



Suraj D Shinde

[Bachelor of Architecture Portfolio]

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## PROJECT DESCRIPTION

IIT Kharagpur has been a premier centre of learning and has grown over the last 60 years. The present infrastructure is insufficient to cater to the increasing number of students. Therefore, as a part of enhancing the capacity of existing infrastructure a new Library is being proposed for IIT Kharagpur.

## PROJECT INFORMATION

**PROJECT SITE**  
IIT KGP CAMPUS

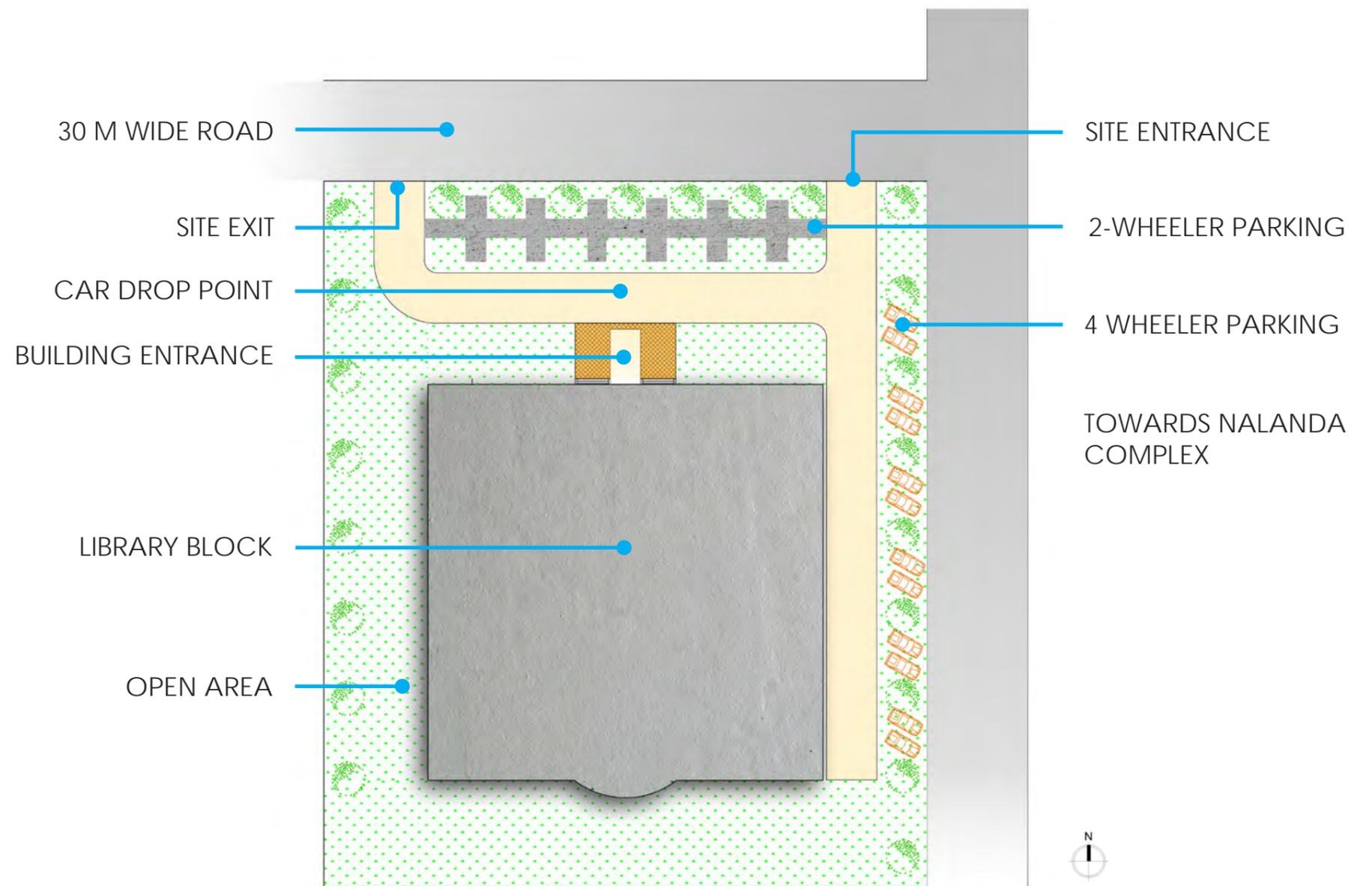
**SITE AREA**  
3500 SQ.M

**CLIMATE**  
HOT- HUMID

**BUILT UP AREA**  
7200 SQ.M

**GROUND COVERAGE**  
60%

**TOTAL HEIGHT**  
24 M



## CONCEPT

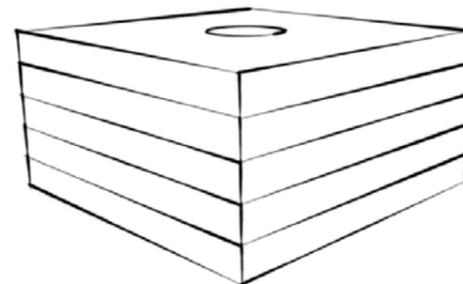
Building form is inspired from the arrangement of books when they are stacked over each other. In order to avoid direct solar radiation and to create shaded outer green space in building some floors are recessed by 5m. These open areas can be used for discussion, talking, holding informal meetings and many student activities.

### FORM INSPIRATION



1. Typical arrangement of book stack vertically.

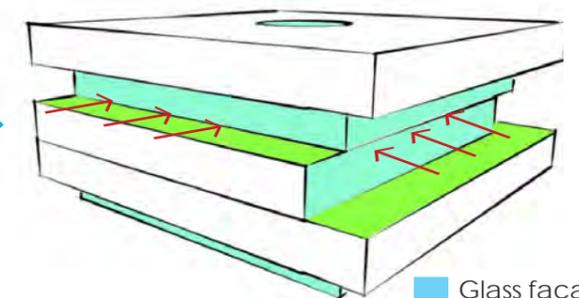
### INITIAL BUILDING



2. Dividing Cuboidal mass into 5 segments & zoned vertically.

- Conference zone
- Reading zone
- Entrance & kids library

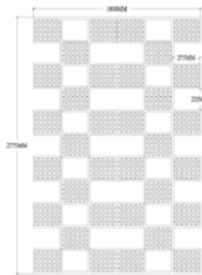
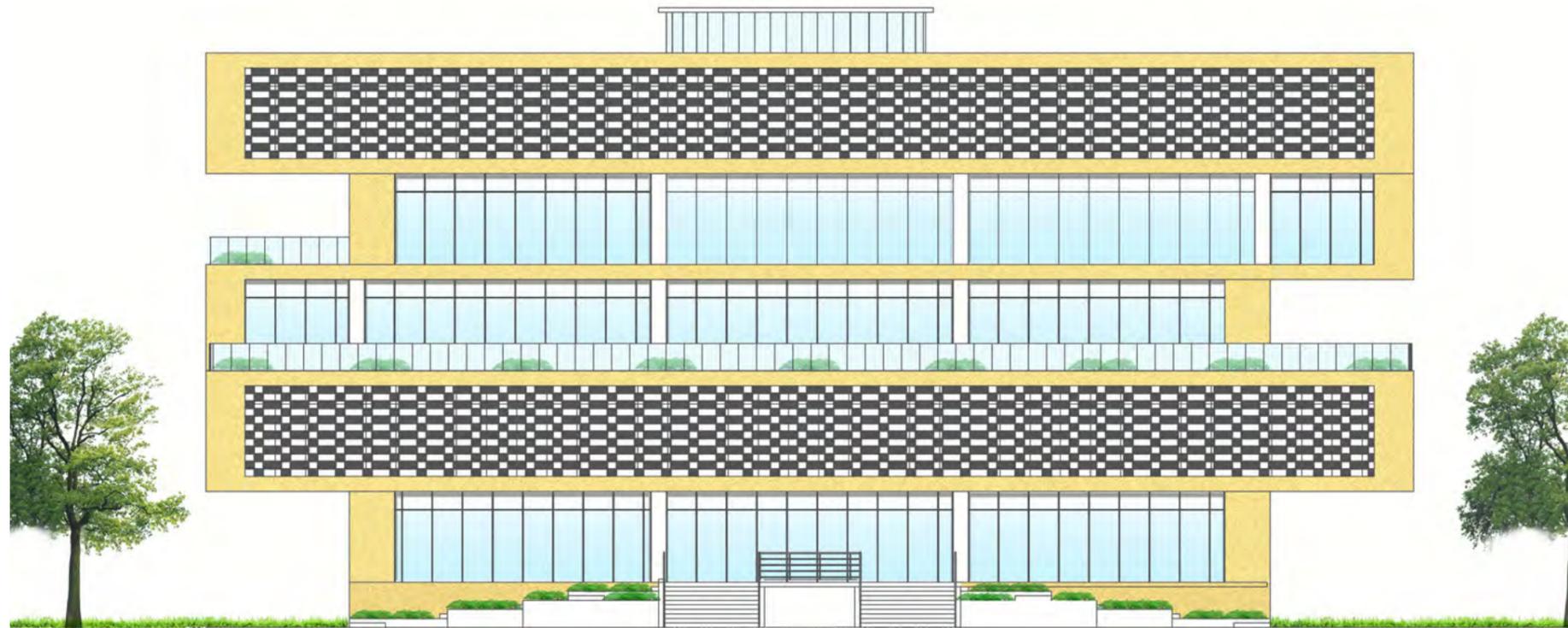
### FINAL FORM



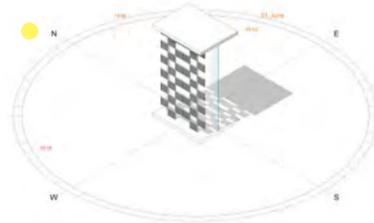
- Glass facade
- Covered terrace

3. Masses pushed inside to create shaded terrace for interaction & reducing heat gain.

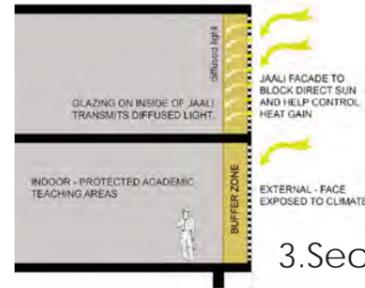
# FRONT ELEVATION



1. Facade pattern

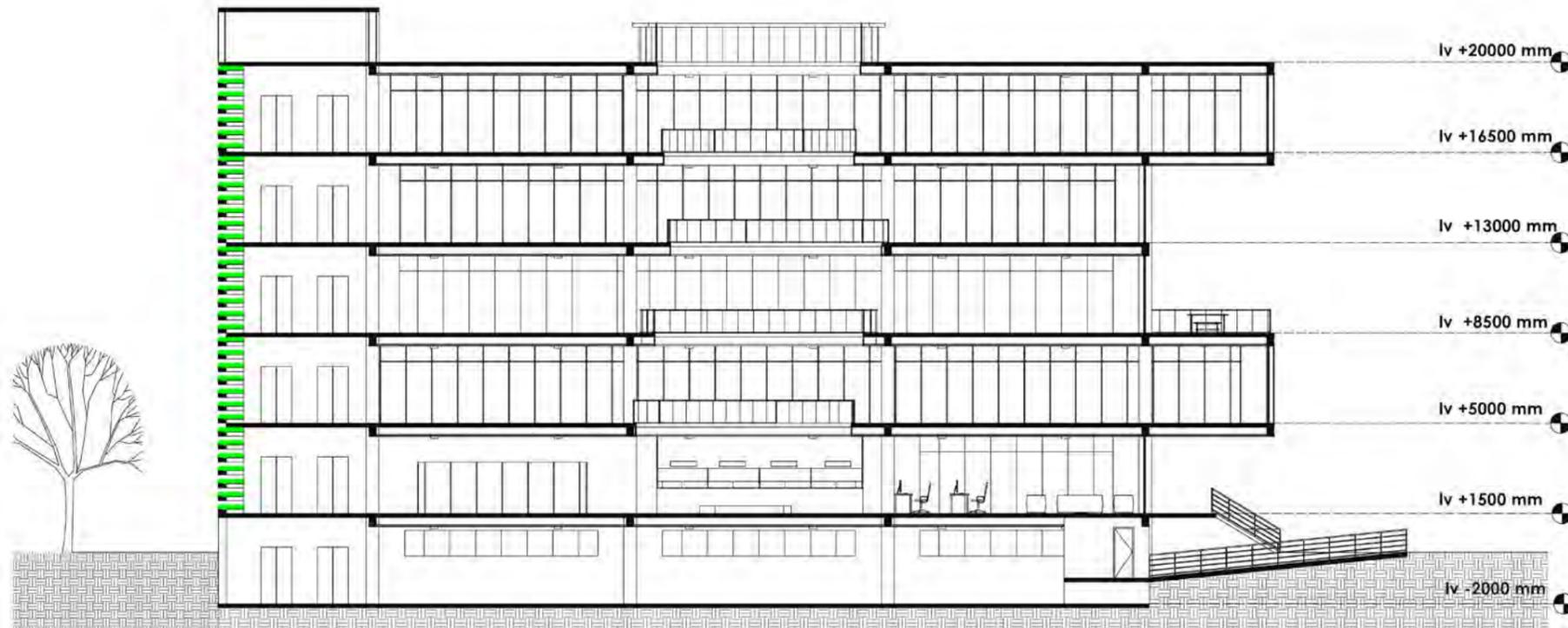


2. Shadow analysis



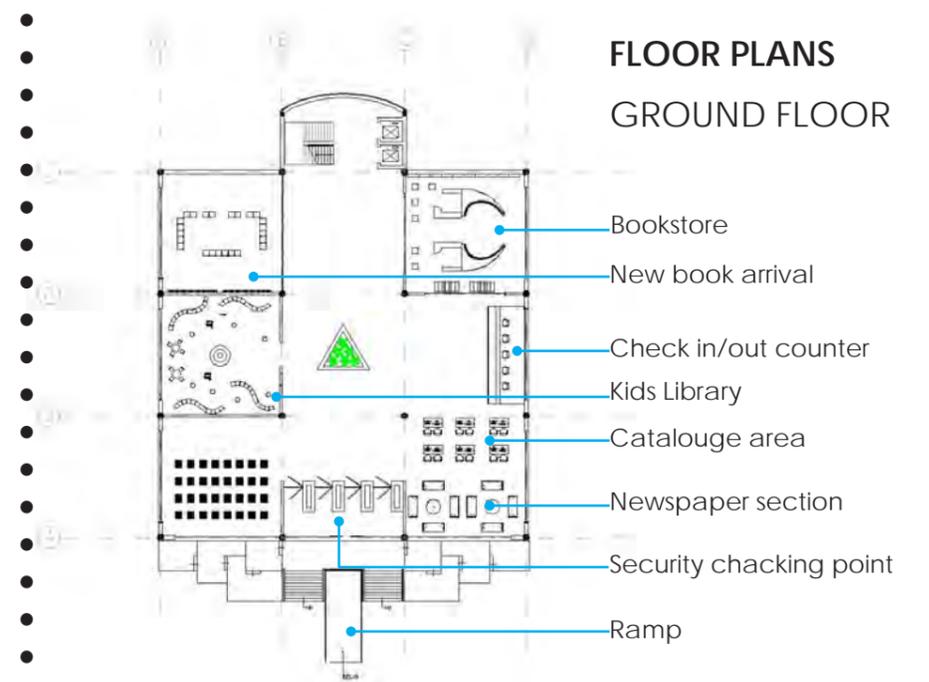
3. Section view

# SECTION

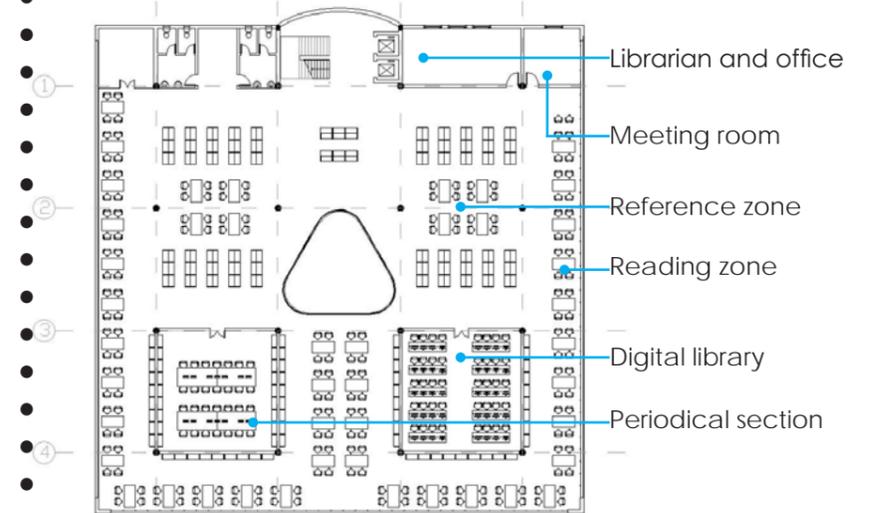


# FLOOR PLANS

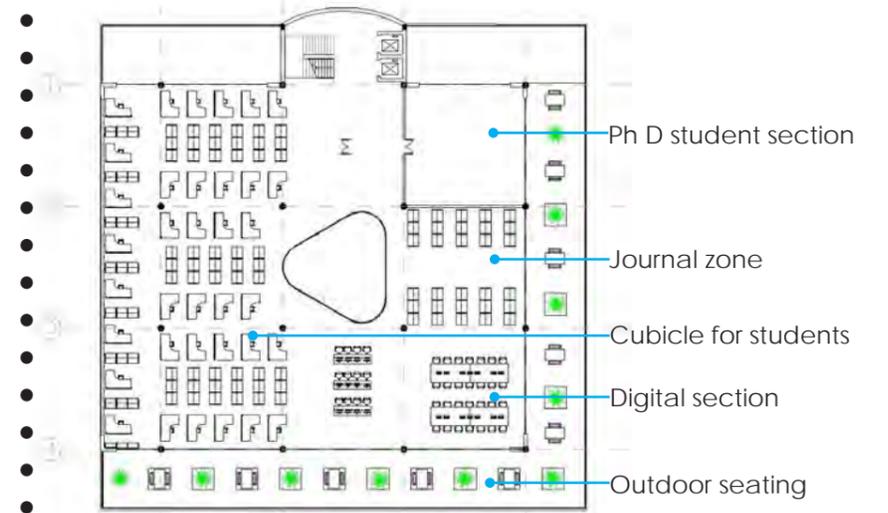
## GROUND FLOOR



## FIRST FLOOR PLAN



## SECOND FLOOR PLAN





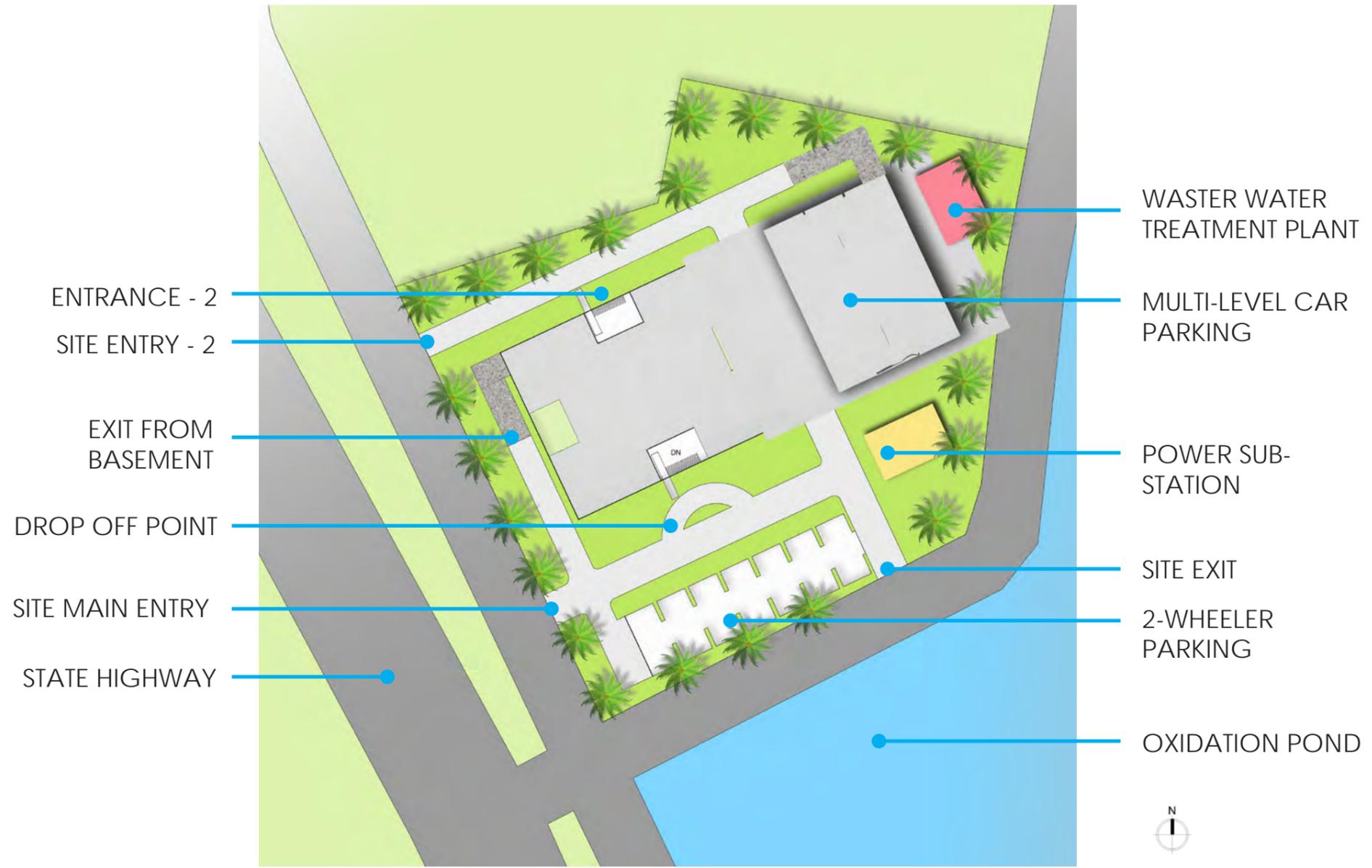


OUTDOOR SEATING



CHILDREN LIBRARY ENTRANCE & INTERIOR





## PROJECT DESCRIPTION

The proposed building will be developed by one of the real estate developers in kolkata as a showcase project including corporate offices, high end service apartments, food court & restaurants, night club, gymnasium, spa, swimming pool and a medical clinic. While building services will be shared by all units, service apartments will have direct access to the gym-spa-swimming pool, restuarants etc. which are also used by non-residents and office workers. Service aparmtments will be on long term rent.

## PROJECT INFORMATION

**PROJECT SITE**  
SALT LAKE, KOLKATA

**SITE AREA**  
15000 SQ.M

**CLIMATE**  
HOT- HUMID

**BUILT UP AREA**  
75000 SQ.M

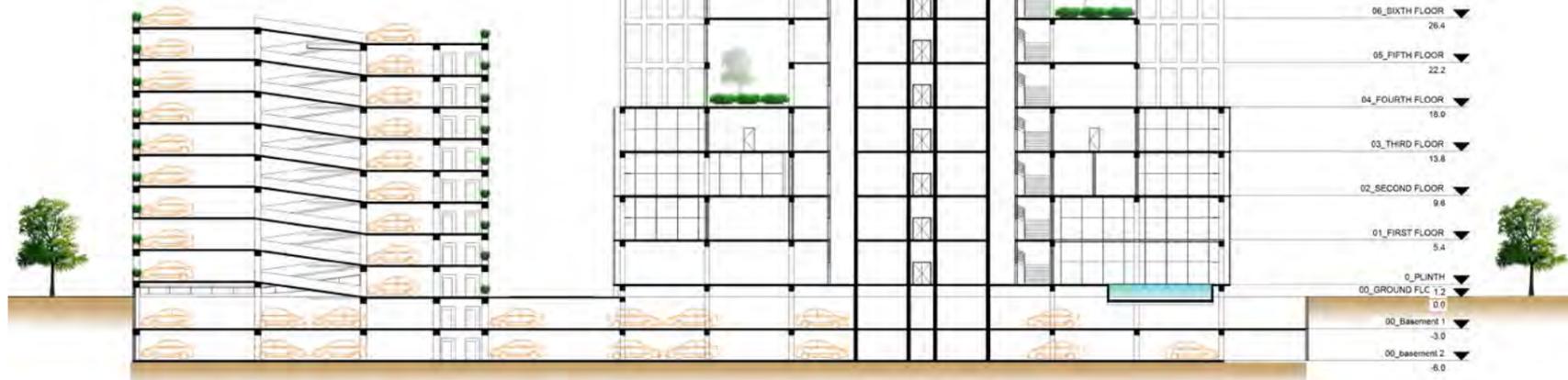
**PERMISSIBLE F.A.R**  
3.0

**GROUND COVERAGE**  
40%

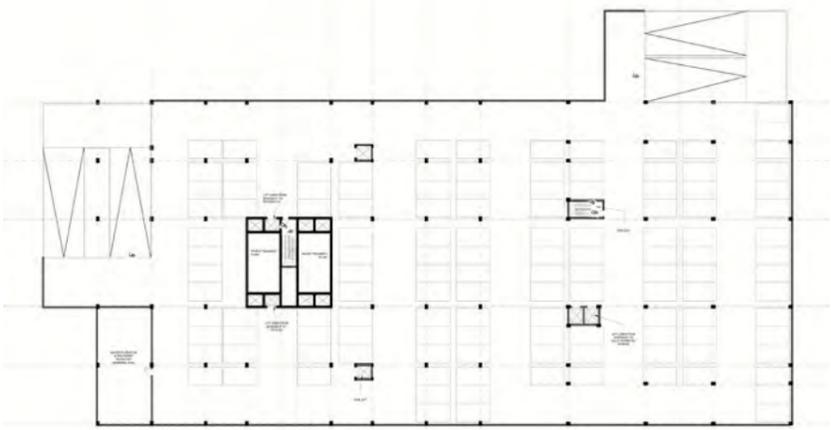
**TOTAL HEIGHT**  
132 M

**CAR PARKING**  
700

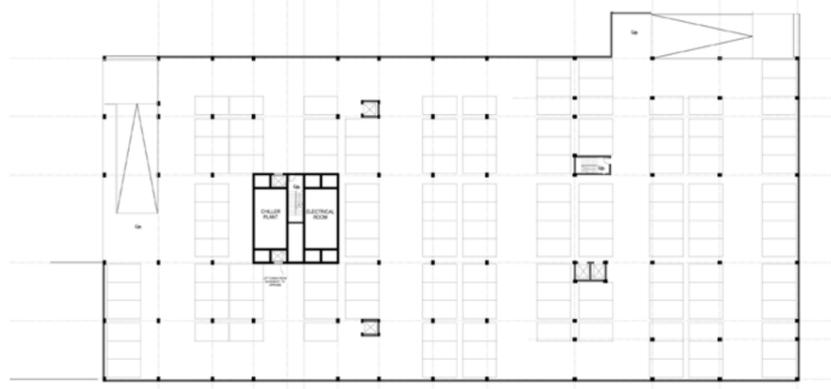
- BASEMENT
- RECREATIONAL & ENTERTAINMENT FACILITIES
- OFFICE
- RESIDENTIAL
- SERVICE FLOOR



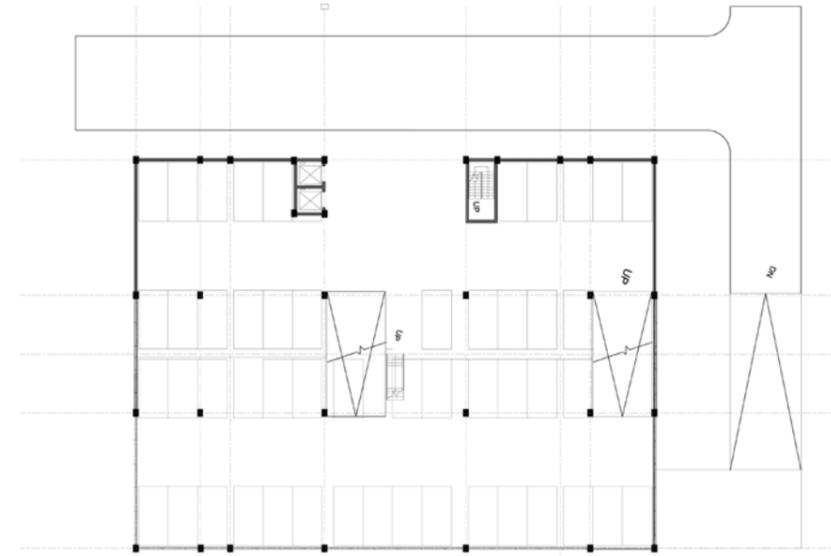
31_THIRTY ONE	131.4
30_THIRTY	127.2
29_TWENTY NINE	123.0
28_TWENTY EIGHT	118.8
27_TWENTY SEVEN	114.6
26_TWENTY SIX	110.4
25_TWENTY FIVE	106.2
24_TWENTY FOUR	102.0
23_TWENTY THREE	97.8
22_TWENTY TWO	93.6
21_TWENTY ONE FLOOR	89.4
20_TWENTY FLOOR	85.2
19_NINETEEN FLOOR	81.0
18_EIGHTEEN FLOOR	76.8
17_SEVENTEEN FLOOR	72.6
16_SIXTEEN FLOOR	68.4
15_FIFTEEN FLOOR	64.2
14_FOURTEEN FLOOR	60.0
13_THIRTEEN FLOOR	55.8
12_TWELVETH FLOOR	51.6
11_ELEVENTH FLOOR	47.4
10_TENTH FLOOR	43.2
09_NINTH FLOOR	39.0
08_EIGHT FLOOR	34.8
07_SEVENTH FLOOR	30.6
06_SIXTH FLOOR	26.4
05_FIFTH FLOOR	22.2
04_FOURTH FLOOR	18.0
03_THIRD FLOOR	13.8
02_SECOND FLOOR	9.6
01_FIRST FLOOR	5.4
0_PLNTH	1.2
00_GROUND FLC	0.0
00_Basement 1	-3.0
00_Basement 2	-6.0



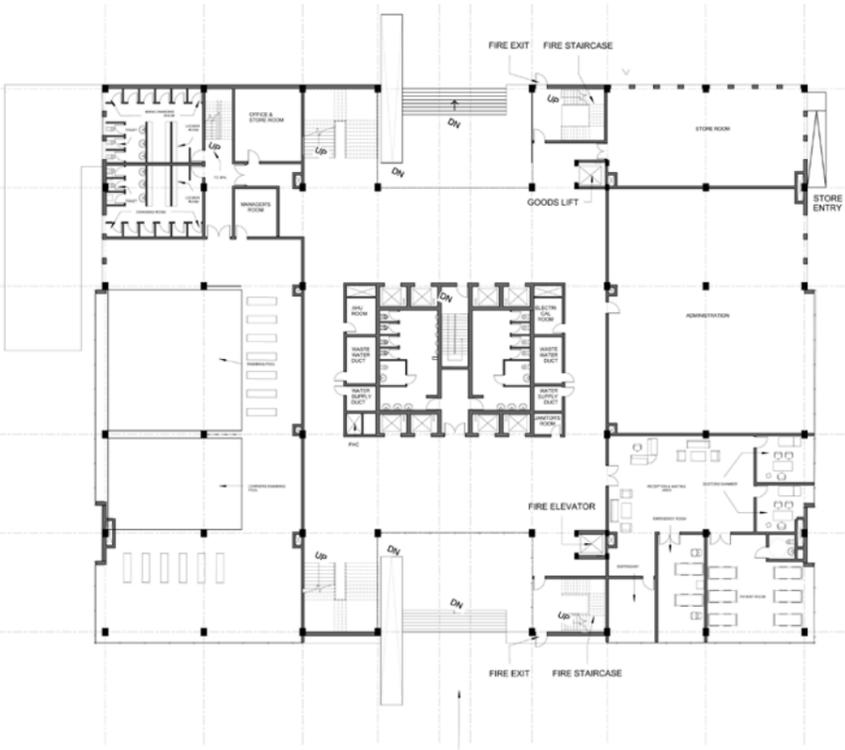
UPPER BASEMENT FLOOR PLAN



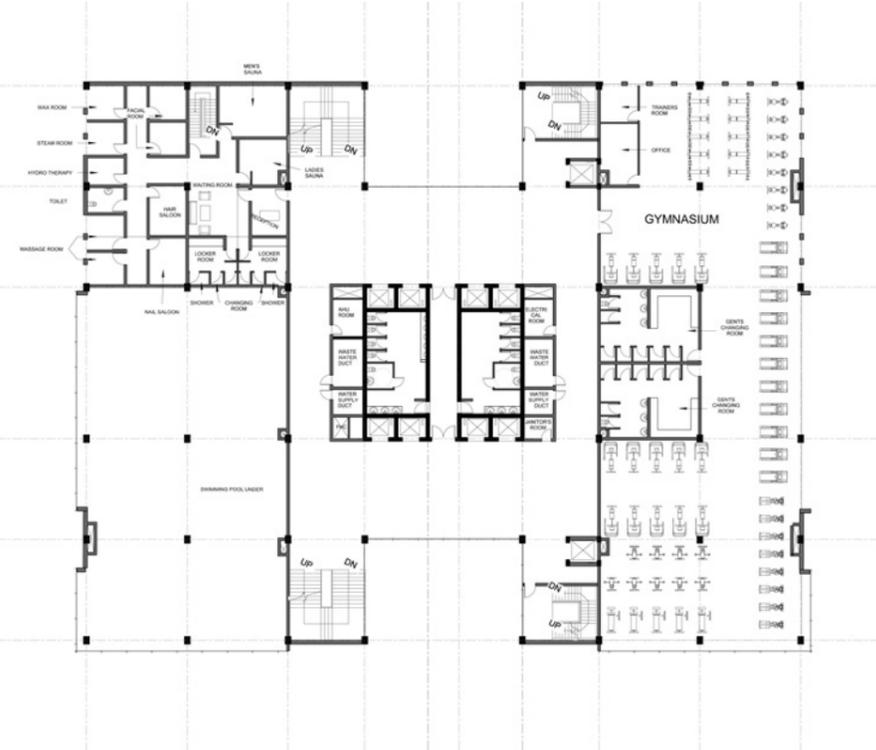
LOWER BASEMENT FLOOR PLAN



MULTI LEVEL CAR PARKING PLAN



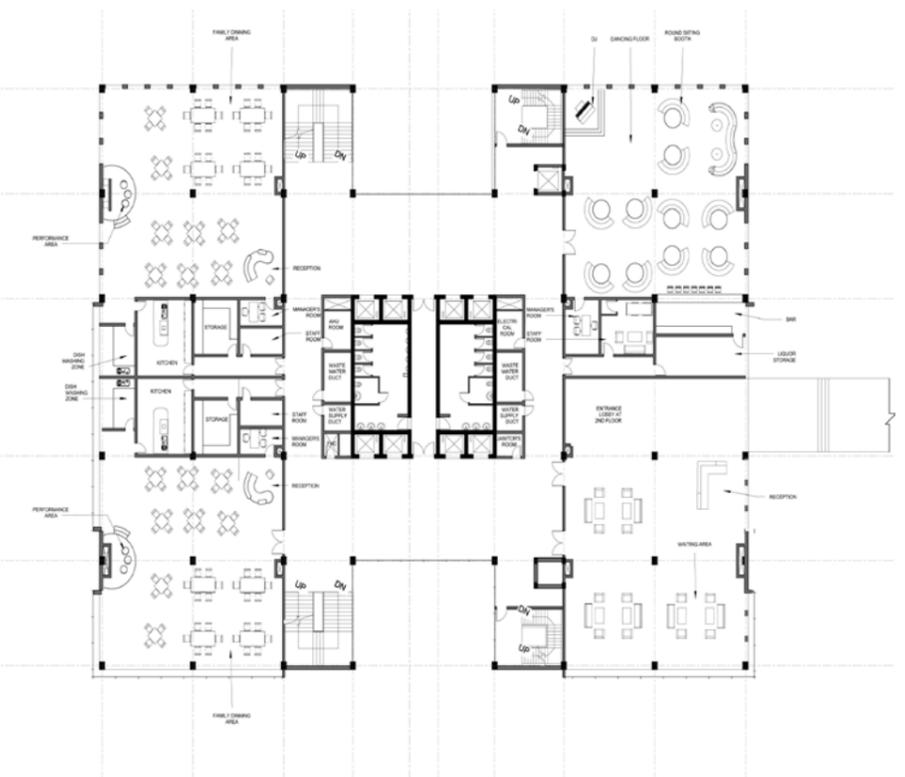
GROUND FLOOR PLAN



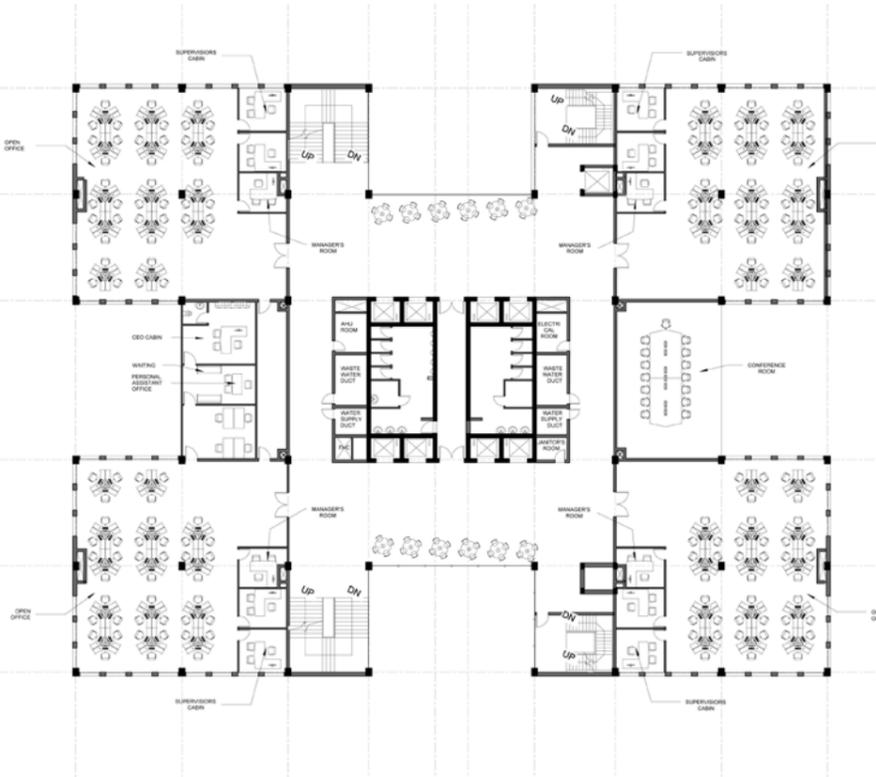
FIRST FLOOR PLAN



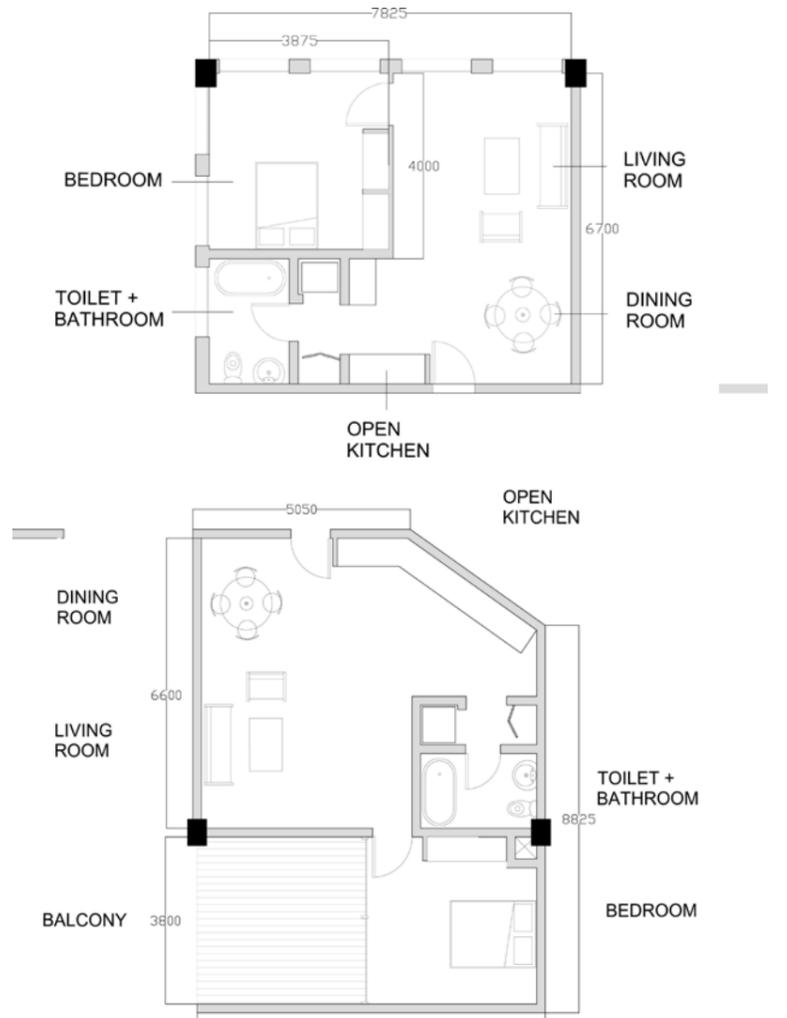
TYPICAL APARTMENT FLOOR PLAN



SECOND FLOOR PLAN



TYPICAL OFFICE PLAN



SERVICE APARTMENT UNIT PLAN

# 02 | CAMPUS INNOVATION CENTRE

## PROJECT DESCRIPTION

The age of innovation demands an educational setting which inspires people to think beyond the existing, to discover and invent solutions which contribute towards the progress of the society. To meet the challenges of the future, there is a need to equip the present generation of academicians with state of the art facilities within the precincts of their institution. The proposed Campus Innovation Centre is to be designed as an integral part of an existing campus with provisions for exploration, experimentation, innovation, conferences, and workshops.

## PROJECT INFORMATION

**PROJECT SITE**  
IIT KANPUR CAMPUS

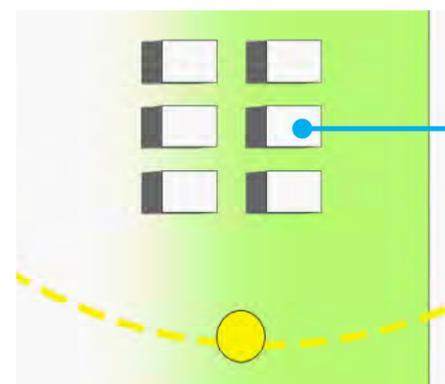
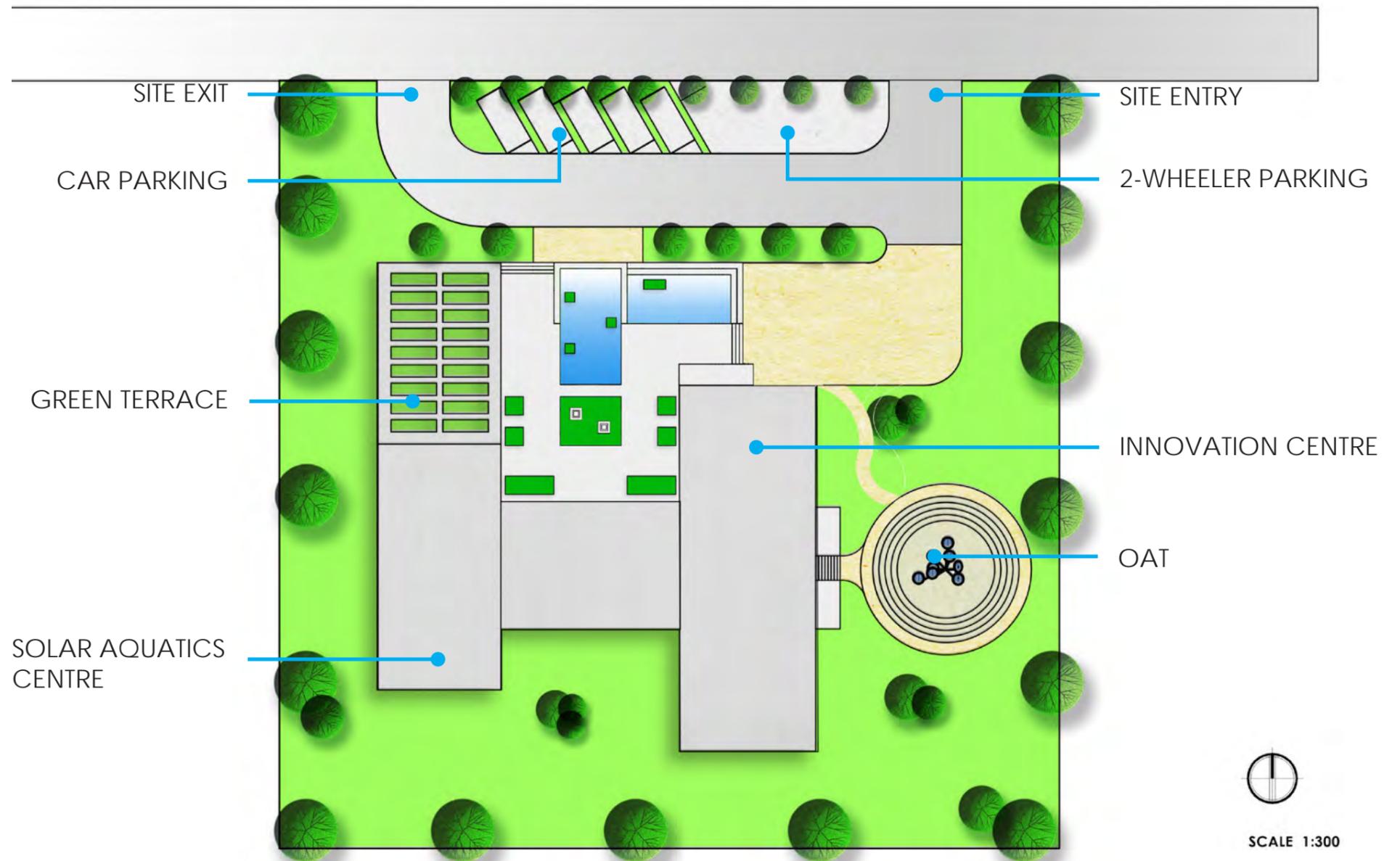
**SITE AREA**  
4000 SQ.M

**CLIMATE**  
HOT-DRY

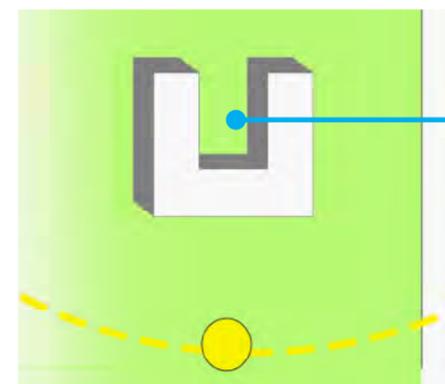
**BUILT UP AREA**  
1000 SQM

## CONCEPT

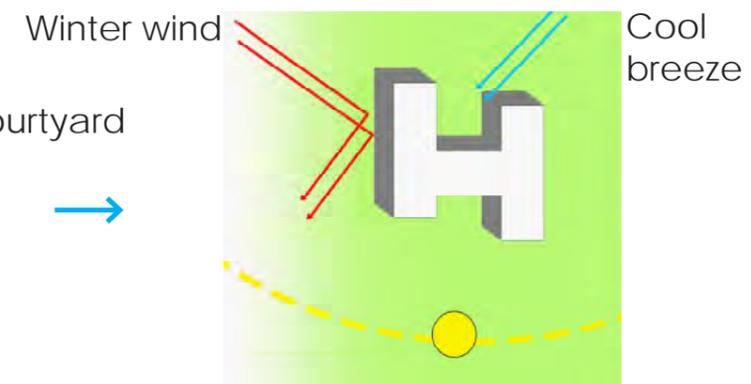
CIC derives its inspiration from large Indian historical campuses like Fatehpur Sikri and the Meenakshi Sundareshvara Temple complex in Madurai. Both employ an interpositioning of open and closed spaces that balances one another. Everyone can sense the seasons and the time of the day from their place of work. There is visual access to the large central gardens from everywhere. There is a sense of connection between the various kinds of spaces.



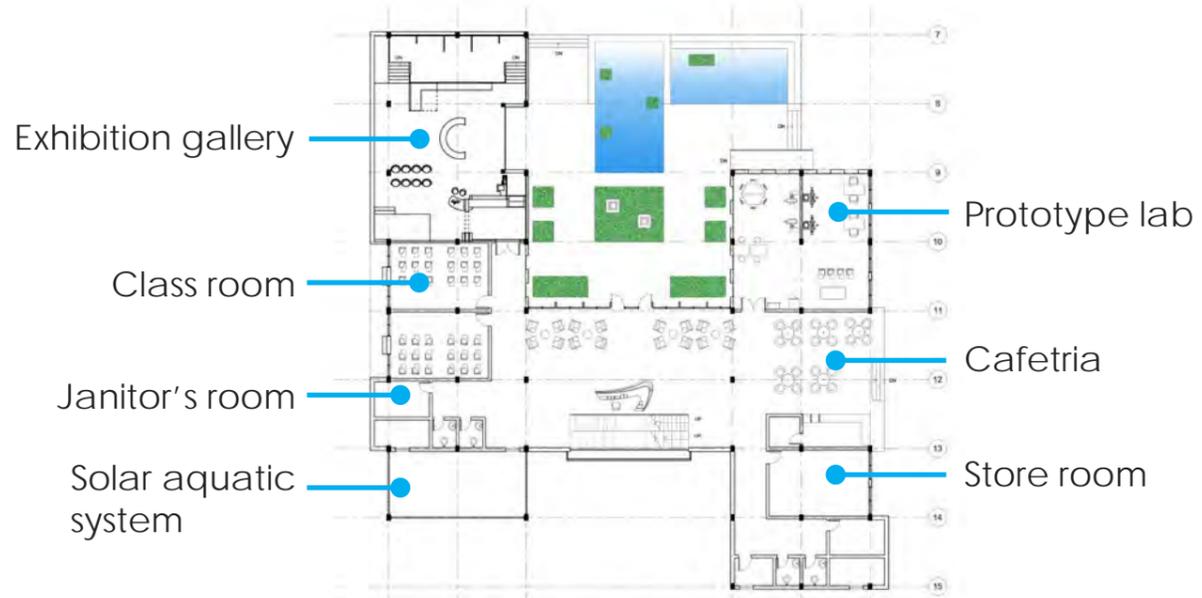
Cluster arrangement of building block representing different zone.



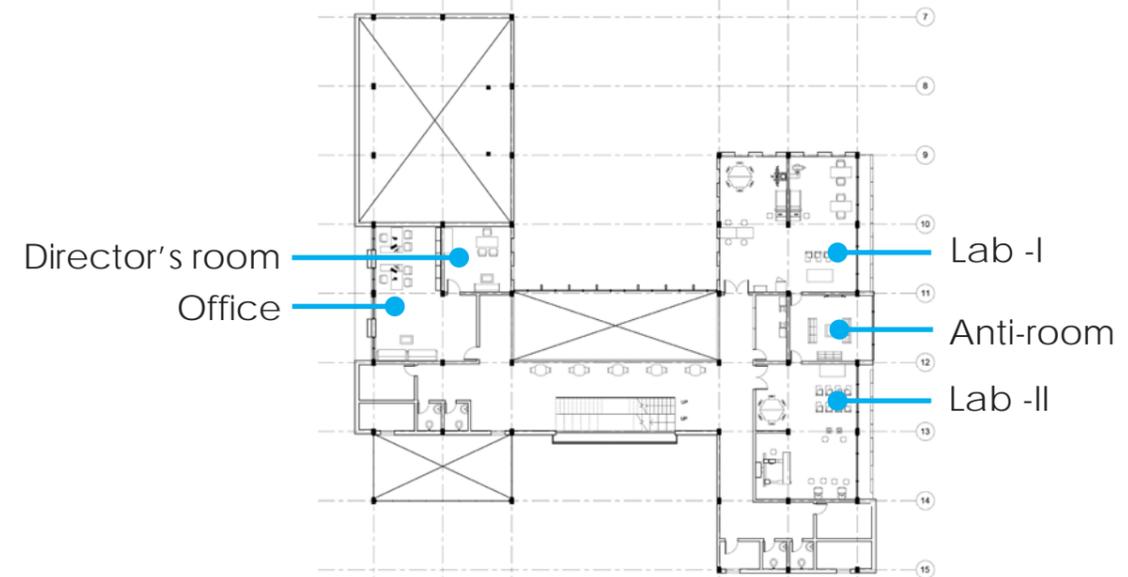
Clusters clubbed together to form U shape to create central courtyard



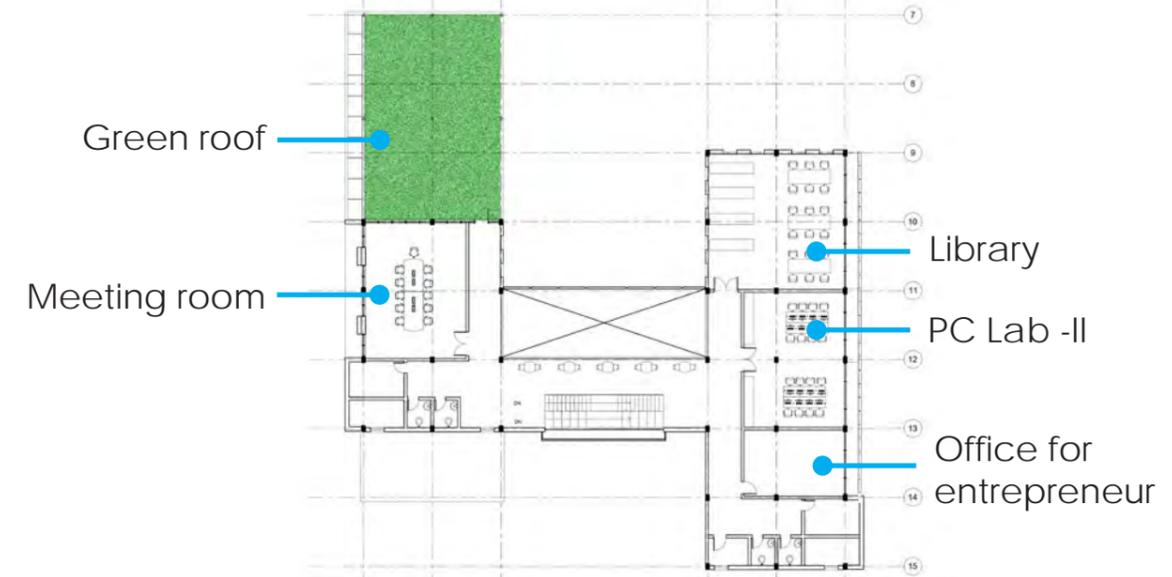
Left & right wing shifted to prohibit winter wind & to allow cool summer breeze



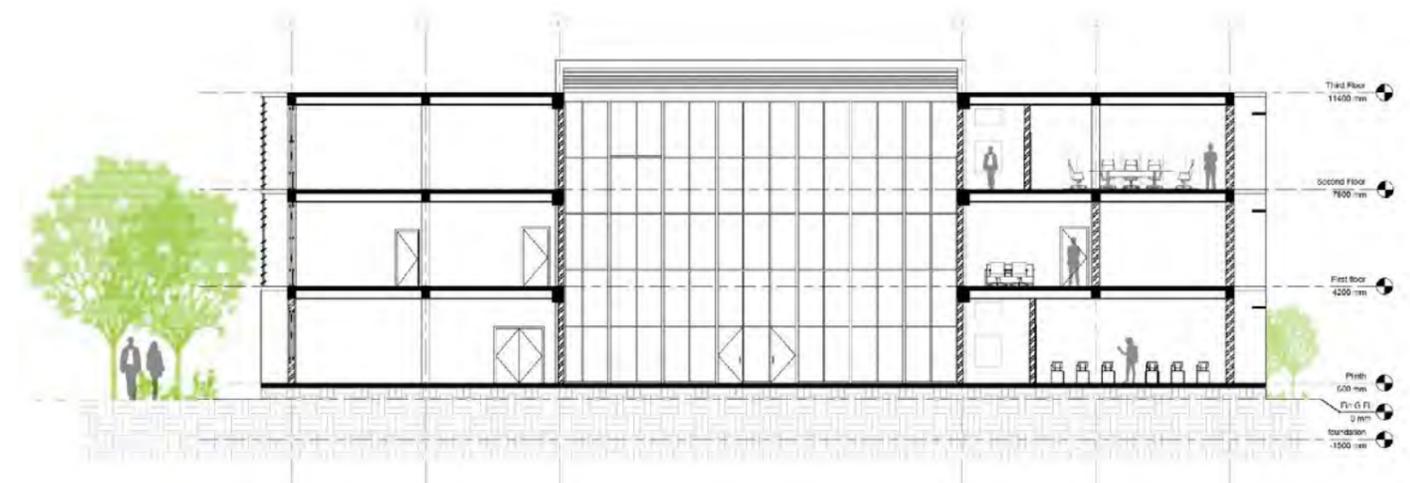
GROUND FLOOR PLAN



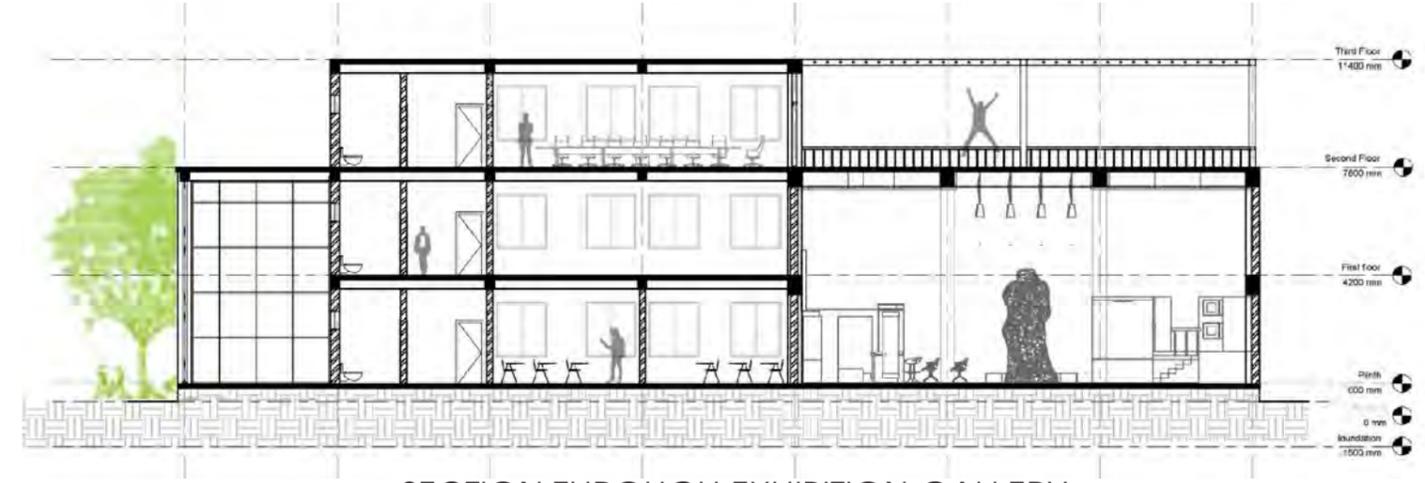
FIRST FLOOR PLAN



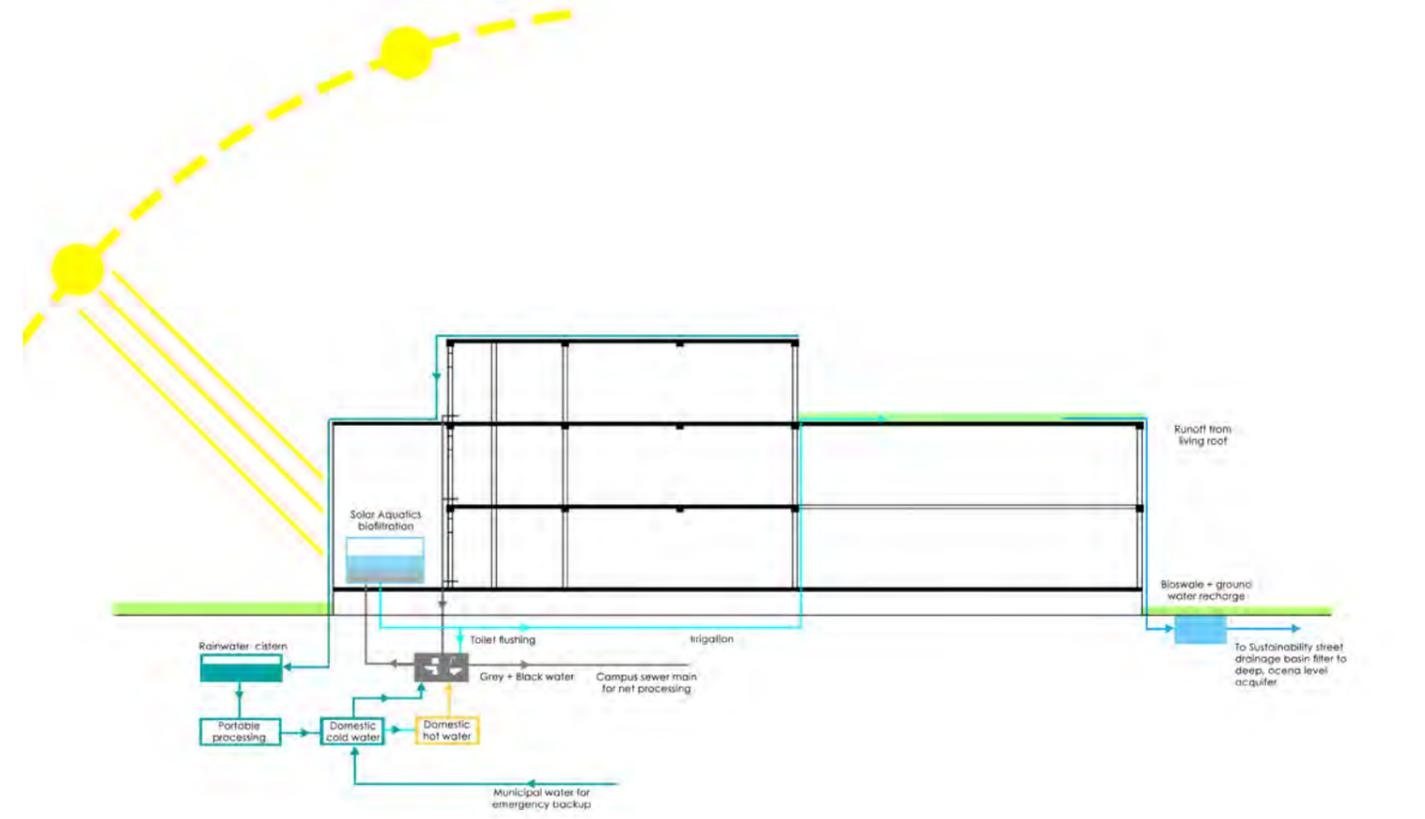
SECOND FLOOR PLAN



SECTION THROUGH LAB & CLASS ROOM



SECTION THROUGH EXHIBITION GALLERY



SECTION SHOWING WATER RECYCLE



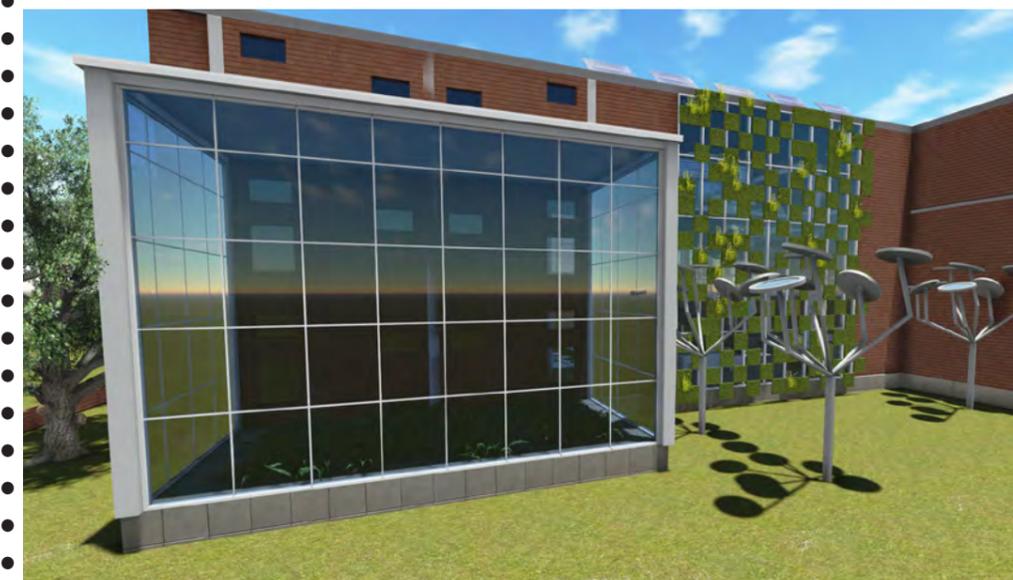
CAMPUS INNOVATION  
CENTRE



CAFETRIA



EAST FACADE - LOUVERS



BIO WALL AND SOLAR TREE

# 03 | ECO - RESORT



Palolem beach bird eye view



Site location



Existing resort architecture

## PROJECT DESCRIPTION

Focus of design is to build international tourist destination and ecological seaside resort on the Palolem Beach in Goa. The brief called for designs which work with the existing terrain and ecological conditions of the area and sought to establish a major conservation zone for ecological and biological resources. The resort will include deluxe villa, multi cuisine restuarant, cafetria, dormitory(separate for boys & girls), conference room, indoor games room & spa.

## PROJECT INFORMATION

**PROJECT SITE**  
PALOLEM BEACH, GOA

**SITE AREA**  
9500 SQ.M

**CLIMATE**  
HOT- HUMID

**BUILT UP AREA**  
1200 SQ.M

## CONCEPT

Concept for seaside resort is inspired from typical indian vil-lage layout which is random and uncontrolled with central facilities loacted at the centre of village. Building elements of resort is made from bamboo even used as structural member to give tourist a experience of living in/with nature.

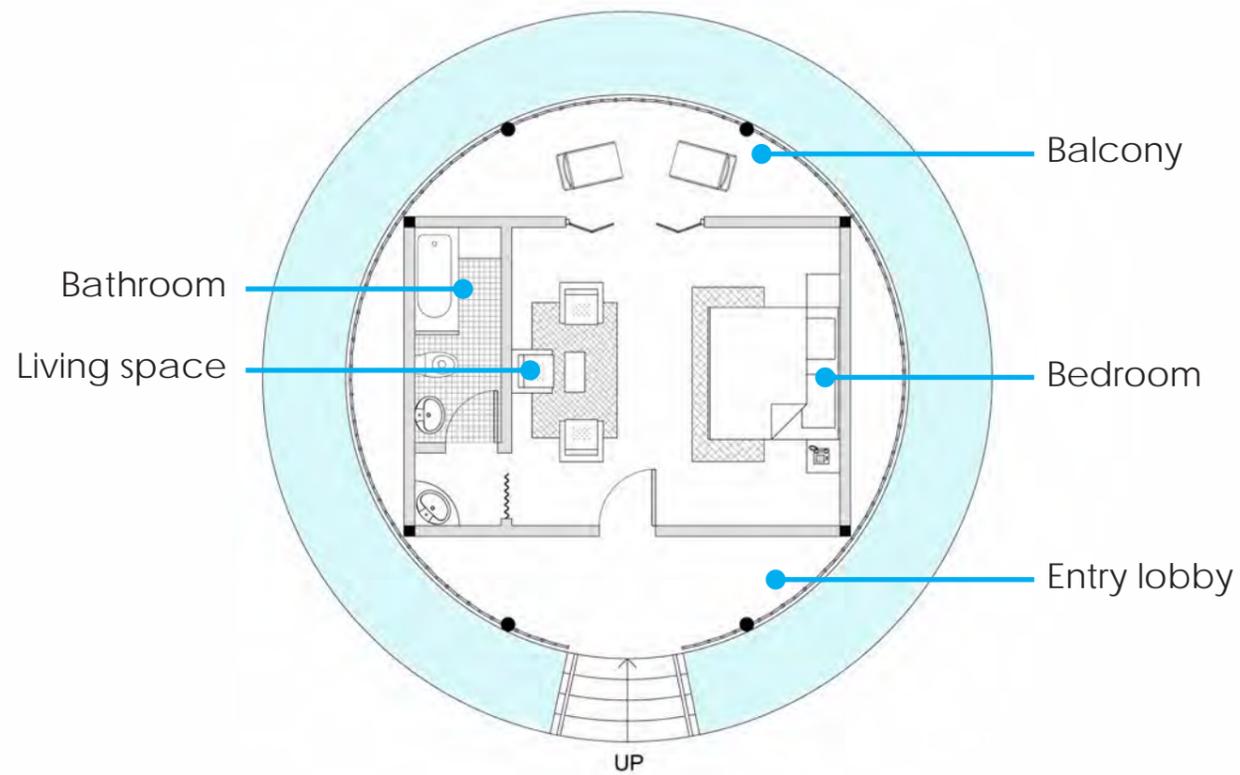


Village layout ( staggered layout)

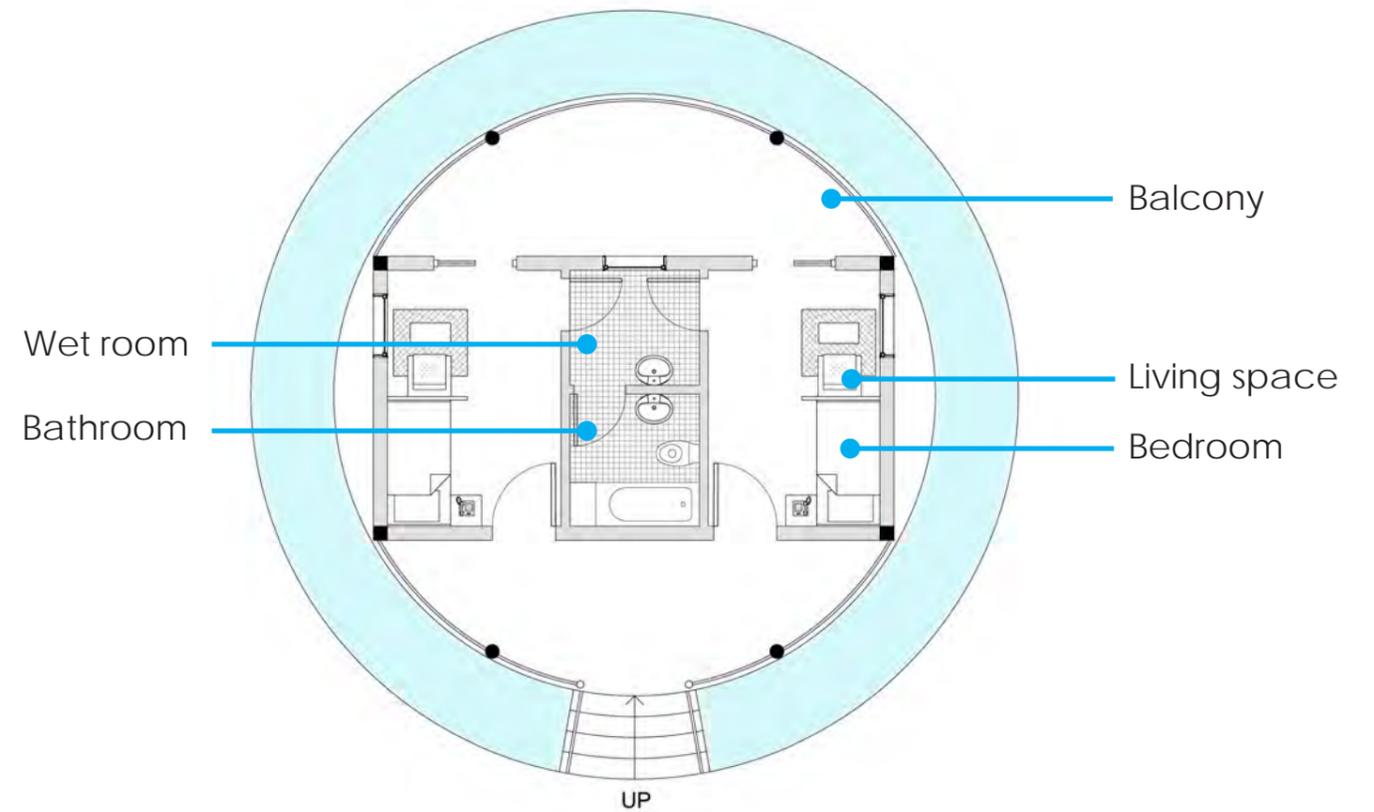


+ Bamboo house

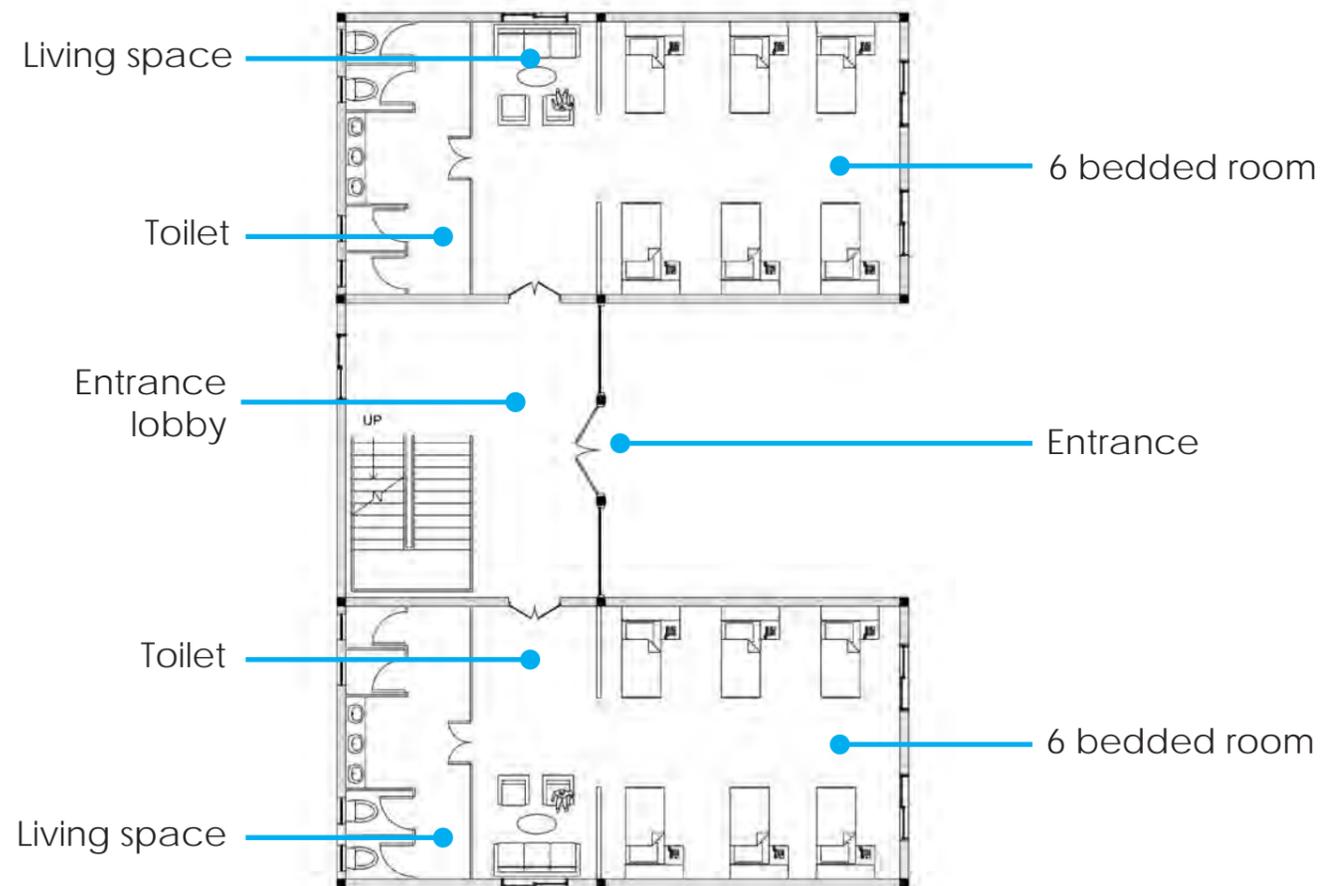




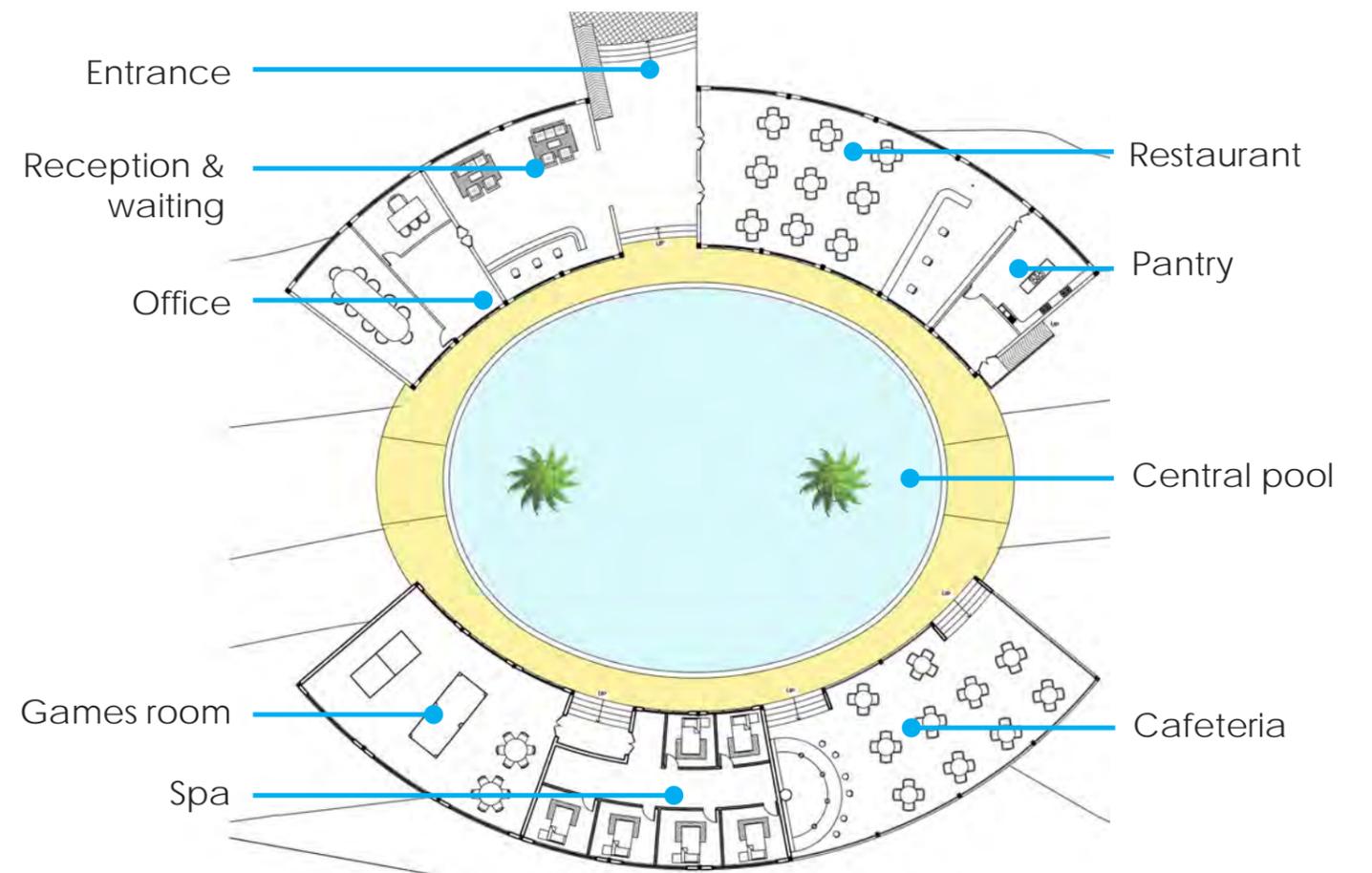
DOUBLE BEDROOM VILLA PLAN



SINGLE BEDROOM VILLA PLAN



DORMITORY FLOOR PLAN



CENTRAL FACILITY PLAN



VIEW FROM SEA





VIEW OF VILLA & DORMITORY



RESTAURANT VIEW



CAFETERIA VIEW



STRUCTURAL SYSTEM

# 04 | PERSONAL SPACE

## PROJECT DESCRIPTION

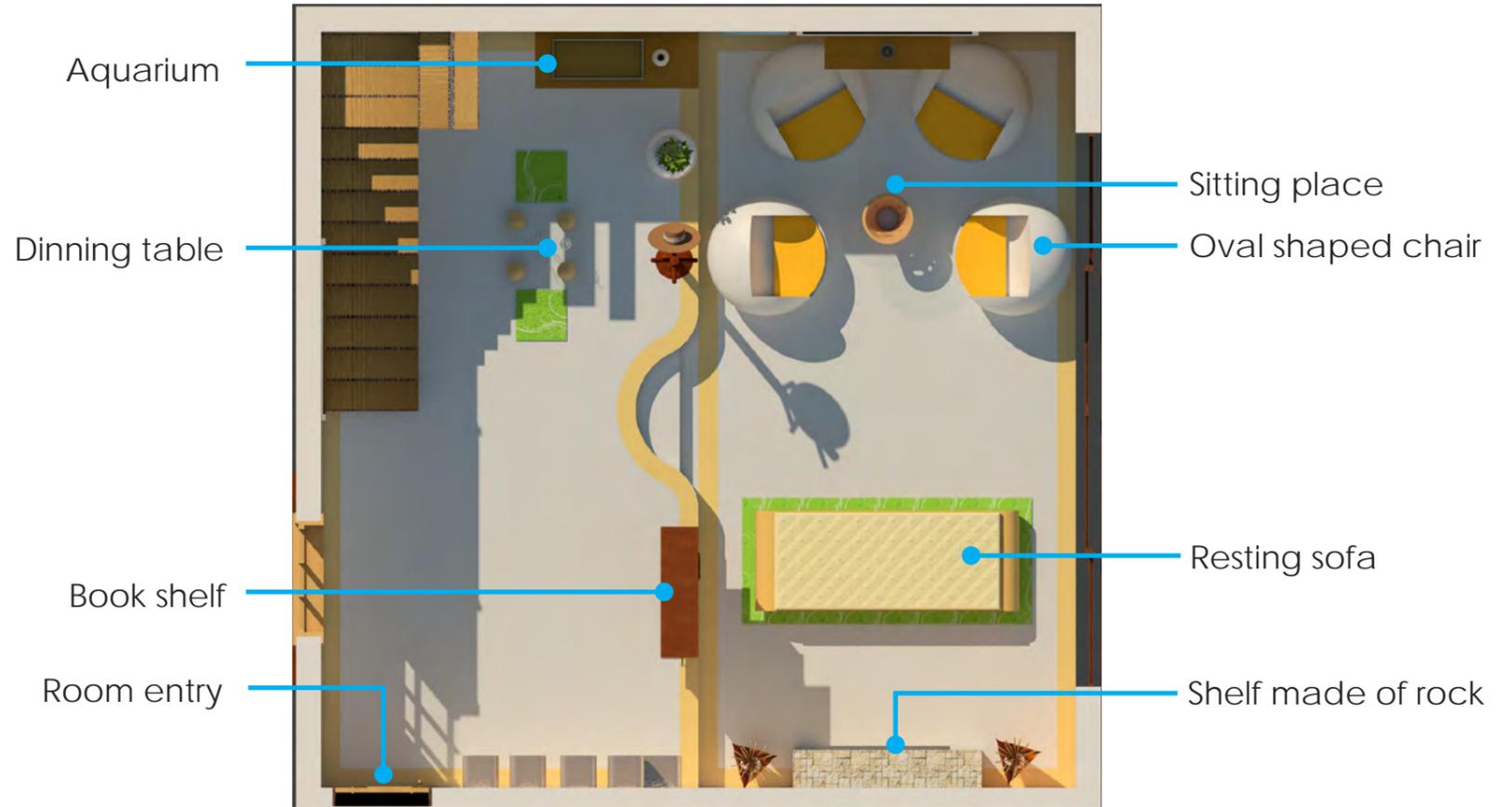
Interior design assignment is to design your own personal space of 6m X 6m. Design must reflect the personality and character of person residing there. Students are encouraged to recognise, acquire and put together an ideal collection of unique, hand-picked objects (furniture, artifacts, art, knick-knacks, furnishings etc) that reflect ones personal style, taste and hence social status. Subtle yet classy personal touches not only enhance the home interior, but speak volumes about your actual personality, profession and position in society.

## CONCEPT

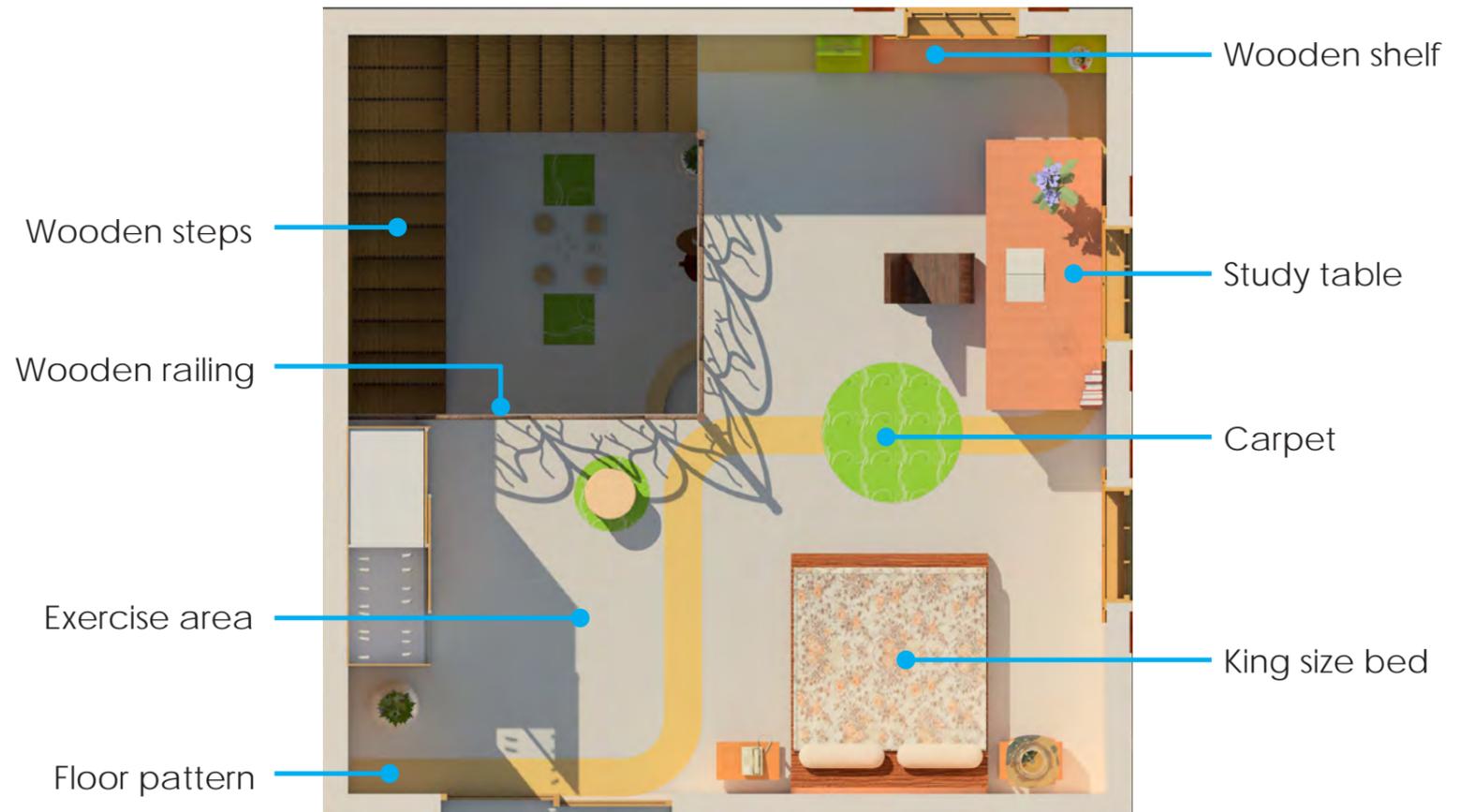
My personal space can be built or located anywhere. As an interior designer I would try to design my space with natural materials. I always like to look outside while thinking for getting inspiration for work. So, It will have most of elements made of woods. It will also have hipped roof.

I dont like much crowded place. So I will have basic furnitures like table, chair and shelf. I always need something to eat. I will have small dining space. I do lexercise and yoga like push-ups. This I prefer doing near to bed.

## ACTIVITIES I DO IN MY ROOM



GROUND FLOOR PLAN



MEZZANINE FLOOR PLAN



VIEW FROM STAIRCASE SHOWING MEZZANINE FLOOR



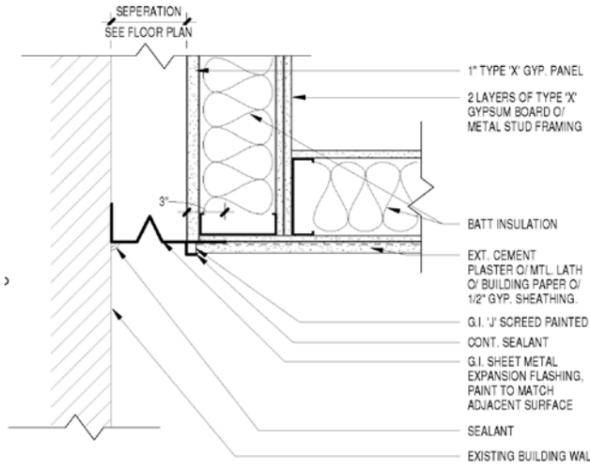
KING SIZE BED & TAPERED WINDOW FOR MORNING SUN



DISCUSSION ZONE AND TV ZONE

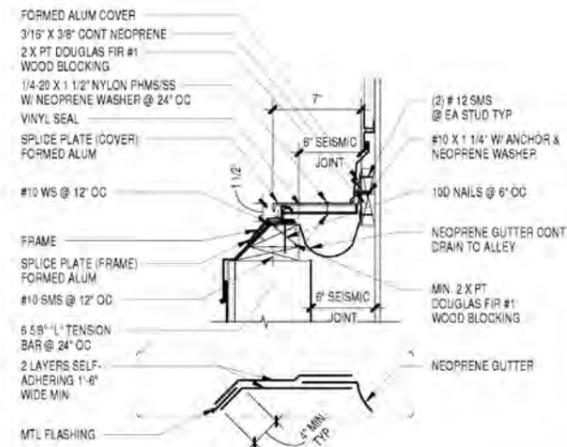


STAIRCASE AND DINING AREA



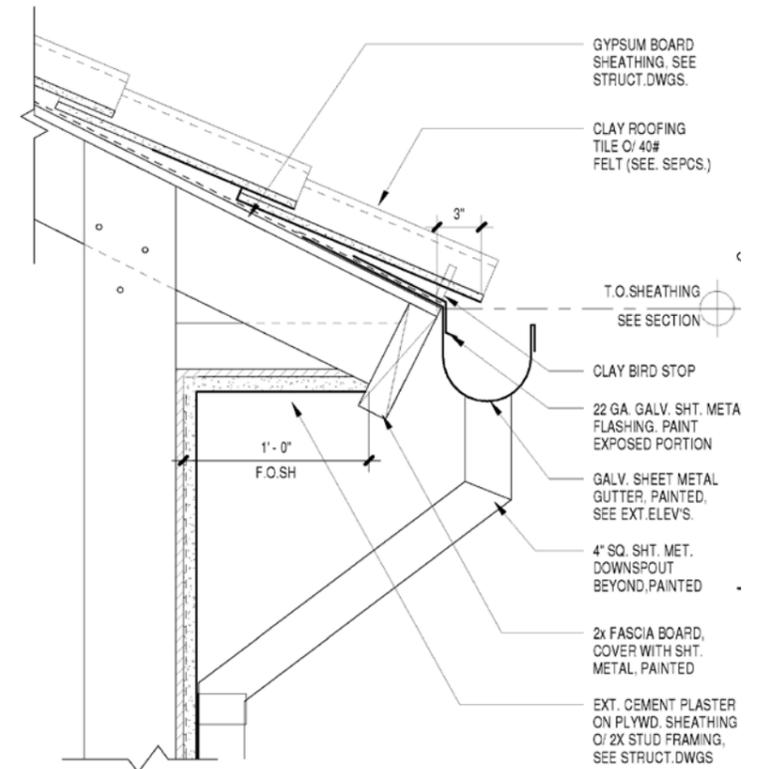
**C1** DETAIL AT SEPERATION FLASHING

SCALE: 1 1/2" = 1'-0"

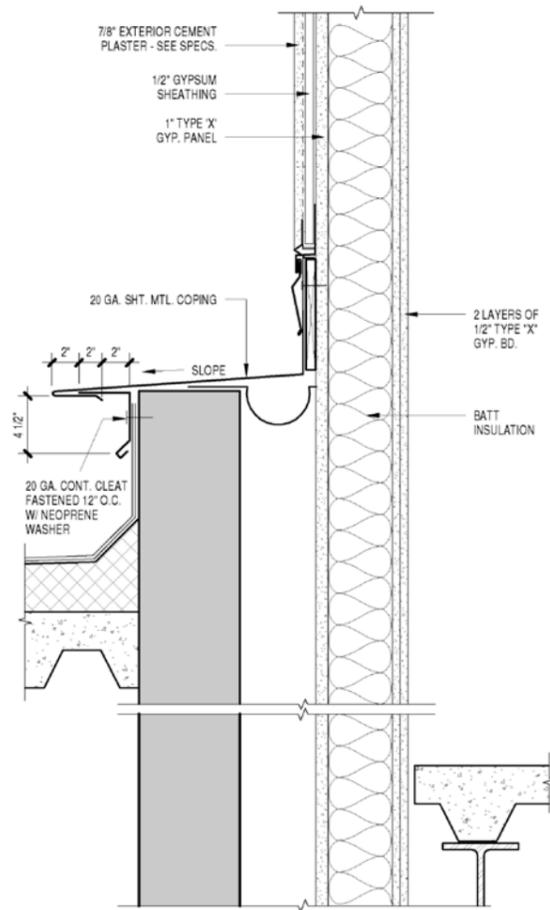


**C2** SEISMIC JOINT PARAPET / WALL

SCALE: 1 1/2" = 1'-0"



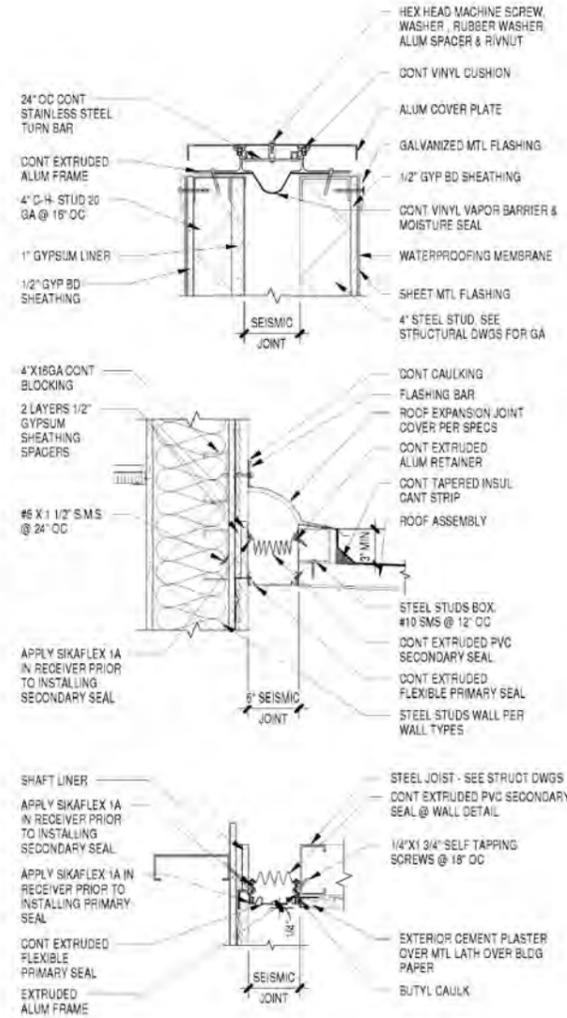
**DETAIL - B**



GA FILE NO. 8250

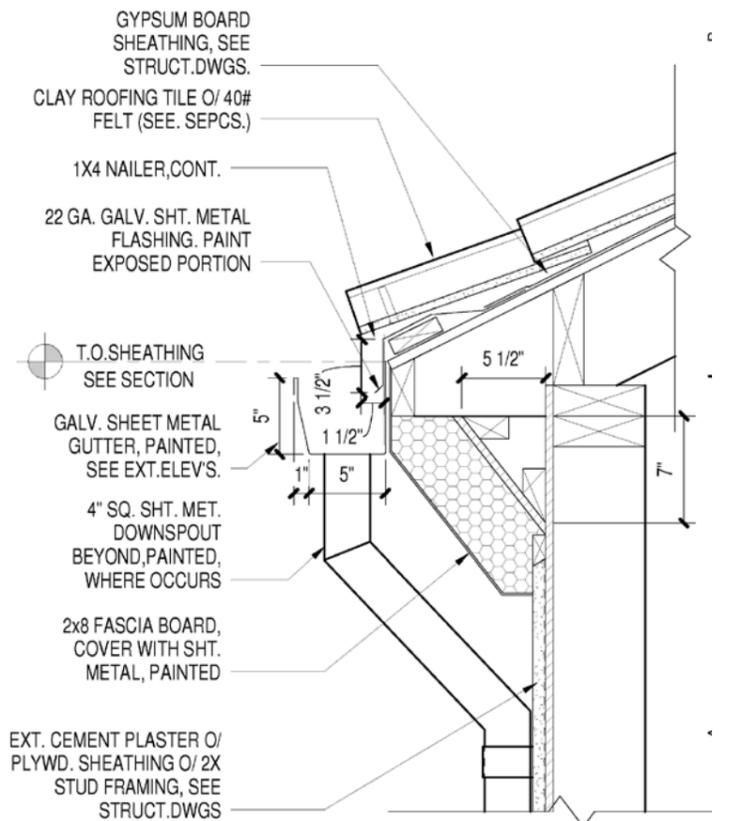
**A1** EXPANSION JOINT DETAIL @ EXISTING/ NEW

SCALE: 1 1/2" = 1'-0"



**A2** SEISMIC JOINT @ EXTERIOR

SCALE: 1 1/2" = 1'-0"



**A6** ROOF EAVE DETAIL

SCALE: 1 1/2" = 1'-0"

