



# PORT FOLIO

CYRIAC BIJU

selected **works** 2019-25

# ACADEMIC WORKS

## RESIDENCE SEMESTER - 3

01



## MIXED USE BUILDING SEMESTER-5

02



## MASS HOUSING SEMSTER -7

03



## INTERIOR DESIGN CO-WORKING SPACE SEMESTER -5

04



## CLUB HOUSE - MINOR DESIGN SEMESTER -7

05



## WORKING DRAWING PUBLIC HEALTH CENTER SEMESTER-6

06



## UG THESIS - AQUATIC LIFE CENTRE SEMESTER -10

07



## PROFESSIONAL WORKS FREELANCE

08



## EDUCATION

2006-2016  
Bhavan's Munshi Vidyashram,Ernakulam  
2016-2018  
St. Ignatious senior secondary school,Ernakulam.  
2019-2024  
Bachelor in Architecture (**7.33** CGPA)  
Asian School Of Architecture and Design Innovations, Cochin under Mahatma Gandhi University

+91-9495179332

cyriacbiju1999@gmail.com

Kandathumthodukayil(H) Udayamperoor P.O  
Puthiyakavu,Ernakulam

## WORKSHOPS

- rhino and grasshopper - Ar Liya Sunny
- grasshopper workshop - Ar Pratheek Sudhakaran
- sustainable building materials & tecnolgy - Uravu

## SKILLS

concept generation  
visualisation  
critical thinking  
problem solving  
team work  
model making  
drafting

## SOFTWARE PROFICIENCY

### Rendering



**ENSCAPE**

LUMION

### 3-d modeling



**SketchUp**

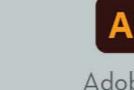
### Drafting



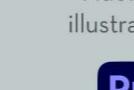
**R**  
revit

auto cad

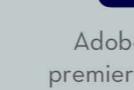
### Graphics



**Ai**  
Adobe  
illustrator



**Pr**  
Adobe  
premier pro



## COMPETITIONS

post pandemic architecture  
(IIA Karnataka chapter)

## INTRESTS

photography  
sketching  
travelling  
playing football  
badminton  
music  
dance

## EXPERIENCE

**make.inc** (internship)  
june 2023- oct 2023

Freelance work 2022 onwards

Assisting **national in-exterios-**  
2023 november onwards

Junior architect at **charankattu  
builders**, 2024 dec - present

- LANGUAGES  
English / Hindi / Malayalam
- INFO- DOB -24/11/1999

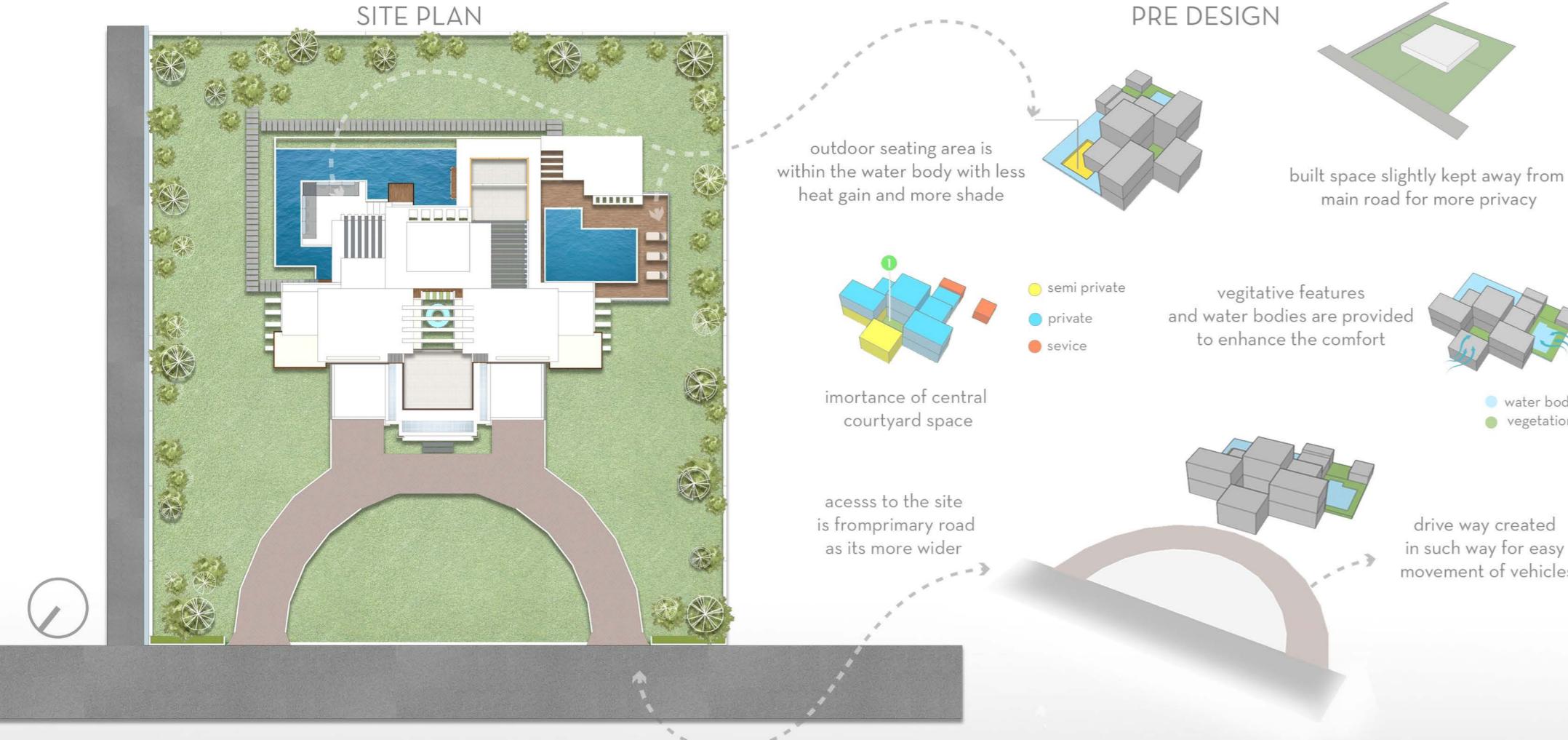
“Tranquility”



**project type** - Residential project

**area**- 4000 sq ft

📍 Silver sand island, Ernakulam, Kerala



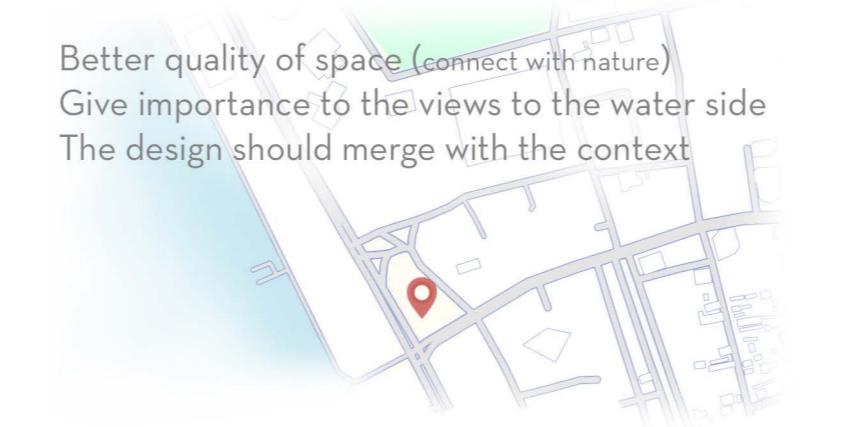
ELEVATION



**PRE DESIGN**

The building incorporates inter relationship between public, semi public & private space

Better quality of space (connect with nature)  
 Give importance to the views to the water side  
 The design should merge with the context

**CLASSIFICATION OF SPACES**

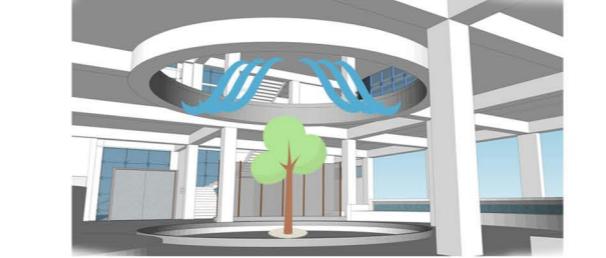
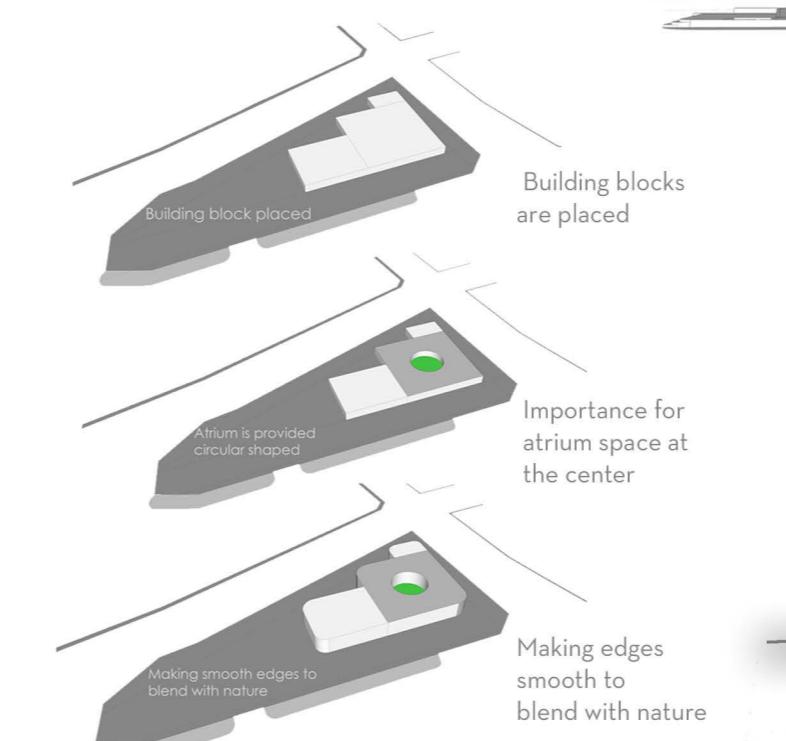
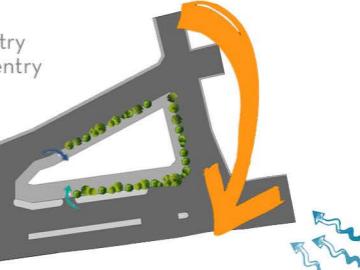
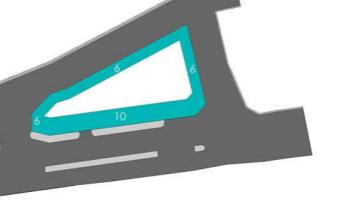
**PRIVATE**  
 service apartments  
 club house

**SEMI PUBLIC**  
 co-working space

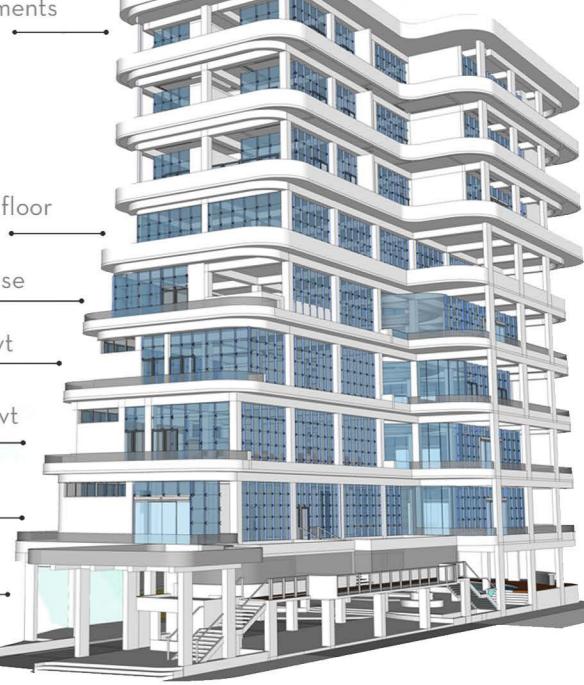
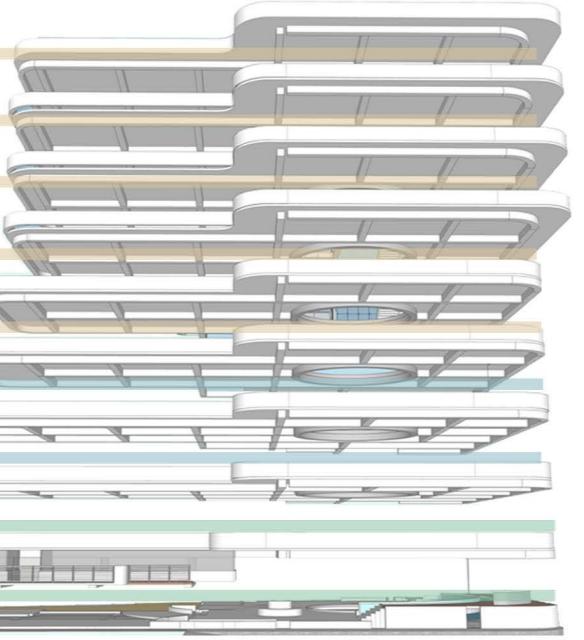
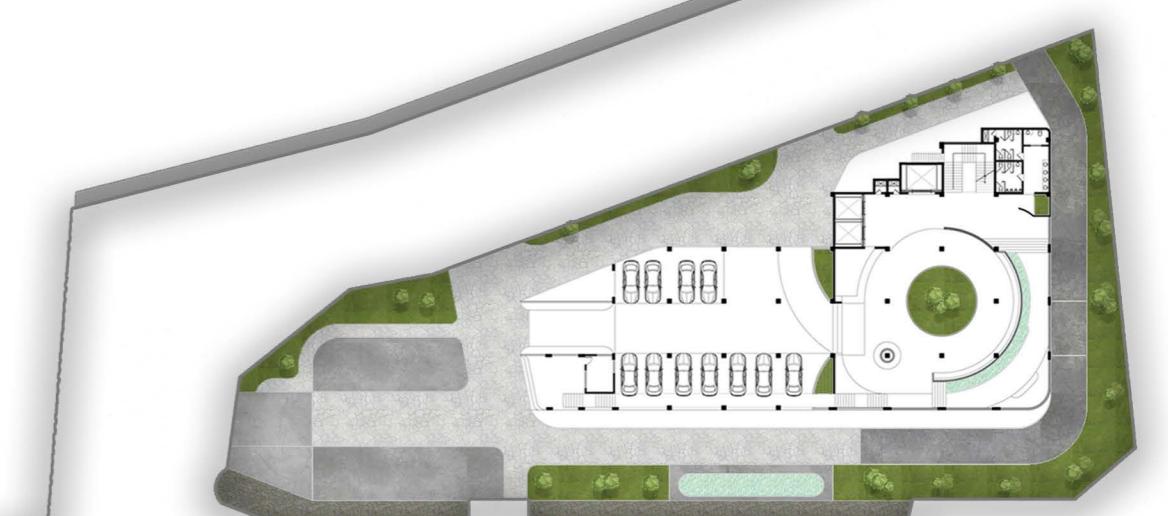
**PUBLIC**  
 restaurant  
 recreation areas

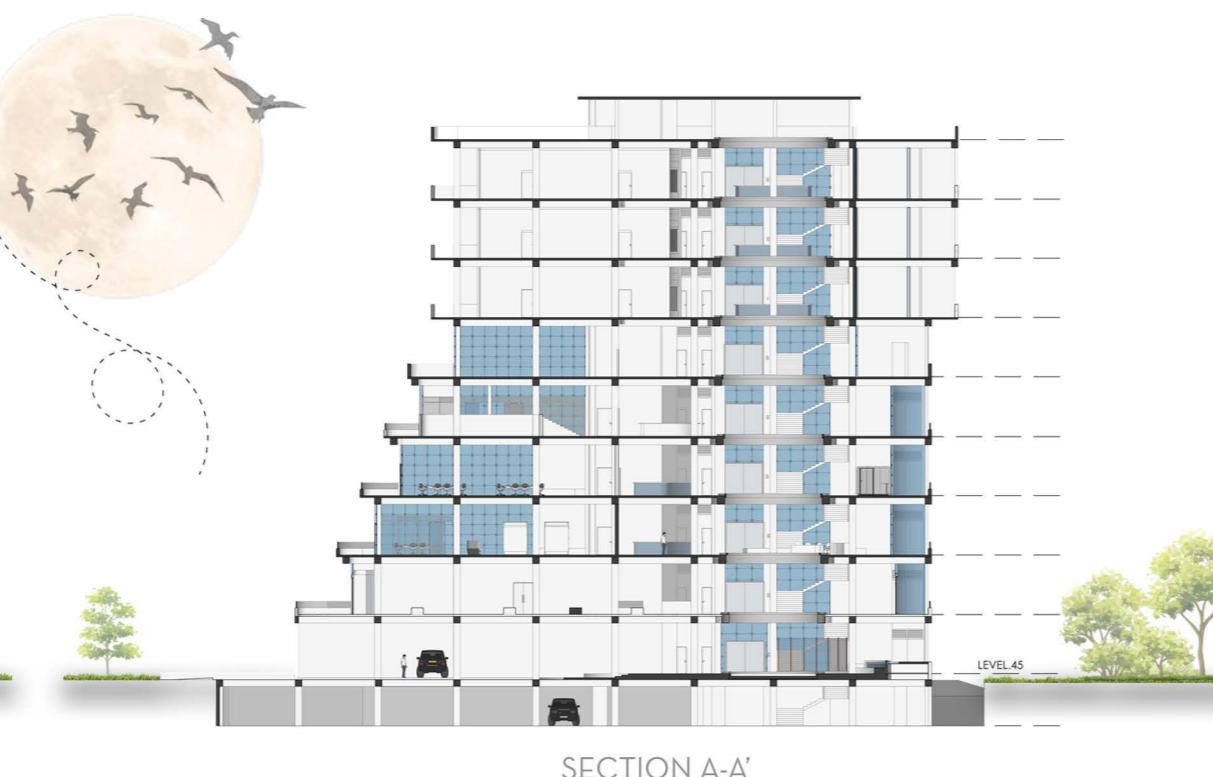
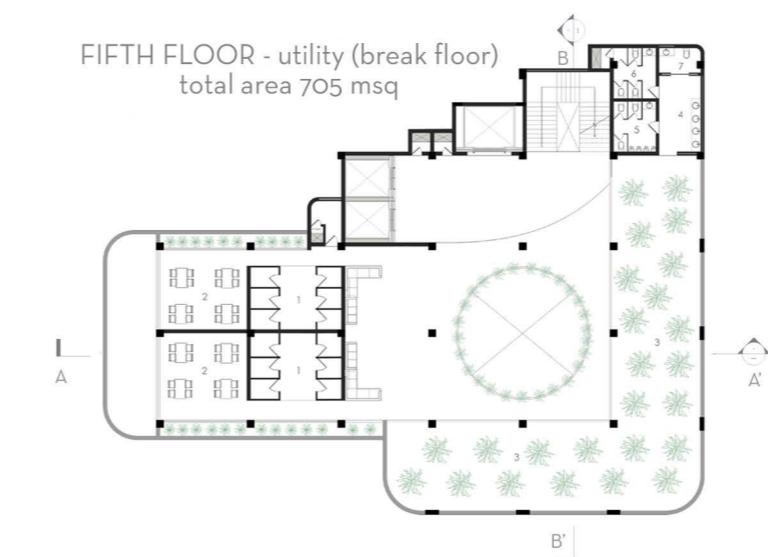
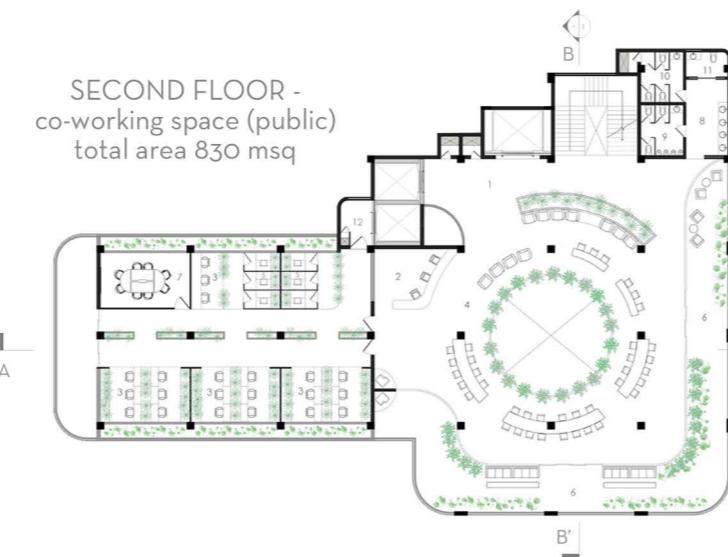
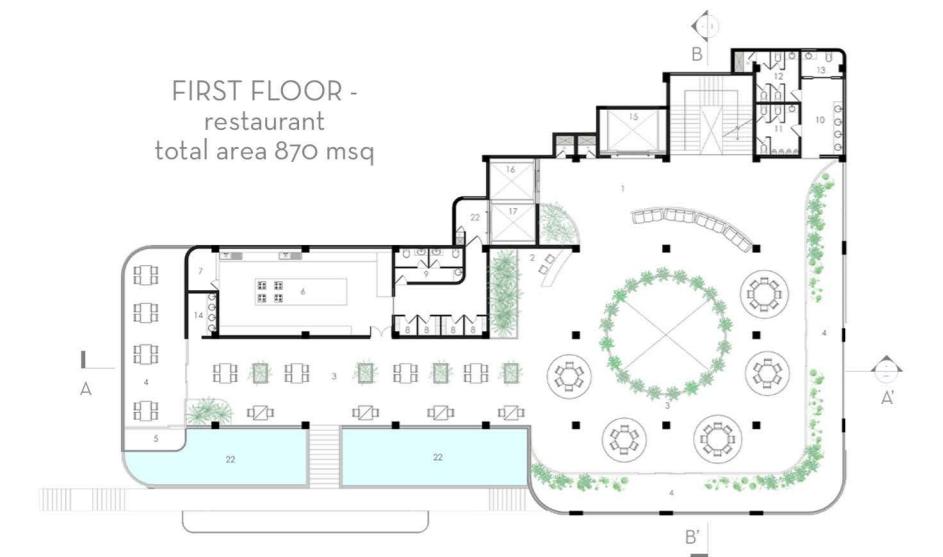
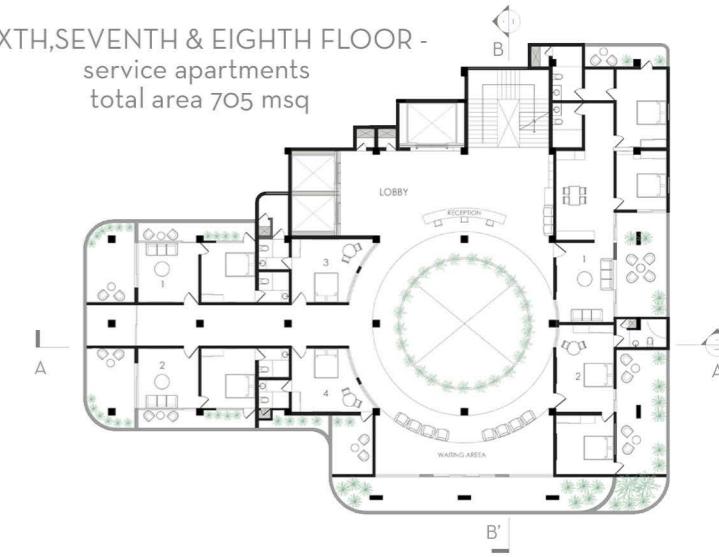
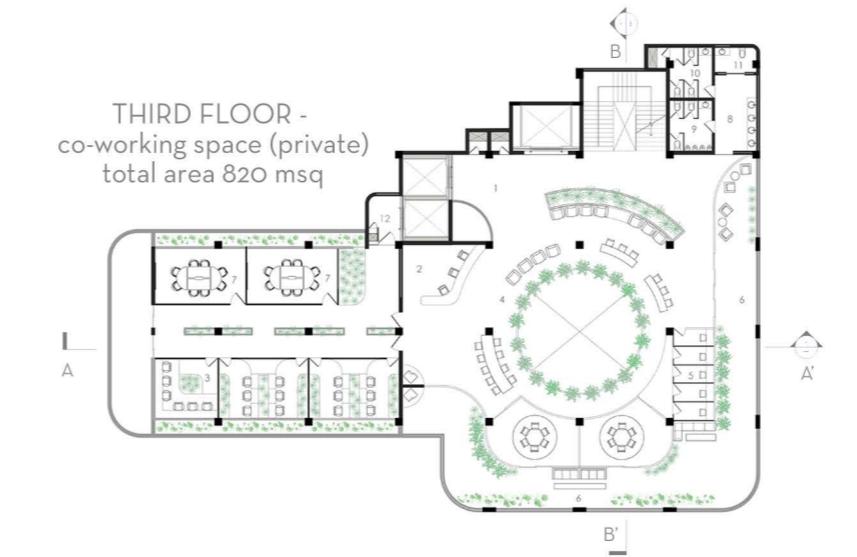
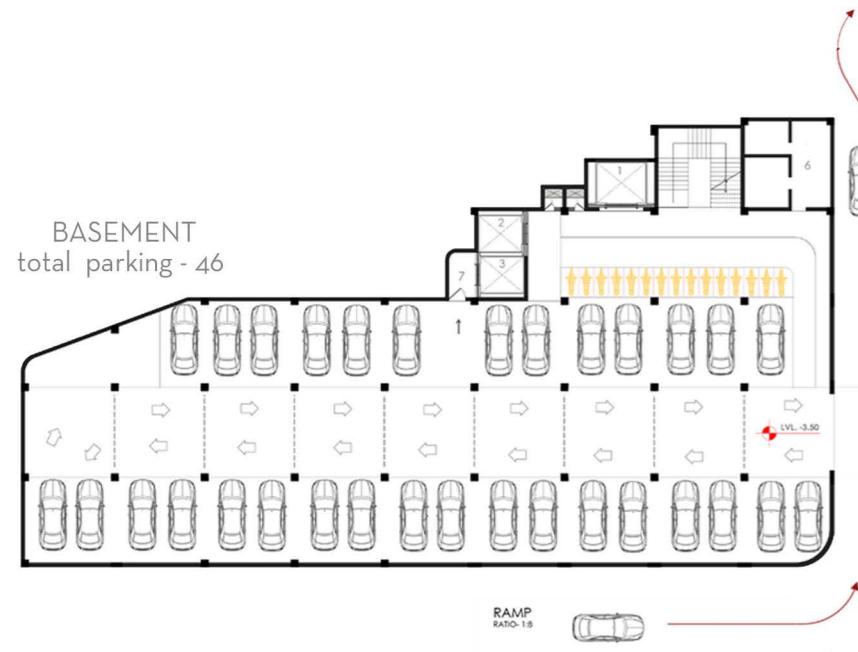
**CONCEPT**

reduce heat gain to internal spaces

**FORM DEVELOPMENT****ZONING**

implementing maximum trees in southern region

**MASTER PLAN**



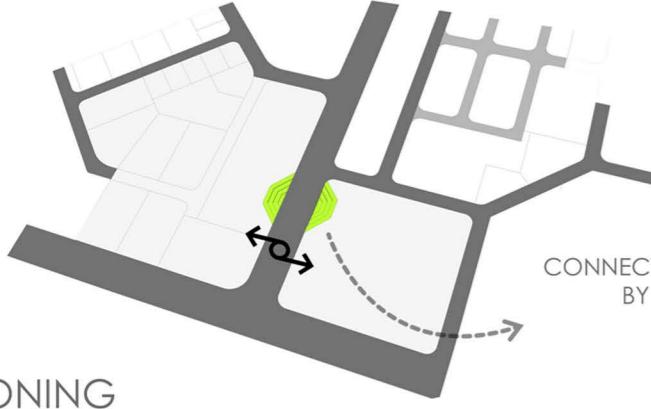
“habitat”



**project type** - Housing

📍 Kharghar , Navi mumbai , Mumbai

## DESIGN



## ZONING



## CONCEPT

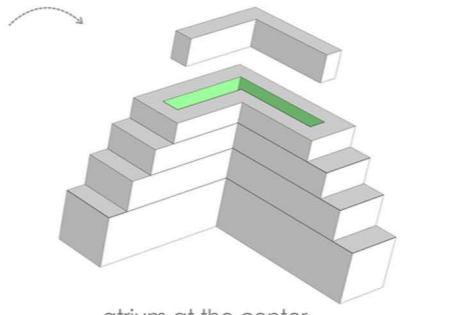
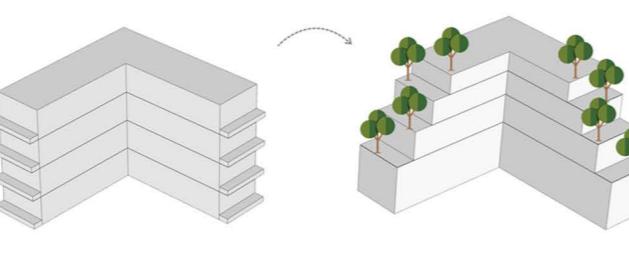
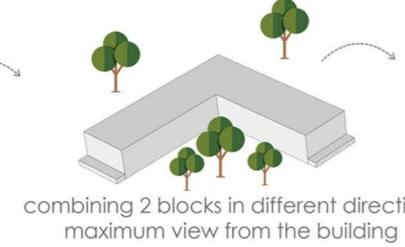
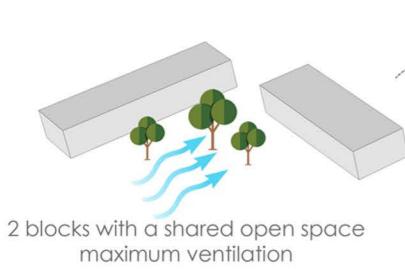


AFFORDABILITY

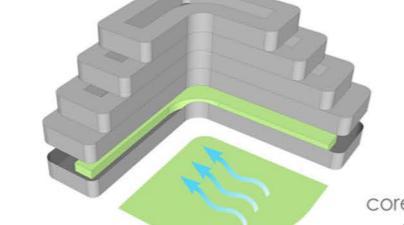
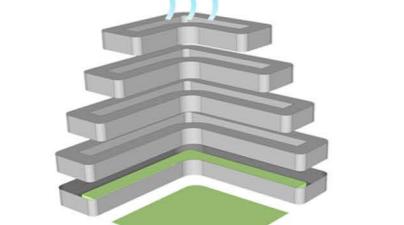
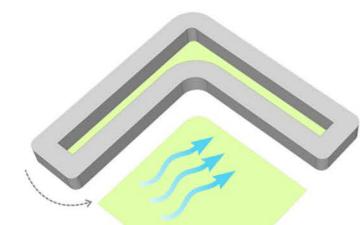
ELECTRICITY GENERATION  
PREFABRICATED UNITS



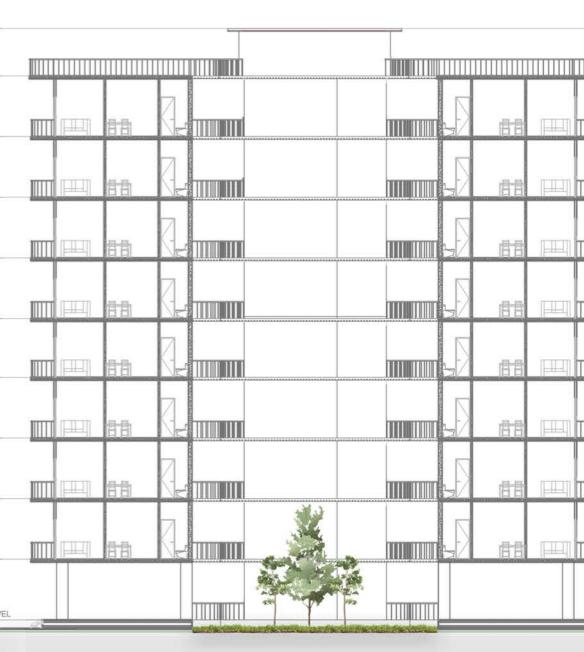
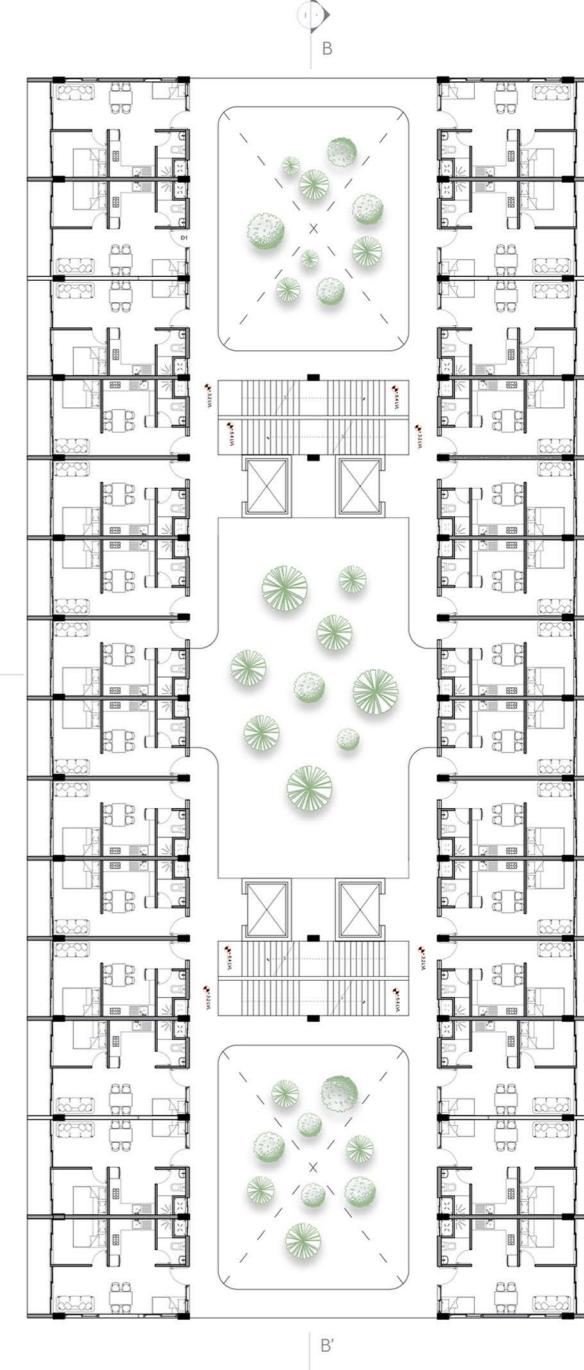
## FORM DEVELOPMENT



EDGES ARE CURVED TO BLEND MORE WITH NATURE



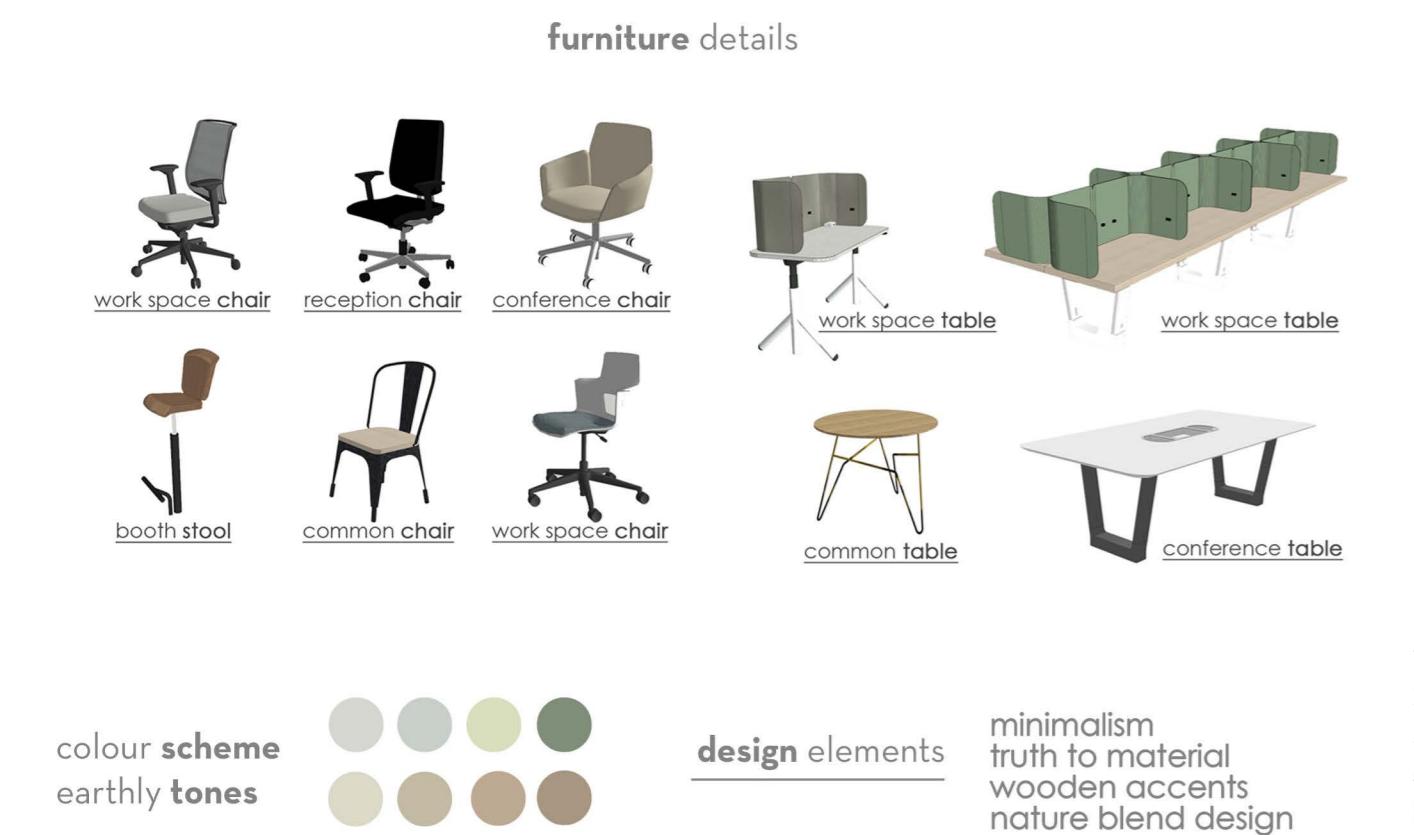
dwellings - prefabricated



section b-b'

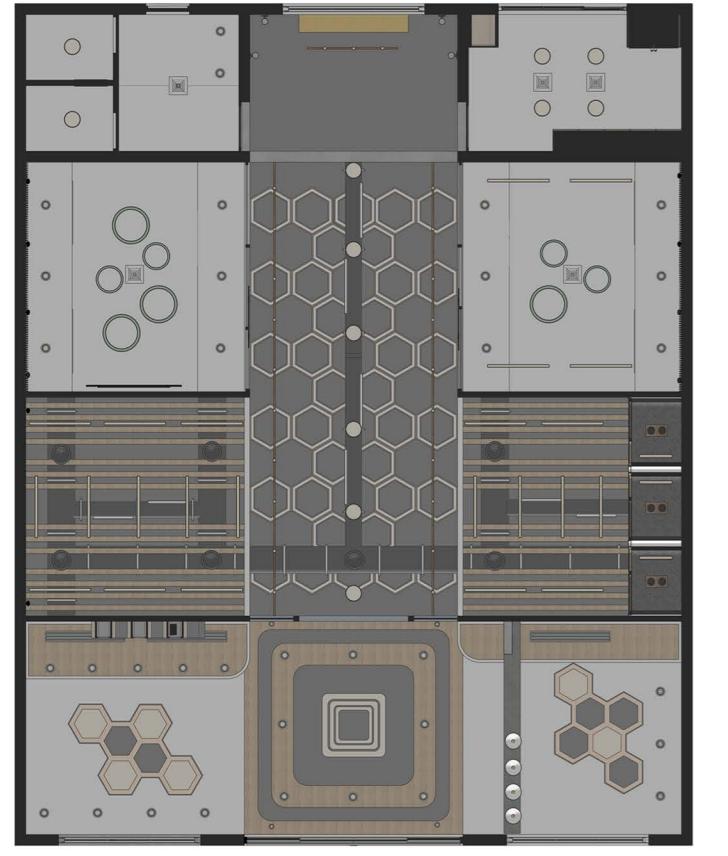
section a-a'



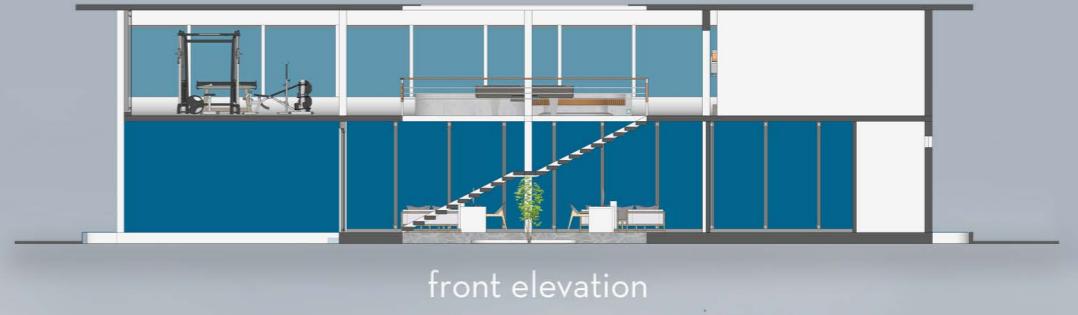
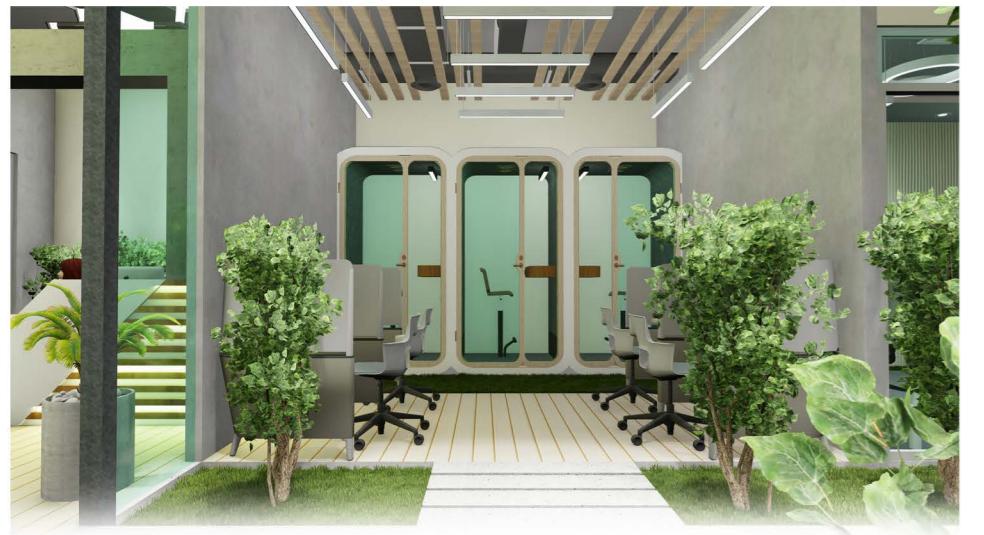
**LEGENDS**

- 1.reception - 2.65x3.9
- 2.lobby-4.65x3.9
- 3.common seating -4.1x3.9
- 4.public work space-4.1x4
- 5.booth-0.95x1.1
- 6.private work space-4.11x4.2
- 7.conference room-4.1x4.2
- 8.pantry-3.9x2.5
- 9.toilet m&f - 1.7x1.2
- 10.wash room 2.2x2.5

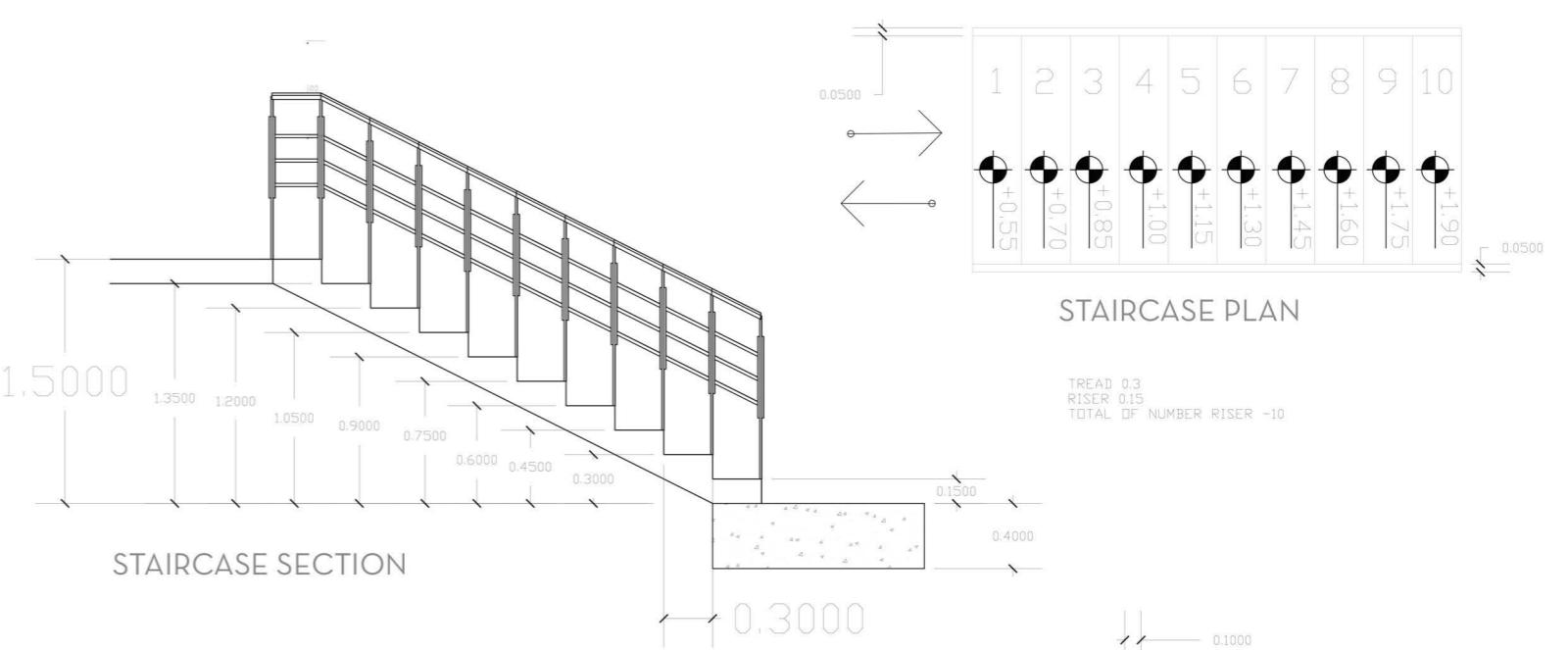
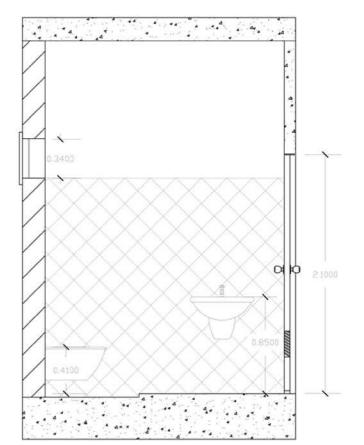
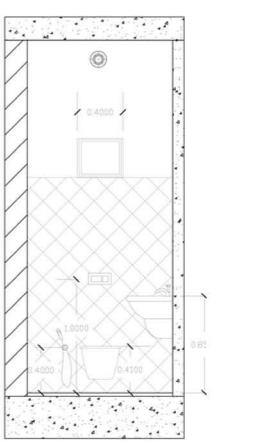
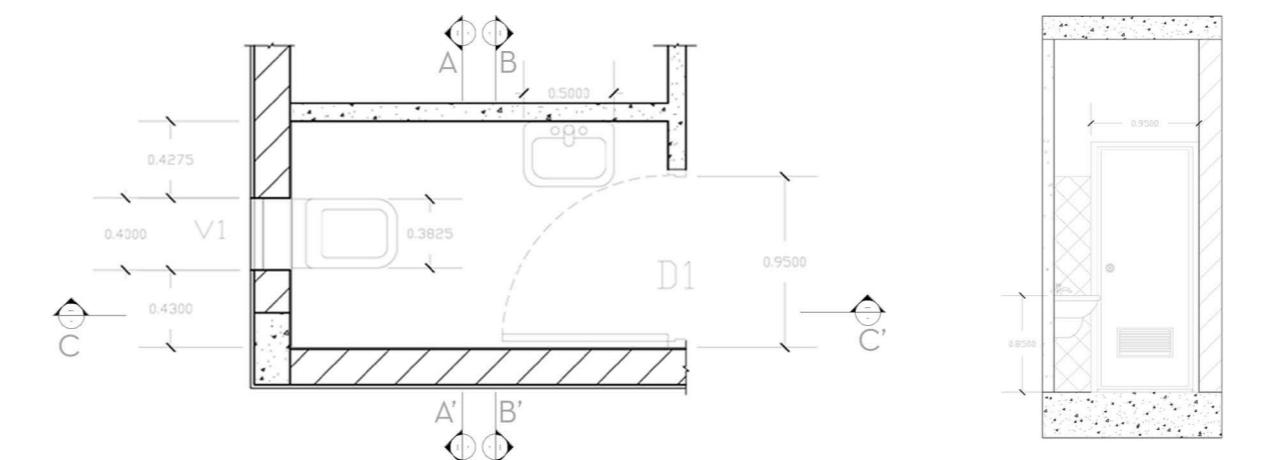
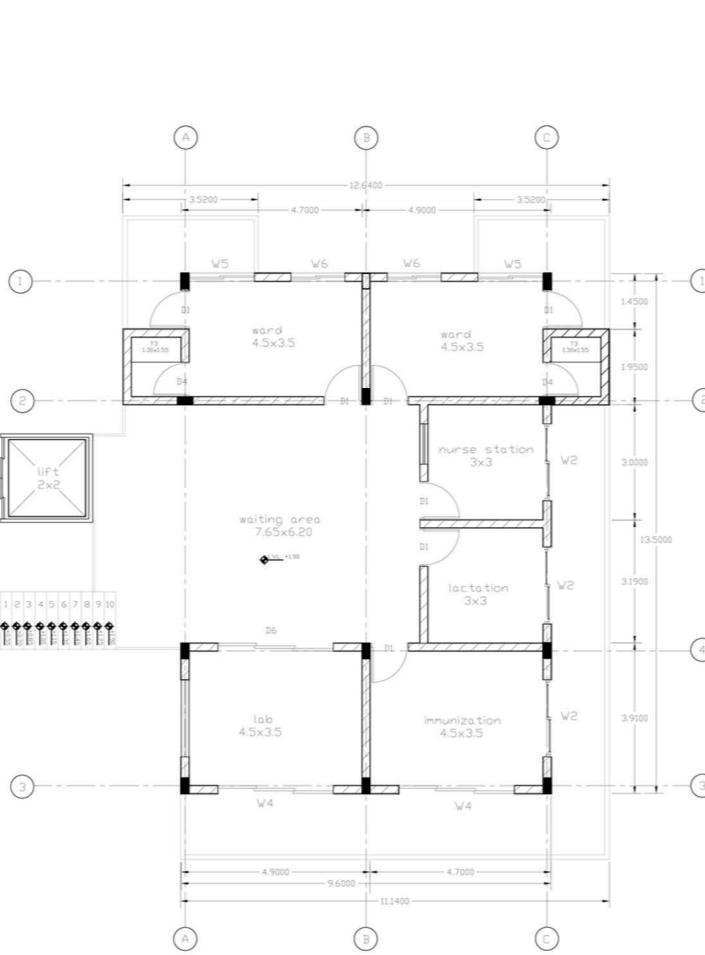
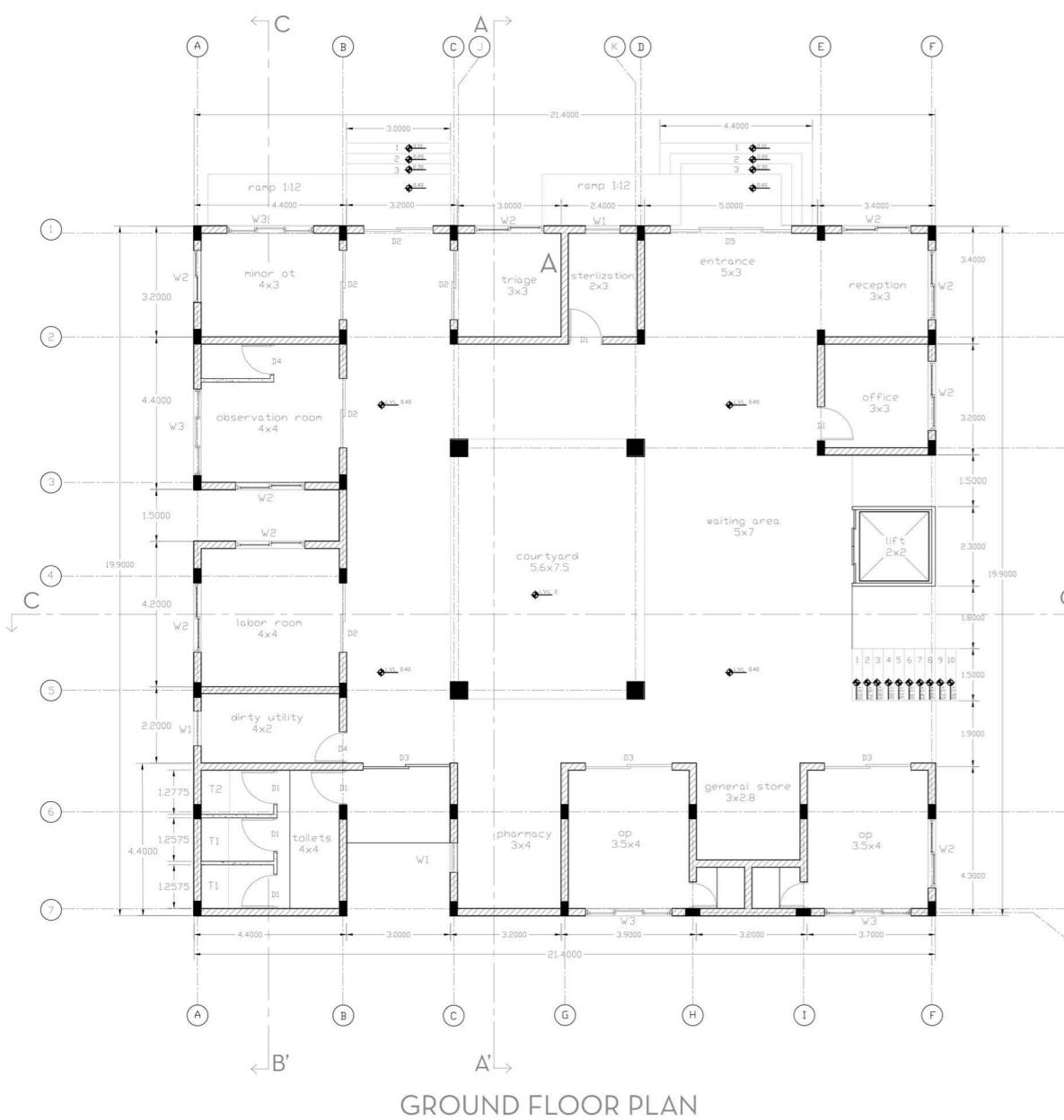
**VIEWS**



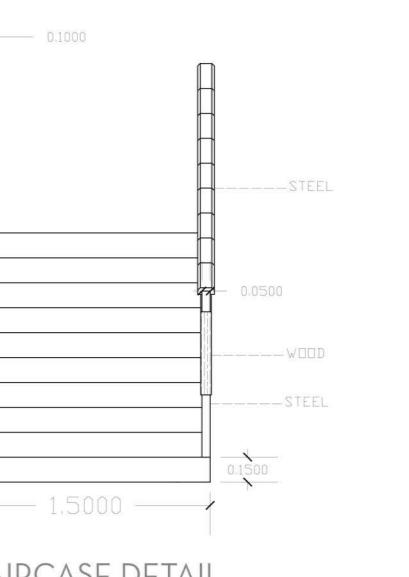
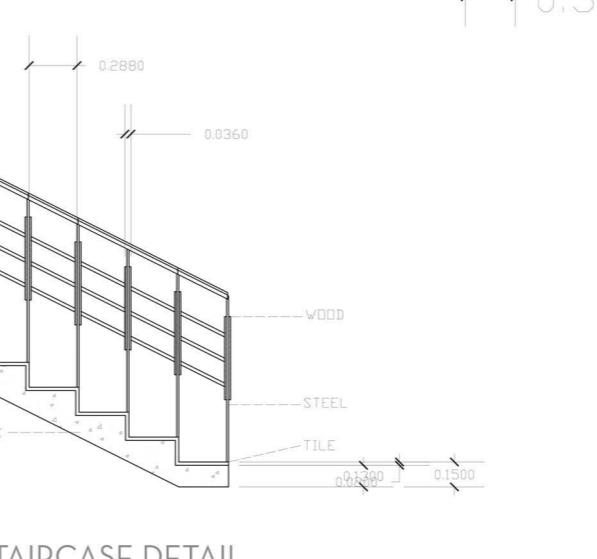
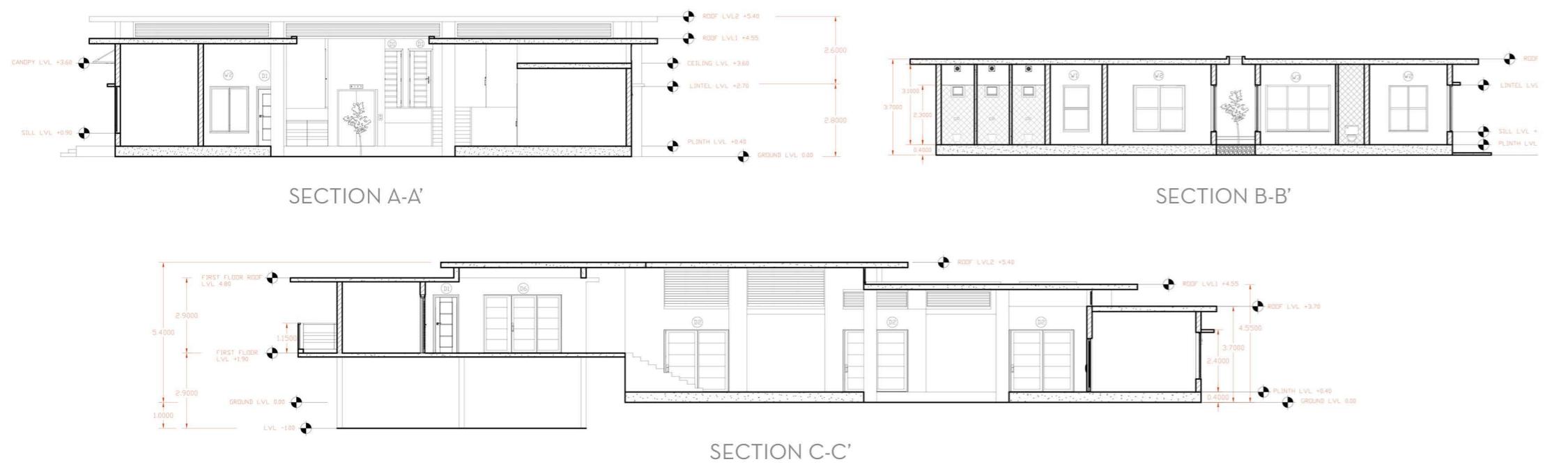
CEILING PLAN

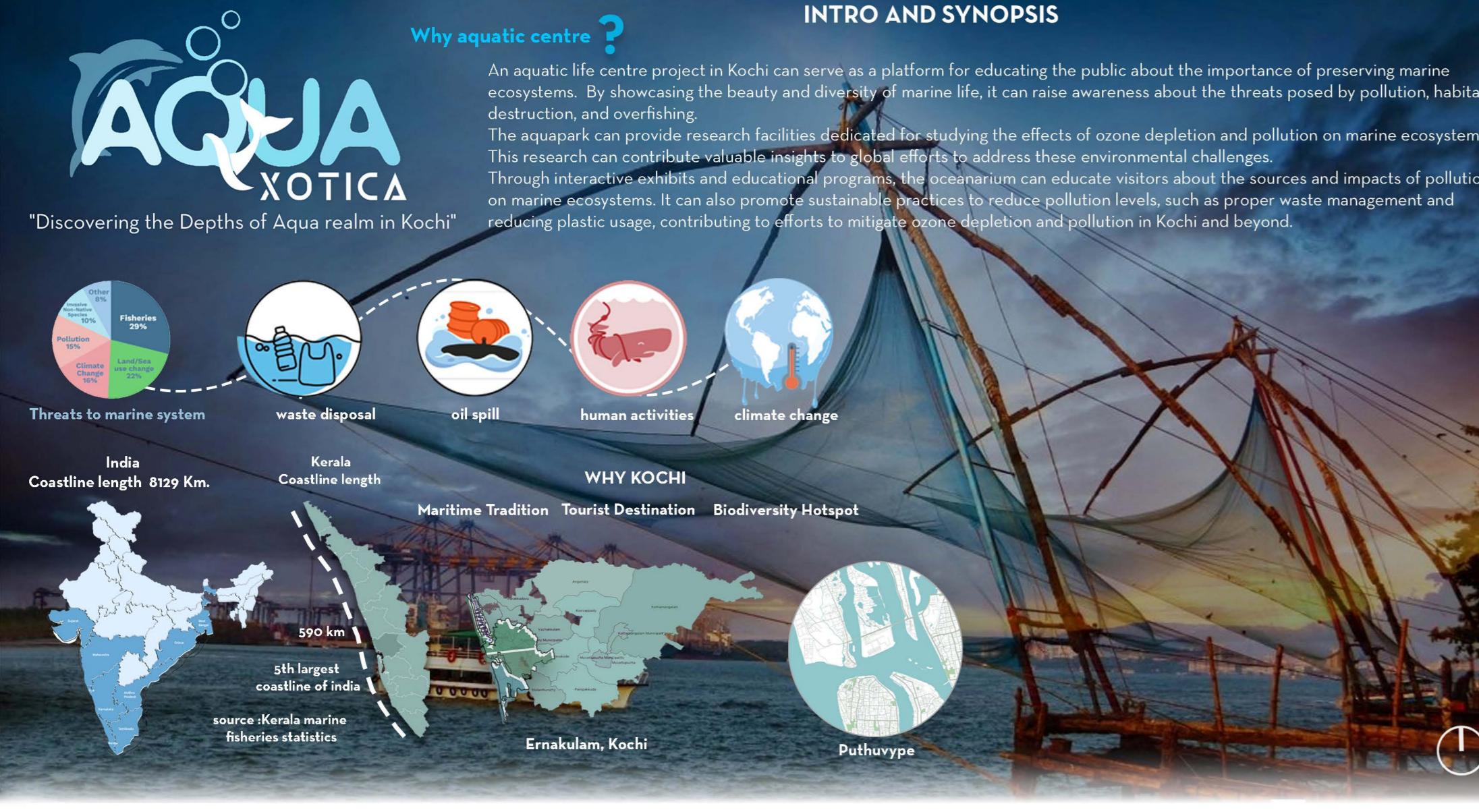






STAIRCASE SECTION



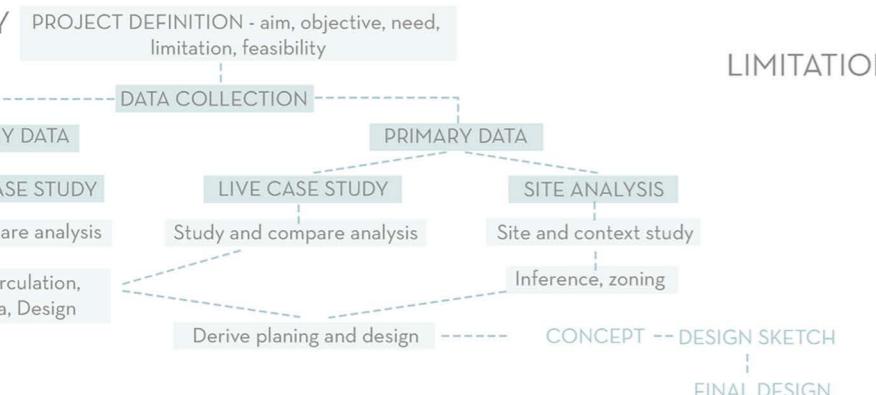


**AIM :** The aim of this architectural thesis project is to design an integrated aquapark in Kochi, harmonizing marine conservation, sustainable architecture, and immersive visitor engagement for the city's cultural and economic enrichment.

## SCOPE



## METHODOLGY



## LIMITATIONS :

- Geographic specificity - The study's findings may be specific to Kochi and not applicable elsewhere.
- Data availability - Lack of data limits Kochi ecosystem analysis.
- Uncertainty in future projections - Uncertainties exist in data on Kochi's marine health, climate change, and pollution.
- Stakeholder perspectives - The study may not fully capture the diverse perspectives and interests of stakeholders, including local communities, government agencies, industry representatives, and environmental advocacy groups.
- Limitations to access of data privacy security - Methodological limitations, Regulatory and policy context, Ethical considerations

## PROJECT FEASIBILITY

Strategically located in terms of Tourism, market, technology and research activities

Kochi being hub of marine research, Operational perspective, etc. project ability studies shows good opportunities.

A long felt need for high end aquapark project in India



## SITE ANALYSIS

Puthuvype (Puthu vype • New Vypin) is an upcoming major Industrial area in Kochi in the Indian state of Kerala. It is situated 5 km west of High Court Junction

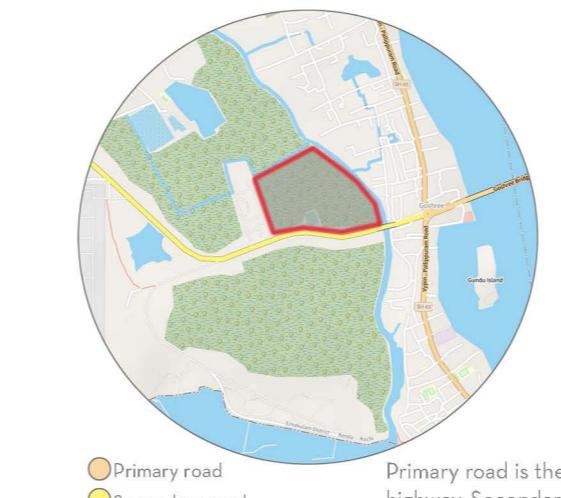


### LOCATION AND SURROUNDINGS

- Puthuvype is a part of Vypin Island.
- It borders Vembanad Lake to the east, Arabian Sea to the west and South and Njarakkal to the North.
- The main thoroughfares in the area are Vypin, Munambam Road and LNG

### INTENSITY OF TRAFFIC

The junction market is the Goshree junction. It is also a fish market. The site can be accessed through ferry and by road



Primary road is the state highway. Secondary road is the road connecting puthuvype to goshree bridge.

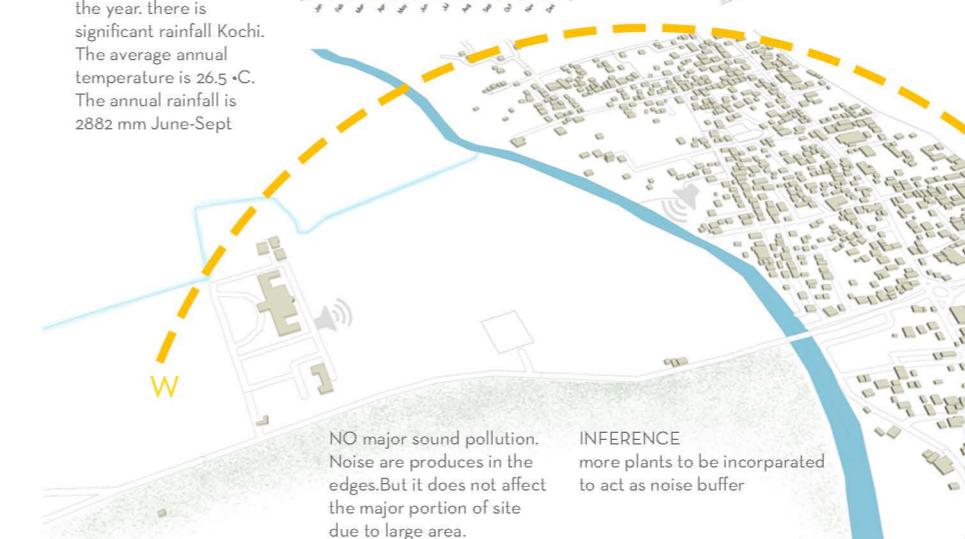
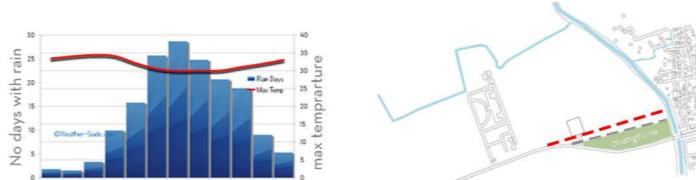


Industries located to Puthuvypeen is mainly related to natural regasification project and petroleum projects. LNG Terminal at Puthuvype The Kochi LNG Terminal of Petronet ING Ltd is the first LNG terminal in southern India and the fourth LNG terminal of country.

DEMOGRAPHY  
As per Government of India Census 2011 Puthuvype has a population of nearly 23,717 people.  
MALES - 48.88%, FEMALES - 51.12%

### CLIMATOLOGY

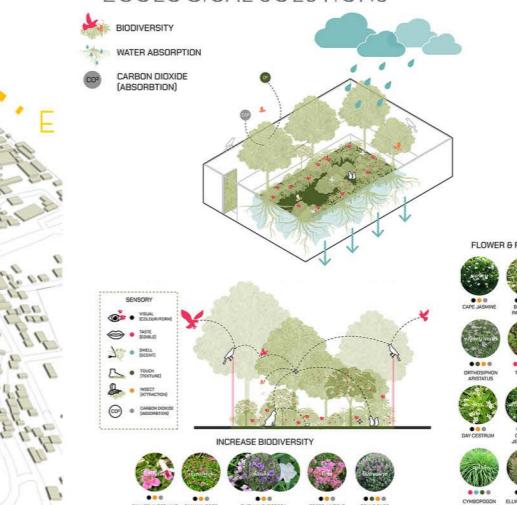
Kochi is 7m above sea level. The climate is tropical in Kochi. During most months of the year there is significant rainfall Kochi. The average annual temperature is 26.5 °C. The annual rainfall is 2882 mm June-Sept



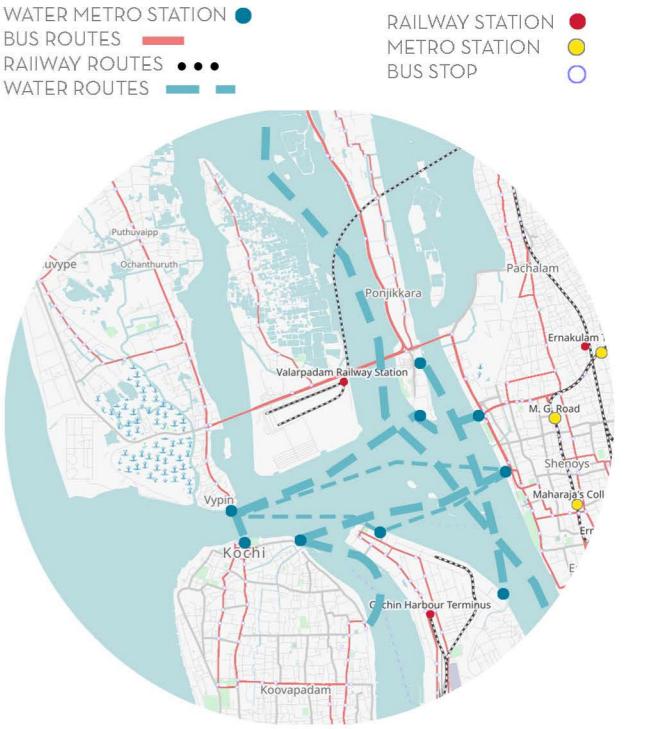
### CRZ RULES

Mangroves - Ecologically sensitive ecosystem are categorized as CRZ IA. A protective buffer zone of 50m is provided around the mangrove ecosystems having an area of more than 1000m<sup>2</sup> and are categorized as CRZ 1

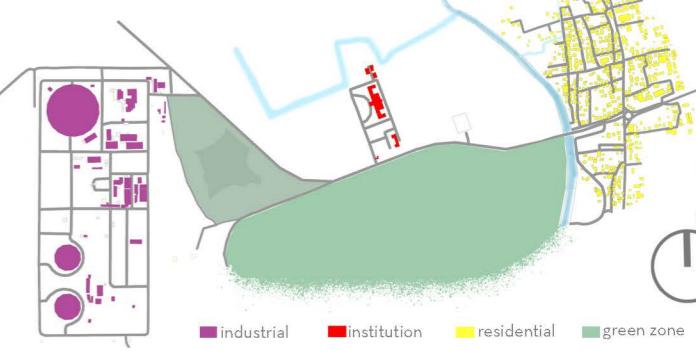
### ECOLOGICAL SOLUTIONS



## CONNECTIVITY

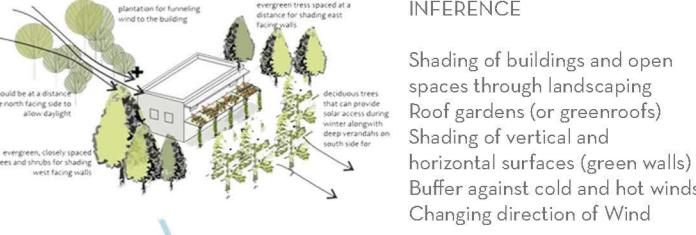


**TYPОLOGY OF CONTEXT**  
The site has residential as well as industrial buildings in the immediate context.

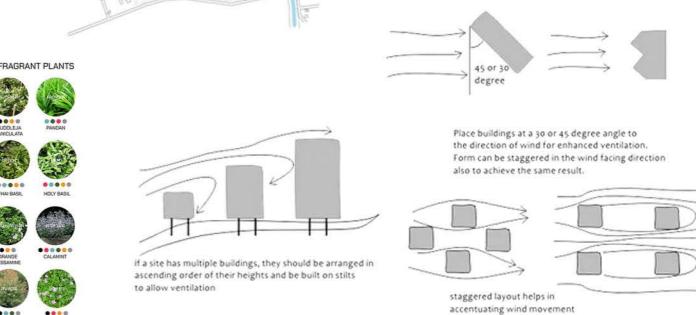


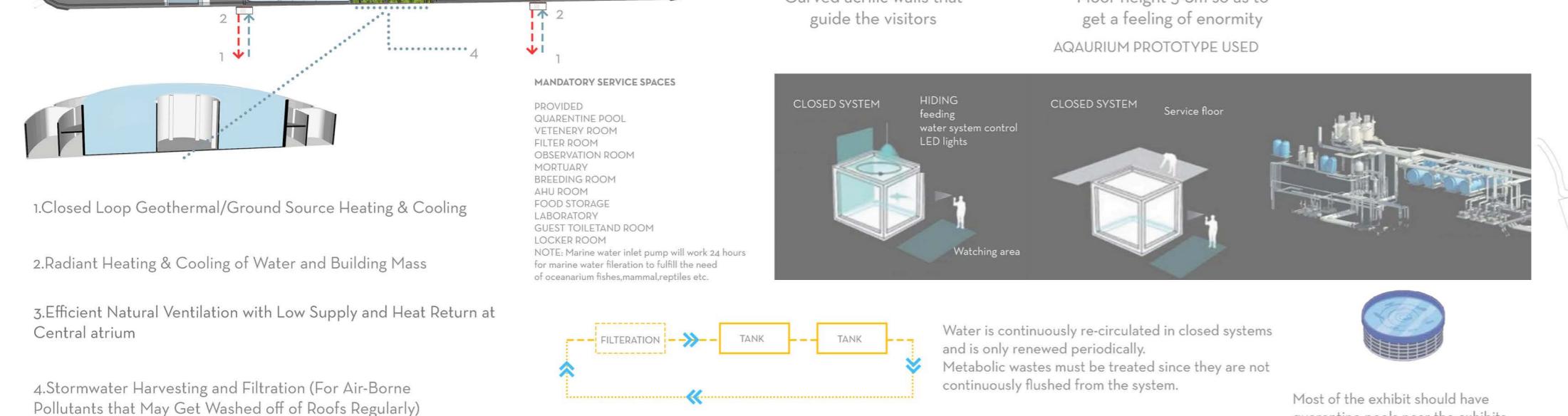
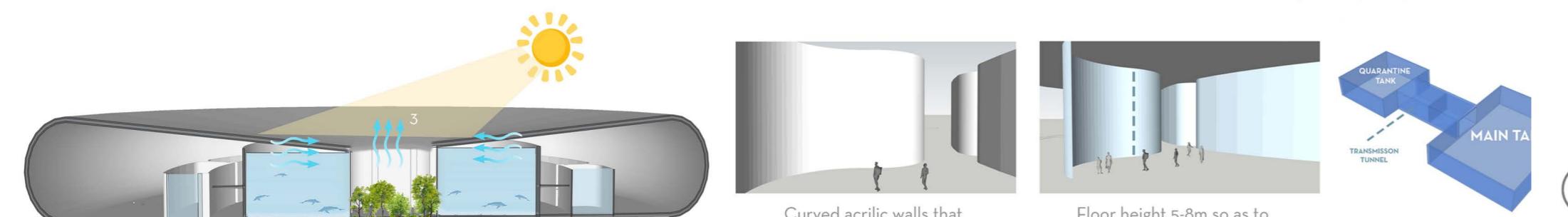
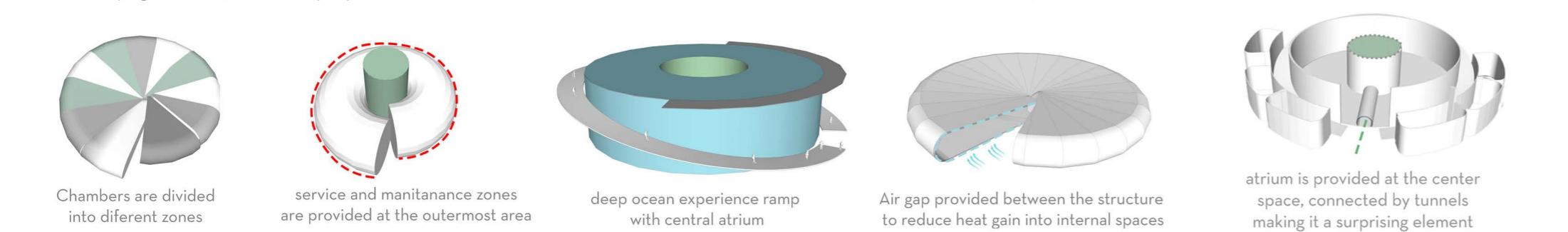
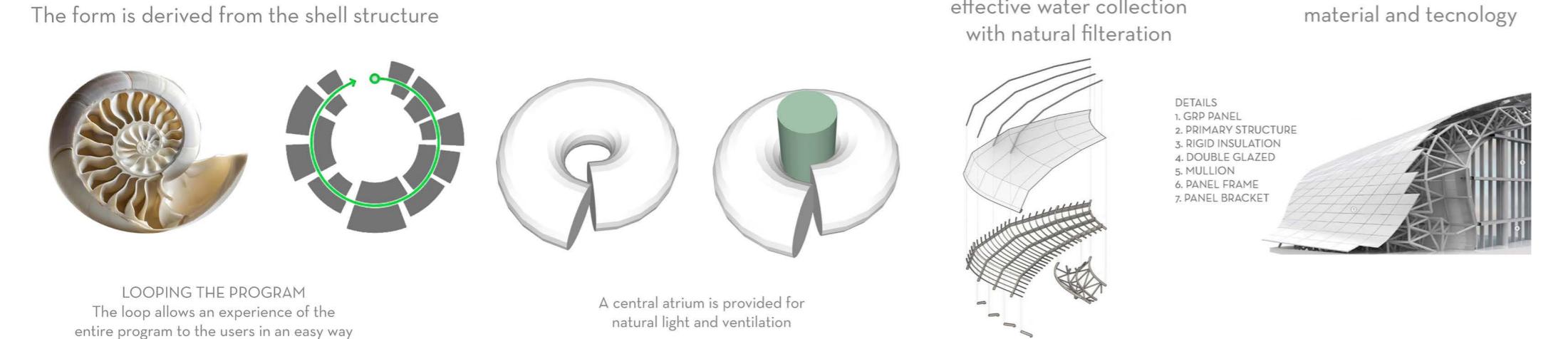
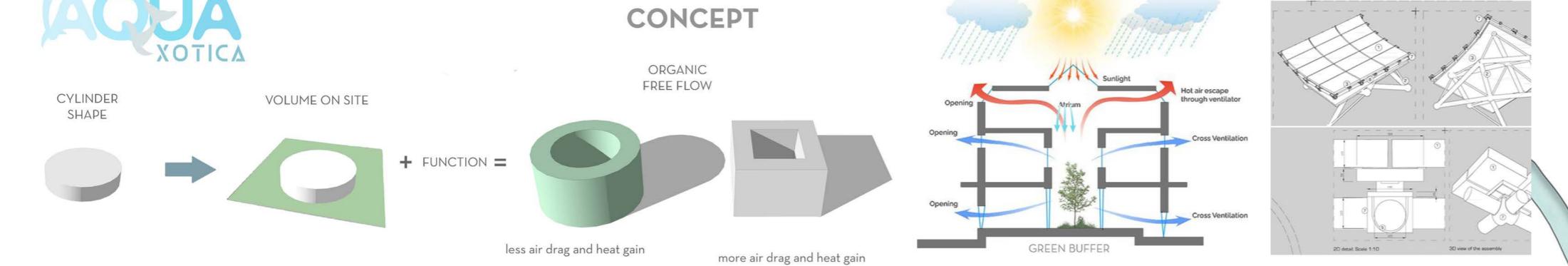
### INFERENCE

The project shall give spaces and activities to incorporate the people using the institute and as well living there,



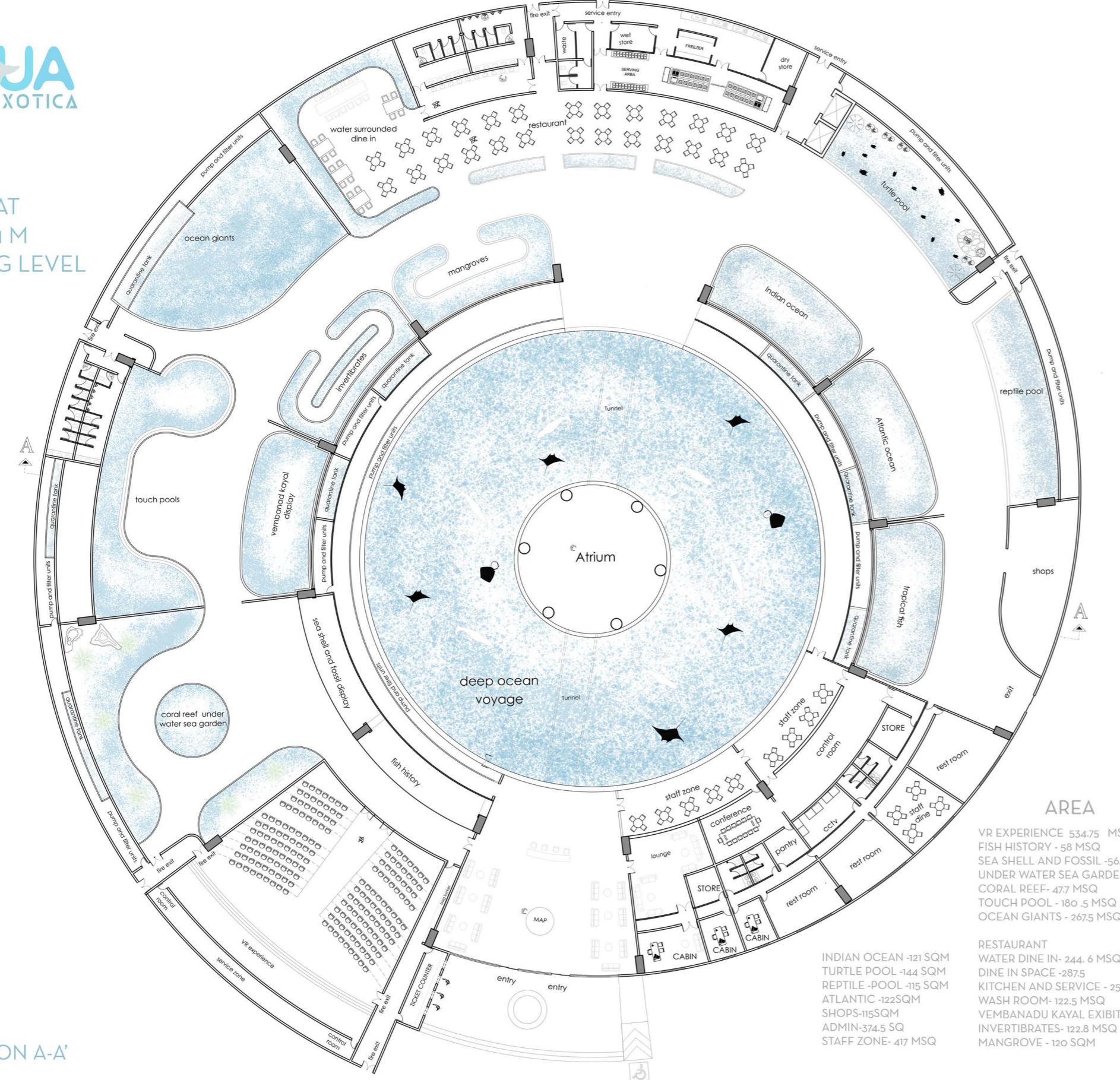
longer sides of a building oriented North-South which is preferred to minimize overall heat gain



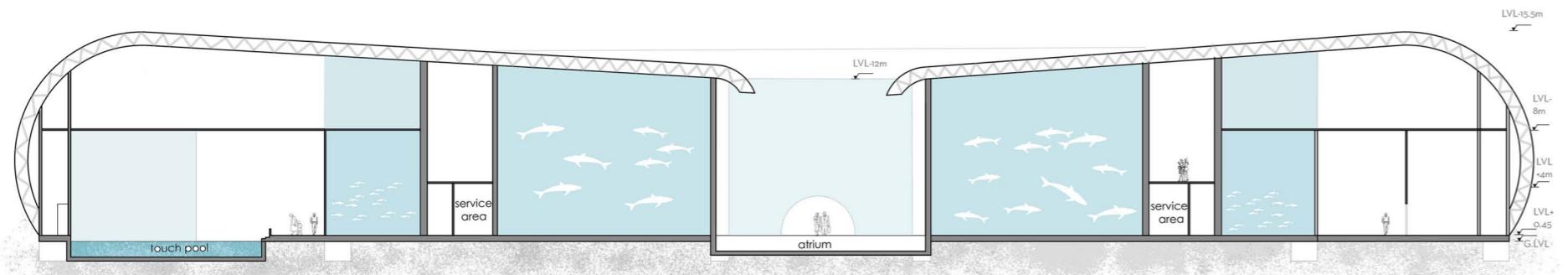




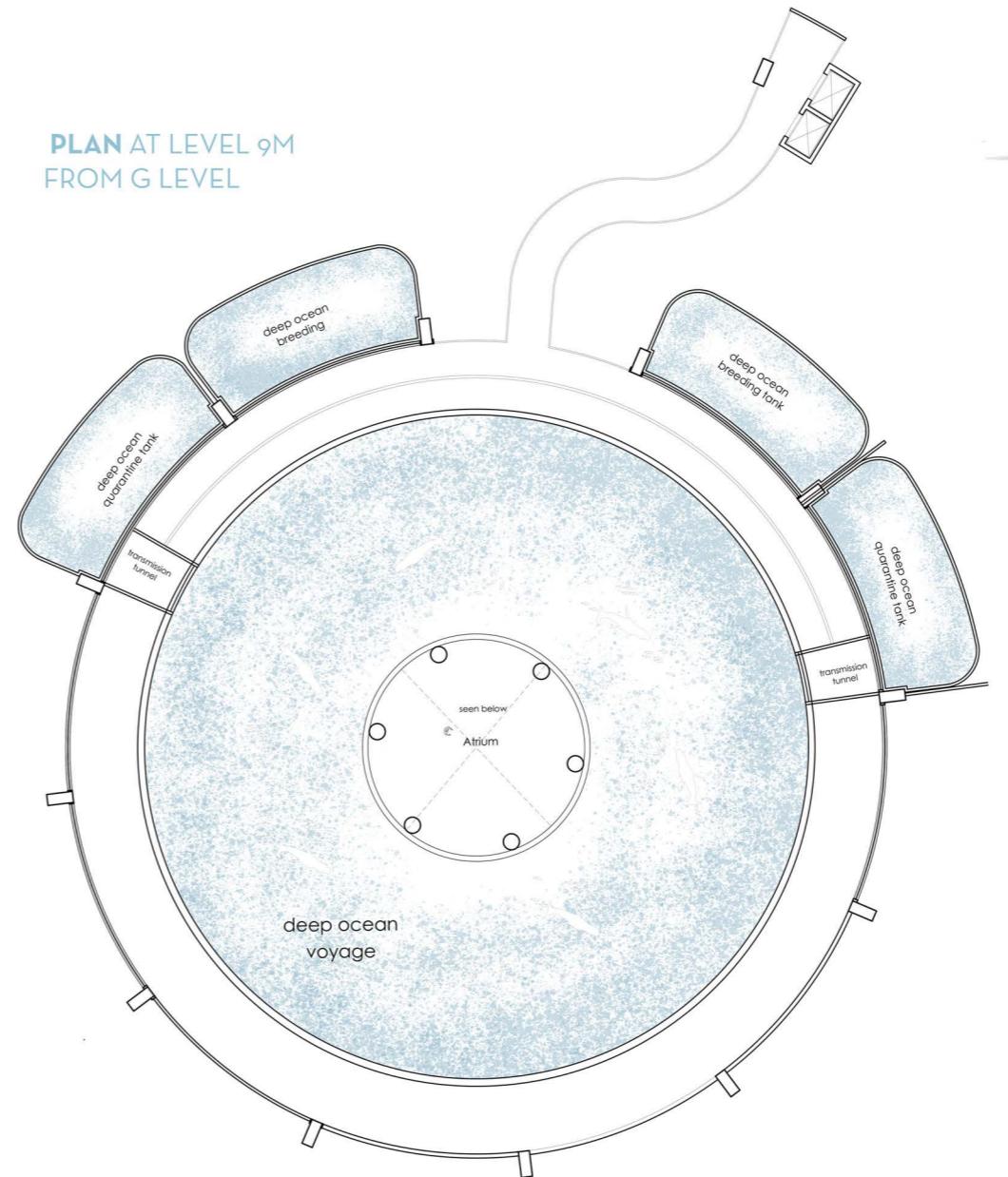
**PLAN AT  
LEVEL 1M  
FROM G LEVEL**



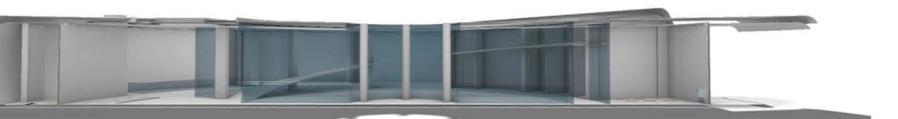
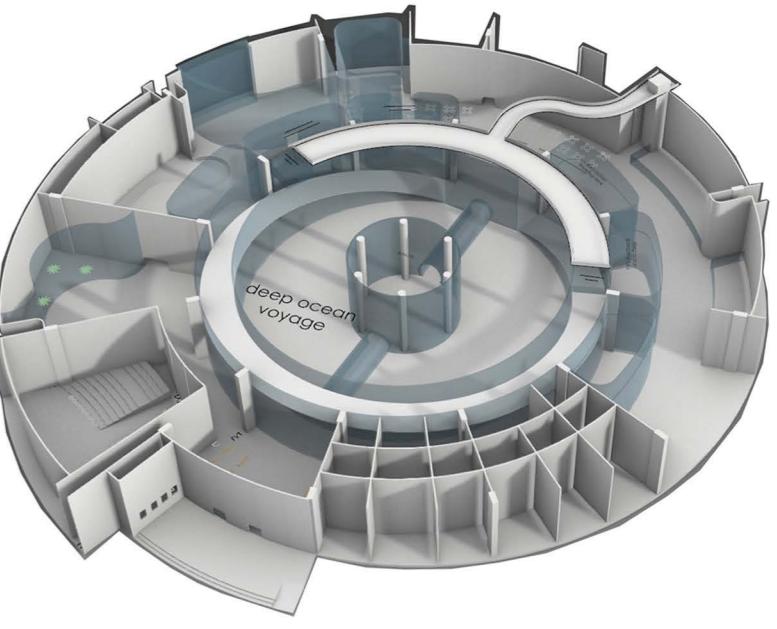
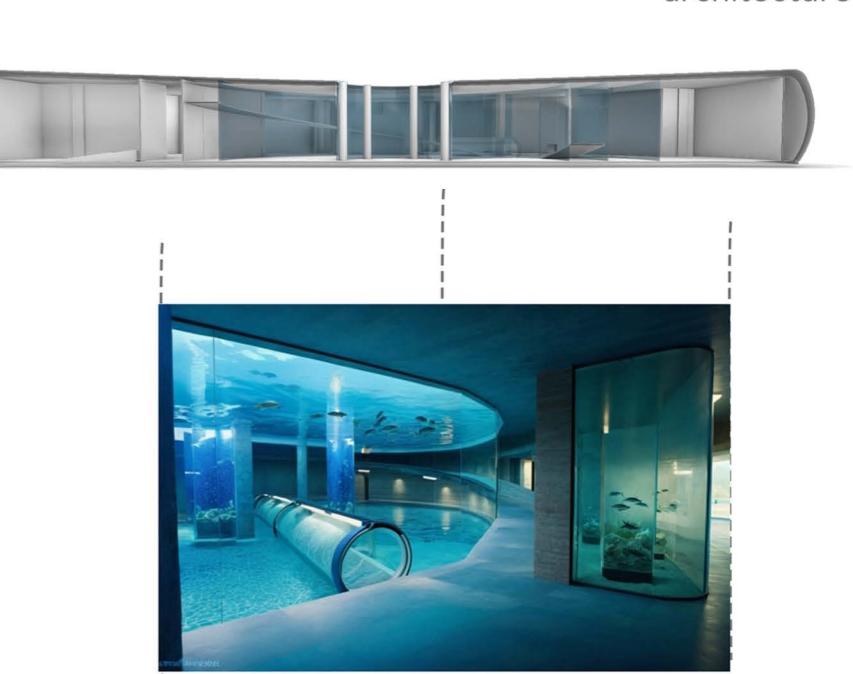
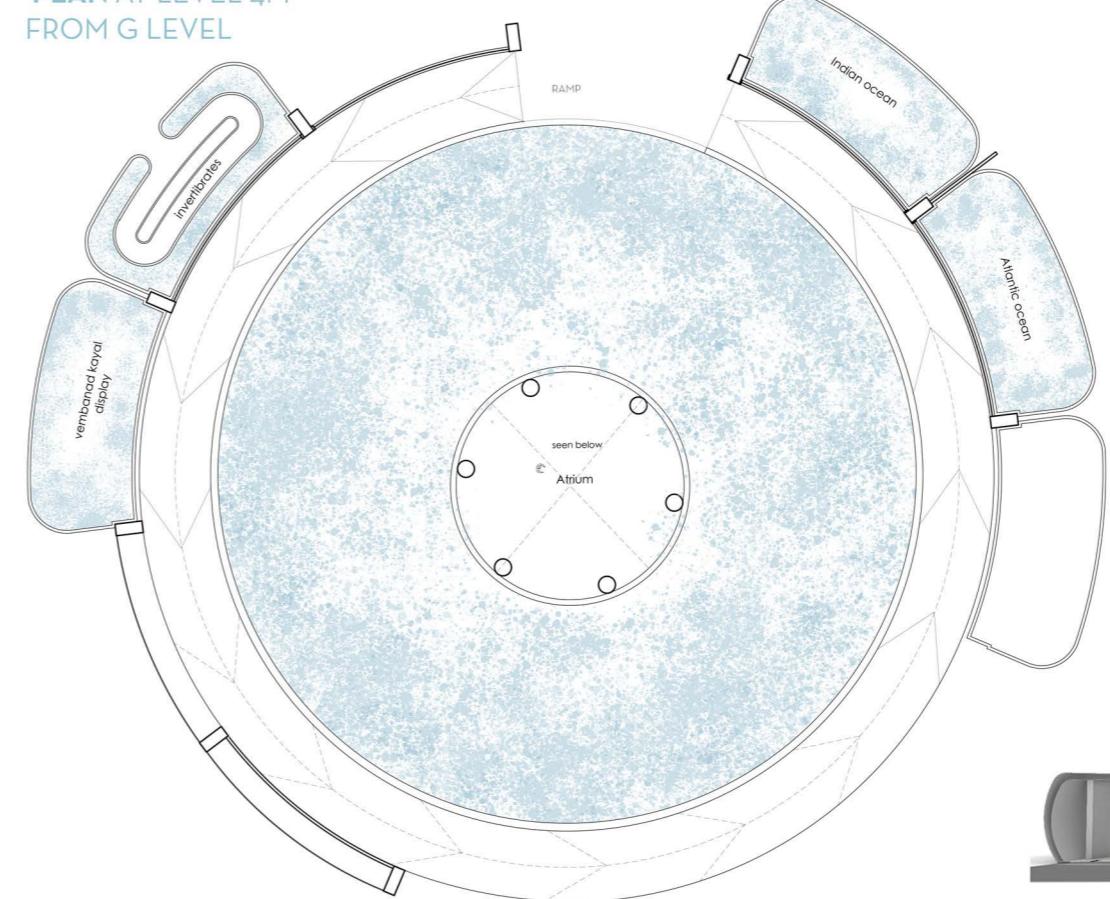
**SECTION A-A'**



**PLAN AT LEVEL 9M  
FROM G LEVEL**



**PLAN AT LEVEL 4M  
FROM G LEVEL**



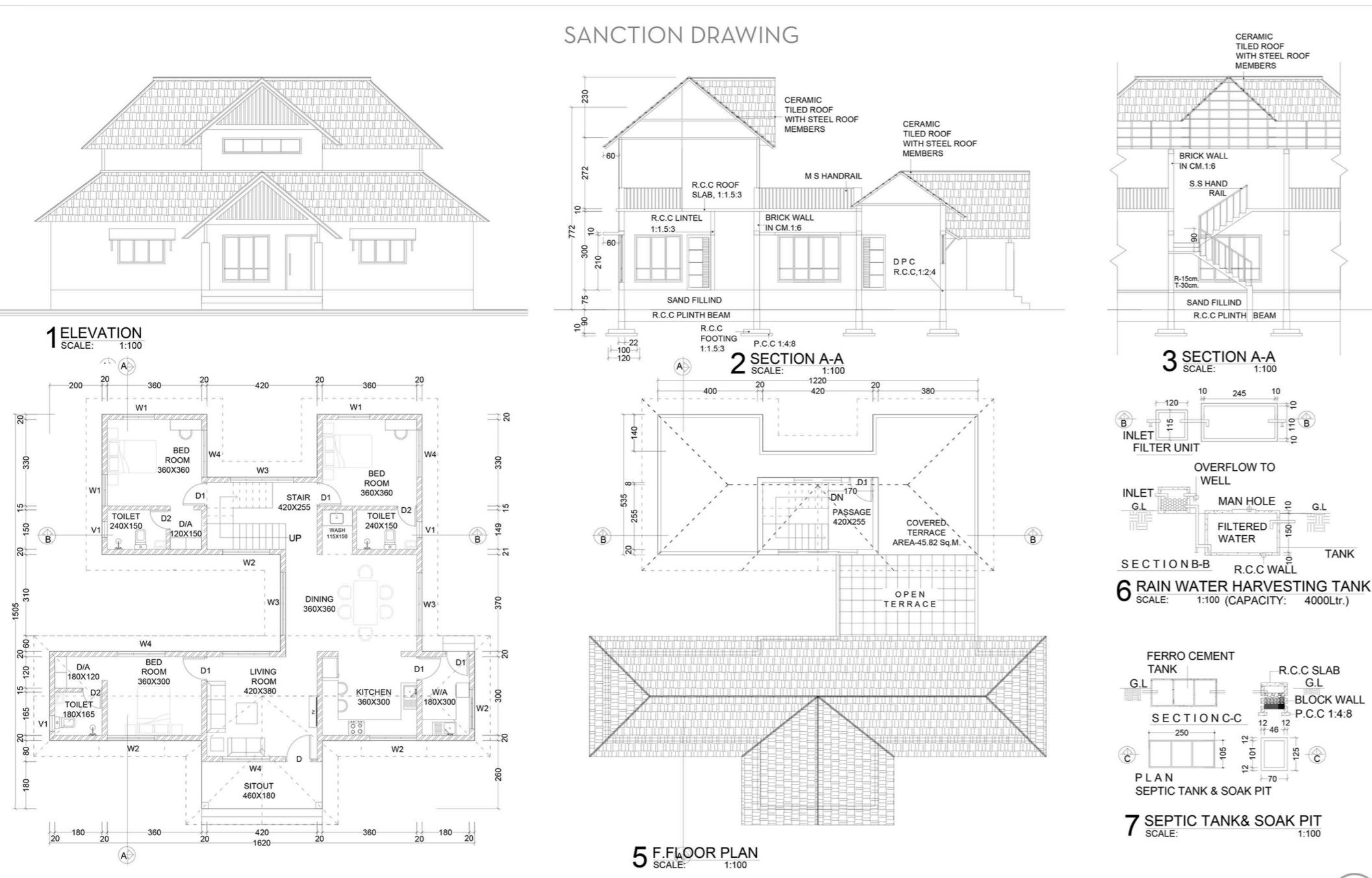
“Hope”



**project type** - Residential project

**area** - 1600sq ft

📍 Thrikkunnappuzha, Alapuzha, Kerala



| DRAWING DETAILS              |                      | PLOT DETAILS               |                    | SCHEDULE OF JOINERY |  | APPLICANT | APPROVED BY | PREPARED BY |
|------------------------------|----------------------|----------------------------|--------------------|---------------------|--|-----------|-------------|-------------|
| FLOOR                        | BUILT UP AREA        | FLOOR AREA                 |                    |                     |  |           |             |             |
| G.FLOOR                      | 142.20m <sup>2</sup> | 138.06m <sup>2</sup>       |                    |                     |  |           |             |             |
| F.FLOOR                      | 13.57m <sup>2</sup>  | 13.57m <sup>2</sup>        |                    |                     |  |           |             |             |
| F.FLOOR TRUSS (COVERED AREA) | 45.82m <sup>2</sup>  | 22.91m <sup>2</sup>        |                    |                     |  |           |             |             |
| TOTAL                        | 201.59m <sup>2</sup> | 174.54m <sup>2</sup>       |                    |                     |  |           |             |             |
| COVERAGE AREA- 7.61 %        | 142.20m <sup>2</sup> | EXTENT- 1869m <sup>2</sup> |                    |                     |  |           |             |             |
| SCALE                        | FLOOR PLAN 1:100     | SITE PLAN 1:400            | SERVICE PLAN 1:200 |                     |  |           |             |             |

ALL DIMENTIONS ARE IN CMS.



### ELECTRICAL PLAN

All dimensions are in CM

| S.NO | ITEM           | PARTICULAR | 09                    | 16 amp SOCKET |
|------|----------------|------------|-----------------------|---------------|
| 01   | SWITCH         | 10         | strip light           |               |
| 02   | 6 amp SOCKET   | 11         | Hanging lights        |               |
| 03   | Ceiling points | 12         | Electrical point      |               |
| 04   | WLAN           | 13         | AC point              |               |
| 05   | Mirror light   | 14         | Wall mount spot Light |               |
| 06   | 2 Way switch   | 15         | Master switch         |               |
| 07   | 16 amp switch  | 16         | exhaust vent          |               |
| 08   | Dish tv cable  | 17         | low level wall light  |               |

| SLNo | Switch Board | Switches                 | Level from floor | Module |
|------|--------------|--------------------------|------------------|--------|
| 1    | SB1          | 222222                   | 120 cm           | 4      |
| 2    | SB2          | 111111111111111111111111 | 50 cm            | 10     |
| 3    | SB3          | 111111111111111111111111 | 85 cm            | 7      |
| 4    | SB4          | 111111111111111111111111 | 130 cm           | 6      |
| 5    | SB5          | 111111111111111111111111 | 130 cm           | 7      |
| 6    | SB6          | 111111111111111111111111 | 130 cm           | 4      |
| 7    | SB7          | 111111111111111111111111 | 50 cm            | 6      |
| 8    | SB8          | 111111111111111111111111 | 130 cm           | 1      |
| 9    | SB9          | 111111111111111111111111 | 130 cm           | 7      |
| 10   | SB10         | 111111111111111111111111 | 130 cm           | 4      |
| 11   | SB11         | 111111111111111111111111 | 60 cm            | 4      |
| 12   | SB12         | 111111111111111111111111 | 120 cm           | 2      |
| 13   | SB13         | 111111111111111111111111 | 120 cm           | 4      |
| 14   | SB14         | 111111111111111111111111 | 130 cm           | 6      |
| 15   | SB15         | 111111111111111111111111 | 30 cm            | 4      |
| 16   | SB16         | 111111111111111111111111 | 130 cm           | 2      |
| 17   | SB17         | 111111111111111111111111 | 100 cm           | 5      |
| 18   | SB18         | 111111111111111111111111 | 100 cm           | 4      |
| 19   | SB19         | 111111111111111111111111 | 90 cm            | 6      |
| 20   | SB20         | 111111111111111111111111 | 130 cm           | 3      |
| 21   | SB21         | 111111111111111111111111 | 130 cm           | 3      |
| 22   | SB22         | 111111111111111111111111 | 100 cm           | 3      |
| 23   | SB23         | 111111111111111111111111 | 100 cm           | 3      |
| 24   | SB24         | 111111111111111111111111 | 130 cm           | 11     |
| 25   | SB25         | 111111111111111111111111 | 50 cm            | 4      |
| 26   | SB26         | 111111111111111111111111 | 50 cm            | 14     |
| 27   | SB27         | 111111111111111111111111 | 60 cm            | 5      |
| 28   | SB28         | 111111111111111111111111 | 130 cm           | 3      |
| 29   | SB29         | 111111111111111111111111 | 50 cm            | 8      |
| 30   | SB30         | 111111111111111111111111 | 130 cm           | 4      |
| 31   | SB31         | 111111111111111111111111 | 130 cm           | 5      |
| 32   | SB32         | 111111111111111111111111 | 130 cm           | 4      |

All heights are upto bottom of switch board

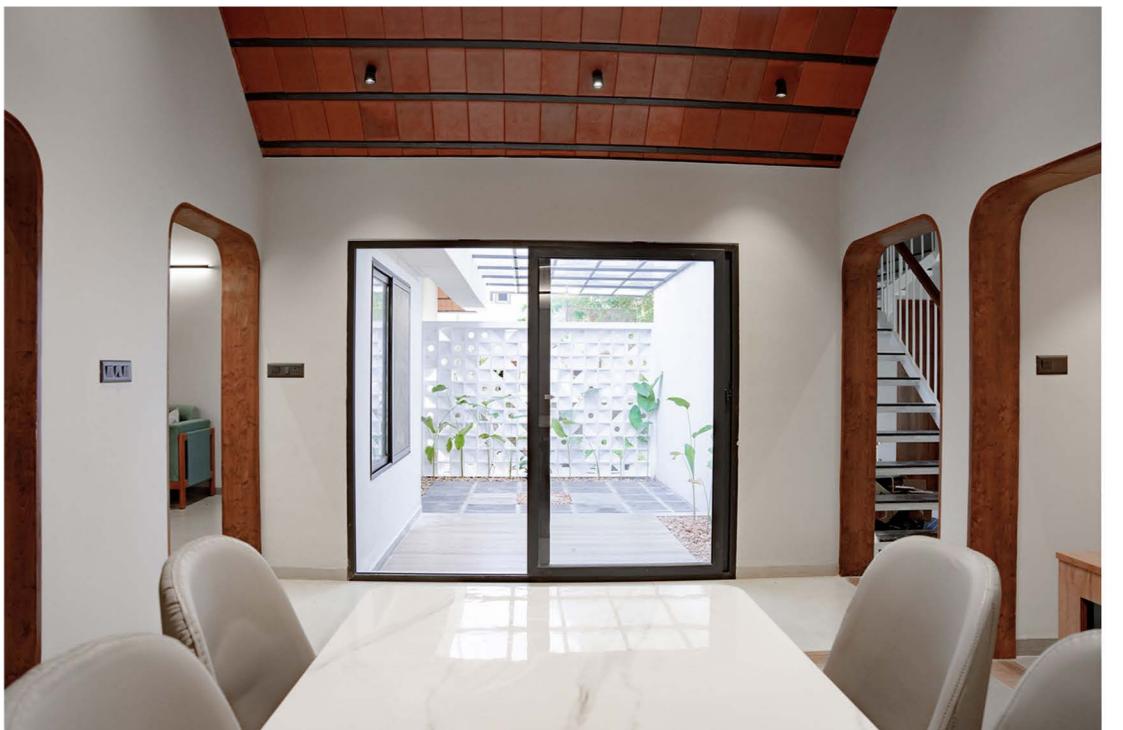
All heights are from the floor level



TROPICAL RESIDENCE “HOPE” - ALAPPUZHA , KERALA



TROPICAL RESIDENCE “HOPE” - ALAPPUZHA , KERALA

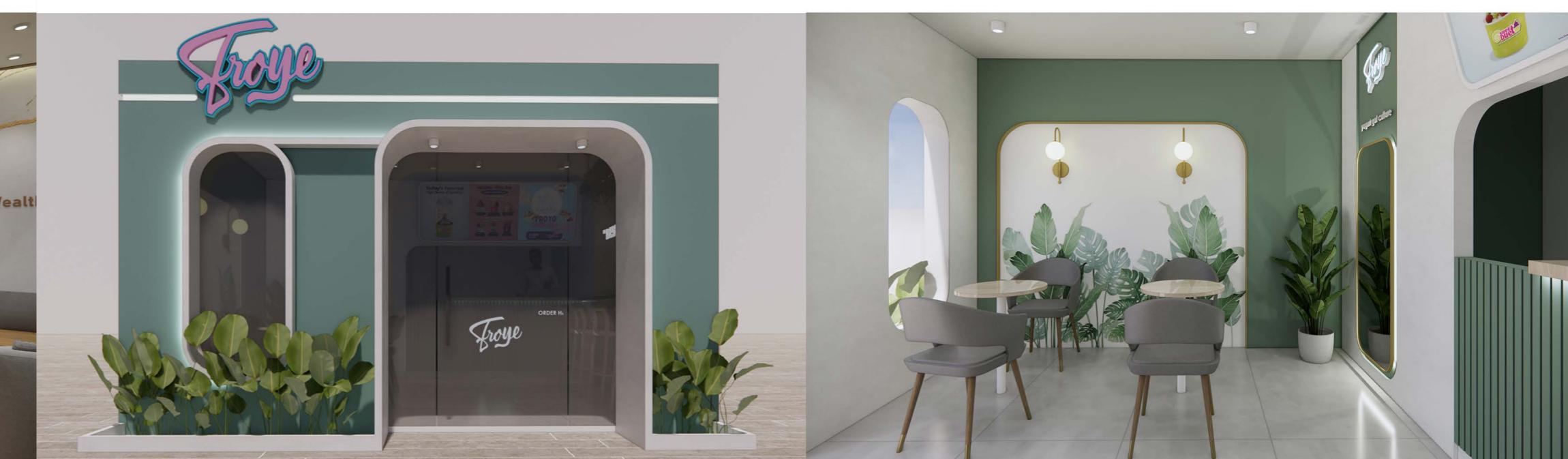


PROPOSED DESIGN FOR **SILVERLINE HOSPITAL** - KADAVANTHARA, ERNAKULAM, KERALA

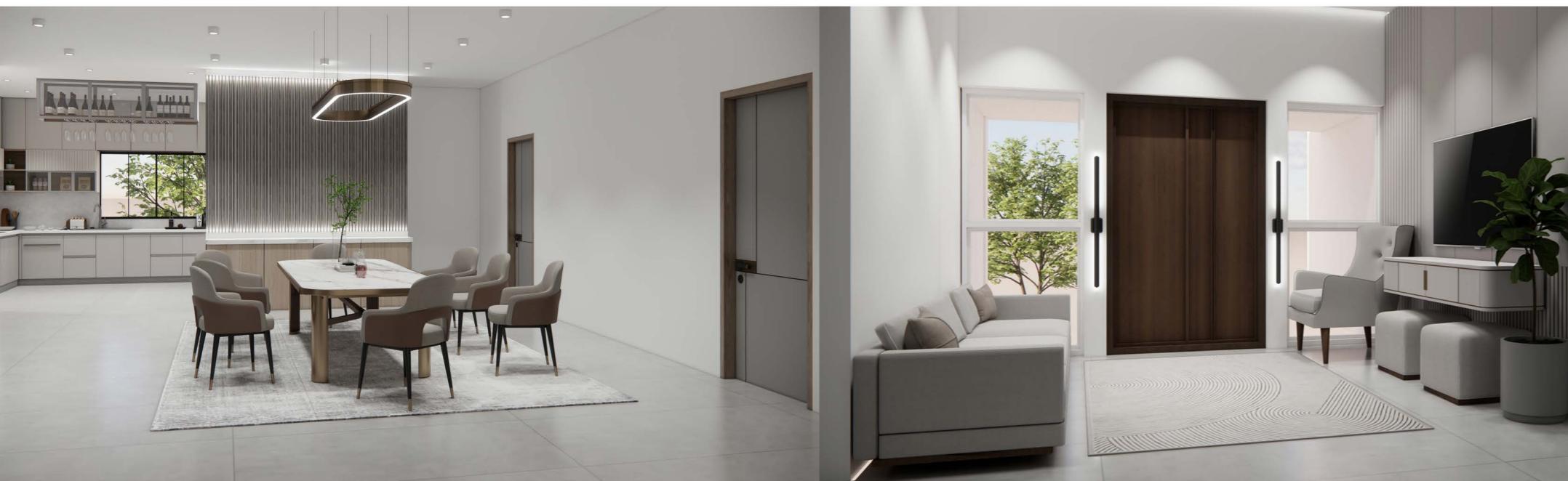
PROPOSED DESIGN FOR DDC LAB - THRIPIUNITHURA, ERNAKULAM, KERALA



PROPOSED DESIGN FROYE - MANANCHIRA, KOZHIKODE, KERALA



PROPOSED DESIGN FOR **SHERIN RESIDENCE** - THRISSUR, KERALAPROPOSED DESIGN FOR **ST.JOSEPH AUDITORIUM** - COORG, KARNATAKA

PROPOSED INTERIOR DESIGN FOR **RESIDENCE** - THANEERMUKAM, ALAPPUZHA, KERALAPROPOSED DESIGN **SYNOD MEMORIAL CHURCH** - SH-15 UDAYMPEROOR, ERNAKULAM, KERALA



Good architecture lets nature in...

Cyriac Biju  
cyriacbiju1999@gmail.com  
9495179332