



P o r t f o l i o

If you could not find something you need, Create it.

## Education

Class 10 -L.F.P.S. Muringoor, Thrissur  
Class 12 -Viswajyothi CMI, Ernakulam

**B.arch** -Mangalam School of Architecture  
and Planing , Kottayam, Kerala.  
(MASAP)

## Participation

: ANDC 2017  
SIDC 2017  
Reubens 2017  
ZONASA theme dance 2017  
ANDC 2018  
CONVENTION TROPHY 2018  
ZONASA fashion trophy 2018  
Reubens 2018



## SILPA SAIBOL

21

Kalapurakkal (H) Koratty, Thrissur  
Kerala

Third year architecture student  
at MASAP, Kottayam



**Interests** - Urban designing, Fingerpainting, conservation.

I intend to be a part of your Architecture firm as an intern for a period of six months or more, and learn from your place.

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languages known : English,  
Malayalam



1BHK Residence



Campus design



physical model



Director's Residence



landscape design



Interior design



Non academic works



1 BHK

This portfolio is comprised of different types of works i have handled so far, as a student architect.

# C o n t e n t s R e s i d e n c e



Ground floor plan

First floor plan



side view



Front view



Back view



Section A



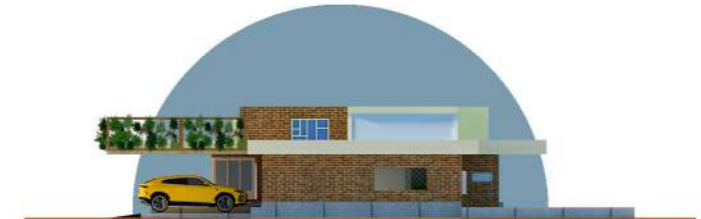
North elevation



West elevation



Section B



East elevation



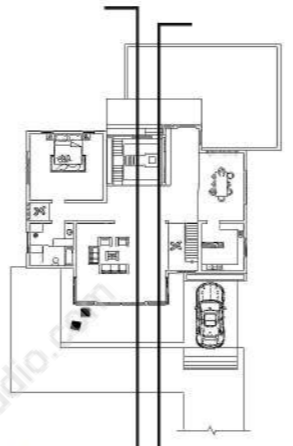
South elevation



View

**About**

The 1BHK residence was for the purpose of practice. There is a hall, courtyard, a bedroom, 1 bathroom and a kitchen. An exterior pool is also attached near the courtyard.



Key plan



Roof view

Side view



Dining area



Drawing room



Courtyard



View from entrance door



Bedroom



Campus design for 360 students undergoing PGDM as three batches. The site is located at Pala, Kerala. Almost 7.5 acres in area. There is a main block towards backside of the site. Residential blocks including the hostels and faculty housing is placed near the road.

LOCATION :PALA , KERALA  
SITE AREA :30,280 sq.m

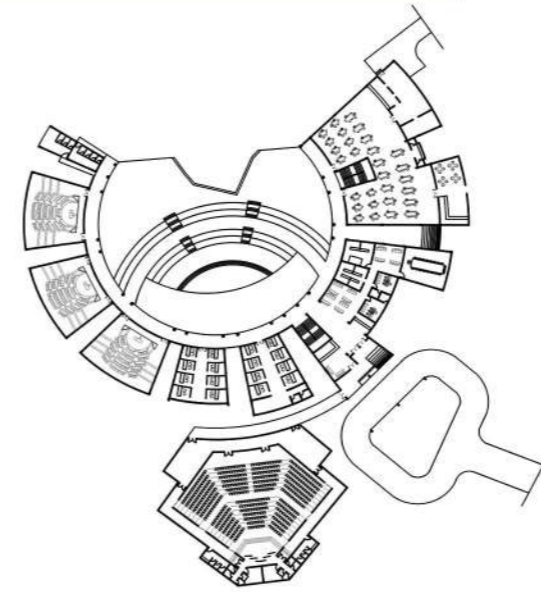


Site plan

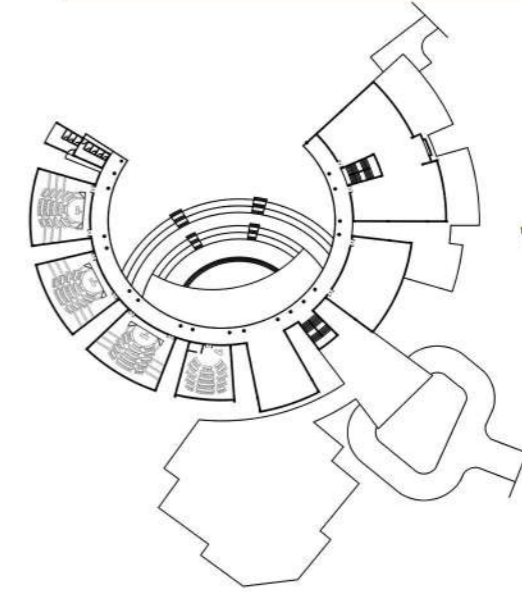
Campus Design



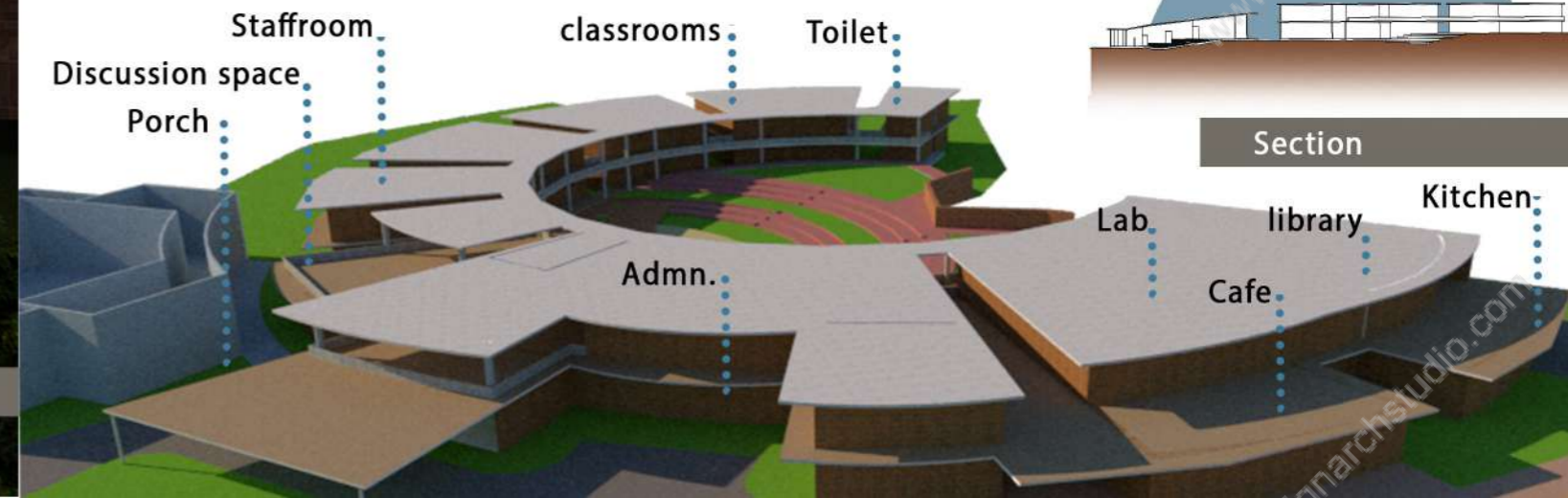
Ground floor plan



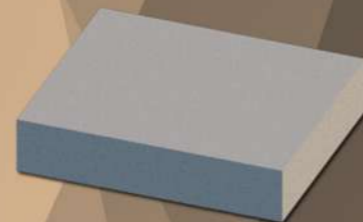
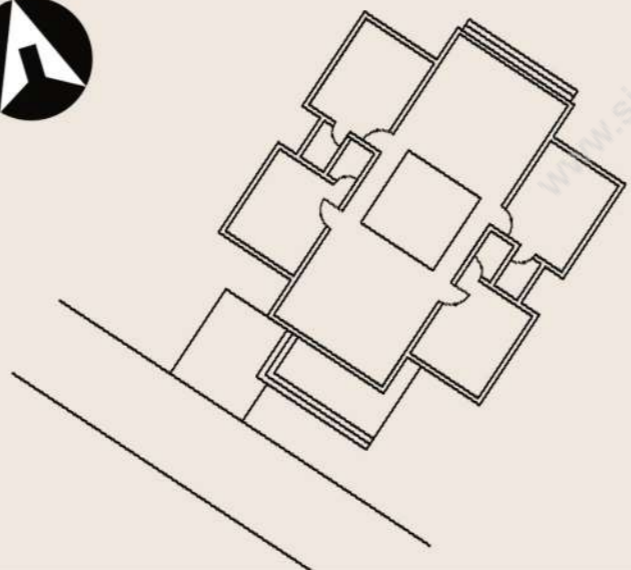
First floor plan



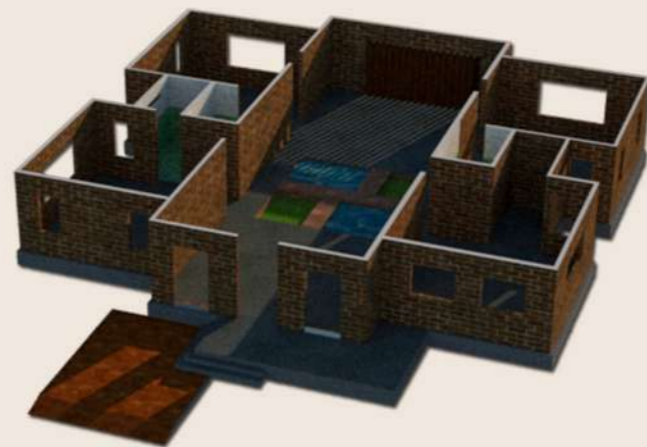
Key plan



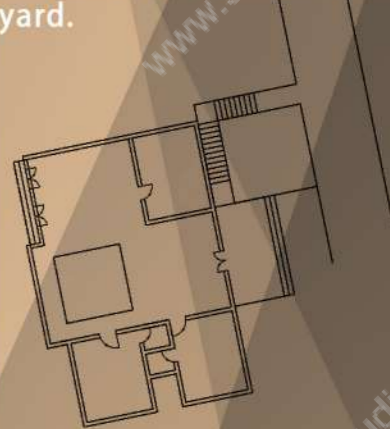




The headquarters contain 3 bedrooms, a living room, a kitchen, and a central courtyard. Placed near the road for ease of access.

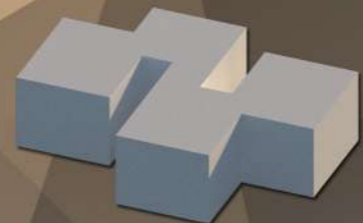


Five 2 BHK residences with two bedrooms, a living, a kitchen and a closed courtyard.

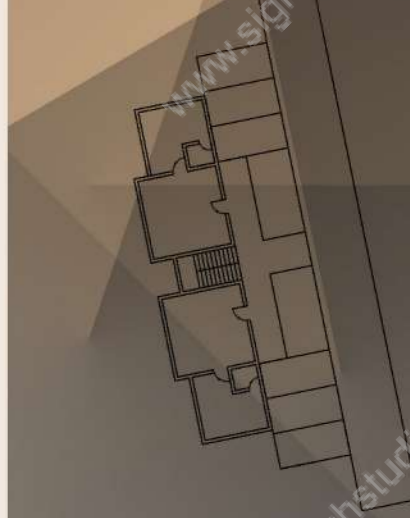
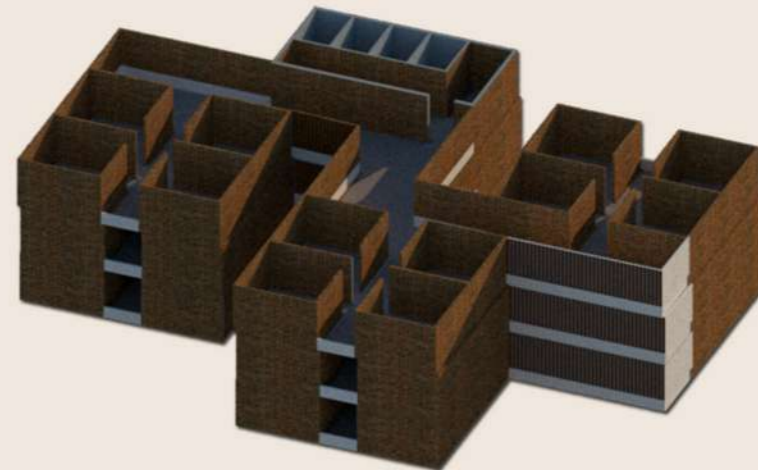


Headquarters plan

2 BHK Faculty residence



There are six hostel blocks of similar model. Three for boys near campus and 3 for girls near plot border



Typical Hostel block

1 BHK Faculty residence



# Campus Model

Main block

Auditorium

Boys Hostel

2 BHK residence

Girls Hostel

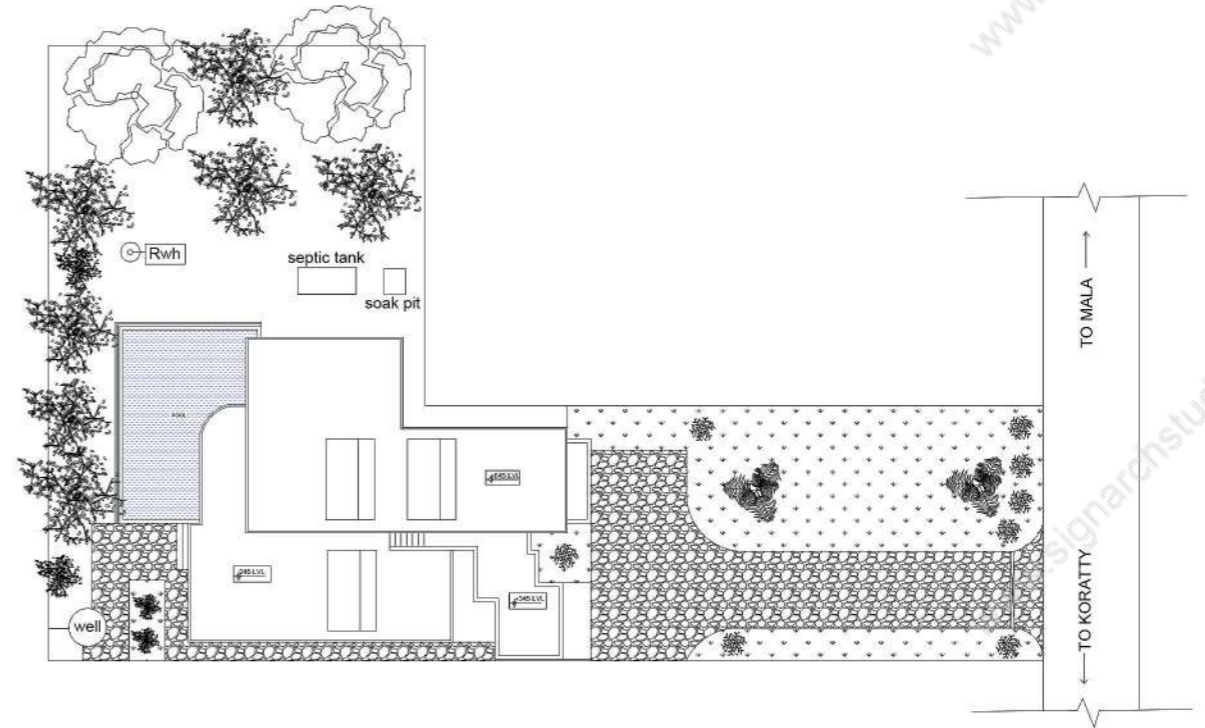
1 BHK residence

Headquarters

Typical Hostel block



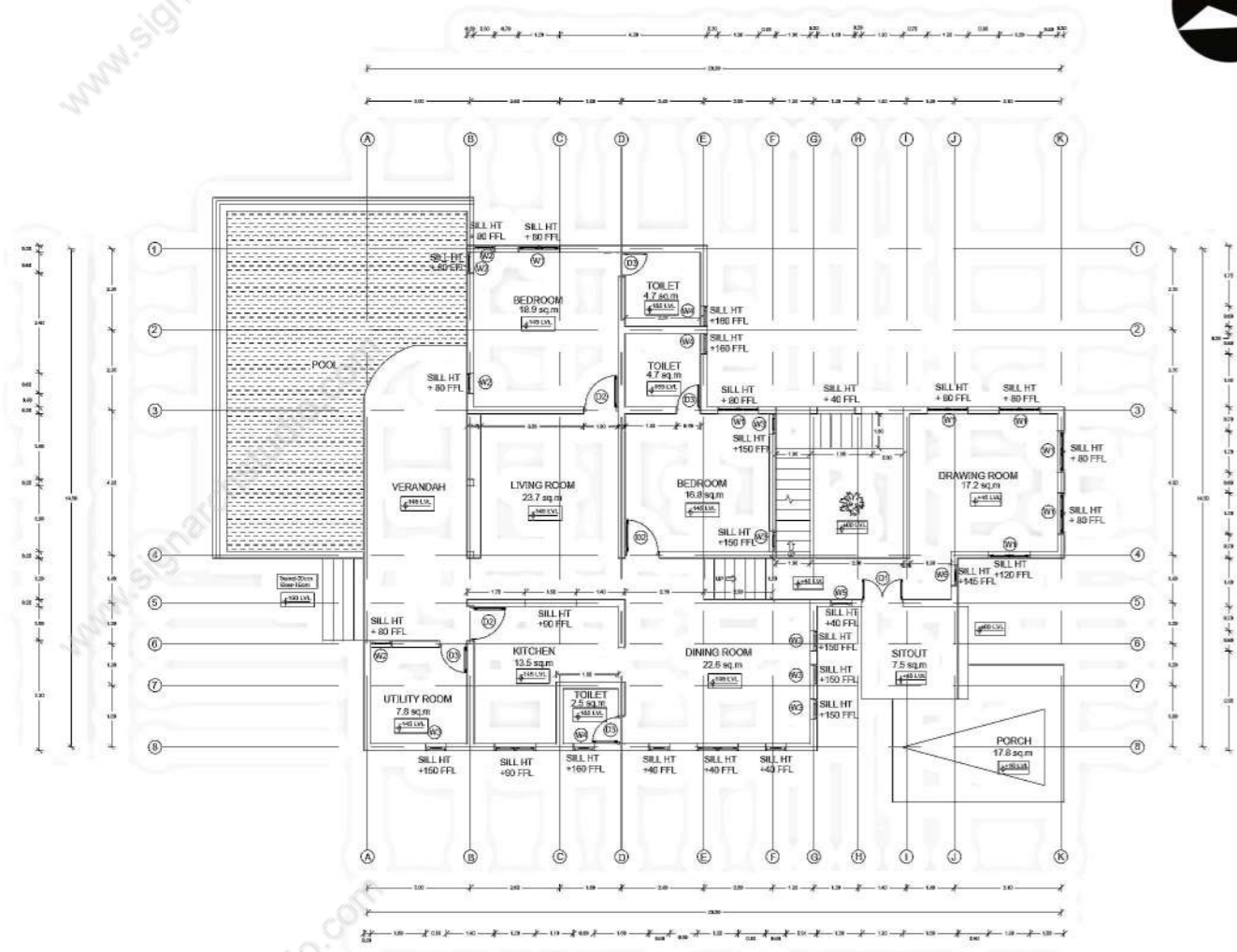
Site plan



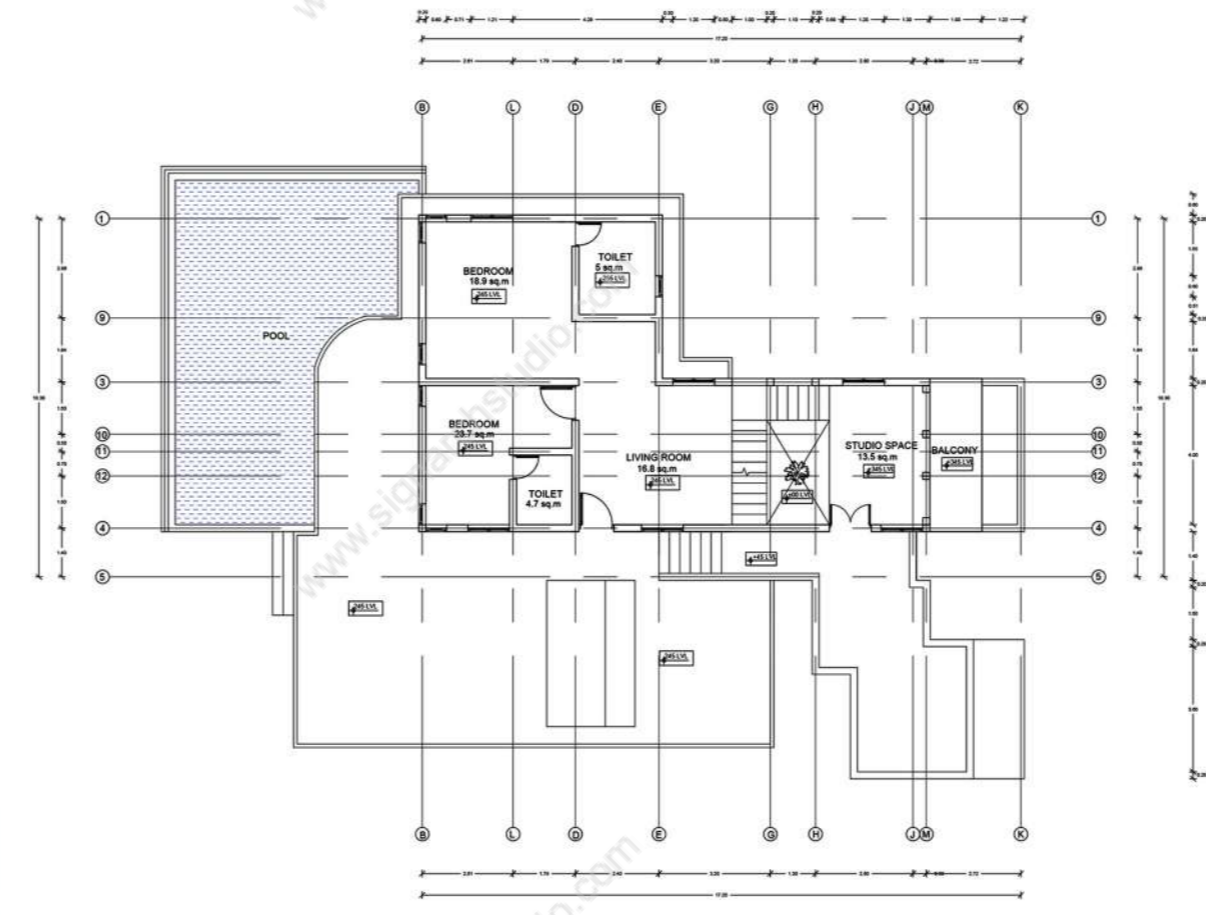
Residence designed in semester 4 for the director Johnson Esthapan and his family of four. At Koratty, Kerala

DIRECTOR'S

# R e s i d e n c e



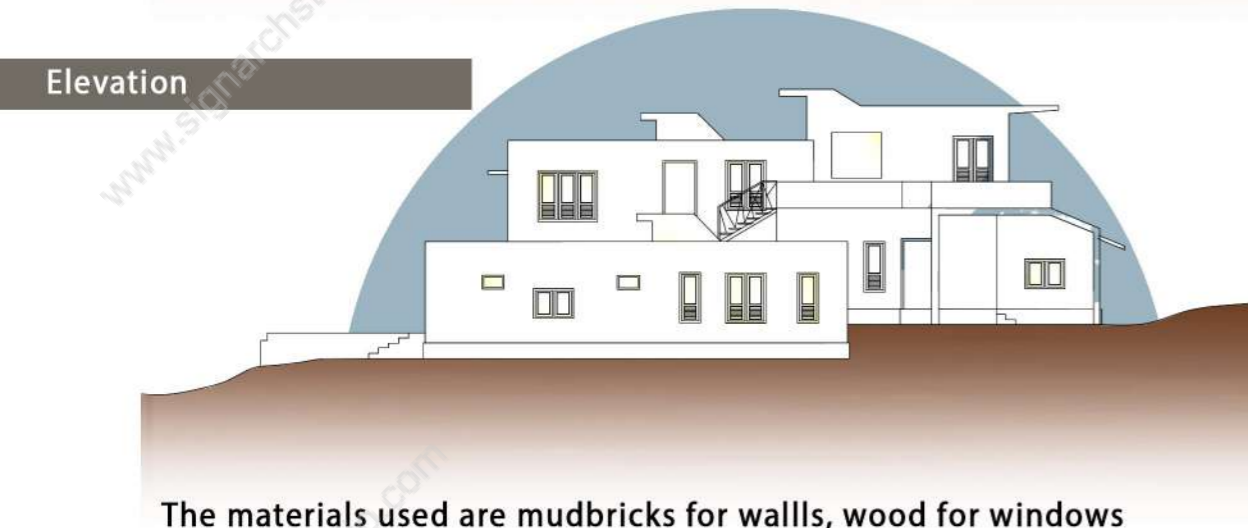
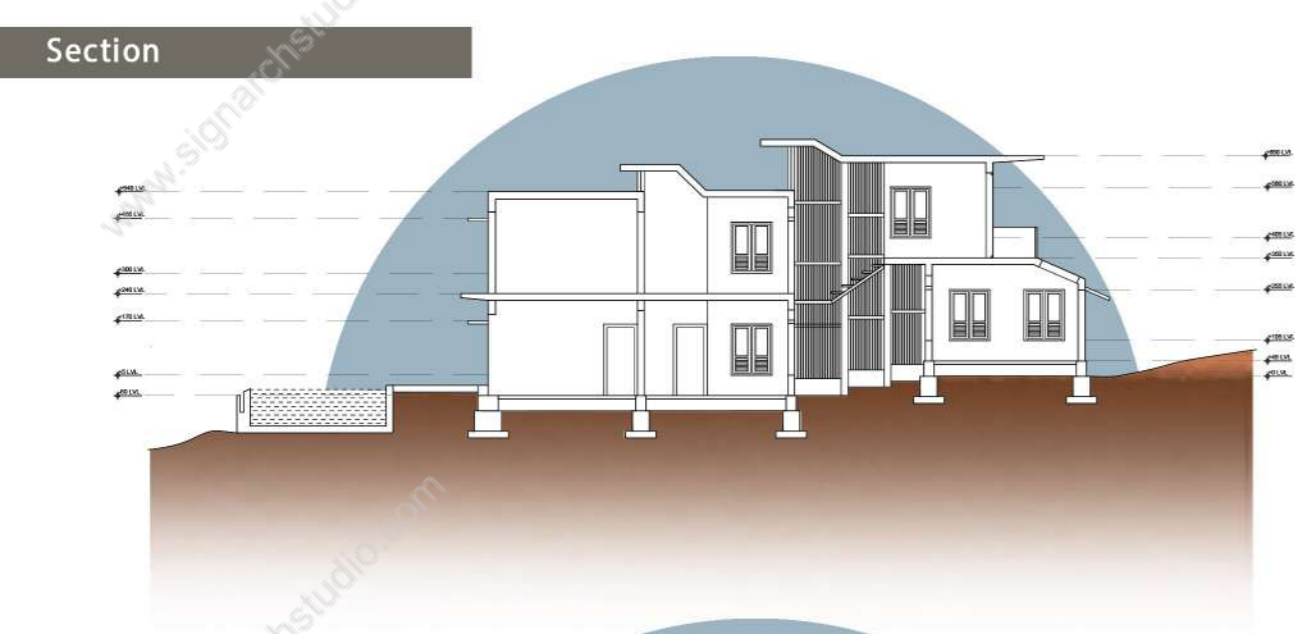
Ground floor plan



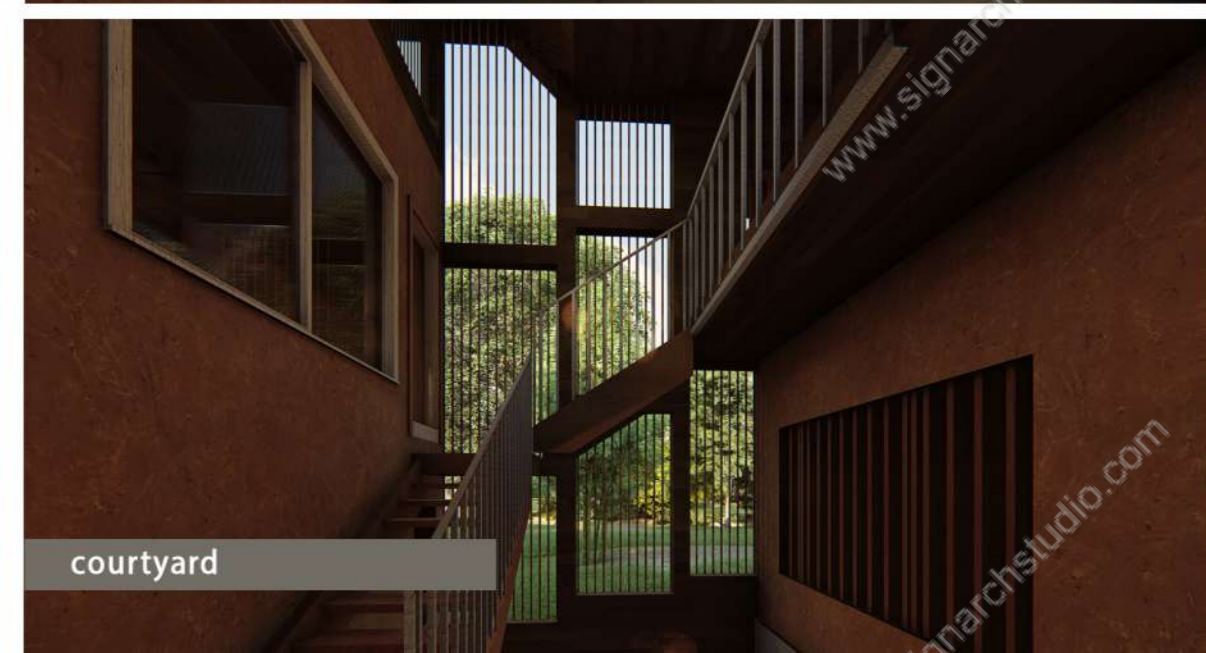
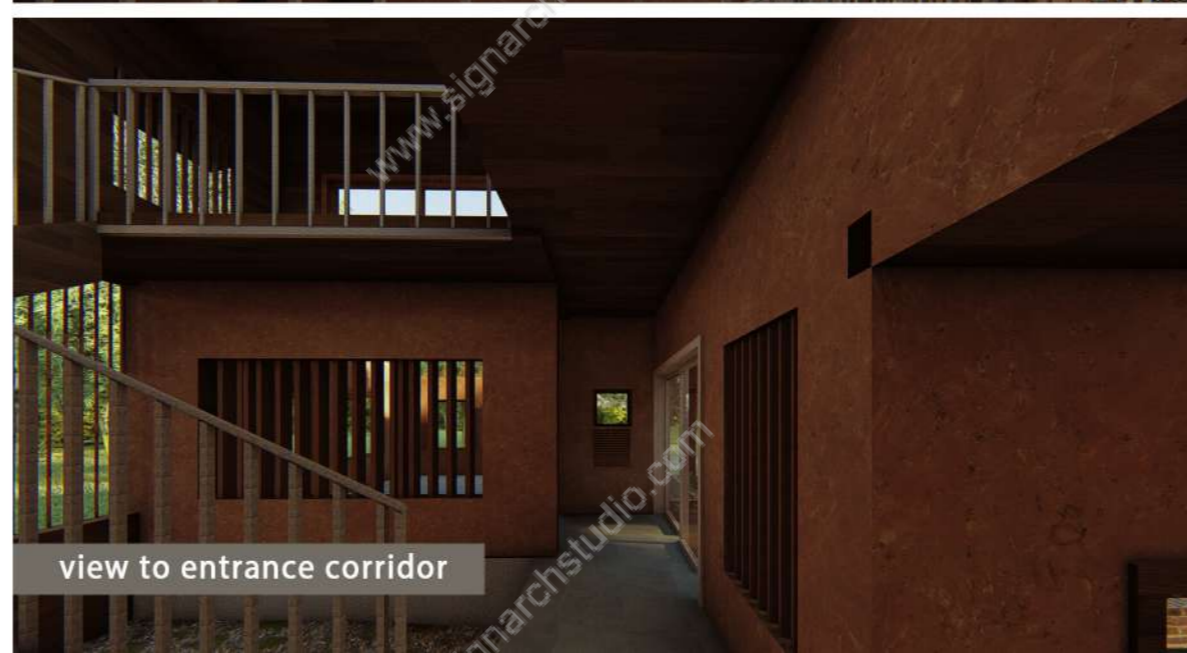
First floor plan

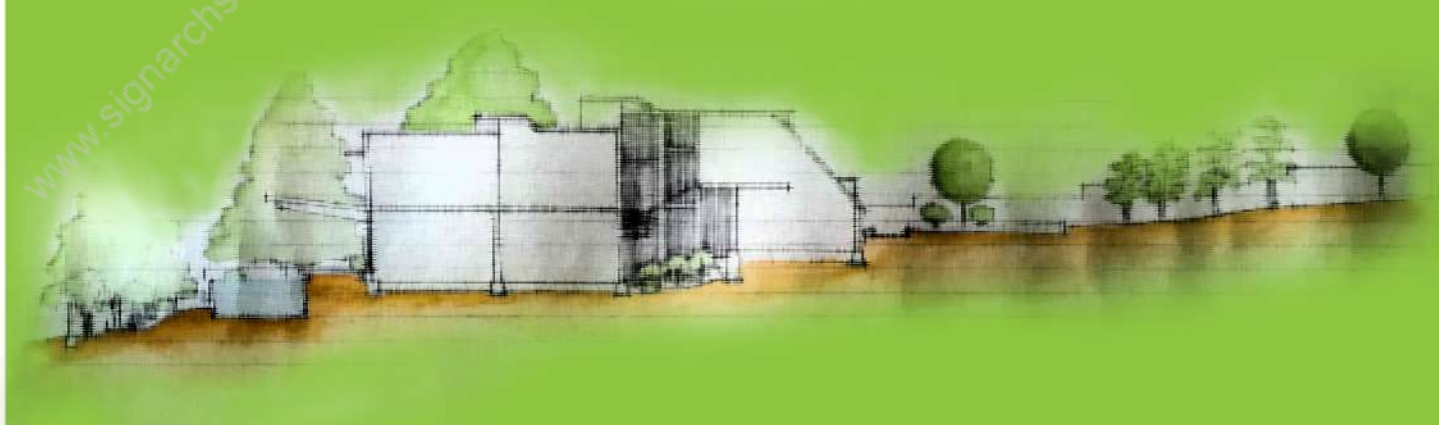
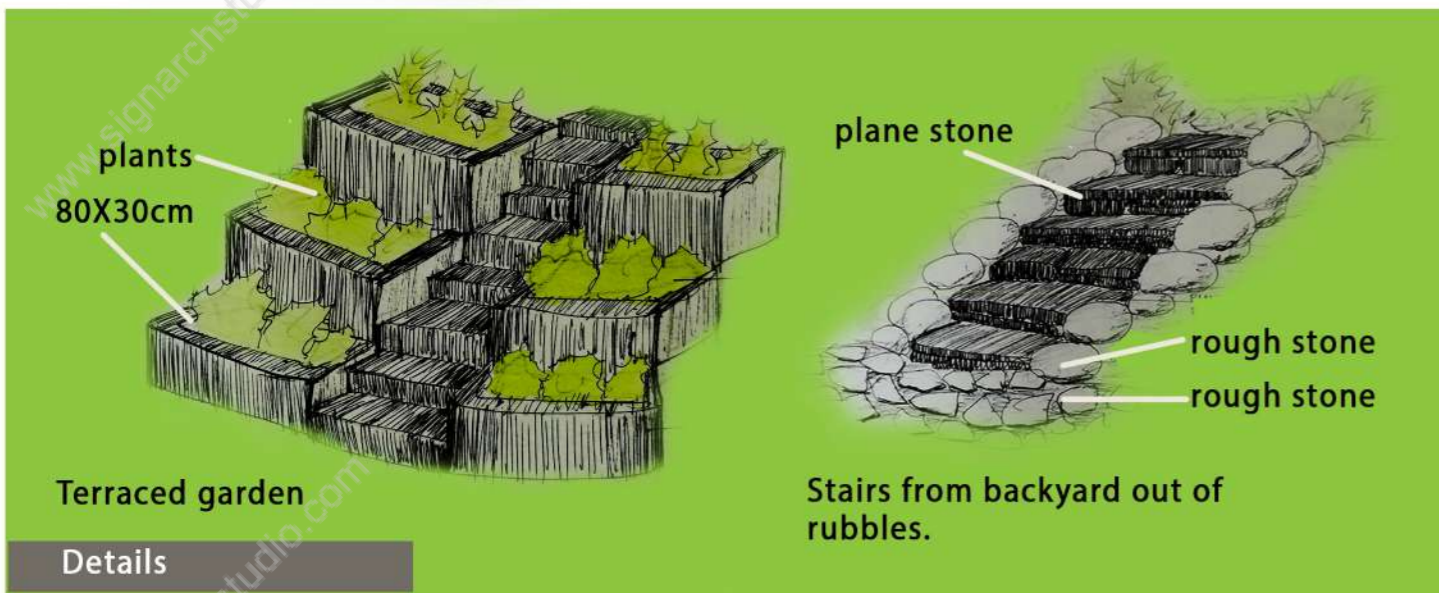


Back view

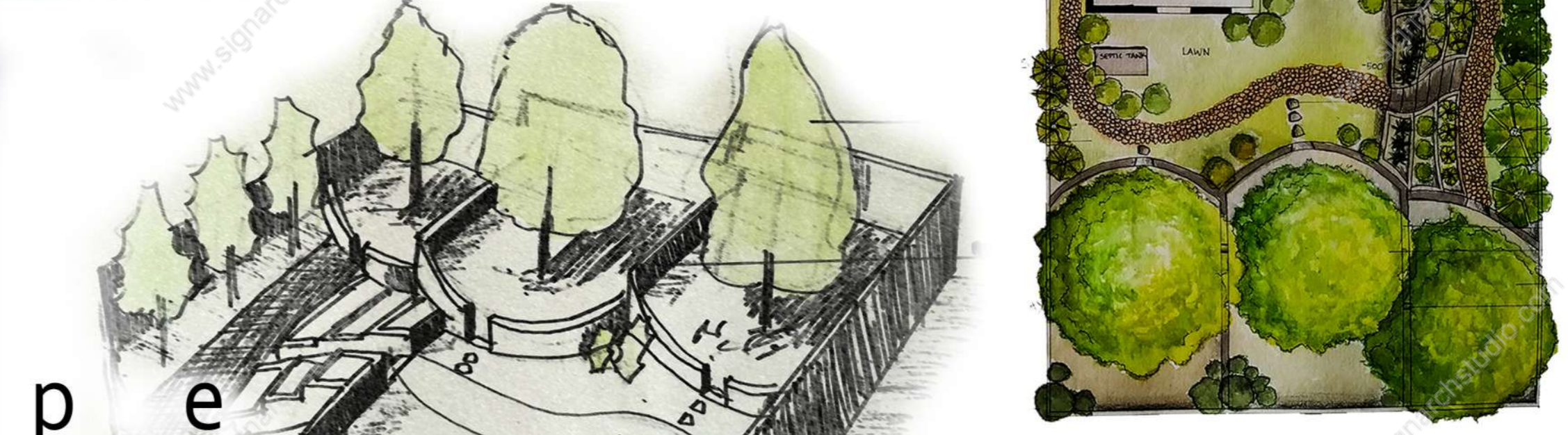


The materials used are mudbricks for walls, wood for windows and wood for louvres. Glass is also use for long openings. Oxide is used for flooring





RESIDENCE  
L a n d s c a p e



## DESIGN OF A HANGING LIGHT FOR DEEPAVALI NIGHT

THE AIM WAS TO CREATE A LIGHT THAT WOULD PROVIDE THE PERFECT AMBIENCE FOR ALL FEASTIVE EVENINGS, INCLUDING DEEPAVALI, TO BE HUNG IN THE COLLEGE AUDITORIUM.



THE CONCEPT BEHIND IS LIGHT RAIN. WHICH EVENTUALLY WOULD BRING A FEEL OF LIGHT RAIN INSIDE THE HALL. THIS AMBIENT LIGHT CAN ALSO ITSELF ILLUMINATE A LARGE HALL WITH SUFFICIENT AMOUNT OF WARM LIGHT.



THE LIGHT IS MADE OF TREATED BAMBOO AND BRANDY BOTTLES AT 3 LEVELS TOGETHER CONSTITUTING A CROSS SHAPED COMPOSITION. FOUR, 1M EACH, LED STRIPS ARE PACKED INSIDE THE BOTTLES. WHEREAS, 8 INCANDESCENT BULBS ARE PLACED INSIDE BAMBOO.



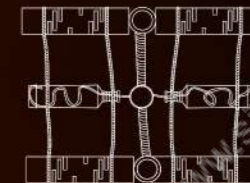
## HUNG LIGHT

LATER THE WHOLE LIGHT WAS WIRED. THE WIRING IS HIDDEN USING THE SAME ROPE. A STEEL CROSS ROD IS FIXED AT THE TOP TO HUNG THE LIGHT.

FIRST CUTS OUT WERE MADE IN BAMBOO AND LIGHTS WERE FIXED AT ONE END. THE BOTTLES WERE FILLED WITH THE LED STRIP. THESE WERE THEN ARRANGED IN CROSS SHAPE IN A PERPENDICULAR ORDER. TO FORM THE 3 LEVELS SHOWN IN FIGURE. THEN THESE LEVELS WERE TIED TOGETHER WITH THE HELP OF WHITE ROPE.



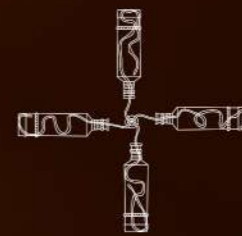
PLAN



ELEVATION



LEVEL 1



LEVEL 2



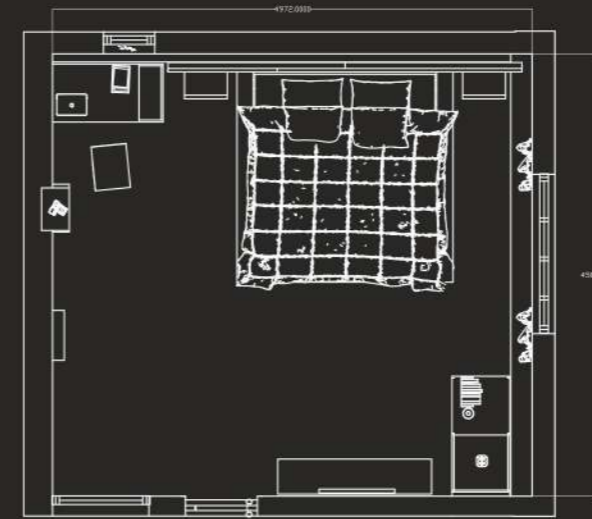
LEVEL 3



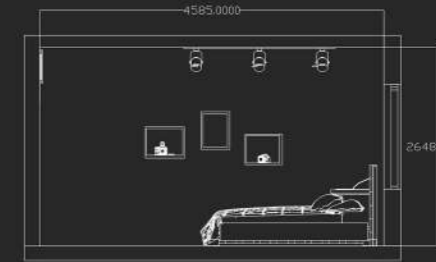
# BED ROOM DESIGN

INTERIOR DESIGN OF ANY BEDROOM OF A RESIDENCE

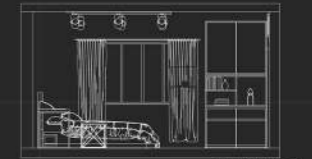
THE BEDROOM IS DESIGNED WITH THE AID OF MOODBOARD CREATED. INDUSTRIAL STYLE IS CHOSEN.



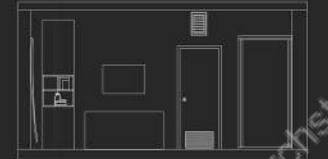
PLAN



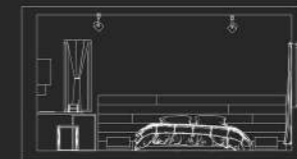
SECTION



ELEVATION 2



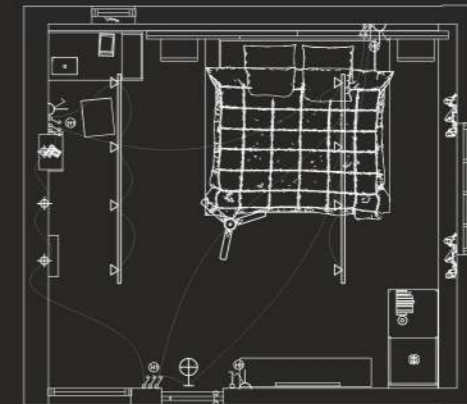
ELEVATION 3



ELEVATION 1



ELEVATION 4



ELECTRICAL LAYOUT

MAIN MATERIALS USED IS ROUGH PLASTER, WOOD, TRACK LIGHTS, PLATFORM BED, STEEL FURNITURES , TO BRING INDUSTRIALISM.

SYMBOL	PARTICULAR
⚡	SA SWITCH
⚡	SA SWITCH-TWO WAY
⚡	SA SOCKET WITH SWITCH
⚡	CEILING FAN-1200 RPM
⊕	RECESSED LIGHT
⊕	WALL LAMP
⊕	PENDANT LIGHT
⊕	1.5
⊕	0.60
⊕	0

Interior Design



### LOCATION AND CONTEXT

The overbridge is located at Nungambalam Kottaram, adjacent to the main transportation gate of the city. It serves as a vital link between the railway station and the city, providing a safe and convenient mode of transport for commuters.

### CIRCULATION

Peak day: 1 Sunday  
Peak hour: 7 AM to 10 AM, 4 PM to 6 PM

The movement pattern of the users is shown.

### DESIGN PROPOSAL

Circulation becomes more convenient by increasing the width of bridge. The designed pattern evolved from the usual circulation path followed by the user.

### WHY LIMINAL?

Currently users do not experience the passage nor they value it even though it is a part of their daily life. In the present scenario, the space is most ignored and neglected since the transportation boys are highly efficient.

The presence of bridge is crucial to allow traffic to move from one side to the other and to be designed to be a major landmark.

### REALM OF BETWEEN

The concept is to highlight the neglected overbridge along with the stairs and to re-design it to a major landmark.

The proposal is made such that the bridge is architecturally attractive among the surroundings.

### REVAMPED TO PeDloOp!

Massing: width of the stairs is widened, coming feet and blocks the view of light of steps.

**PeDloOp**  
ANDC 2018

### CONCEPT EVOLUTION OF AMPHIDETRA

AT FIRST WHEEL WAS USED TO TRANSPORT GOODS THEN IT STARTED TO BE USED TO TRANSPORT PEOPLE, THEN ITSELF CONVERTED INTO A PORTABLE BUILDING.

### CLIMATE

DUE TO GLOBAL WARMING MEAN SEA LEVEL HAS BEEN RISING YEAR BY YEAR. A NEW SYSTEM HAS TO BE DEVELOPED TO WITHSTAND THE SITUATION.

### AGRICULTURE

DONE WITH THE HELP OF AQUAPONICS. EXTERIOR WALL OF THE AGRICULTURAL FLOOR IS A BREATHING MEMBRANE WHICH ABSORBS AIR BUT NOT WATER.

### INTER-MEDIATE FLOORS

FOR MULTI-PURPOSES LIKE COMMERCIAL, INSTITUTIONAL, RESIDENTIAL, AND RELIGIOUS ACTIVITIES.

### INCLINED ELEVATORS

CONNECTS THE MODULES DIAGONALLY.

### CENTRAL CORE

CONTROLS, DRIVE IN AND DRIVE OUT OF THE FOUR MODULES.

### VERTICAL ELEVATORS

CONNECTING BOTTOM AND TOP MODULES.

### CENTRAL FLOOR

FOR GATHERINGS AND RECREATIONS.

### INTER-MEDIATE FLOORS

FOR MULTI-PURPOSES LIKE COMMERCIAL, INSTITUTIONAL, RESIDENTIAL, AND RELIGIOUS ACTIVITIES.

### AMPHIDETRA

AMPHIDETRA IS SELF SUSTAINABLE LIKE EARTH. THE SHAPE OF THE DESIGN EVOLVED FROM THE SPHERICAL SHAPE OF EARTH.

FOOTPRINT: 9 sq.m

**AMPHIDETRA**  
NASA

### TOP FLOOR OF AMPHIDETRA IS USED FOR AGRICULTURAL PURPOSES WHICH IS DONE USING AQUAPONICS.

### WHY AMPHIDETRA?

AMPHI MEANS SUSTAINABLE IN WATER AS WELL AS LAND. DETRA MEANS FOUR WHICH REPRESENTS FOUR MODULES.

### WHY SPHERE?

- MINIMUM SURFACE AREA
- EASILY PORTABLE
- MAXIMUM PROTECTIVE
- HARD TO BRAKE
- TRAVEL IN ANY DIRECTION
- LESS SURFACE COMES IN CONTACT WITH EARTH
- BALANCED BUOYANCY WHERE EVER PEOPLE MAY STAND
- SPHERE TAKES LESS HEAT
- MINIMIZES COST OF CONSTRUCTION AND WEIGHT OF MATERIAL
- DOME IS MORE STABLE AND STURDY IN WIND AND RAINFALL

### TIDAL ENERGY

WHEN CONFRONTED WITH TIDES THE SPHERE IS SELF SUFFICIENT TO PRODUCE ELECTRICITY THROUGH TIDAL WAVES, WITH THE HELP OF TURBINES.

AMPHIDETRA CONSIST OF FOUR MODULES EACH MODULE IS ASSIGNED DIFFERENT FUNCTIONS WHICH INCLUDES COMMERCIAL, INSTITUTIONAL, RECREATIONAL ACTIVITIES.

### MATERIALS

WE SUGGEST THE DESIGN TO BE MADE OF PNEUMATIC WHICH INCLUDES POLYESTER, NYLON, ETFE, FIBRE GLASS AND BREATHING MEMBRANE.

**AMPHIDETRA**  
NASA

### MARKET STREET AT ATHIRAPUZHA SETTLEMENT STUDY

### MARKET STREET AT ATHIRAPUZHA SETTLEMENT STUDY

### MARTH MARIAM CATHEDRAL

IS THE CATHEDRAL OF THE CHALDAYA SYRIAN CHURCH OF INDIA. PART OF THE ASSYRIAN CHURCH OF THE EAST, IT IS LOCATED IN THIRUVARUR CITY IN THE STATE OF KERALA, AND IS THE CITY'S FIRST CHRISTIAN CHURCH.

THE CHURCH ESTABLISHED IN 1814 BY CHALDAYA SYRIAN (HALF CATHOLIC - HALF NESTORIAN) FACTOR OF THE SYRO-MALABAR CATHOLIC CHURCH AND WAS ORIGINAL OF KNOWN AS OUR LADY OF COLLOURS CHURCH. ADAMAM KATHAMAK OF MALABAR THE HEAD OF THE CHALDAYA SYRIAN FACTOR IN 1814 WHOSE HEADQUARTERS WAS AT THIRUVARUR.

IN 1788 THE CITY WAS ATTACKED BY TIPU SULTHAN. AND THUS THE TOWN FACED ENORMOUS DESTRUCTION BOTH ECONOMICALLY AND PHYSICALLY. THEREFORE, SHAKHTAN THAMPARAN DECIDED TO RENOVATE THE TOWN AS PART OF THE RENOVATION. FORTIFICATIONS AROUND THE TOWN WERE ERRECTED. HE MADE 12 CHRISTIAN FAMILIES SETTLE THERE, WITH AN INTENTION OF EUSTERING THE TRADE.

AS TRADE PROGRESSED ALONG WITH NEW MERCHANTS, THE PEOPLE REQUESTED THAMPARAN TO BUILD A CHURCH. THE KING PERCEIVED THE SIGNIFICANCE OF THE CHURCH AND THE RELIGIOUS NEEDS OF THE COMMUNITY. HE BUILT THE CHURCH. AS IT WAS THE FIRST CHURCH TO BE CONSTRUCTED WITHIN THE SOCIETY, THEY DEPEND ON NEARBY SULLUR CHURCH FOR BASIC PLANNING MEASUREMENTS. BY MISTAKE THE INNER DIMENSIONS OF SULLUR CHURCH WAS TAKEN AS REFERENCE FOR OUTER DIMENSIONS OF THE NEW ONE. HENCE THE SPACE WAS CONFINED.

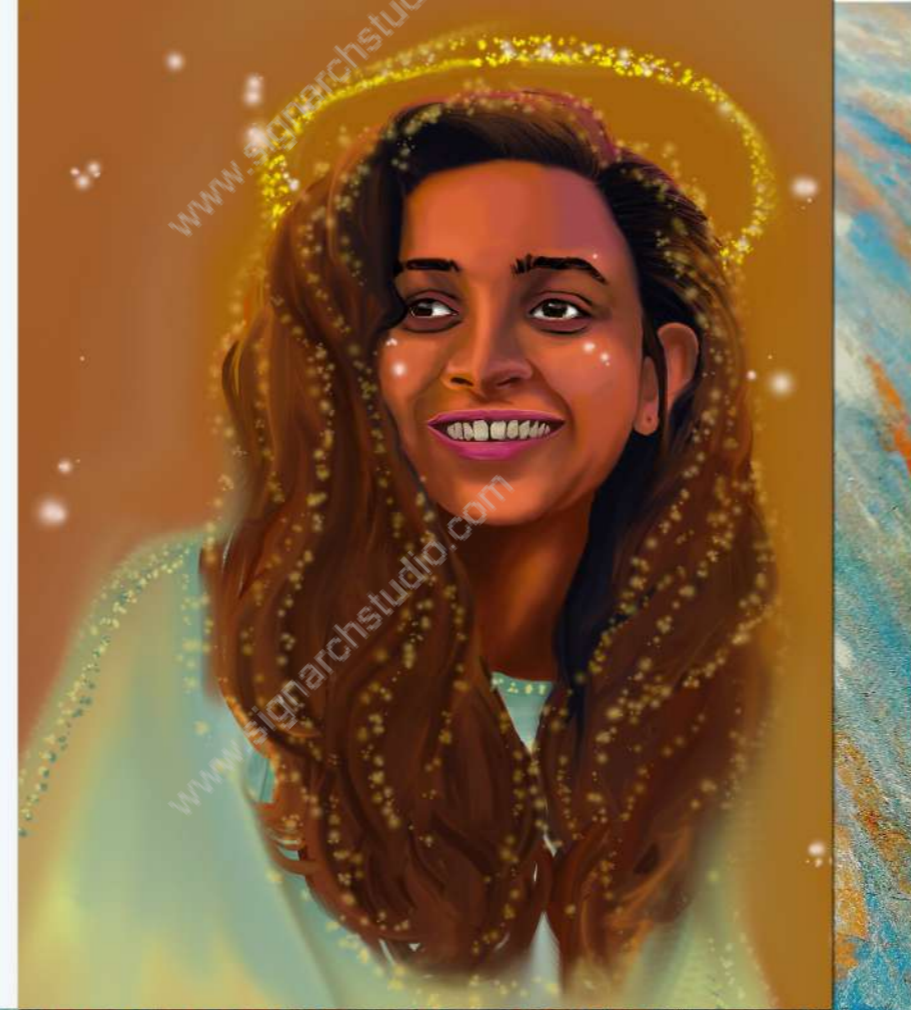
THE CHURCH CARRIED OUT FURTHER ADDITIONS, RENOVATIONS AND ALTERATIONS IN RECENT YEARS.

1789  
1790  
1796-1805  
1794  
1814  
1927  
1929  
1948

**Kaldaya Charilham**  
DOCUMENTATION COMPLEX THIRUVARUR

58 2016-2021

**Settlement study and documentation**



The Other Half

Thank You

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