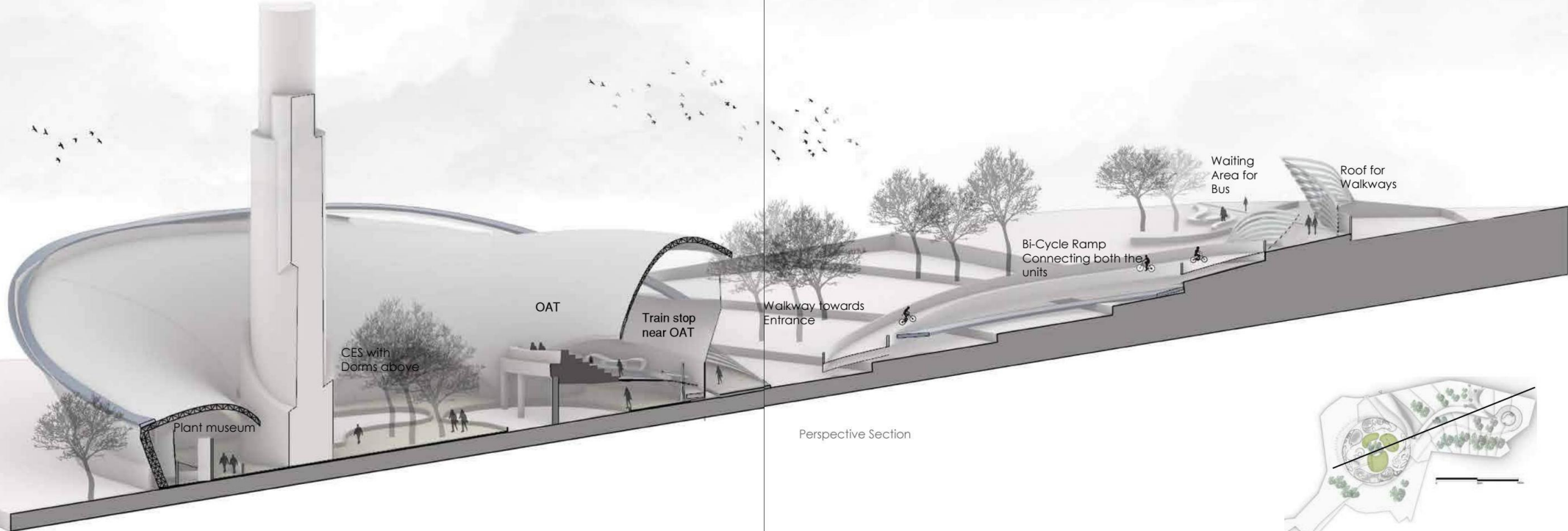
Toy train



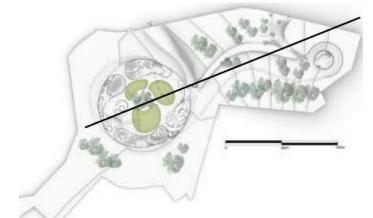
Central space

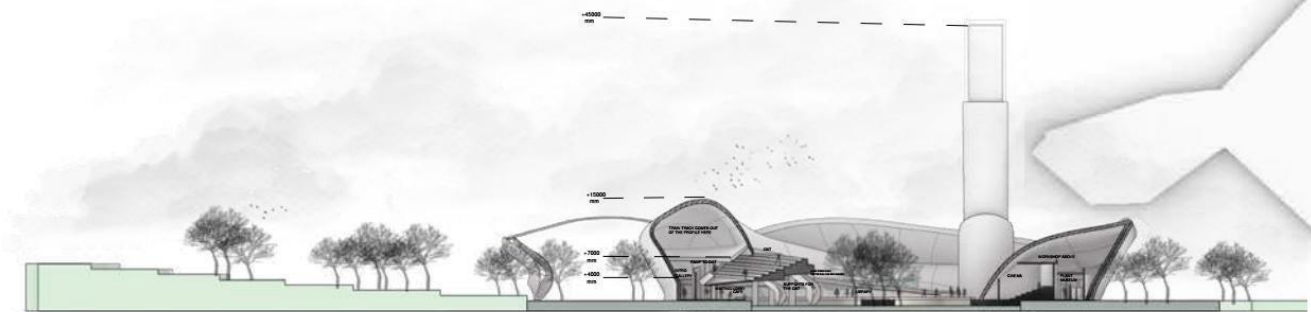
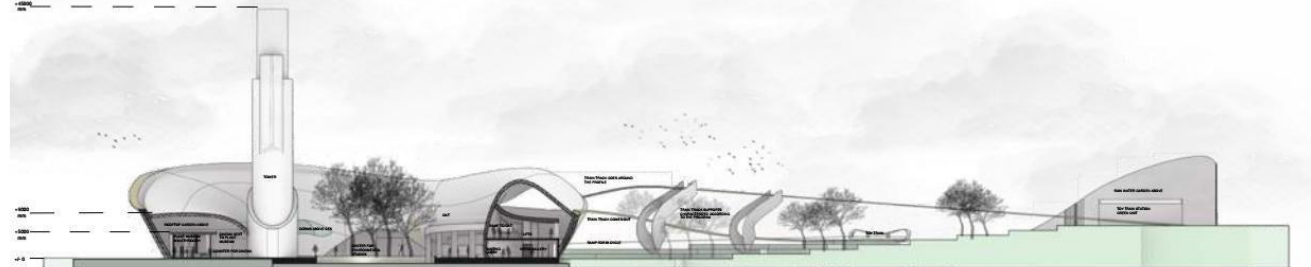
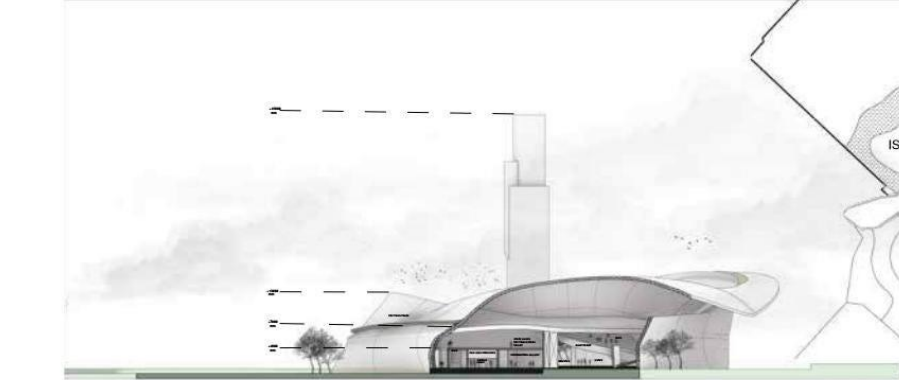
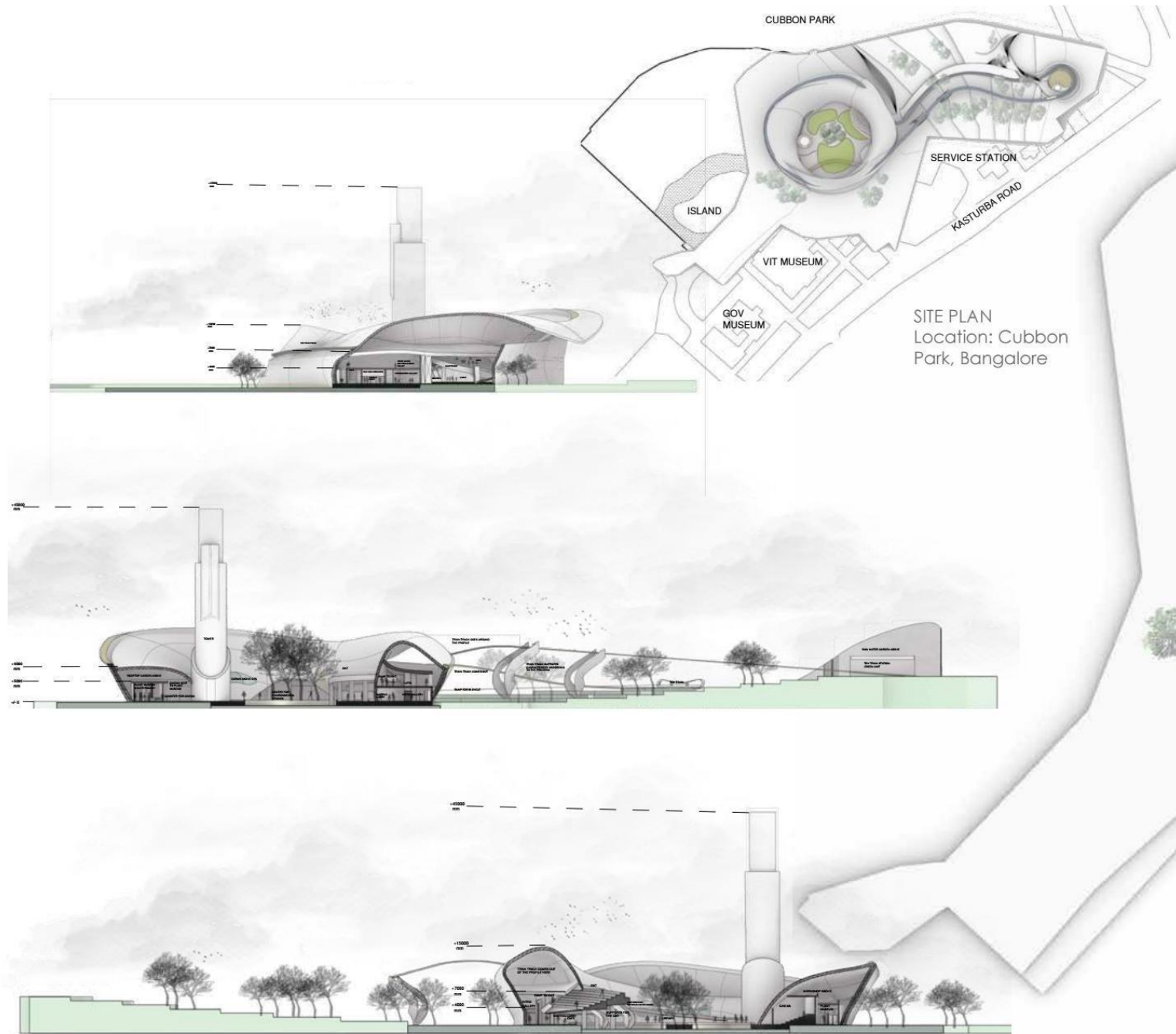


Main unit view

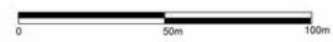
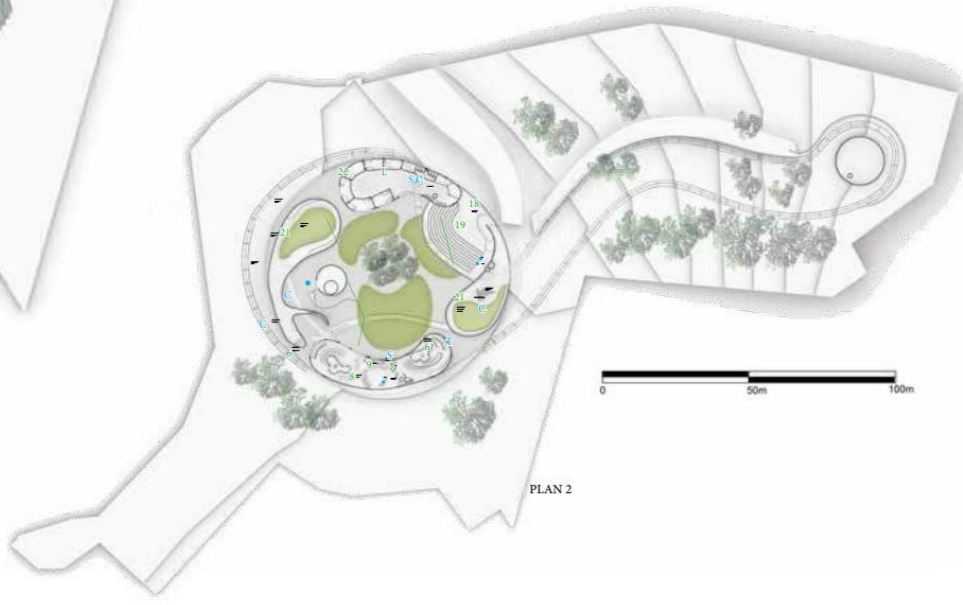
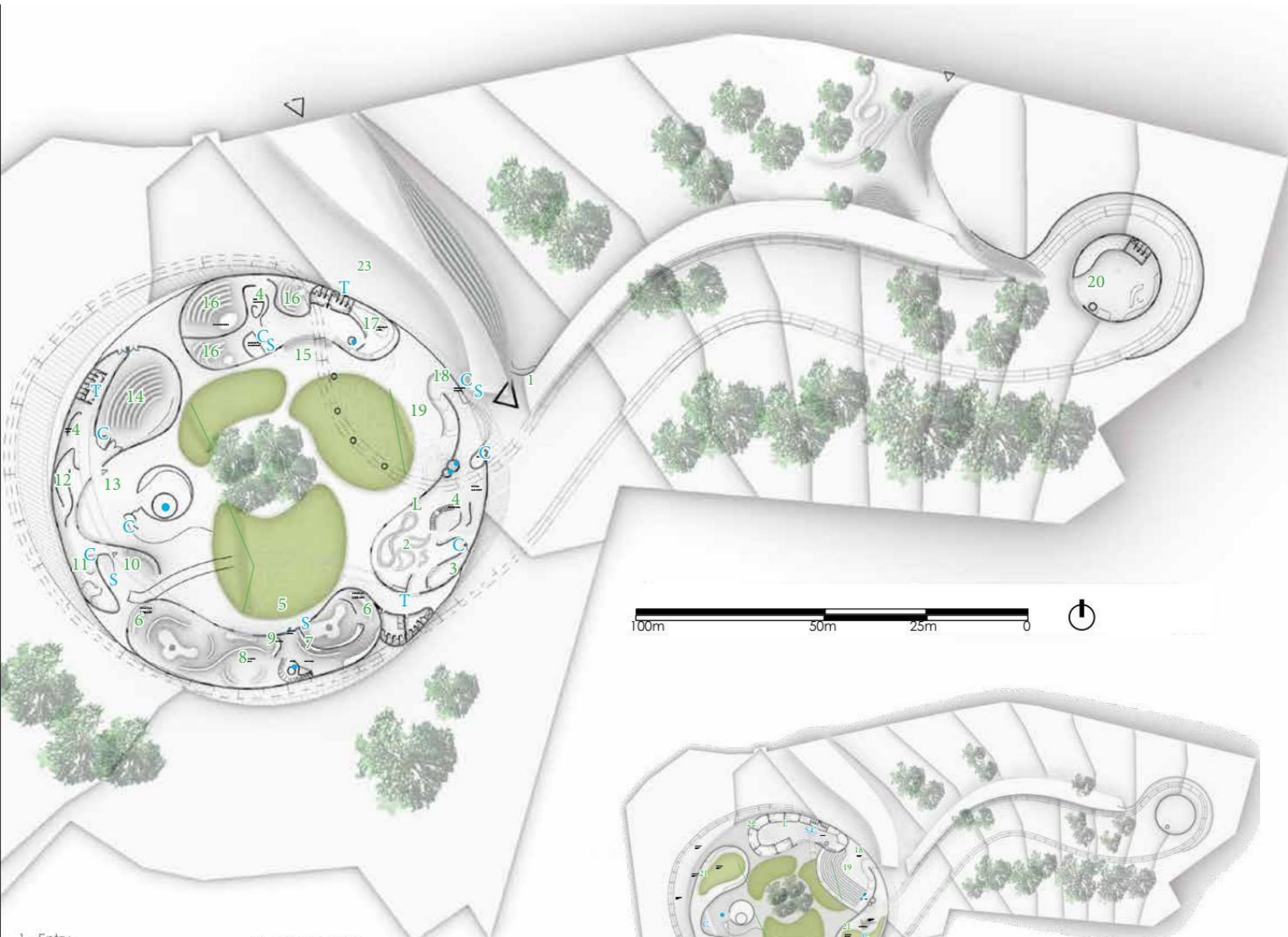


Perspective Section







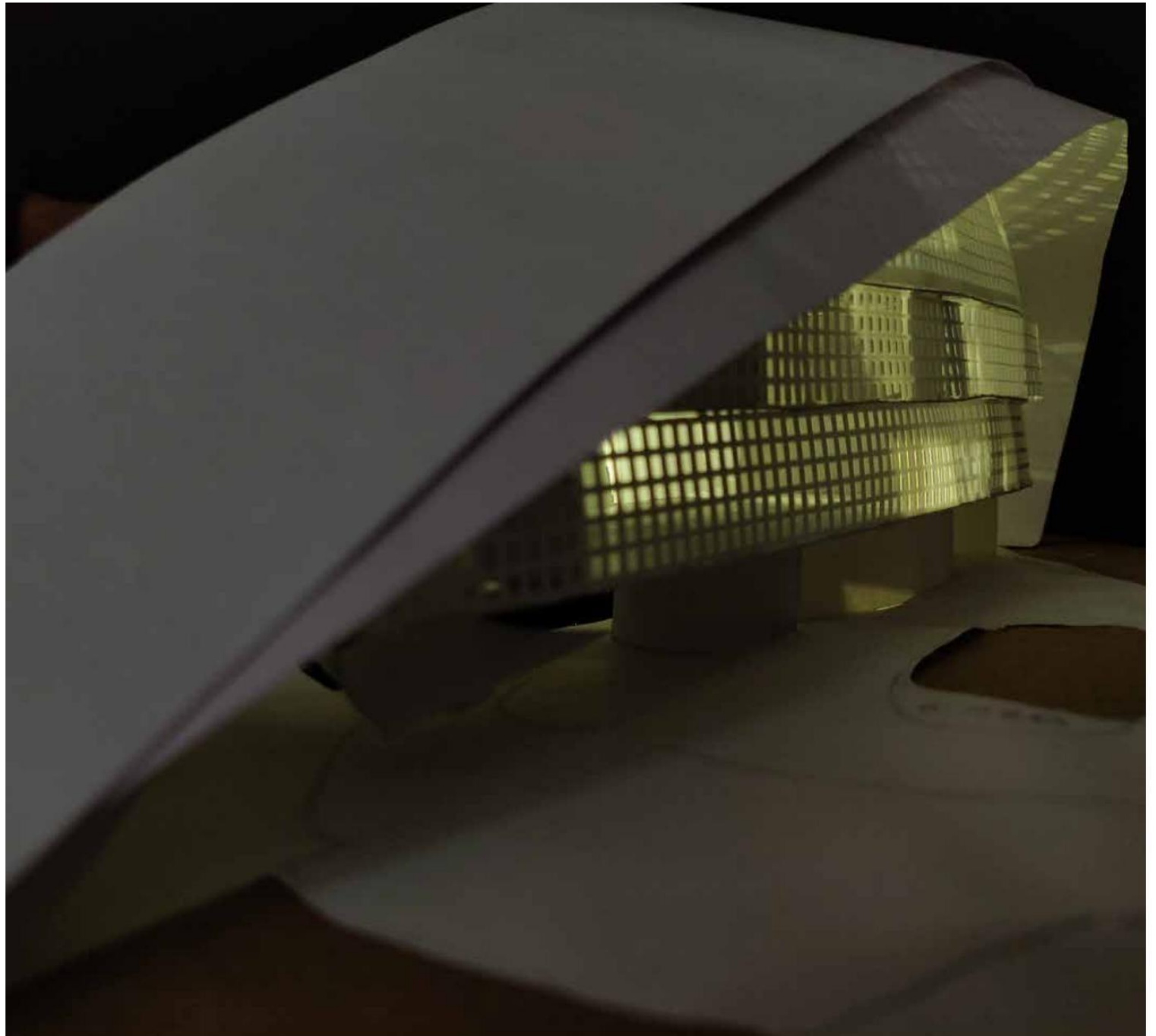


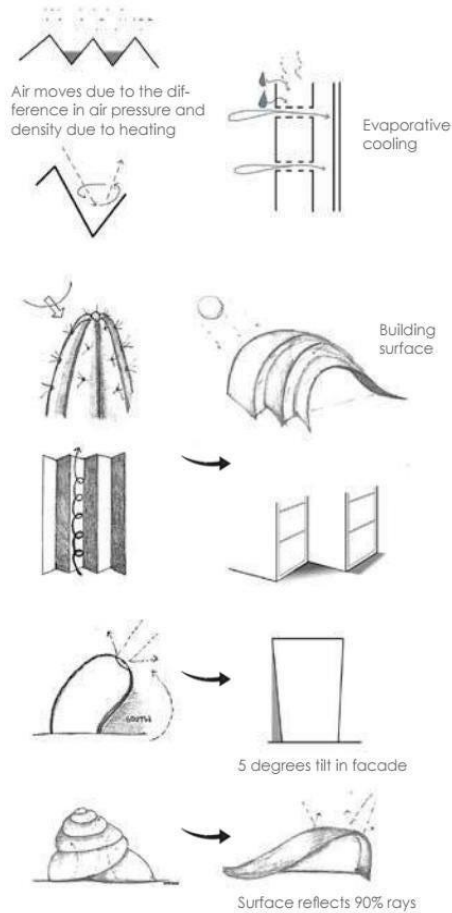
PLAN 2

- 1 - Entry
  - 2 - Cafe
  - 3 - Kitchen
  - 4 - Intro galleries**
  - 5 - Library Entry
  - 6 - Digital library
  - 7 - Lockers
  - 8 - Reading area
  - 9 - Help Desks**
  - 10 - Entry to plant museum
  - 11 - Retail shops
  - 12 - Plant museum walk through
  - 13 - Cinema entry
  - 14 - Cinema Hall
  - 15 - CES Entry
  - 16 - Classrooms
  - 17 - Ecological Labs
  - 18 - Ramp to OAT
  - 19 - OAT
  - 20 - Toy Train Station
  - 21 - Rooftop gardens - skill work-shops
- Lifts
  - T Washroom
  - C Registration desk
  - S Security Desk
  - L Waiting lobby

# NEER

Water Conservation and Awareness Centre





## BIOMIMICRY

### Water Conservation and Awareness Centre Hyderabad

The whole project was to mimick the nature and strive towards sustainability. Through this we could reduce the use of passive systems in the buildings.

Nature study was done based on the climatic conditions of the site. Suitable studies were done and then the process of its application in the structure.

Here, hot and dry climatic conditions were studied with mainly desert snail and cactus as inspiration. Shading was the main criteria along with reflection.

Process models done based on the inference from nature and it workability on site.

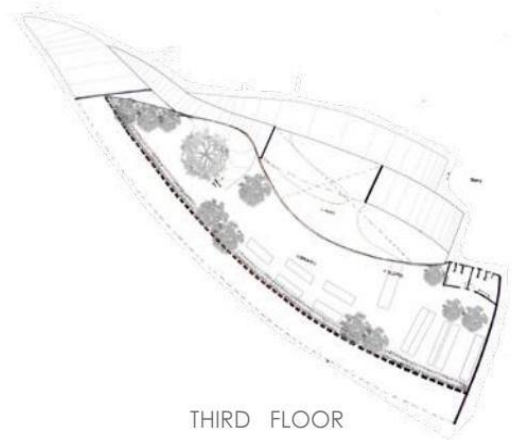
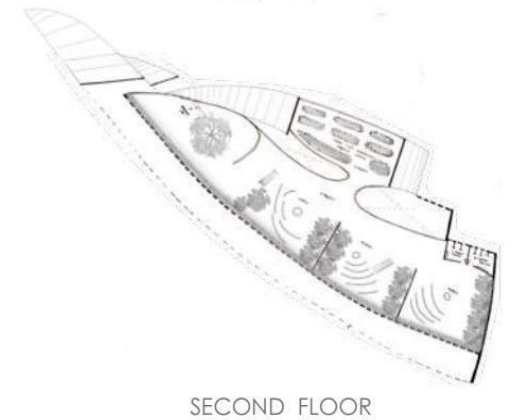
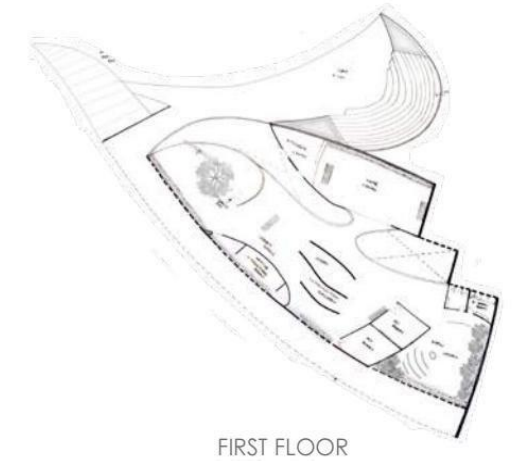
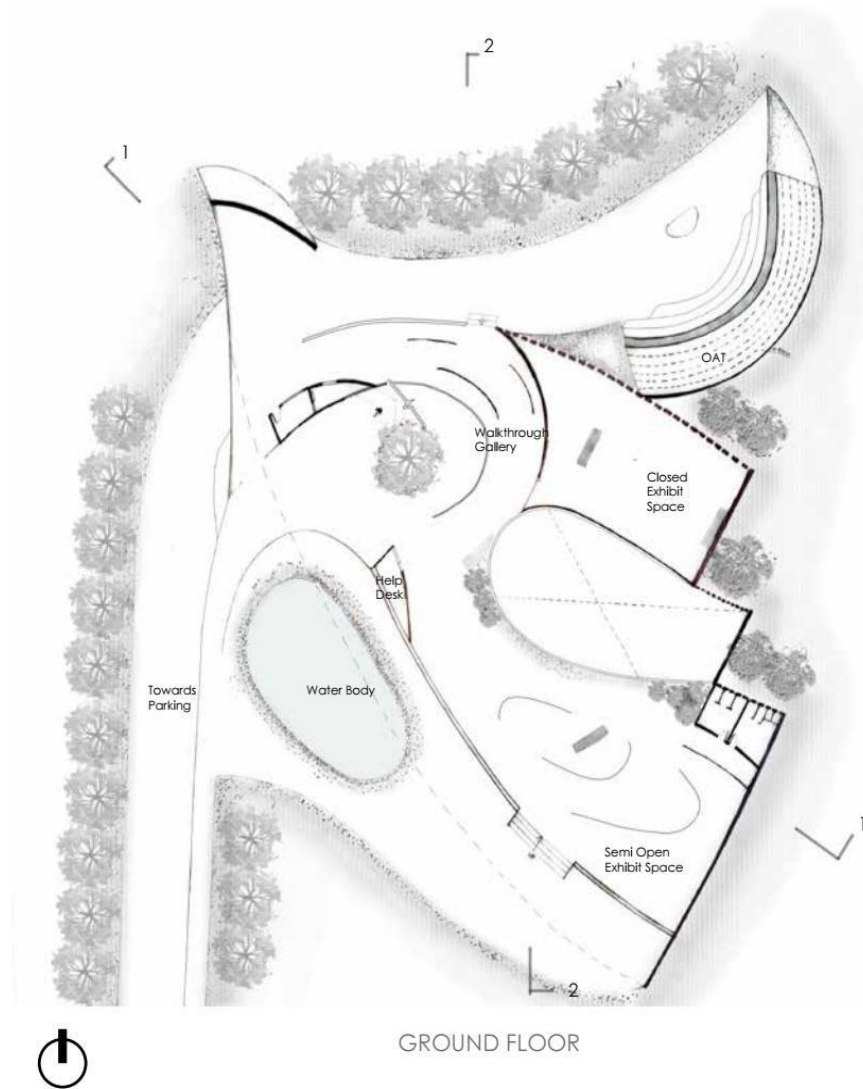
The angles of the facade and the curvature of the shell are decided according to sun path mainly during summer.

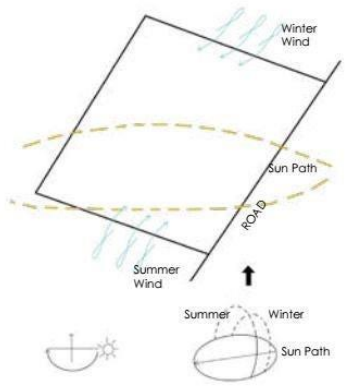




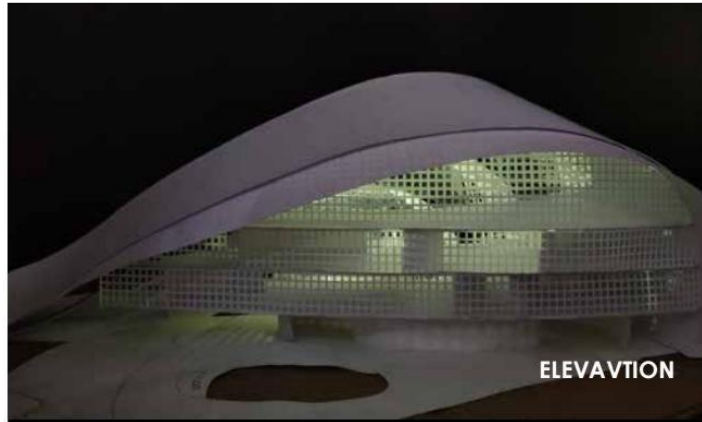
Design properties from the snail allowed both cool and moist environment in hot and dry climatic conditions. Crescent shaped panels overlap each other and help in reflection. The stepped profile gives a floating environment inside the whole shell, mimicking the snail.

Through the process, the entire design evolved starting with snail and later included properties from cactus and frog according to the necessities.





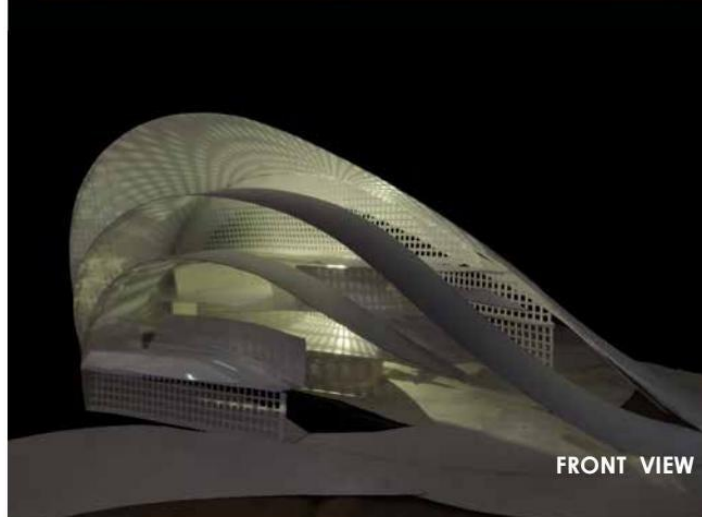
Building is oriented accordingly to sun path and wind directions.



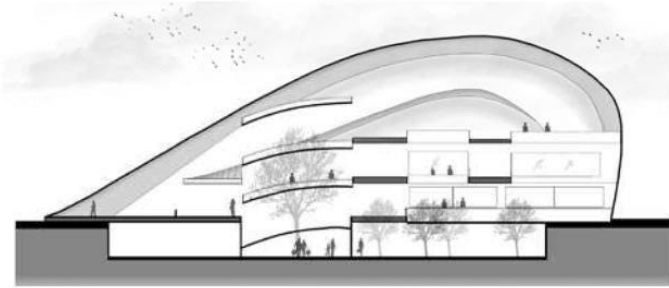
ELEVATION



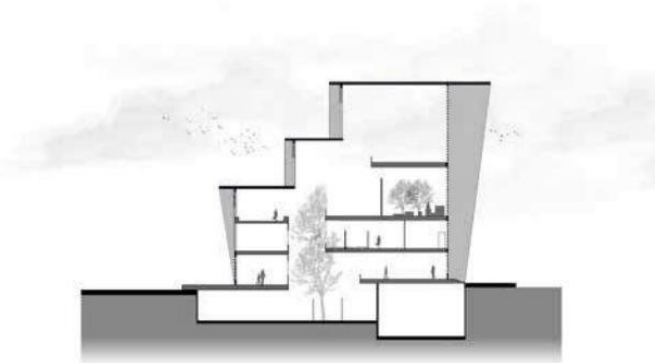
TOP VIEW



FRONT VIEW



SECTION 1



SECTION 2

# INTERIOR DESIGN - AEDICULE



Lumion



## AEDICULE Inside Parasite House

Idea of an aedicule was studied along with that of the client (Saty-ajit Ray). LOGO and business card was designed for the client and space was designed according to the client study. The space was designed inside the Parasite house, from the movie Parasite by Bong Joon Ho.



Staggered arrangement of spaces and less rigidity.  
 Keeping a corner of every space open by iterating the logo.  
 Transformation of spaces through simple methods and also flexible and open floor plan system.  
 The furniture is also modular which goes along with the design process of the space.



Lighting Render



Rendered Section

Legend

- 1. Living Space
- 2. Kitchen
- 3. Work/ Reading space
- 4. Bed room
- 5. Walk in wardrobe
- 6. Washroom
- 7. Piano room
- 8. Semi open space



Key Plan



Plan



Plan



Piano room view



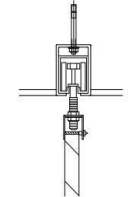
Kitchen



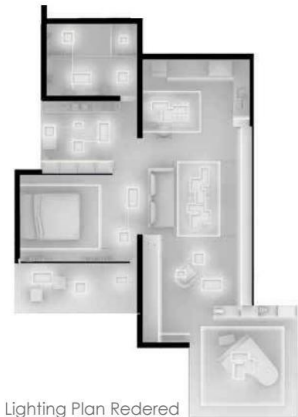
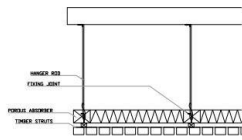
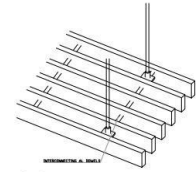
Living area



Bed room and Walk in wardrobe



Moving wall detail and acoustical ceiling detail for the piano room.



Lighting Plan Rendered



Lighting Render

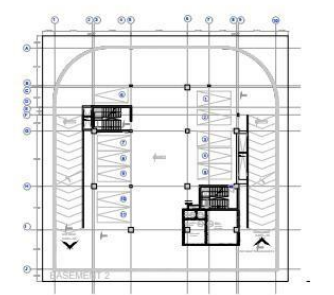
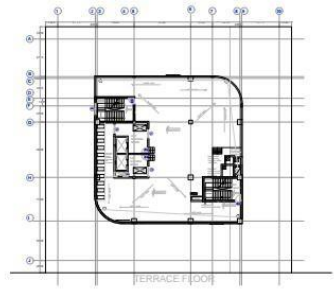
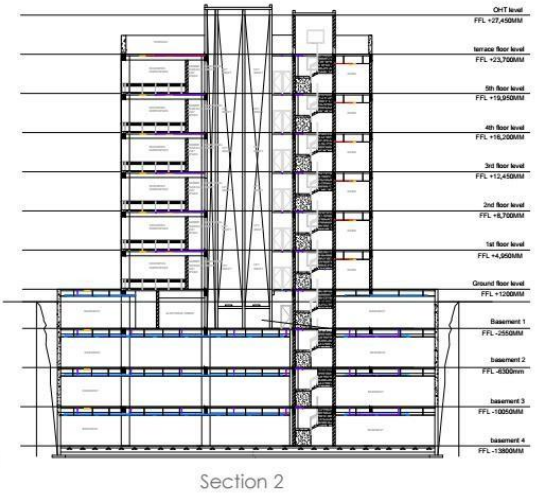
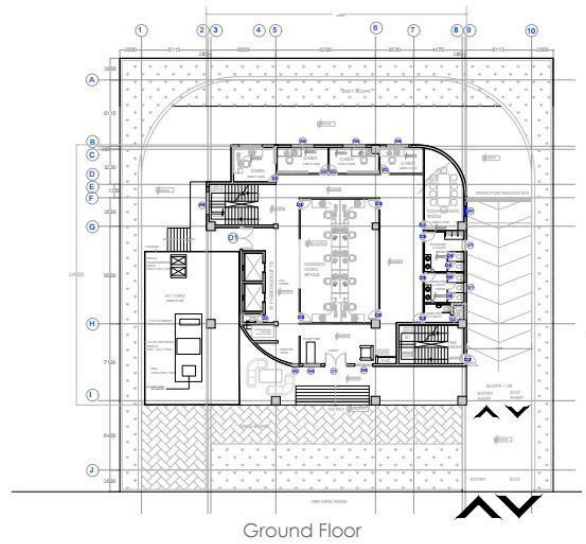
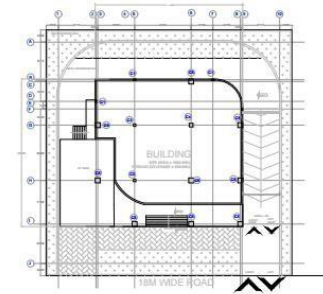
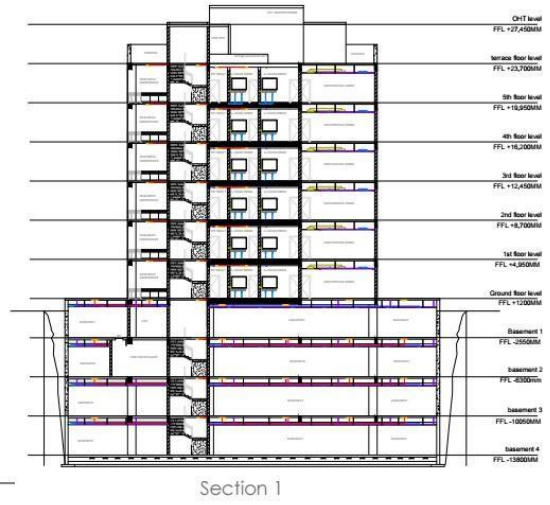
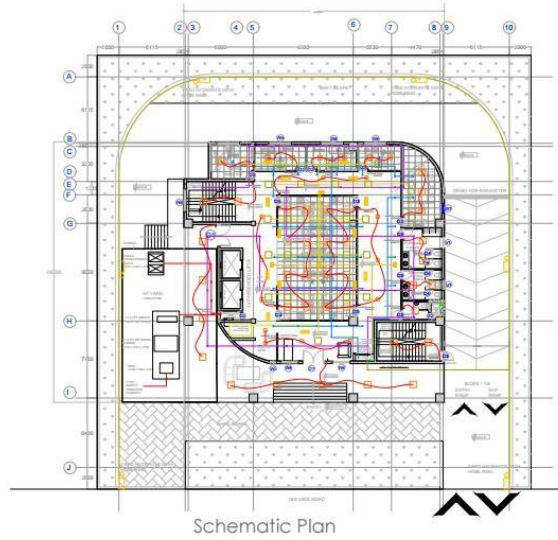


Section Rendered

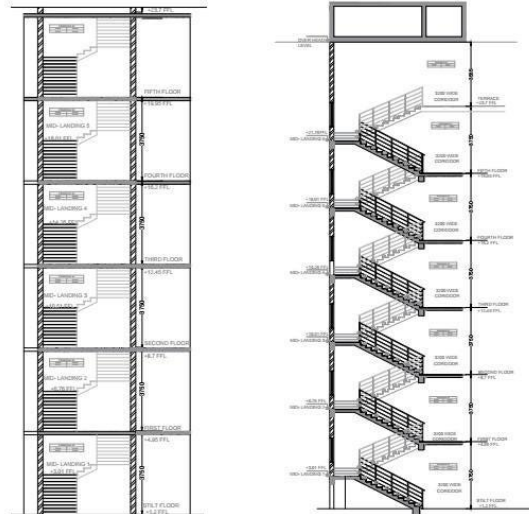
# WORKING DRAWINGS - OFFICE

An office building was design as a part of Working drawings subject in 5th and 6th semester.

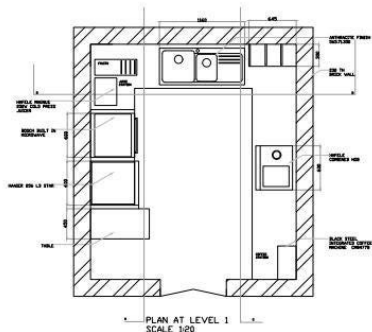
Walk in wardrobe and kitchen was designed and detailed for Building Construction subject in 7th semester



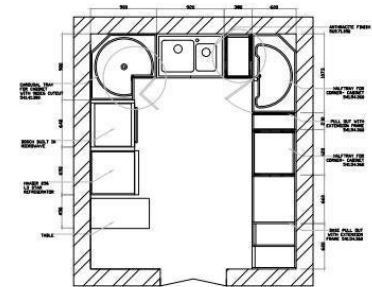




Staircase Detail

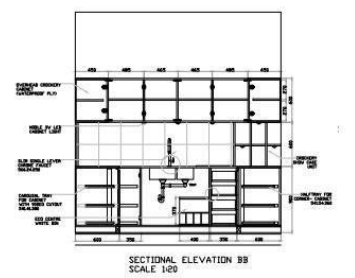


PLAN AT LEVEL 1  
SCALE 1:20

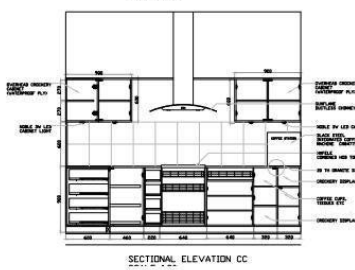


PLAN AT LEVEL 0.5 H

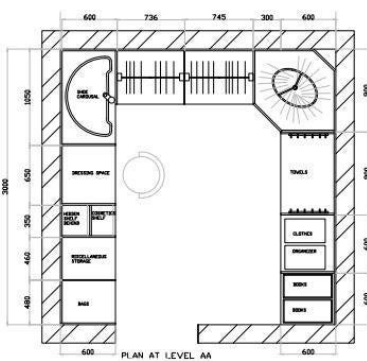
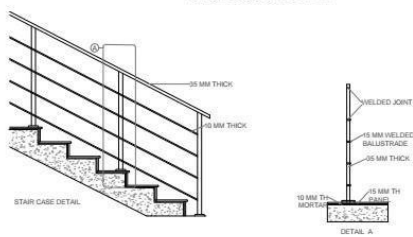
Kitchen Detail



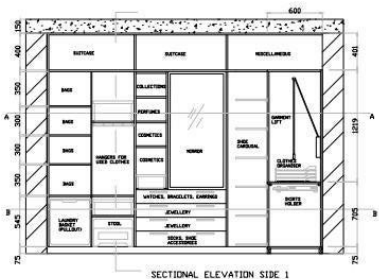
SECTIONAL ELEVATION BB  
SCALE 1:20



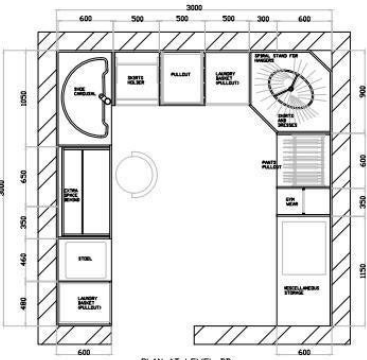
SECTIONAL ELEVATION CC



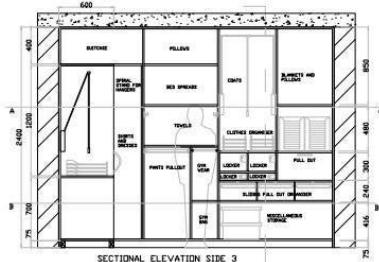
PLAN AT LEVEL AA



SECTIONAL ELEVATION SIDE 1

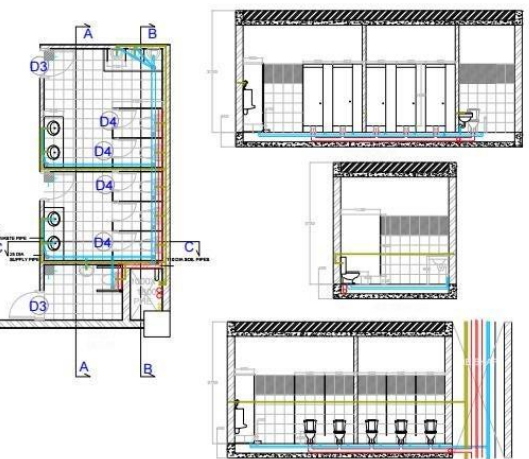


PLAN AT LEVEL BB



SECTIONAL ELEVATION SIDE 3

Walk in Wardrobe



PHE Detail



## OTHER WORKS

### **ARCHITECTURE JOURNALISM PORTFOLIO –**

<https://drive.google.com/file/d/1oAgnCoujFbFrynDTchxE0gh2BtGKej-b/view?usp=sharing>

### **RESEARCH PAPER –**

[https://drive.google.com/file/d/1Lvy\\_t5dAy8zZlkedn7PB1wxyOLnxT63q/view?usp=sharing](https://drive.google.com/file/d/1Lvy_t5dAy8zZlkedn7PB1wxyOLnxT63q/view?usp=sharing)

ATCHAYEA DHARENE KUMAR

[Atchayea.kumar@gmail.com](mailto:Atchayea.kumar@gmail.com)

+91 7339666185