

## DENIS AMIRTHARAJ

ARCHITECTURE PORTFOLIO



am a high spirited 22 year old architect. As an architect my interest are in buildings and spaces, but I am perhaps deeper inspired in how people interact with these spaces that are existing and the ones that we create. The endless possibility to shape the world through architecture made me passionate about it. I am drawn to solving social problems and believe that architecture has a solution to any. I am also passionate about the world of graphics and photography, making it a secondary passion of mine. I am constantly looking for opportunities that can help me learn and create. I believe i am a dedicated, organized and methodical individual, keen on developing my skills. I love to study about diverse cultures, work with distinctive individuals and mainly interested in learning about different approaches in handling a design. My primary objective is to utilize myself and contribute efficiently.

## D E N I S AMIRTHARAJ

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#### Softwares

Autocad
Sketchup
Adobe photoshop
Adobe Indesign
Adobe Illustrator
3DS Max
Revit
Ecotect

## Work experiences 2017 to 2018

- Architecture Brio, Mumbai, India 2018 - Evolve studio, Chennai, India (freelancing)

#### Architectural Internships

2015 - Studio Archetype, Goa, India 2016 - Han Awal and Partners Architect Jakarta, Indonesia Education - 2012 to 2017 McGan's Ooty School of Architecture Tamilnadu, India. (CGPA-8.49)

#### Academic works

2013 - Cafeteria and Holiday shack

Motel

2014 - Rural study and School

 Multi speciality Hospital and Museum

2015 - Convention center and Hotel

- Internship 1

Dissertation
 (Post disaster reconstruction)

2016 - Internship 2

Urban design

2017 - Thesis (Transitional housing for Rohingya refugees)

#### Competitions

2013 - Annual Nasa Design Comp. (Ayurvedic Resort)

2014 - South Indian Design Comp. (FIFA stadium)

2014 - Indian Green Building Comp. (Agro research centre)

2015 - Louis I Khan Trophy (Documentation of Toda tribe)

2018 - UnIATA-InternatioanI Architecture
Thesis Award (Top 50 of graduate and undergraduate projects 2015 - 2017)

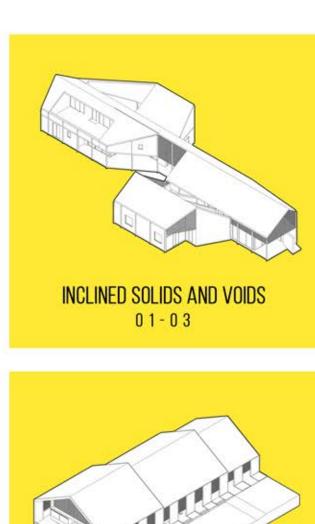
#### *Language* English

Tamil Hindi

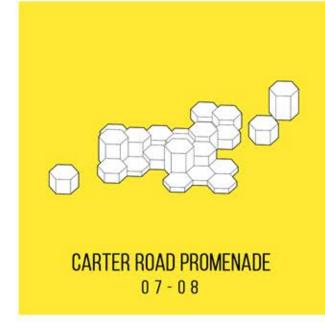
# Skills & Interests Manual sketching Model making

Graphic designing Photography Instagram-@denisamirtharaj

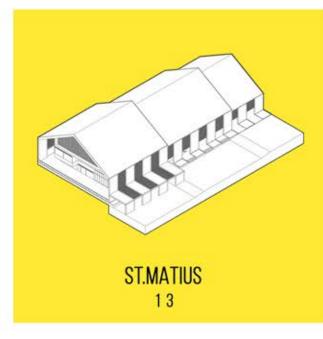
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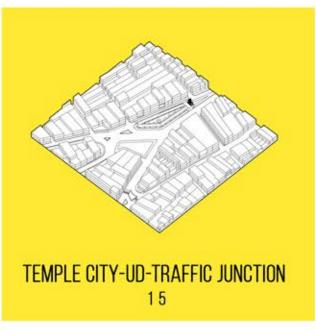


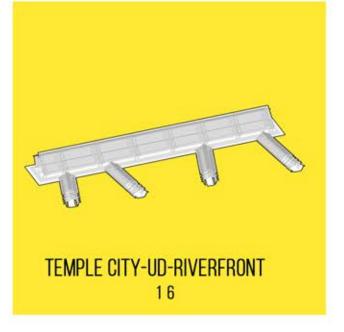


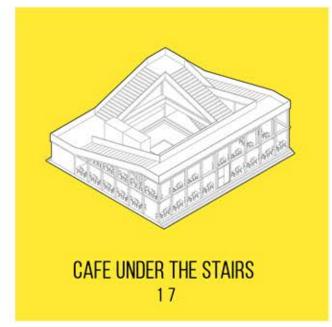


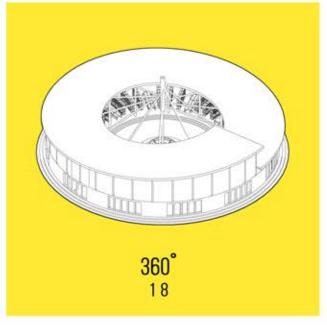






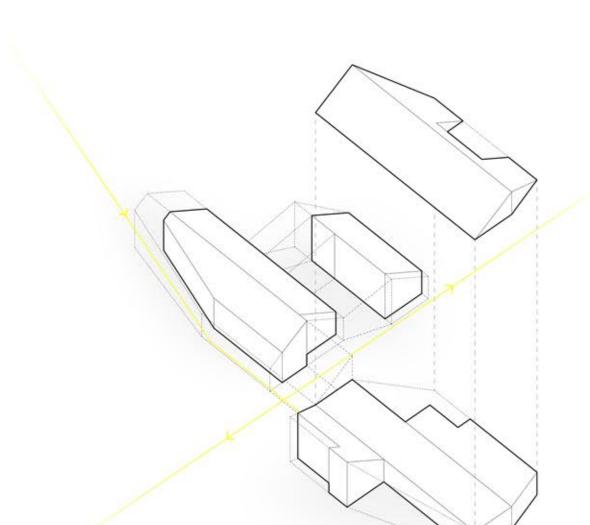












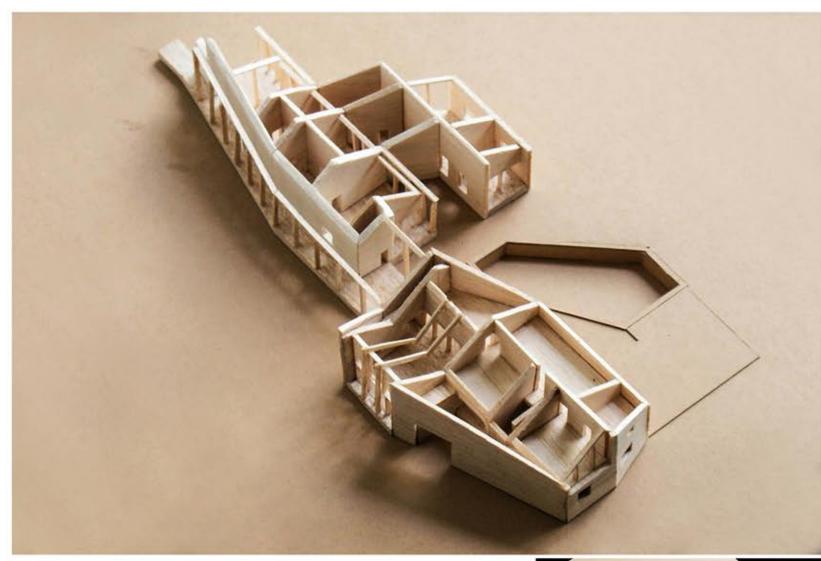
inclined solids and voids

## INCLINED single family residence/holiday home

OFFICE : Architecture BRIO PROJECT TYPE : Residence

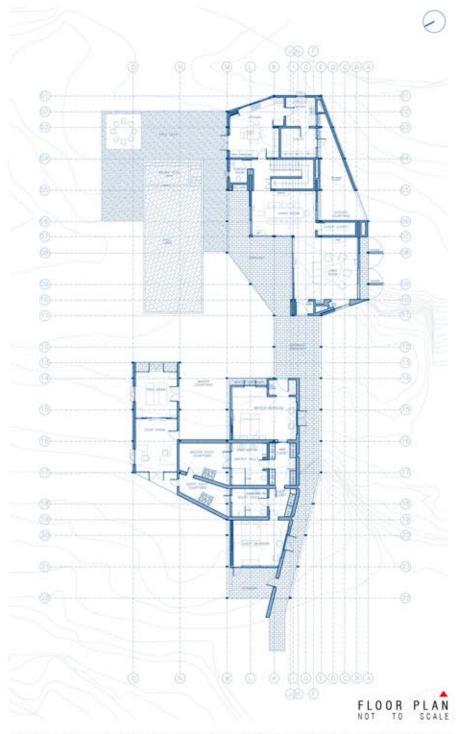
YEAR: 2018

LOCATION: Alibag, Mumbai

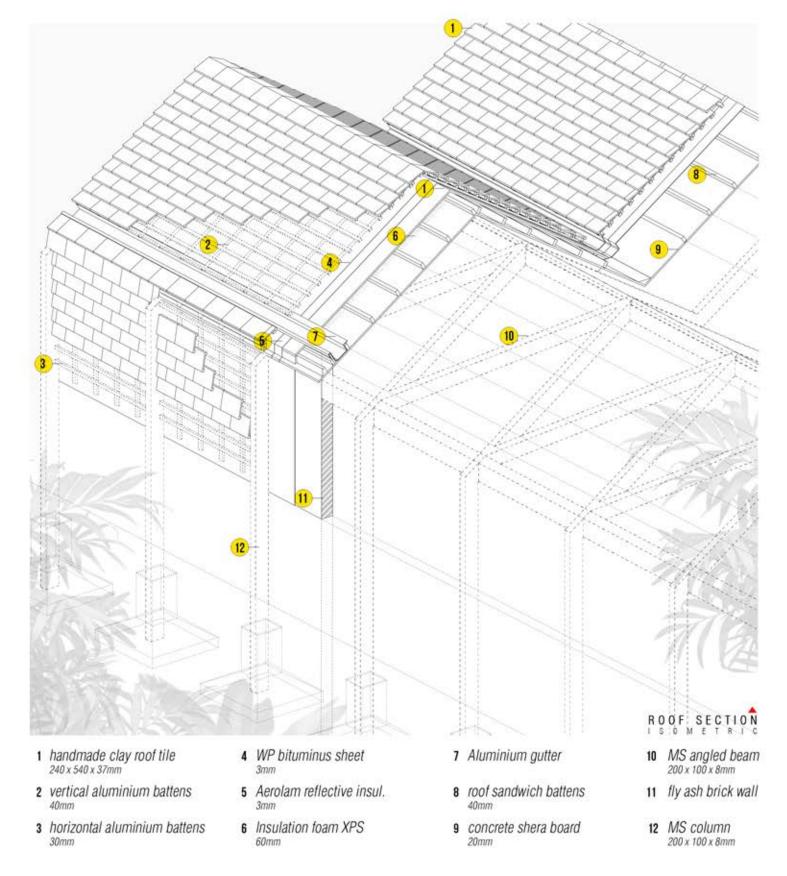


The project lies on 2693 sq mtrs of open land surrounded by fields, green hills and forests. The site located in Alibaug, a coastal town in the south of the city of the Bombay. The weather remains salubrious round the year, The monsoon pours heavy rainfall, the winter brings a pleasant climate and the summer brings moderate to hot climate. The response to the project chiefly came from the clients brief to give an in and out experince with the interior and the surroundings around the site. The project explores by creating three different building mass (private, public and semi private) connected through courtyards and semi open walk ways. The linear floor plan aligned with the longer sides facing North/South, set up a strong primary axis. The parallel continued sloped roof is incorporated to sustain from heavy rainfall during the monsoon and also blends with the local architecture. The bedroms and living rooms with double floor heights brings in sense of openess by allowing plenty of light and offering significant views of the landscape around.





The design explores the steel portal frame building typology in highly refined and detailed way. The multiple insulated roof is supported by MS steel frames. The roof is made up of handmade clay tiles which is sourced locally. The roof finds expression from the inside of the house as well, giving magnitude to ceiling by exposing the structural frames in the bedrooms and the living,

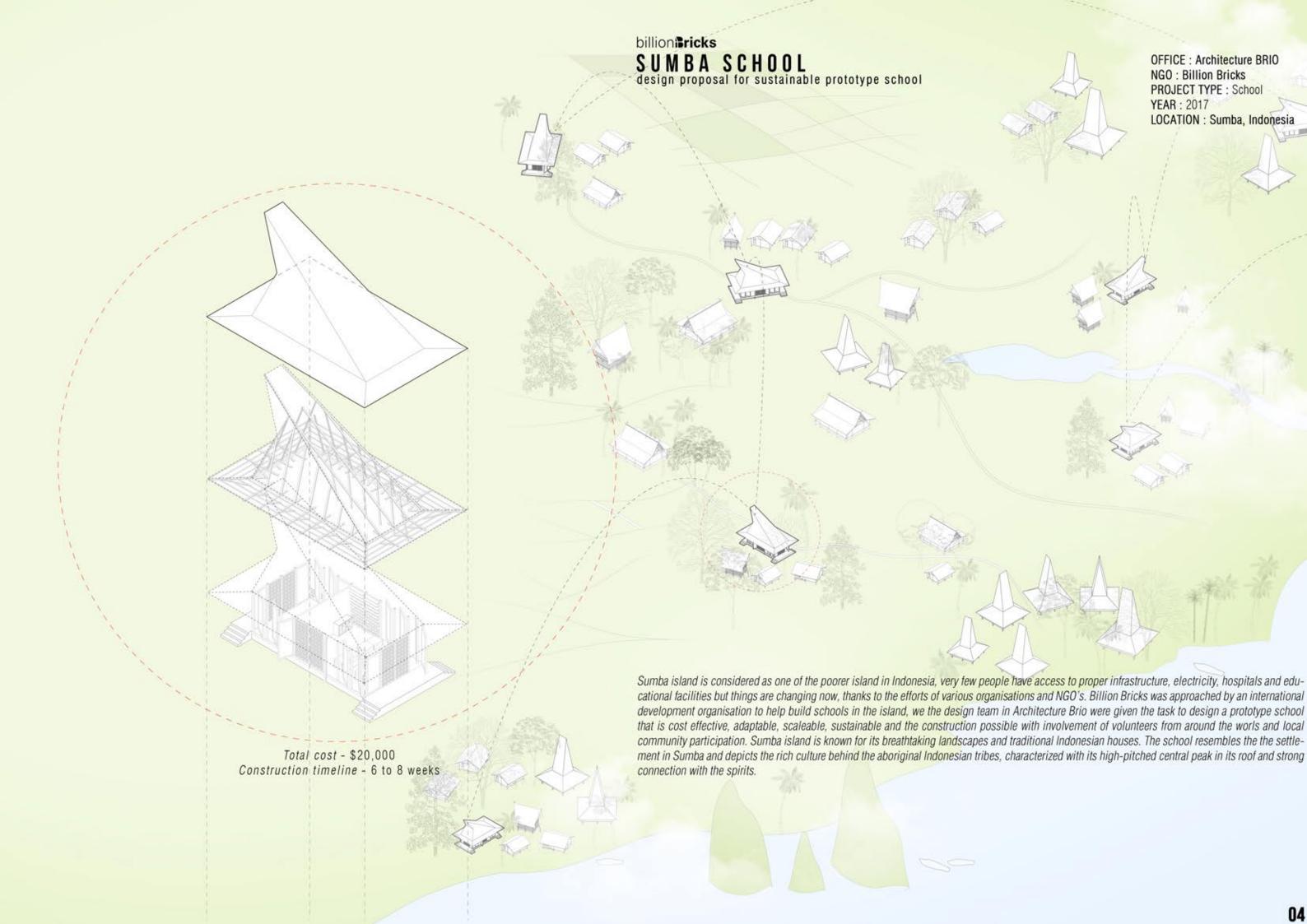




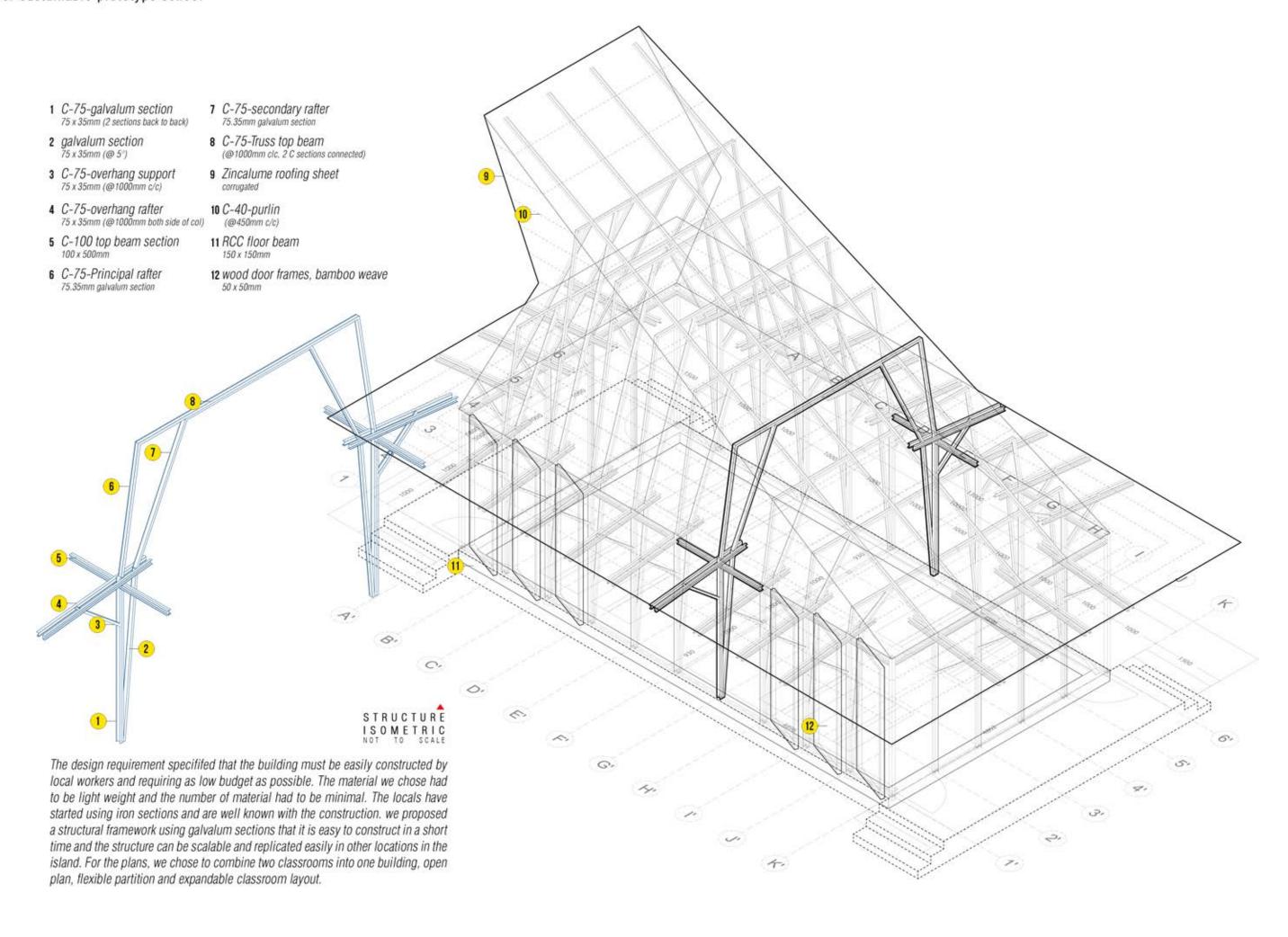
The material palette of the house was mainly focused on brining out the earhty tone to blend in with the external landscape. The brief for the interior included provision of a space that interacts with the surroundings and not feel like being in a closed room. The bedrooms are attached with courtyards which enhances the micro climate, pervaded with a sense of calm and continual views over the gentle contours and varied planting of external landscape. The emphasis of internal courtyards in on harmoniour earthy colours, warm earthy textures, deep green of landscape and uninterrupted view of the sky overhead.

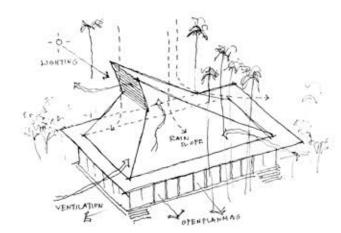






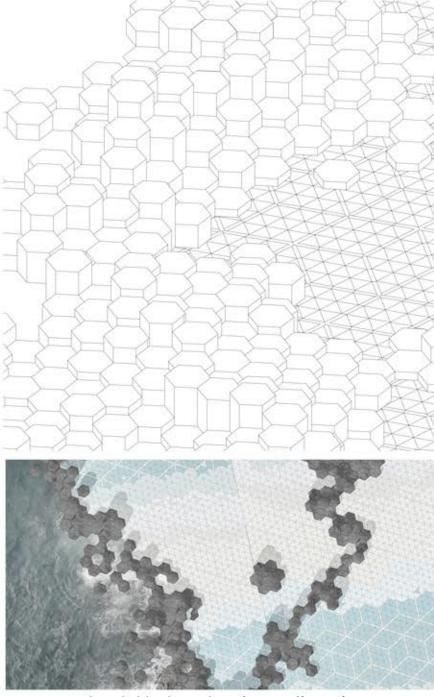
SUMBA SCHOOL
design proposal for sustainable prototype school



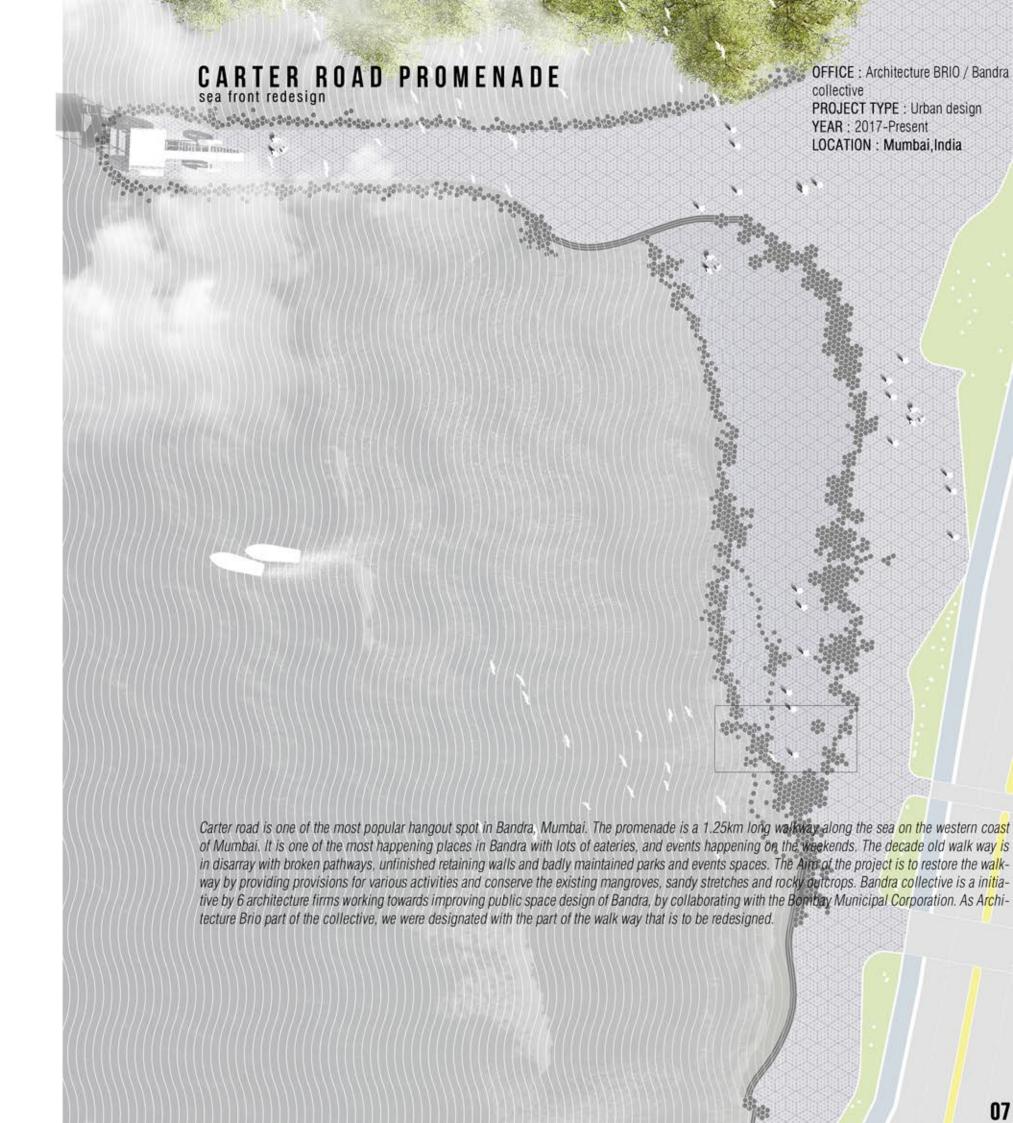


The target was to build 100 schools in 5 years and the construction of each school in 45 days, to achieve that we designed the school to have lighter foot print and minimise materials, using prefabricated materials allows faster construction and is easy for scaling. The walls and doors are proposed to have bamboo weaves with traditional indonesian fabric patterns over them. The school must have maximum involvement of local community and volunteers in constrution. Connecting cultures through craftmanship.

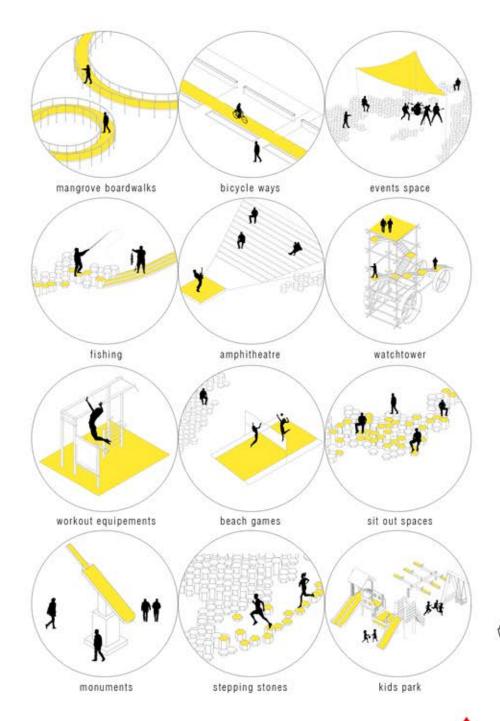




basalt blocks and paving configuration
Their strategic arrangement encourages a variety activities as a
result of people's interaction with the blocks.



## CARTER ROAD PROMENADE sea front redesign



ACTIVITIES ALONG THE PROMENADE

The basalt blocks acts as retaining wall and they define and demarkate several spaces for activities througout the walkway. The blocks also act as stepping stones on the periphery. Reminiscent of the natural rock formations along the coast. Their strategic arrangement encourages a variety activities as a result of people's interaction with the blocks. Some arrangements create niches and facilitate group seating in an organic way. The varying heights make the blocks a more interesting space.





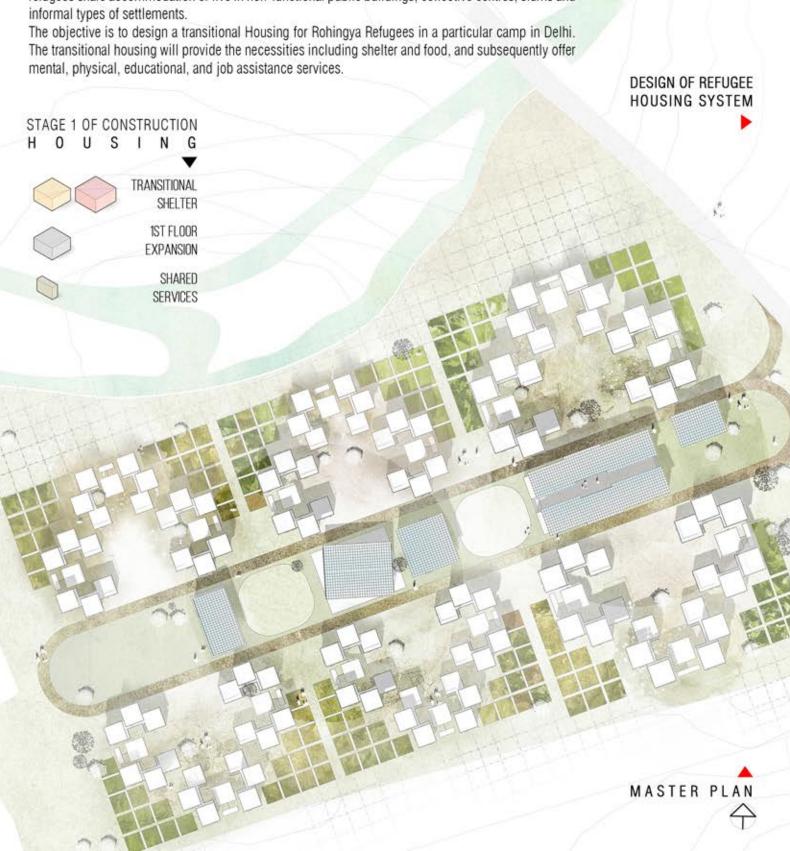
## HOME FOR THE ESCAPED Transitional housing for the Rohingya refugees

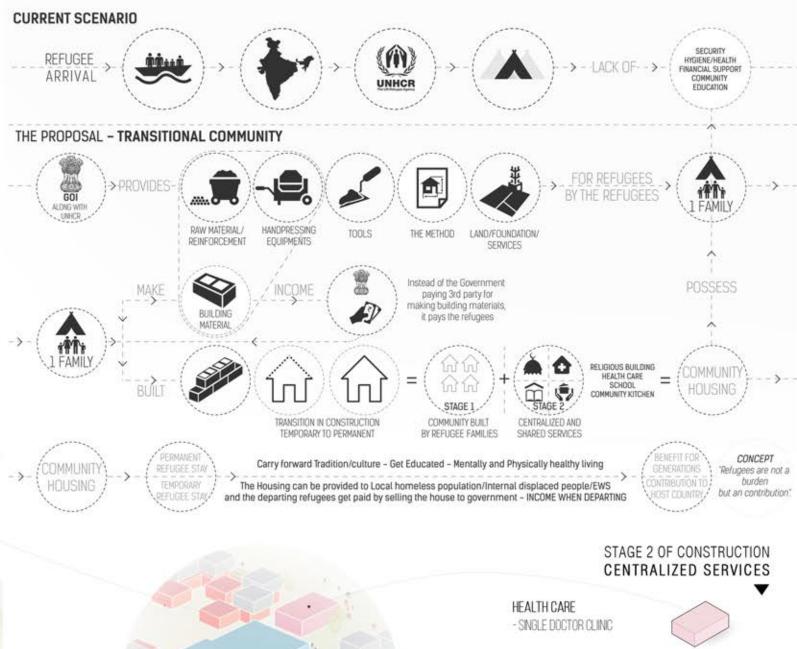
PROJECT TYPE : Housing SEMESTER : X - Thesis YEAR : 2016-2017

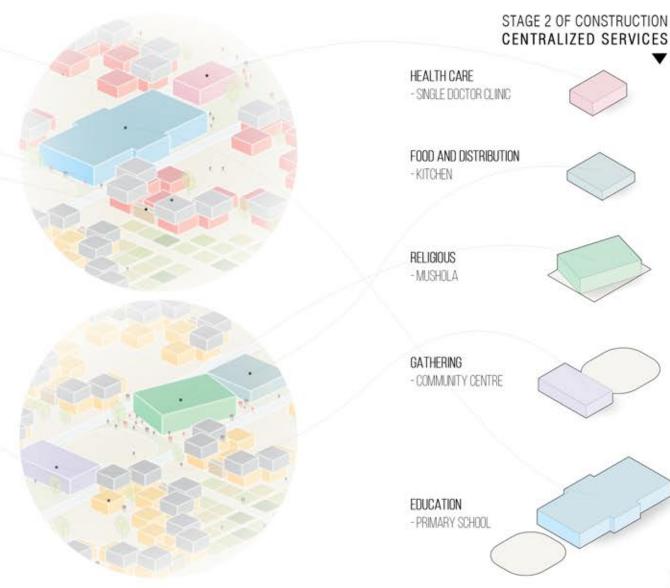
LOCATION: New Delhi, India

Refugees do not have a legal status in India as it is not a signatory to 1951 United Nation Convention for refugees. Yet, India hosts one of the largest population of refugees in South Asia.

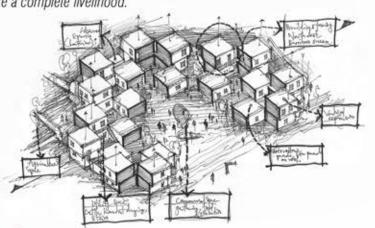
Shelter is a key to restoring personal security, self-sufficiency and dignity. In urban areas, many refugees share accommodation or live in non-functional public buildings, collective centres, slums and informal types of settlements.



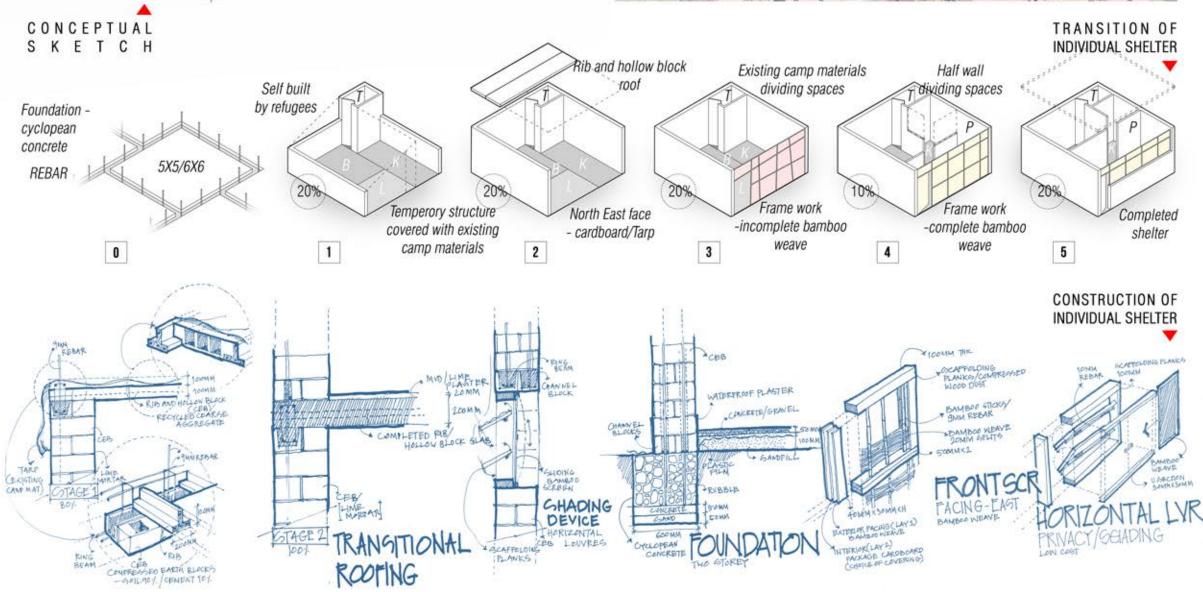




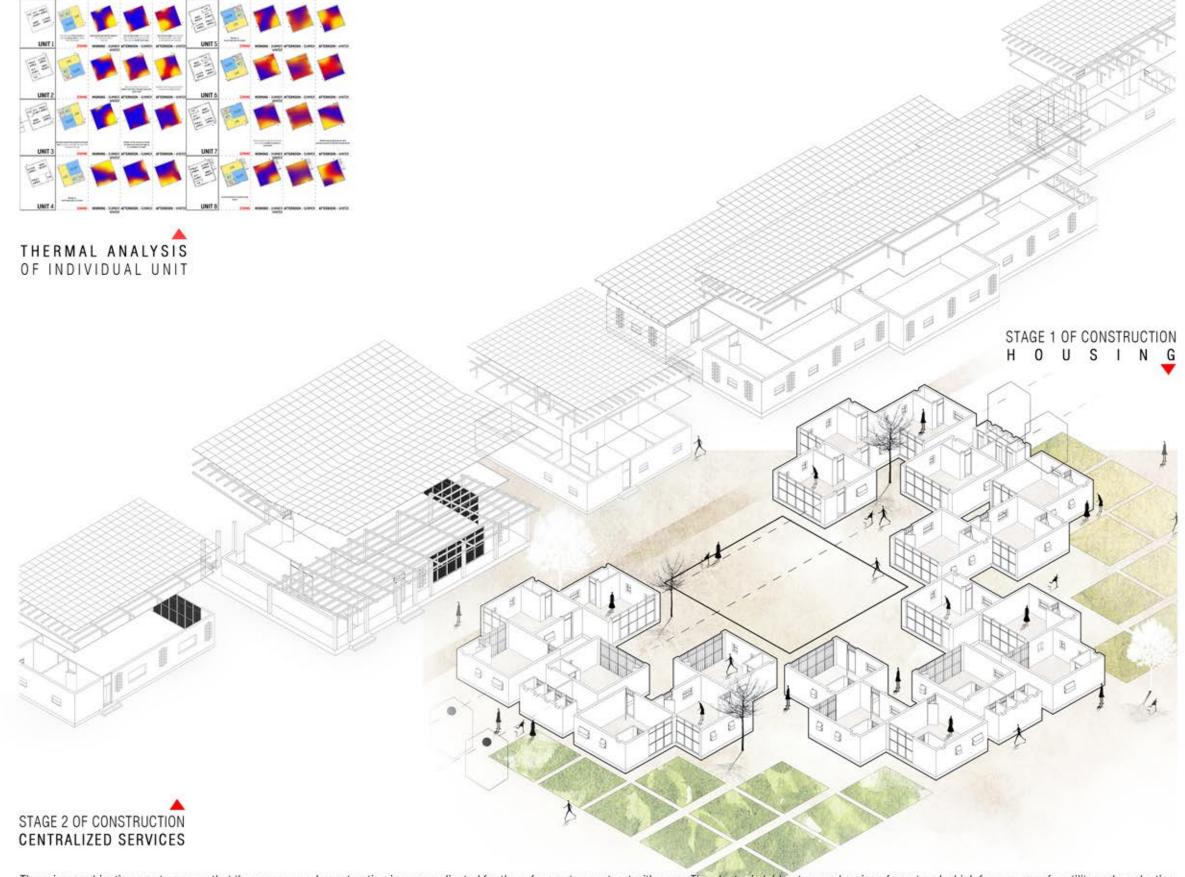
The proposal - The government with the help of UNHCR and NGO provides raw materials to produce building materials for construction and the method of construction is coached to these refugees. Each shelter is taken care by the family who occupies it, from the beginning to the end. The transition of the shelter are of 5 stages and it allows refugees to occupy the shelter in the 1st stage of transition. The transition allows these refugees to custom built their house based on their needs, providing flexibility. The construction is proposed to be incomplex which allows any individual with no construction experience to built it with ease. after the 1st stage of construction (Shelter) the assembly of centralized services begins, those are the supporting services to the housing and it ensure a complete livelihood.







## HOME FOR THE ESCAPED Transitional housing for the Rohingya refugees



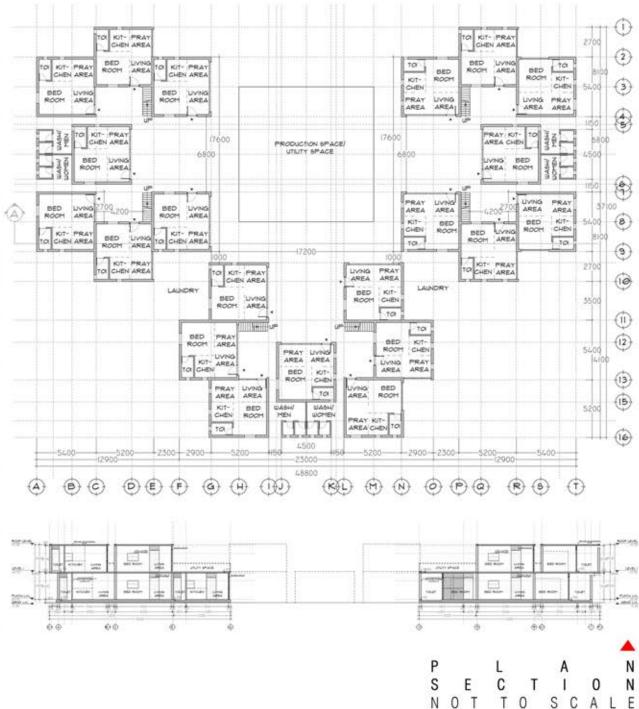
The primary objective was to ensure that the process and construction is uncomplicated for the refugees to construct with ease. The cluster is laid out around series of courtyard which form spaces for utility and production. These spaces are for men and women to engage in production (home industries) of bamboo weave products, agriculture produce etc. and also playground for children that is connected with 'adult' functions. Before leaving Myanmar Rohingya were involved in farming, Agriculture can provide benefits in both rural and urban settings. Each household is prodided with 25sm of land where they can grow less water consuming crops and it will help in sustaining economy, income and also benefit them and the host community.

## HOME FOR THE ESCAPED Transitional housing for the Rohingya refugees







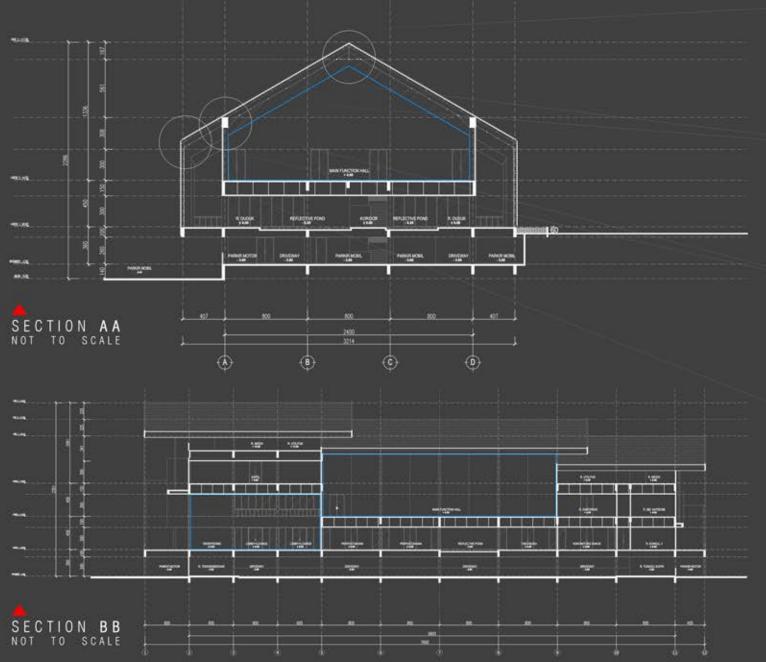


Shelter is a vital survival mechanism in times of crisis or displacement. It is also key to restoring personal security, self-sufficiency and dignity. In urban areas, many refugees share accommodation or live in non-functional public buildings, collective centres, slums and informal types of settlements. Conditions are often substandard and providing shelter poses major challenges.

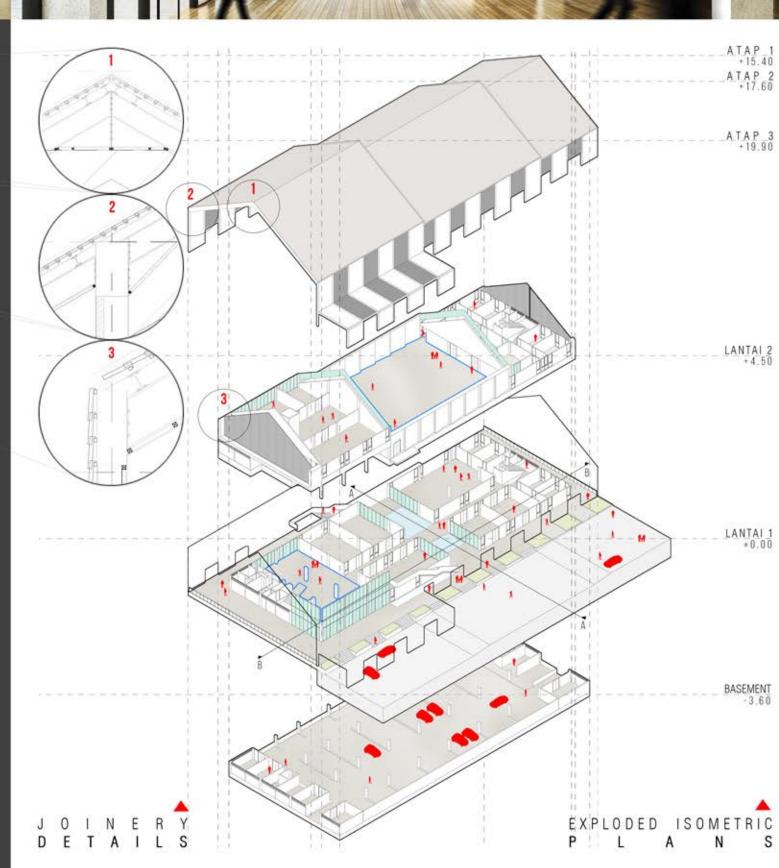
Refugee camps are not considered as long-term settlements when they are planned and built, but the reality is that these camps exist for years and years. This lack of planning contributes to the increased alienation of refugees and to camps that are not necessarily designed in the best interest of the people they are supposed to serve.

The experience of becoming homeless is coupled with the experience of losing a sense of place and belonging in this world. The transitional shelter's goal is to design a more humane environment that restores dignity and identity to the abandoned Refugees. The social contrast of the Refugee shelter will be investigated in order for the individuals to obtain a sense of home and place. Another goal is to lessen the stigmatizing services and offer a positive environment for the individuals experiencing homelessness.



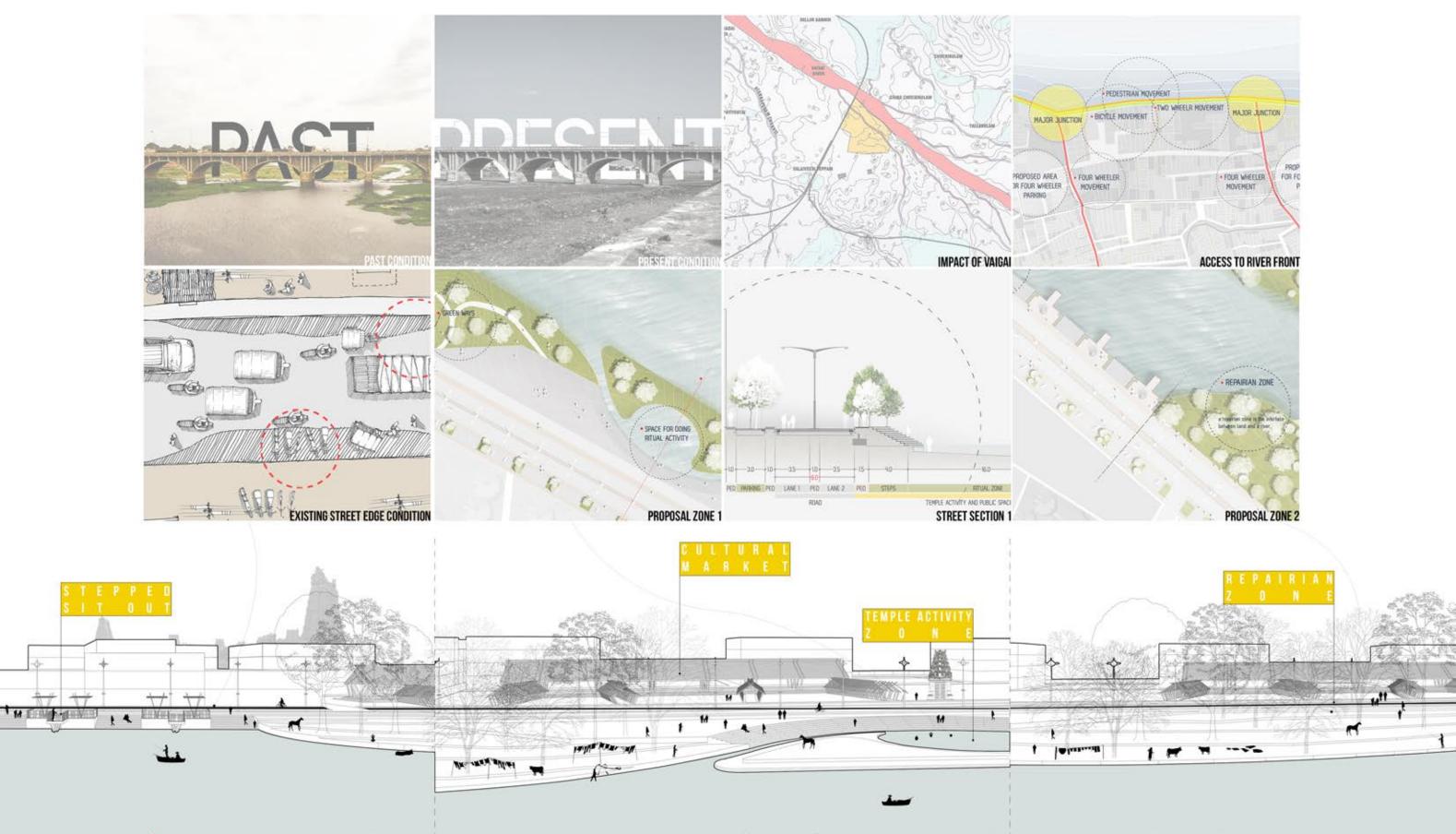


The multipurpose building is located in St.Matius church campus in South Tangerang, Jakarta. The facility is a commercial part of the church which includes function hall, meeting rooms, library and stores and also this building will act as a smaller community centre. The function hall is assigned mainly for marriage receptions which is in close proximity to the church. The reflective pond on the ground floor act as a passive cooler by providing cross ventilation and also enhances the aesthetic quality of the space, it also allows lighting to pass through the inner mass of the building. The roof of the structure tapers down to act as a wall which encloses the entire building, it is divided into three parts, in three levels to allow lighting into the spaces. The large span structure is supported by steel sections and concrete.

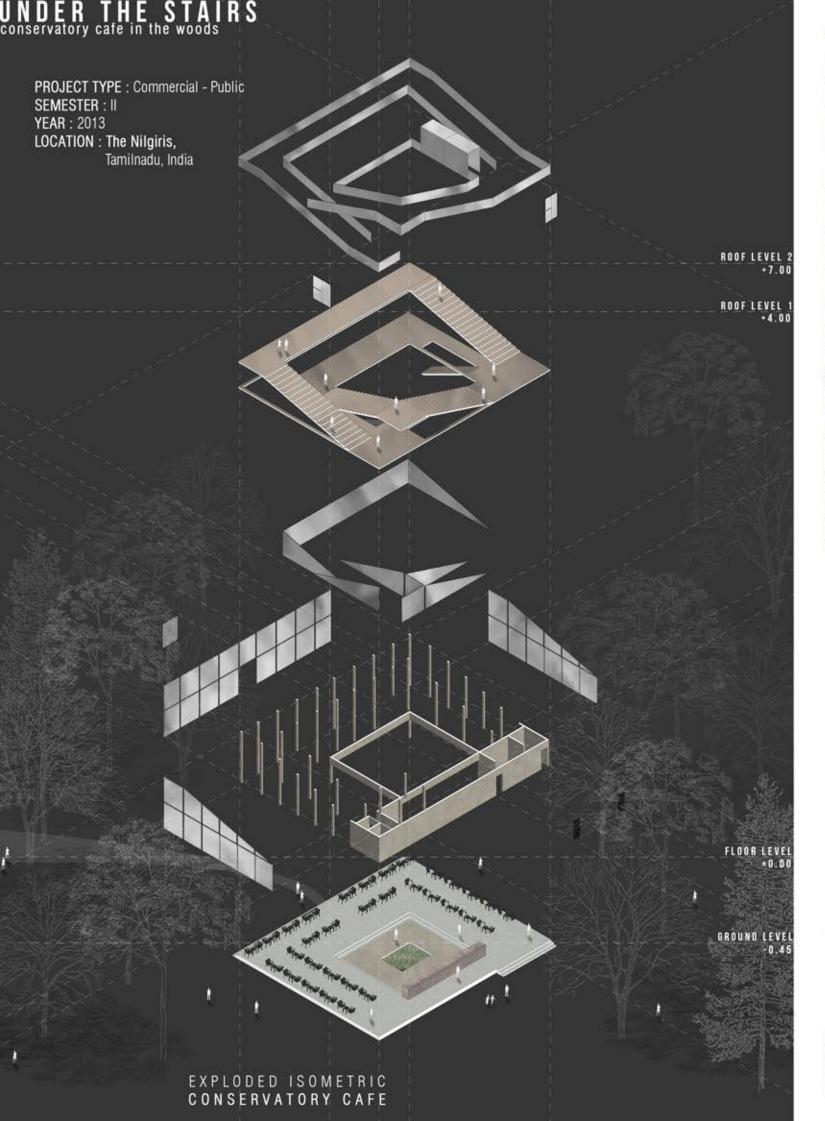


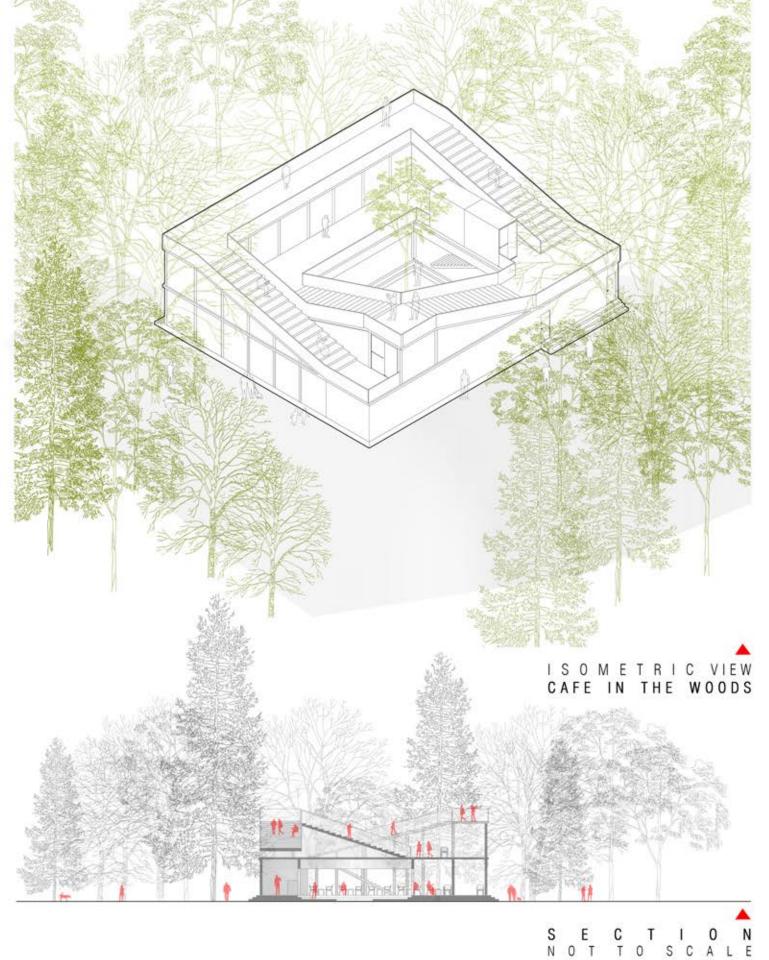






VAIGAI RIVER FRONT DOCUMENTATION/ REJUVENATION Madurai has seen many ups and downs for centuries, with change of rulers. So also Vaigai River, which was once upon a time flowing full, when the people of Madurai establish the river very useful for various purposes irrigation; bathing; drinking and so on. But as of today, what you see is only a frame of a river with sands and patch of stagnated water, used by washer-men to wash clothes. Tamilnadu built the Vaigai Dam, across the Vaigai River to feed irrigation waters to many areas like Theni, Kambam etc., which are on the upper portion of the River than Madurai City. This is also one more reason why Vaigai River, which flows in the centre of present Madurai City, has gone dry. The aim is to develop the Vaigai river front which can be a visually dominant landmark, cultural platform, Natural platform, Public space-recreation and cites identity.





The concept was to create a transparent cafe that offers the guest a unique experience in the woods, to make them appreciate the calmness and the depth of the forest. The site is located deep in the woods in hills of ooty, Forest environment can provide positive effect to the human psychology in so may ways. The cafe is basically a stair well that allows the user to experience the depth of the forest in different levels and also it is an social interaction space., the stairs acts as outdor seating and the indoor seating is below around the courtyard. The material used are fully transparent glass and unfinished concrete, which offers a rustic indoor-outdoor atmosphere.



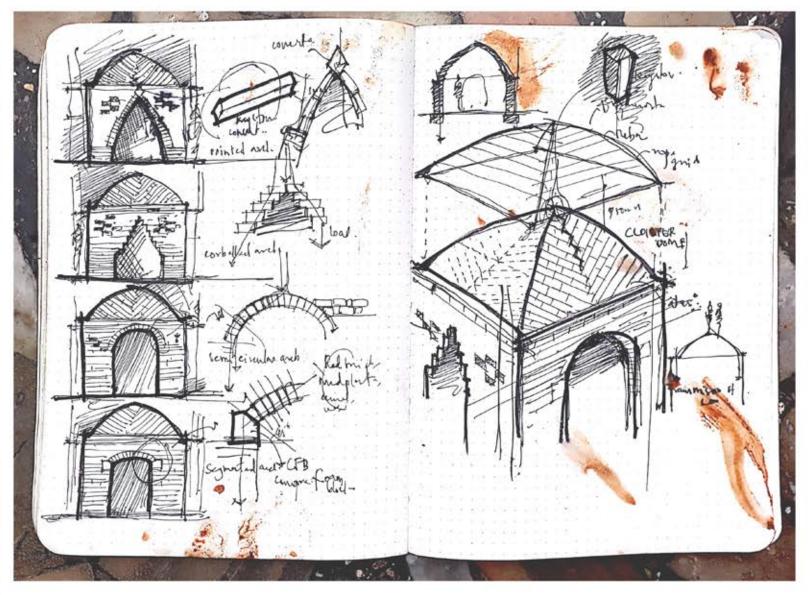












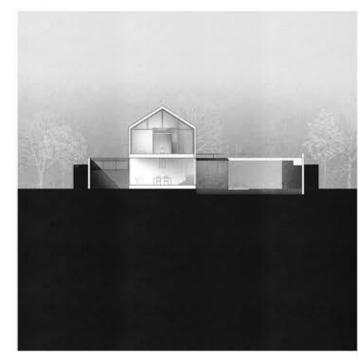


I was involved in the workshop on brick masonry, Arches, Vaulta and Dome conducted by Ar. Panogiotis kostoulas. The design was planned and executed to impart knowledge on the various types of arches, vault and dome. Each of the four walls held a different arch viz. segmental, corbelled, semi-circular and pointed. The front wall consisted of the pointed arch which would subsequently carry the vault in its shape. Students from different years were involved, we were made into groups. Each group was asked to work on one of the four walls with arches and the foundation. The geometry of each arch had to be strictly adhered to, to ensure the proper transmission of load within the structure. The principles of brick bonding had to be maintained and the required angles had to be exactly symmetric on both sides of the arch. Periodically the level on two sides was checked using the water level in a pipe which works due to the equilibrium property of water. We learned to use the various tools for measurement, levelling and chamfering of bricks. The mortar ratios of brick masonry for walls, dome, vault and seating were analysed and worked out based on the needs for the structural components. Sieving sand, combining cement, sand, soil and water in their right proportions to make mortar, cutting and pasting bricks according to the needs was made each day at the site. Placing of keystone for the vault and the last brick for the top-most portion of the dome were times people can never forget. The last moments before placing the keystone were challenging which was planned and executed accurately.

#### GRAPHIC ILLUSTRATIONS

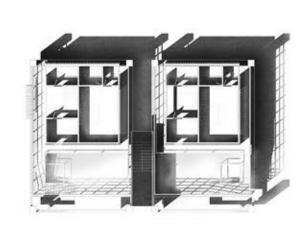
reelance work, illustrations for Evolve studio, Chennai



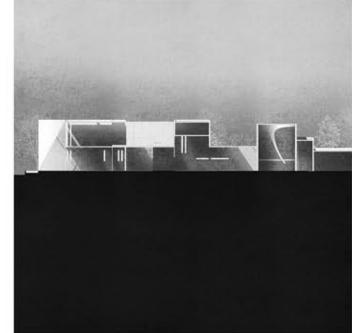










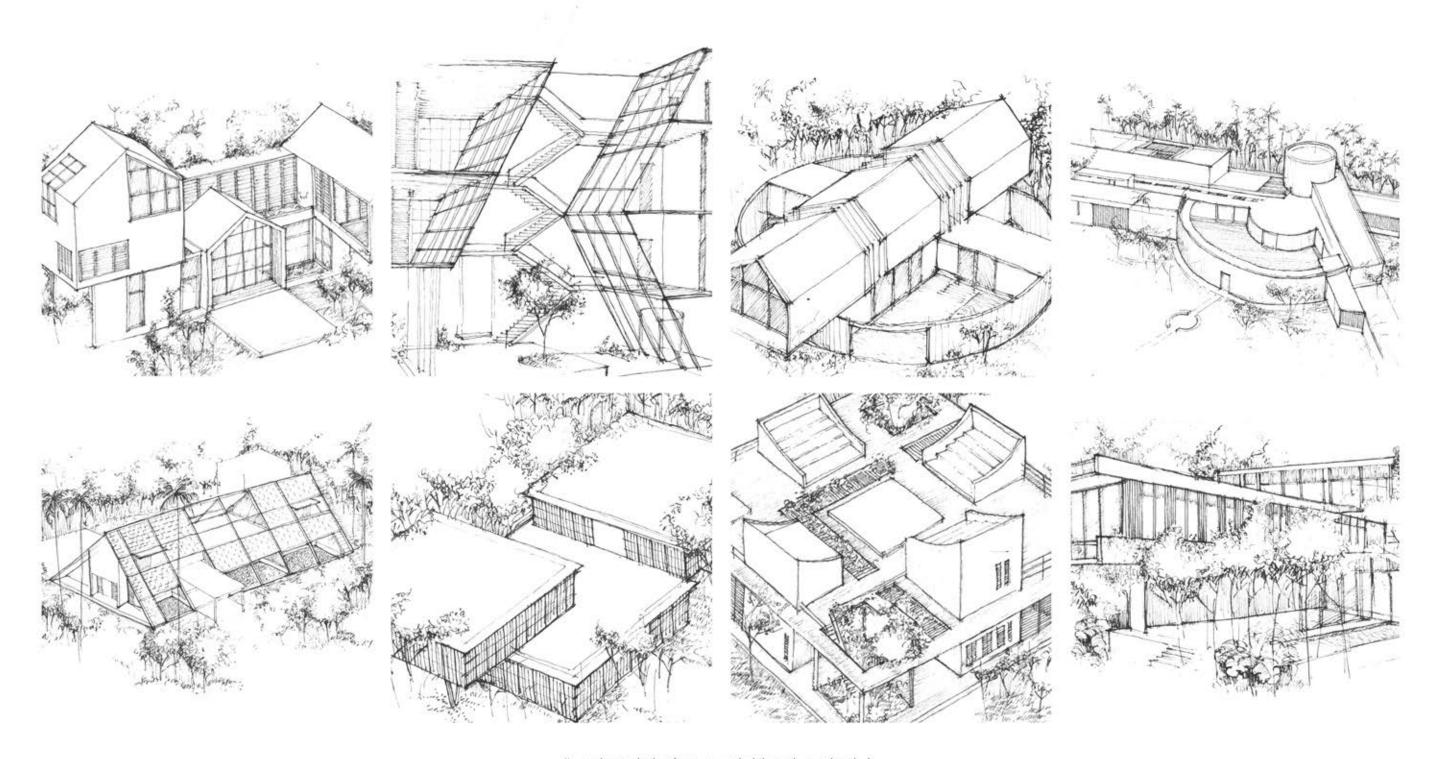




The magic of light and shadow in architeture, Does shadow have the power to give form to architecture?

#### IAND SKETCHES

Pelance works, illustrations for Funlue studio Chenna



'to explore a design from your mind through your hand...'

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