

# paradigm shift

Architecture portfolio  
Aathi Varghese Simon

"At some point you're just going to have to shut up and admit that  
you're wrong. It's not about giving up."

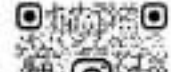
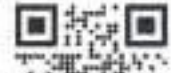
"It's about growing up."



MAJOR EVENTS

- 1998 **DOB** feb 14th
- 2003
- 2014
- 2016 **joined** Barch
- 2017 **attended** zonasa,ANC
- 2018
- 2019 **academic** internships
- 2020 **UD studio**
- 2021 **thesis**
- 2022 **joined connect** art and architecture

# resume



**Akhil Varghese Simon** AKA Symier  
architect

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Nationality- Indian  
symersimon360@gmail.com

**Impassive** Creative **Rational**

Through critical thinking and effective reasoning, I find a subtle balance when it comes to design. As an architect, I always intend to create socially responsible spaces which requires in-depth research and analysis. While the Digital Enthusiast in me always tries to find how a space endeavors in a virtual environment and build a strong relation between architecture in virtual spaces.

"I want to look back on my career and be proud of the work, and be proud that I tried everything."

- Jon Stewart



**february 2022-present**  
**Freelance architect**  
residential project  
**September 2021 - Present**  
**Associate architect | 8 months**  
**Connect art and architecture, Edappal**  
setting up studio , documenta-  
tion, client meeting and discus-  
sions  
3d design and visualizations,site  
supervision

**2019**  
**Paid intern | 7 months(academ-  
ic)**  
**Studio Commune, Trivandrum**  
tree walks, client meetings,  
Estimation, 3d design and visu-  
alizations,site supervision and  
documentation, research, sanc-  
tion and working drawings  
**2019**  
**Paid intern | 3 months(academ-  
ic)**  
**Zynorique, Nagaland**  
working drawings , design, farm-  
ing ,bamboo construction tech-  
niques and methods.



**Ansar English School**  
Perumpilave, Kerala  
primary education  
**Bethany St. John's HHS**  
Kunnamkulam, Kerala  
higher secondary  
**Thejus College of Architecture**  
vailarakad, Kerala  
undergraduate in architecture  
**Thesis(2021,S10)**  
**Re-imagining Mahalaxmi Dho-  
bighat**  
urban renewal of mahalaxmi dho-  
bighat precinct, Mumbai  
**Urban Design studio(2020,S9)**  
UD study of wadakanchery town in  
thrissur, Kerala



**expert**  
AutoCAD, Photoshop, MS power point,  
Autodesk sketchbook, Sketchup,  
Twinmotion, Windows OS  
**Proficient**  
Illustrator, MS word, Lumion,  
Adobe acrobat  
**Novice**  
ArcGIS, Pythor, Rhino



**3-day bamboo workshop at**  
uravu  
**3-dayRCC vault workshop**  
**coordinated all india tour for the**  
batch  
**Shortlisted for ANDC**  
design member  
**zonasa**  
**citation in Fashion Trophy**  
design member  
**participated in SIDC and Coven-  
tion trophy**  
**participated 3-day Rhino work-  
shop**  
**attended kelara architecture fes-  
tival 'SPACES'**  
**Coordinated farewell function for**  
seniors - gudha hawa  
team head  
**Take part in setting up architec-  
ture studio - Connect architects**  
team member  
**leadership, cooperative, exploring,**  
digital sketching, analytical thinking,  
communication, smartwork



**research, Digital art, illustrations,**  
Working in team, Design, Travelling,  
sports  
**Malayalam, English, Tamil, Hindi**



**thejus College of Architecture**  
Thrissur, Kerala  
**Ar. Sameer Ilyas Krueshi**  
principal  
principal@thejusarch.com  
**Studio Commune**  
Kozhikode- Trivandrum, Kerala  
**Dr. Soumini Raja**  
HOD AVANI college of architecture  
souminir@gmail.com  
**Connect Architects**  
Edappal , Kerala  
-Ar, Fathima Rishin  
principal architect , co-founder  
arrishin@gmail.com

# CONTENTS

*This portfolio is a selection of my work from 2016 to 2022 that i believe best reflect my area of interest and my understanding of architecture and urban design. The projects include my academic and professional works with extra curricular acitivities.*

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Under graduate Thesis  
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Raunak  
Lyra's abode

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04 MICELLENEOUS

College acitivities  
Illustrations  
Modelling and Photography  
Digital Art



## 01 ACADEMIC WORKS

01 under graduate thesis  
Re-imagining Dhobi Ghat Precinct

Urban renewal of Mahalaxmi dhobighat precinct, Mumbai

The project was academic thesis in semester 10 of the B.Arch curriculum.

Re-imagining Mahalaxmi Dhobighat is a corresponding attempt to the fact where dhobi ghat is being transformed to industrial space in the city fabric and what negotiation would the city need to make with Dhobis in response to this sudden change in their work synergy.

The idea of the whole project was to find a optimum practical solution to a community problem through the eye of an Architect and urban designer.

Proximity to railway, high land value, high population density and construction restrictions of Dhobighat precinct makes it challenging to come up with best design proposals.

The following presentation is more leaned towards the process and justifications I made, which led to the final design.

project category : Academic work (Thesis)  
Thejus college of Architecture

project status : completed 2020



Location - Mahalaxmi, Mumbai, Maharashtra  
page 4-15

02 urban design studio  
Wadakkancherry Urban study

Urban transformation of wadakkancherry and its precincts

The project was academic exercise in semester 9 of the B.Arch curriculum.

Since this was during the pandemic, it was difficult for the whole batch to work together the whole class was divided into four groups while each group focus on collecting data of specific layers of study.

The study area was already mapped to a small extent by our senior batch, our goal was to remap and constructed the remaining data to a finer detailed urban study. Further the research was taken up to formulated project proposal individually and later a final structure plan for wadakkancherry was to be developed.

Due to lockdown and covid restrictions it was challenging to come up with best design proposals.

My contributions : Data collection and research, Site documentation and detailed analysis, Geo mapping, Issue mapping- Permeability, Project proposal design, Preparation of structural plan(shared work).

project category : Academic work (UD studio)  
Thejus college of Architecture

project status : completed 2020



Location - Wadakkancherry, Thrissur, Kerala  
page 15-21



Where?



Map of India



Map of Mumbai

What?



Collage depicting the social web of Mumbai.

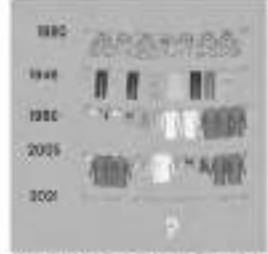


Illustration depicting evolution of work and life synergy

Why?



live-work synergy of dhobighat being changed



to separate living and work place

## Re-Imagining Dhobi Ghat Precinct

Urban renewal of Mahalaxmi dhobighat precinct, Mumbai

Can we call handwashing skilled craftsmanship if not in this 21st-century hand washing will be easily replaced by machines and gradually the traditional dhobiwalas will be left without clothes to wash in a near future? A workplace constructed in the 18th century for manual washing during the rule of the British in colonial India, where Indians were forced to work and launder the clothes of British military and officials.

Later after independence, this group of people who worked there stayed there manifesting the space into a workspace that caters to one-third of Mumbai's laundry needs today. And now

Dhobighat is on the verge of undergoing a big change as their housing is being shifted to an adjacent location the whole settlement is formed into an industrial space with new washing machines and other supporting facilities.



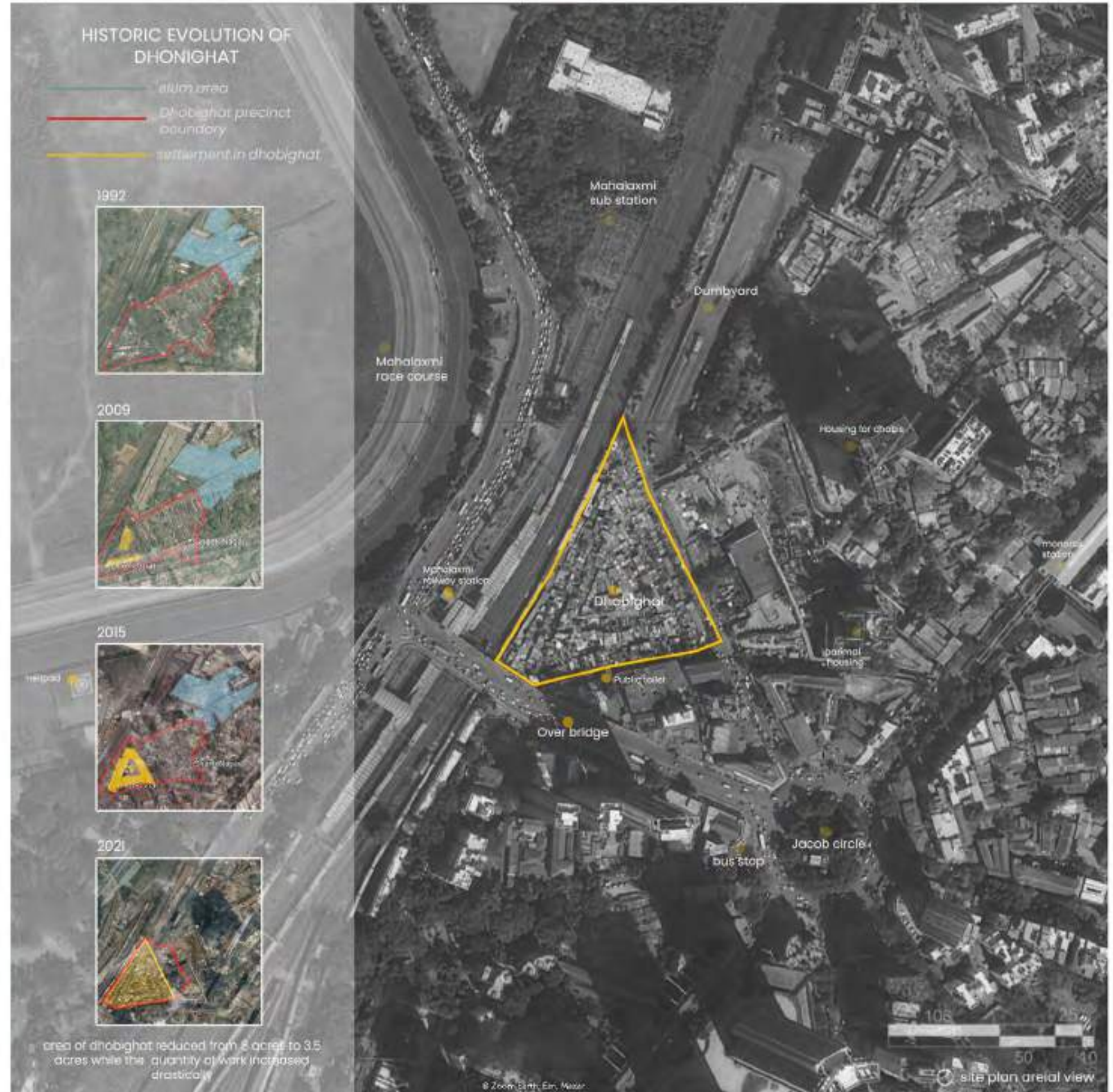
dhobighat Now and Then



area inside yellow line is responsible for **one-third** of mumbai's laundry need!!!!

zoomed areial view N.T.S

Major landmarks and structures around site area is marked in yellow dot



study area consist of 1km stretch around dhobighat, defined by area within which basic requirments of day to day life of dhobis is functioned.



ECOLOGICAL  
CONTEXT

ECOLOGICAL MAP



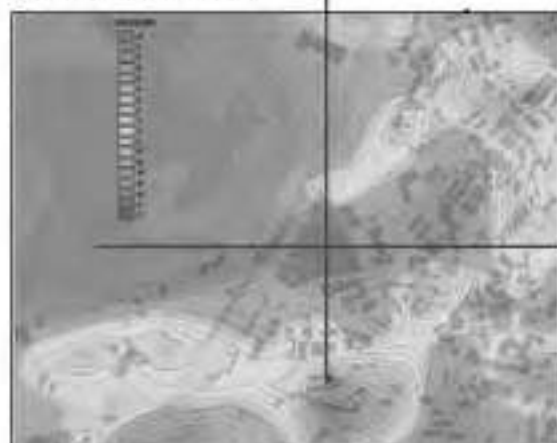
Sea breeze blows over the site which contains salt thus measures should be taken for safety of machines.

OPEN SPACE AND VEGETATION MAP



The existing open spaces near the site is being private, lack of open spaces for dhobis

TOPOGRAPHY MAP



formation topographical dip in dhobighat

Defining the site  
boundaries

So as to carry out indepth study ,site boundaries was assumed.

dumbyard present in the study area is incorporated into the site as it is left unused of its potential and have negative impact over dhobighat.

two major parts of dhobighat is incorporated into project site.

east boundary of site is fixed along the railway line.

south and south west boundary is fixed as same as the extend of dhobighat.

east and north east side is fixed along the peripheral of existing road.



SITE PLAN  
NORTH

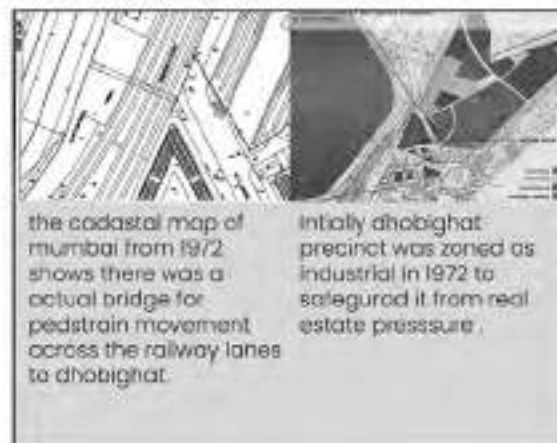
NEIGHBOURHOOD  
CONTEXT

CADASTAL MAP



Plot 2 belong to BMC which include dumping ground and drying areas of dhobighat is occupied by slum dwellers. Plot 44 belong to BMC and is given as lease to dhobiwalas

ANALYSIS



the cadastal map of mumbai from 1972 shows there was a actual bridge for pedestrain movement across the railway lanes to dhobighat. initially dhobighat precinct was zoned as industrial in 1972 to safegured it from real estate prusure .

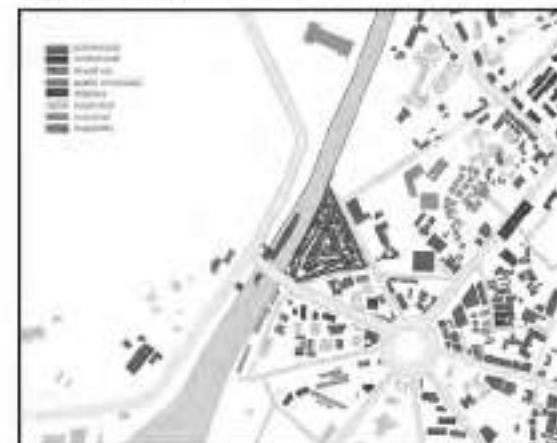
Over the course of time,dhobighat which was built adjacent to railway station for the easy transportation of goods lost that connectivity.

LANDUSE MAP



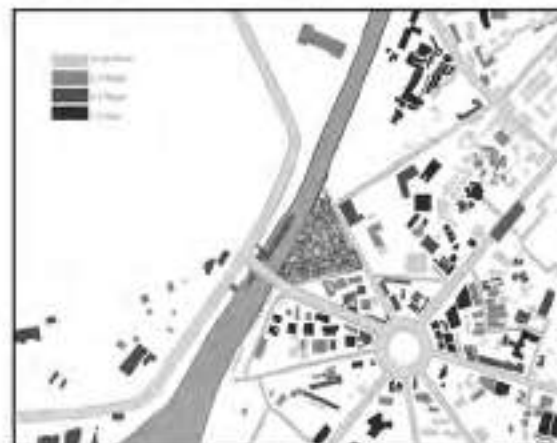
Landuse of Dhobighat protect it from external real estate pressure and dhobighat could only be developed as service industry.

BUILTUSE MAP



built use being shifted to more residential form industrial use, while dhobighat remains mixed use.

BUILT HEIGHT MAP



Varying building height suggests that development is more vertically.

FIGURE GROUND MAP



Fine grain near Dhobighat and lack of open spaces





being a neglected space..  
formation of urban backyard



Key plan

the land around the dumbyard is almost residential in use, so the presence of dumyard in the location is questionable.

Exhaust from truck traffic has an impact on air quality, waste dumping and washing clothes are to extreme ends working of this to services in close proxminty could create an adverse effect.

the residential apartment building that being constructed under SRA scheme for dhobiwalas and adjacent slum dwellers



the major acitivy node being the road to dumbering ground which turns into a busy night market space.

many high rise real estate building is being emerged around dhobighat precinct in close proximity (42 floors)



dhobighat being srrounded by physical barriers like flyover and railway line from south and east side and to the north of site is dumbering ground thus making it a urban backyard in the city fabrics.

from the city skyline we could see that dhobighat is being left out while the entire neighbourhood being shifted to a new era



some space different perspective



Section

Section inticating Dhobighat as urban backyard in the city fabric



## Understanding the working of Dhobi ghat.

Washing time too long it is affecting their health so that rescheduling in their work hours is important.

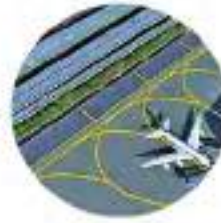
Multi purpose usage spaces due to lack of space.

Proper inspection should be done for clothes.

Machines are used more now compared to earlier time. spaces should be properly allotted for this machines.

### Activity providers.

Bada kham



Chota kham



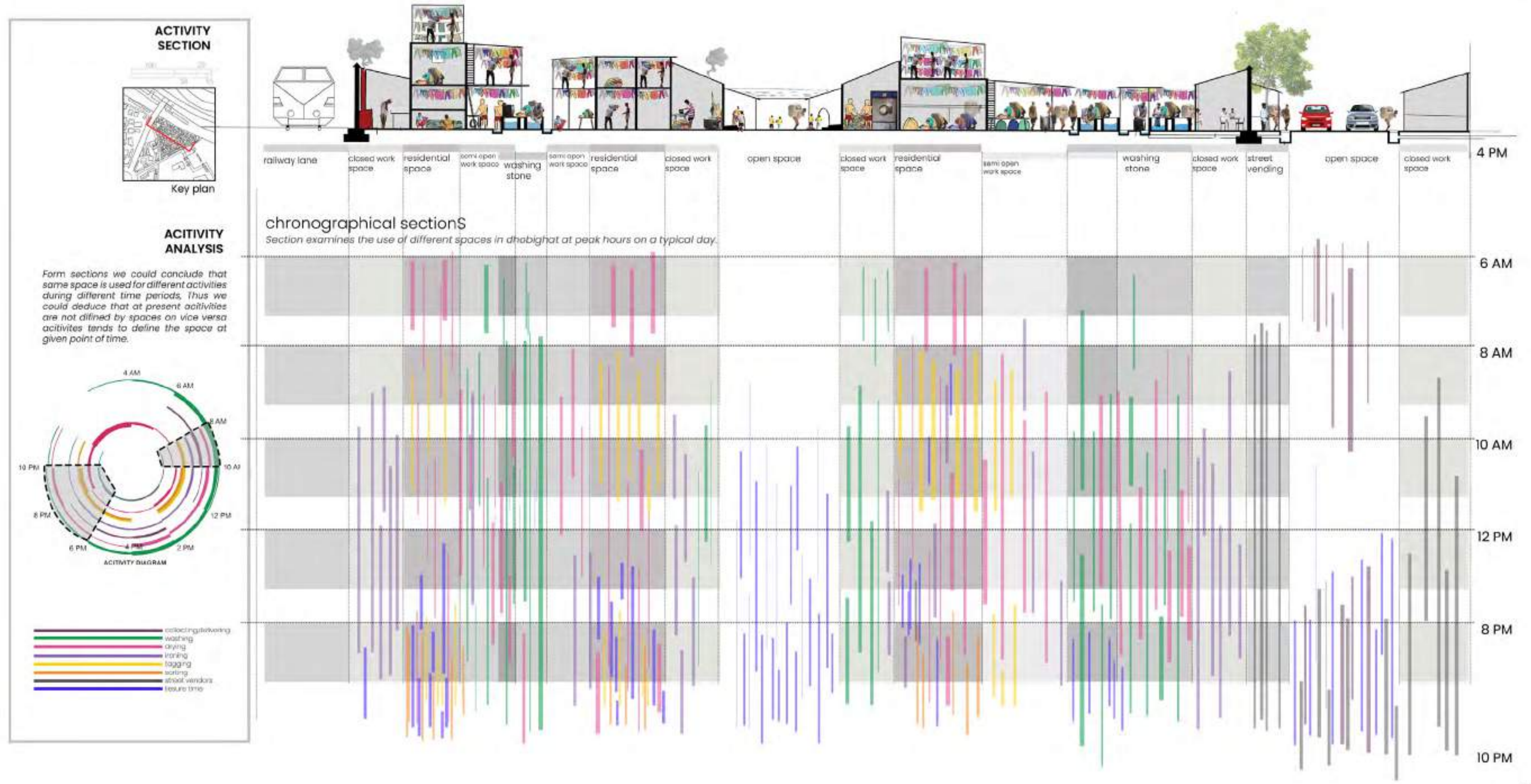
WORKFLOW DIAGRAM

### Elements of workplace.



Inferences







EXAMINING MORPHOLOGICAL CONDITIONS

Storage spaces used for storing chemicals (temporary structures).

Existing covered structures used as ironing areas located in periferals and central portions of the site.

Main entry to the dhobighat is encroached by the parking, this disrupts the movement of dhobis.

Concrete block built in 1990s for keeping clothes is used for ironing and as a space for rest.

Weak columns that holds the existing bhettis in dhobighat.

Dhobighat is enclosed by 3.20 meter high walls from every side making it act like an enclave.

The other entries to dhobighat is much narrower that only two wheeler could pass through.



Open drainages throughout site causing pollution and accidental fall.

Openings to sky is too narrow and small, that water takes more time to get evaporated making surfaces slippery.

Dhobighat as it been designed in 1990s lack the space to store large amount of clothes during the washing.

Circulation spaces is interecepted by washing machines, indicating the spatial constrain dhobighat is facing.

Exposed water intake pipes going through circulation spaces.

Lack of natural light in circulation spaces.

Circulation spaces defined by temporary elements in most parts lack proper pavement.

The main switch board near dwelling without proper safety.



The physical setting of dhobighat during an evening showcasing the ropes and drying spaces in warm sky.

Dwelling units with more than one room with opening without enclosure doors.

One room residential unit with kitchen loring areas and storage spaces and drying ropes tied along the ceiling.

Public toilet used by dhobis for their daily needs.

Dwelling units with shuttore and stool ladders attached to it for the movement.

steep ladders leading to first floor in dwelling unit taking up the useful space.

Effective use of space of space beneath the stairs as storages during the night.

SOCIAL INFRASTRUCTURE

No community spaces is in proximity for dhobighat community.

No open spaces for playing for children thus day tends to spend time on mobile phones in a young age.

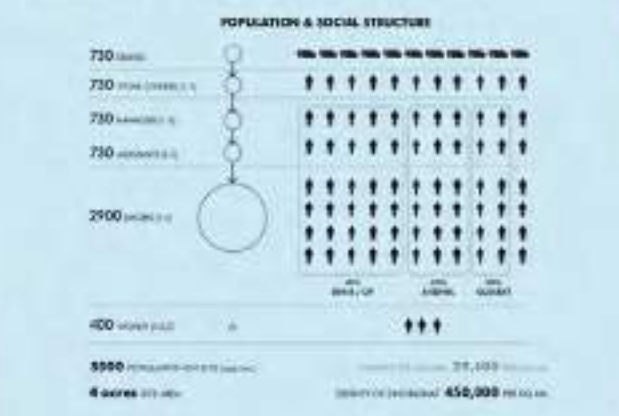
No recreational spaces for dhobi workers.

- BANK
- HOSPITAL
- MALLS
- MOSQUE
- BANK ATM
- SCHOOLS
- CHURCH



SOCIO-ECONOMIC ASPECTS

Women population is too low in the site, women population is not much involved in dhobi works as men.



Optimum no of people working dhobighat-1873 but currently a number of 2500 people is employed in dhobighat. (shops, clothes collection) etc Out of which 730 family is having housing under SRA scheme.

Dhobighat and films

What attracts tourists to dhobighat?

Dhobighat

Thupakki

Local people using dhobighat for photography etc.

Colorful ambience of dhobighat.

Kaala

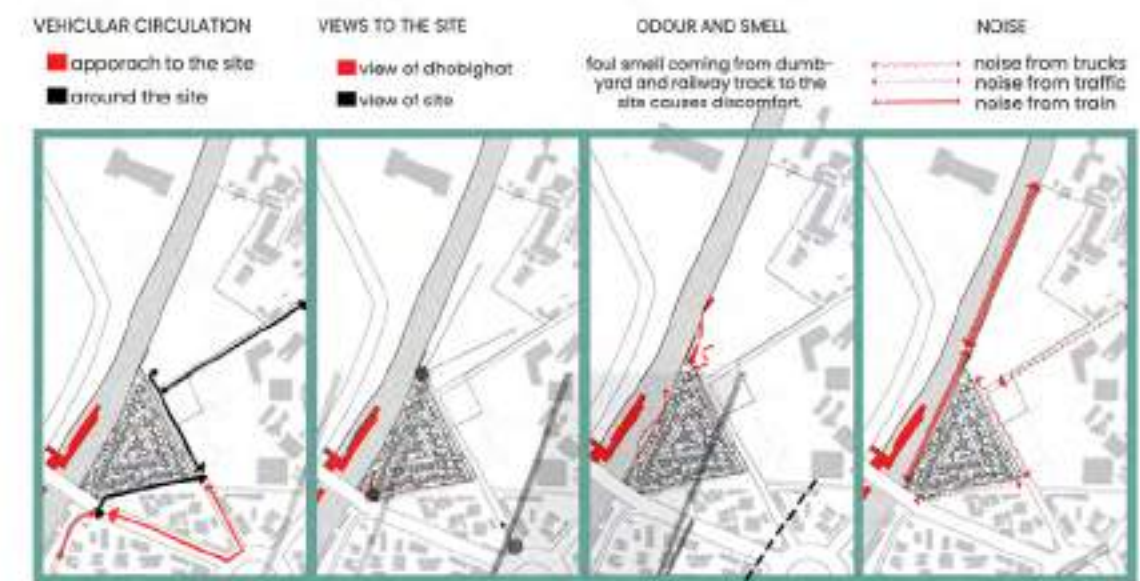
Dhobi ghat is portrayed as good vibrant background in movies to show the nature of life and situation in mumbai.

Still some movies have negative impact on the site. Patrolling the slum life and weaker community.

Tourists viewing dhobighat from view point.

rhythmic pattern of washing clothes

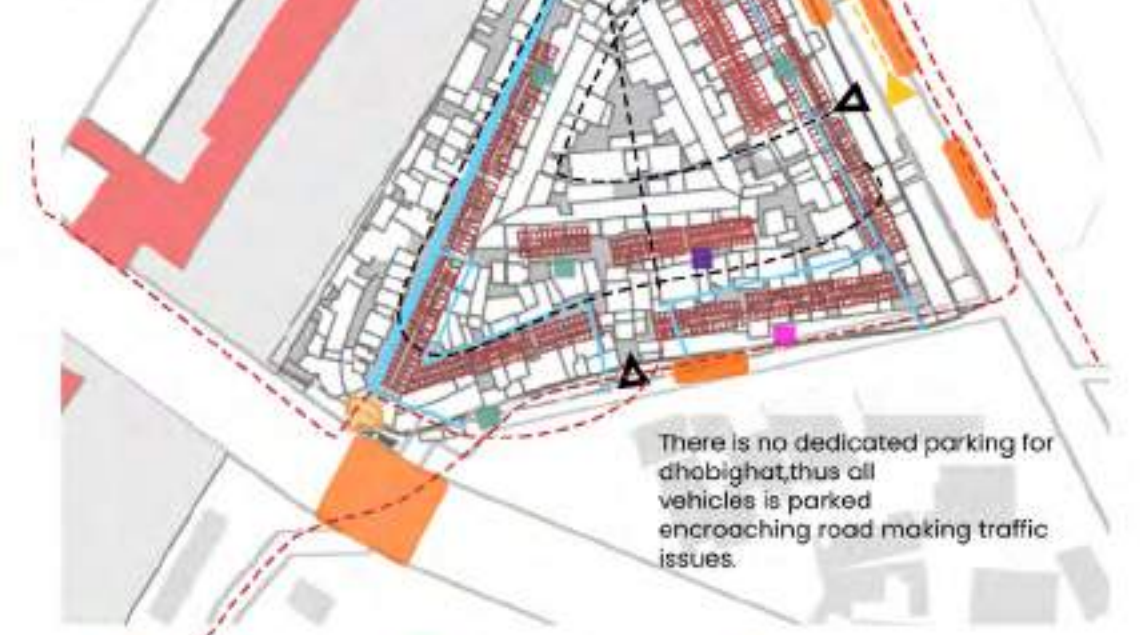
INTERSECTING PHYSICAL INFRASTRUCTURE



ANALYSIS

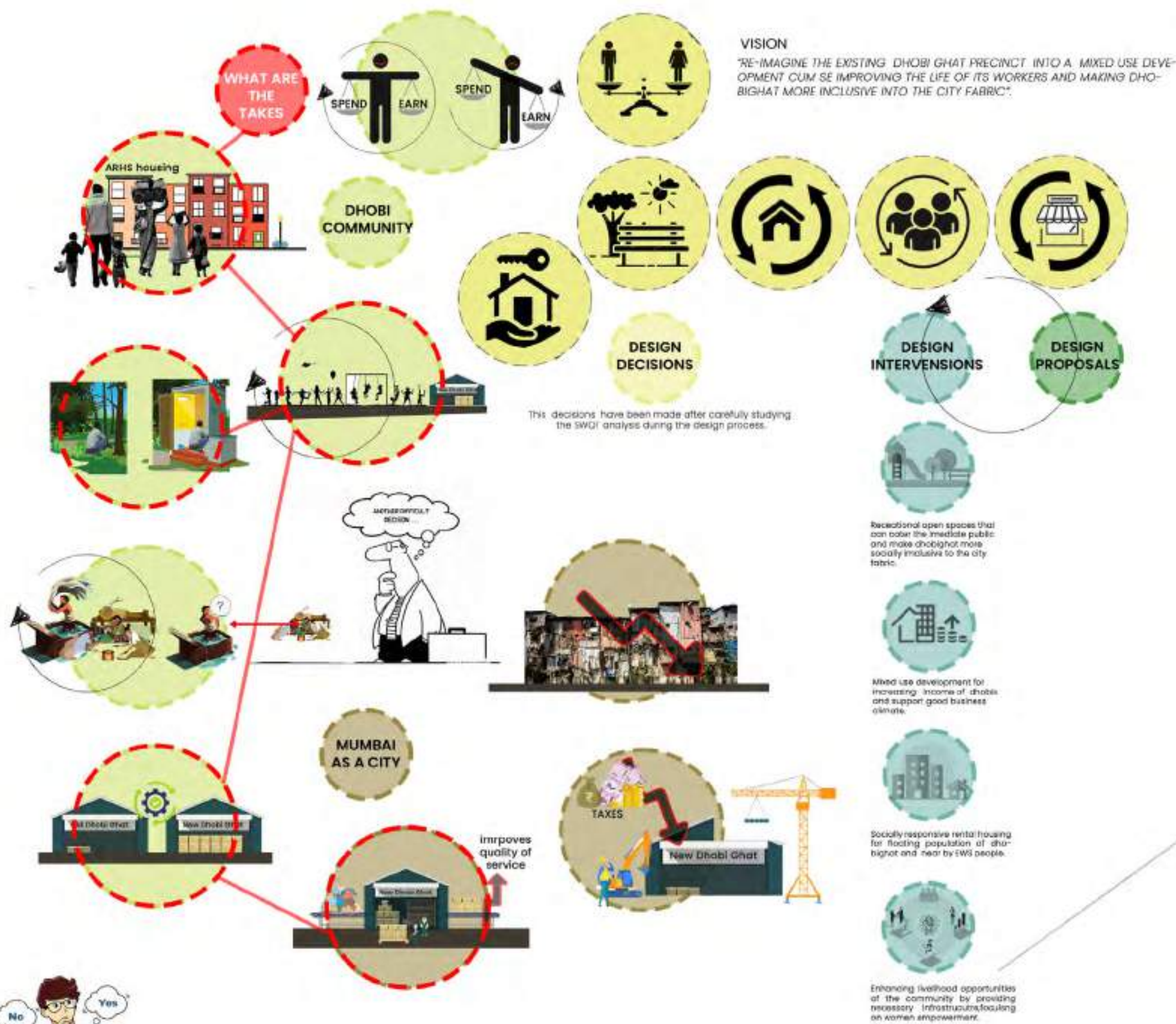
Improper solid waste management in the site. Even there is nearby railway station there is direct connection to the site.

There is proper road connectivity, but no access point for vehicles in dhobighat. Drainage is only provided for washing stone, no drainage system for housing units.



- View points
- Toilets
- Tea stall
- Electric meter
- Washing stones
- Drinage
- Parking
- pedestrian entry
- Vehicular entry
- pedestrian movement
- Vehicular movement





**1) re-designing dhobighat**

**why?**  
the existing dhobighat is deprived of open space and is having many occupational hazards.

**how?**  
Rearranging and re-organizing the existing dhobighat to increase its economical output.

**2) over bridge proposal**

**why?**  
The existing potential of railway is unused.

**how?**  
By creating a public pathway from railway station to Babu Akopal road through dhobighat making it the easiest way to railway station.

**4) migrant housing**

**why?**  
Catering to the housing demand of floating population of dhobighat.

**how?**  
Dwelling units are categorized as family block, female dormitory block and male dormitory block.

**5) facilities for empowering women population**

**why?**  
Existing dhobighat is over powered by men in work force.

**how?**  
A strategic approach for providing spaces for improving social interaction between women. Community kitchen, daycare and alternate income generator.

**3) market space renovation**

**why?**  
What can we give back to the city through this project.

**how?**  
A open market space is incorporated inside dhobighat where all people from the immediate surrounding could use it all time.





**Initial Phase  
clearing  
dumbyard**



**Phase I**

Road is re-structured and site is defined  
first part of the project will be to clear the dumbyard and prepare land for construction  
construction of ARHS complex is completed in the acquired site construction of basic amenities of housing project is carried out in the site like community kitchen and paper packing and second hand clothes

**Phase II**

shifting of machine washing into temporary structure made in the area where market place is to be built  
At this stage washing is mainly done thorough washing stone for one day the dhobighat presume the work with washing machine while washing stone is rearranged  
after rearranging washing stones the construction of rainwater harvesting tank and waste water treatment plant is carried out along with bio swales

**Phase III**

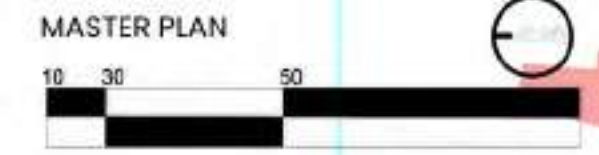
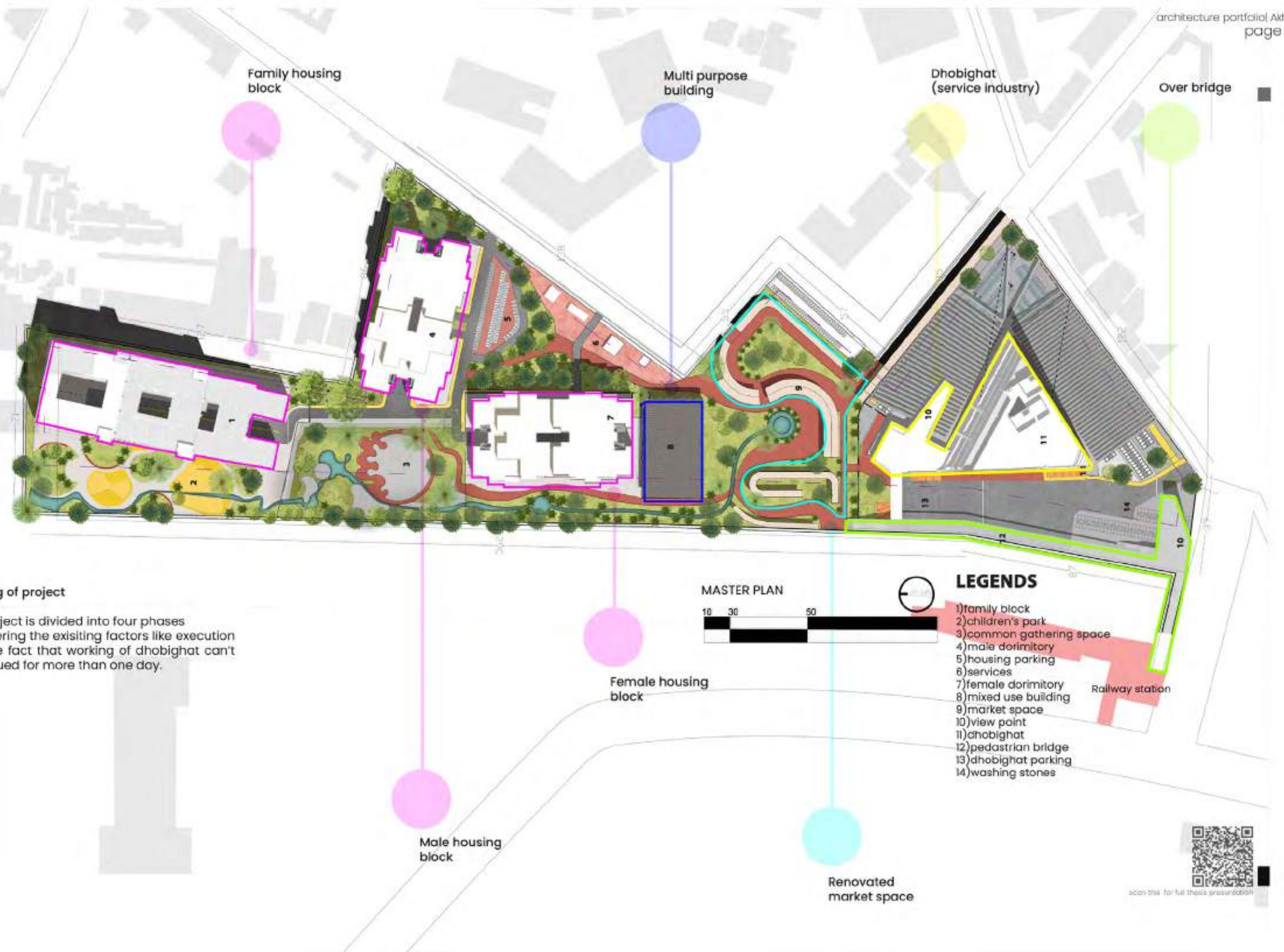
with this the construction of new dhobighat begin without affecting the working of the dhobi ghat  
while construction is carried out through this phasing way  
At extreme risk condition the new washing machines are introduced in the temporary structure and dhobighat works continues manual washing can be done the second part of dhobi ghat

**Phase IV**

As new dhobighat construction reaches a end washing stone in the second part of dhobighat is shifted into main area  
once the works are finished washing machines are shifted in to the new dhobighat phase by phase  
with this the construction of over bridge and market place can be resumed with the construction of day care and other remaining works

**Phasing of project**

The project is divided into four phases considering the existing factors like execution and the fact that working of dhobighat can't be pasued for more than one day.



**LEGENDS**

- 1) family block
- 2) children's park
- 3) common gathering space
- 4) male dorimitory
- 5) housing parking
- 6) services
- 7) female dorimitory
- 8) mixed use building
- 9) market space
- 10) view point
- 11) chobighat
- 12) pedestrian bridge
- 13) dhobighat parking
- 14) washing stones



scan this for full thesis presentation



Where?



Map of India



Map of Thirissur



A glimpse of Wadakkanchery



to separate living and work place

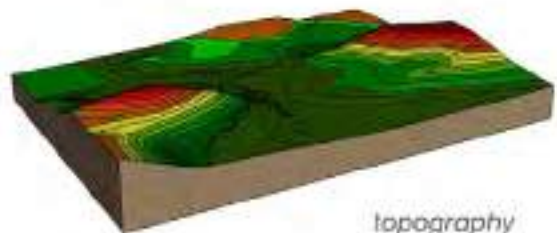
## Wadakkanchery Urban study

Urban transformation of wadakkanchery and its precincts

Wadakkanchery is a major town in Thirissur. Up until 1860, this area was part of Chelakkara Taluk. Recently its status upgraded to a municipality, by merging with the mundathikode panchayath.

### Why Wadakkanchery?

Wadakkanchery had a glorious past which was rich in culture, art, resources, But its upgradation into municipality also comes with the need to create an image of the urban environment keeping its cultural and administrative status.



topography

Lorem I



Illustration representing the cultural and heritage significants of Wadakkanchery

Major landmarks and structures around site area is marked in yellow dot

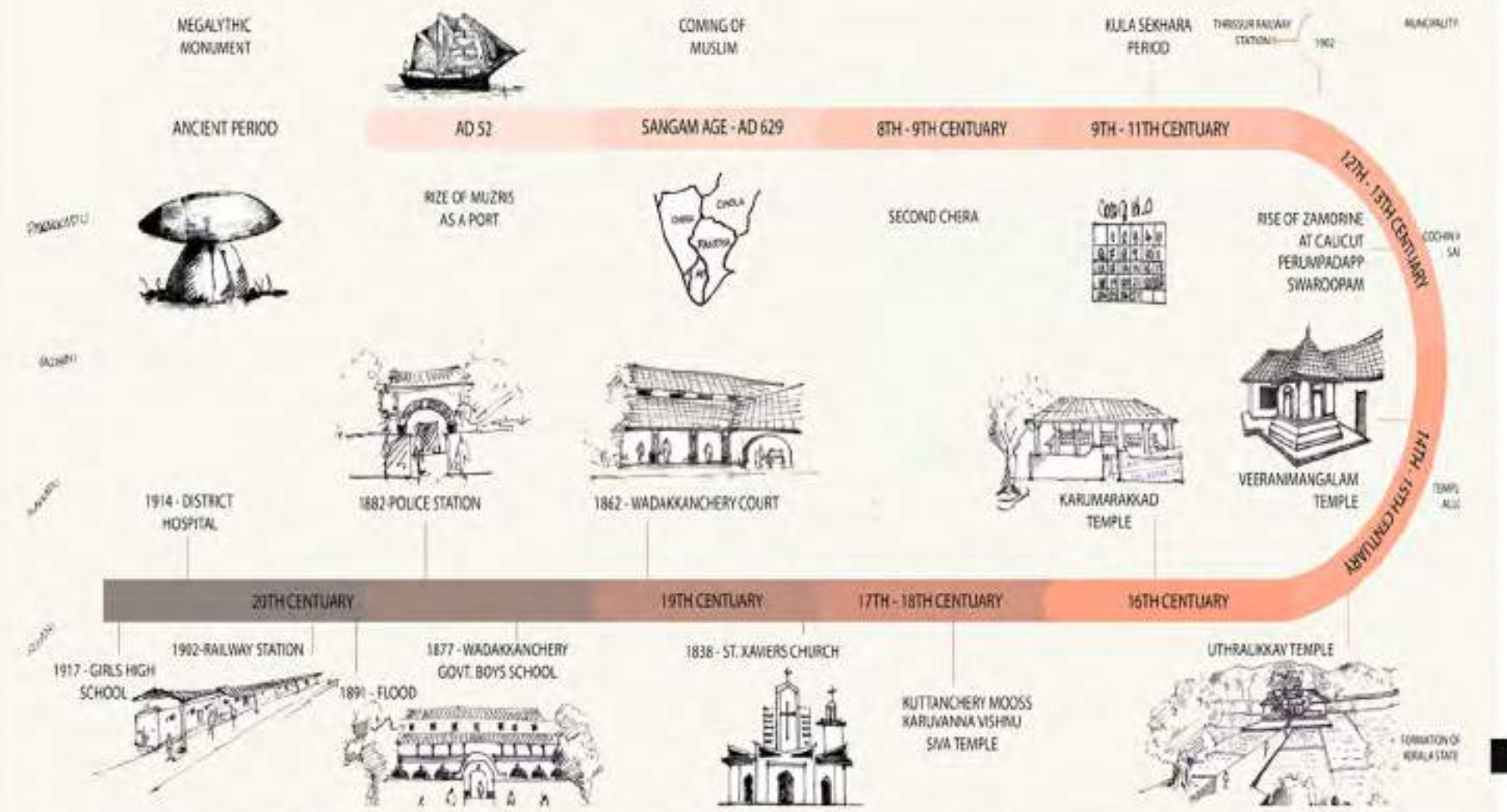
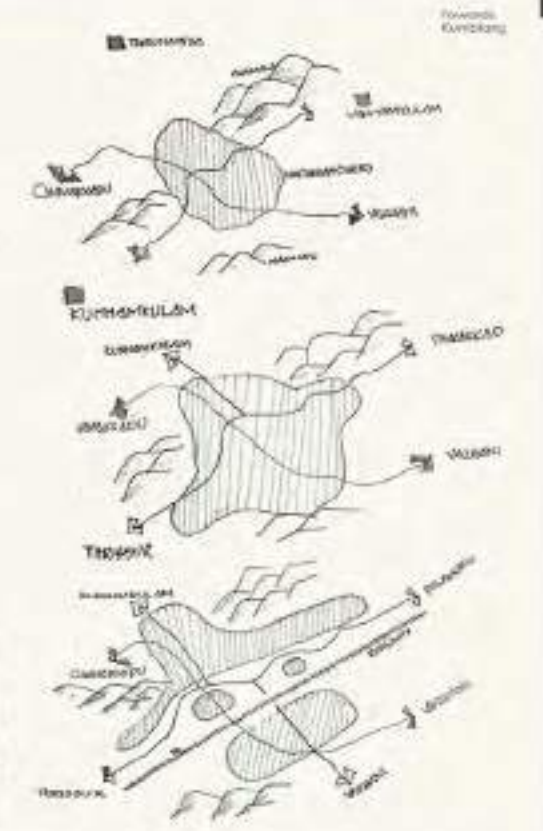
### CONNECTIVITY



### HISTORICAL CONTEXT

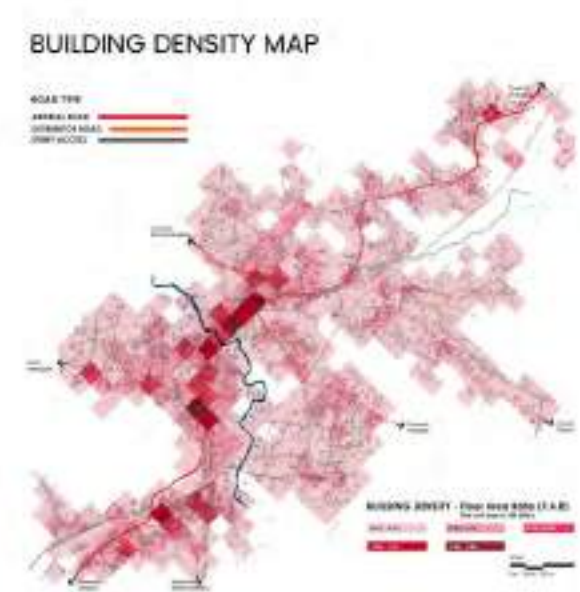
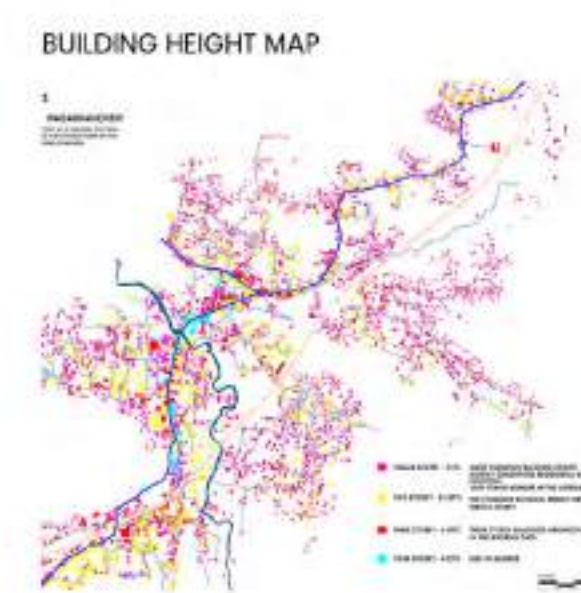
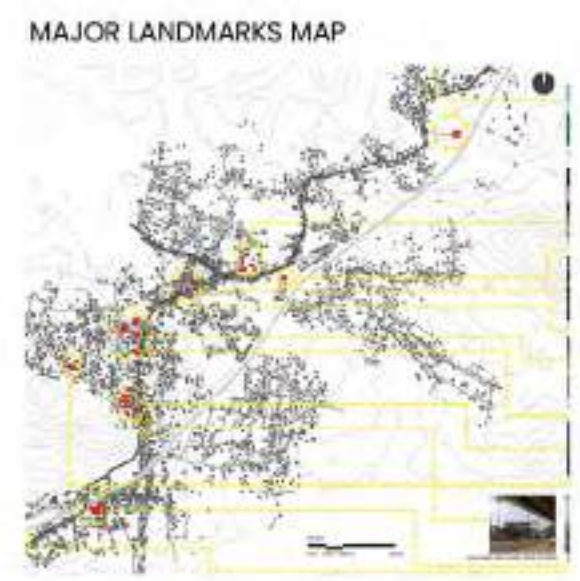


Railway splitted the town into two N-W and S-E portions. Efficient road transportation lead to the growth of north west side in wadakkanchery town which also lead to the slow phase development compared to the core of the wadakkanchery.



study area consist of 1km stretch around dhobighat, defined by area within which basic requirments of day to day life of dhobis is functioned.



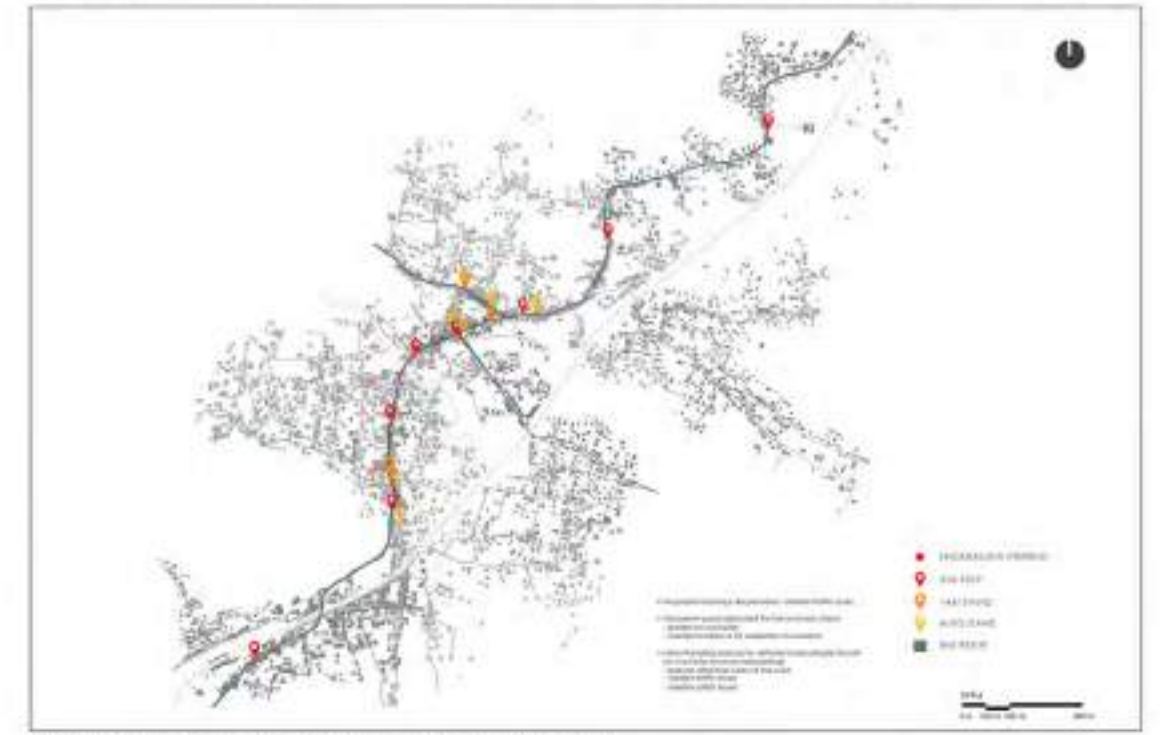


this maps have been prepared by the whole class and during initial study process

## permeability study

our group was instructed to carryout in depth study about the permeability layers of wadakkanchery

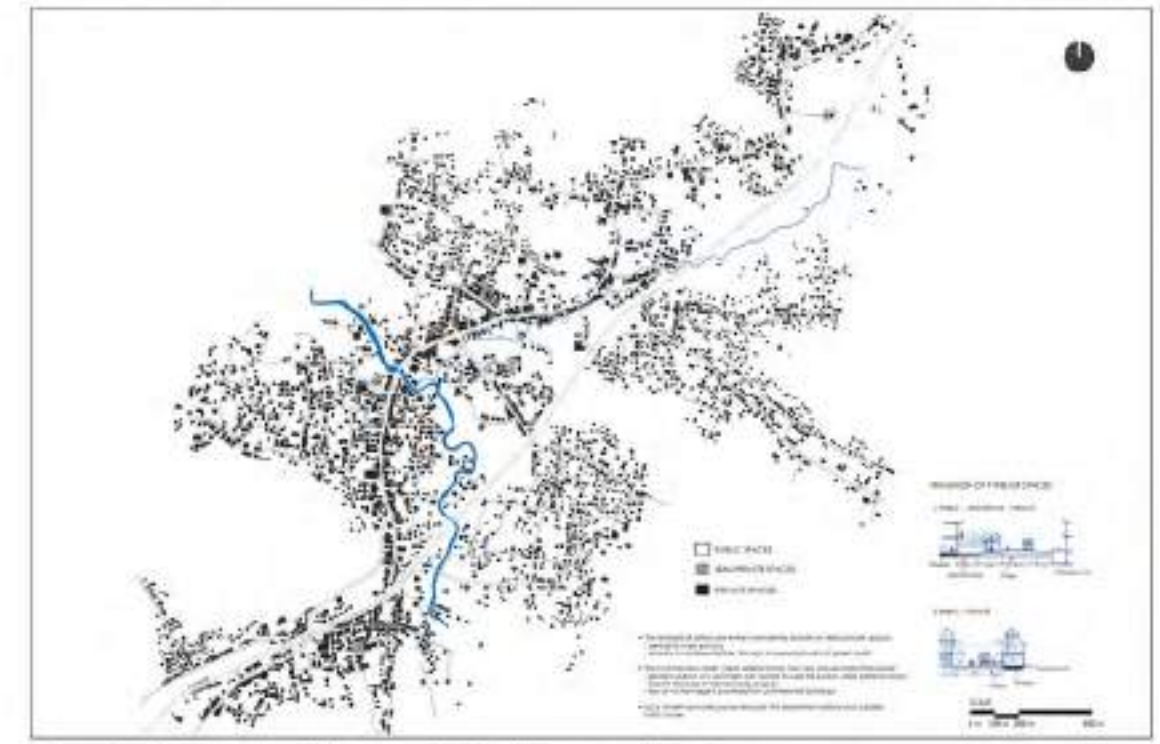
## TRANSPORTATION AND PARKING



No proper bus bays are provided- creates traffic issues  
No proper space allocated for taxi and auto stand -parked on road side  
-creates hindrance for pedestrian movement

lack of parking spaces for vehicles forces people to park on road side(encroached parking) reducing the effective width of the road.

## NOLLI PLAN



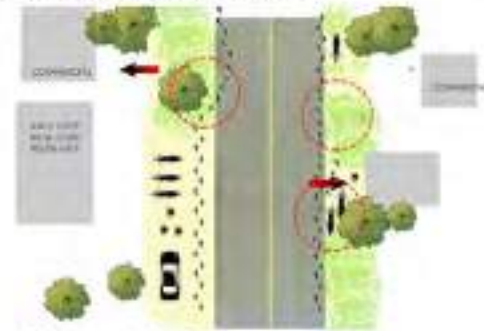
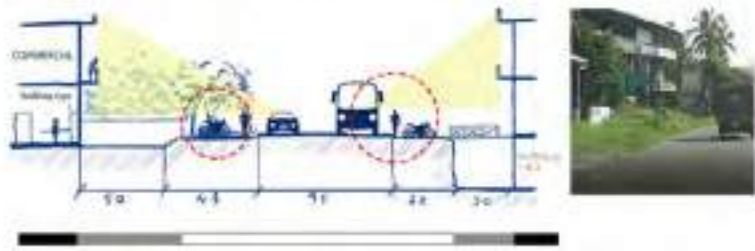
The residential areas are either completely private or semi private spaces  
-demand more privacy  
-privacy is achieved either through compound walls or green walls.

The commercial street(near arterial road) has very less semi-private space  
-general public or customers are forced to use the public area(arterial road due to lack of semi-private spaces.



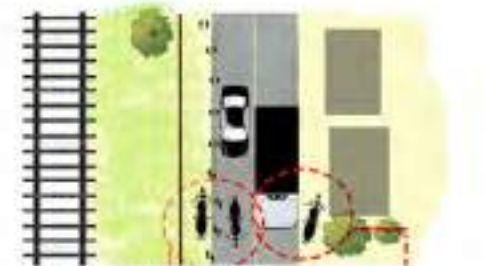
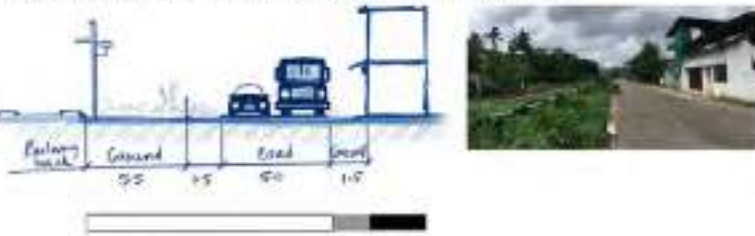
ANALYSING THE PERMEABILITY FACTORS

1.1 APPROACH FROM THRISSUR



01 Approach from Thrissur

1.2 ROAD LEADING DOWN THE BRIDGE



02 Road leading down the bridge

1.3 ROAD LEADING DOWN THE BRIDGE



04 Towards Wadakkanchery

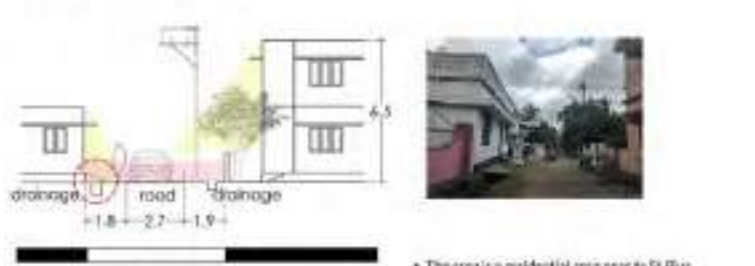
1.4 TOWARDS WADAKKANCHERY



1.5 WADAKKANCHERI 'Y' JUNCTION



1.6 E AVE ROAD



The area is a residential area near to St. Plus



key plan

INFERENCES

1.1 The buffer space between the shops and road is grown with unwanted vegetation.

The buffer space should be cleared and proper parking and pedestrian paths to be provided. Trees should only be cut down wherever necessary as they act as buffer.

1.2 The off road area should be cleared and proper parking and pedestrian paths to be provided. Proper buffer between railway tracks and road to be done with trees and fence.

Less opportunity to widen road as railway track at close proximity.

1.3 Providing proper parking areas could divert traffic in main entrance and thus reduce traffic in overbridge.

The road is wide and can accommodate more traffic.

Need to provide proper defined pedestrian paths

1.4 This is the approach road from Thrissur to main stretch of Wadakkanchery. There is enough off street space for parking.

The wild vegetation along the roads can be cleared to provide proper street parking. Existing shops could be developed into better

1.5 Wadakkanchery bus stand is an open area without definite pattern for parking buses and waiting. People use the commercial spaces for waiting buses.

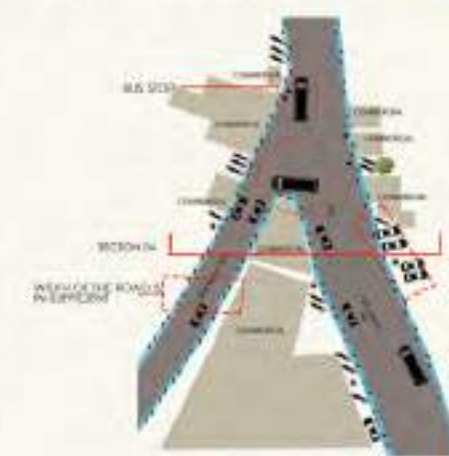
Provide proper pedestrian path. Allotting defined areas for parking buses, busbay and waiting areas for passengers. A new bus terminal solving the above problems can be proposed.

1.6 Provide Drainage area should be closed, so that it can be used as pedestrian path. Not easy to widen roads in future due to lack of space in front of some residence

ANALYSING THE ARTERIAL ROADS



key plan



plan of Kunnamkulam- Wadakkanchery road T junction



plan of wadakkanchery Y junction

SECTION 04



1. NO PEDESTRIAN PATH PROVIDED 2. NO PEDESTRIAN PATH PROVIDED 3. NO TRAFFIC ISLAND PROVIDED 4. VIEW OF THE JUNCTION



Issues: uses take more time to turn thus results in traffic block. Lack of traffic island for the traffic police is not safe. Commercial spaces take up the pedestrian path, thus pedestrians have to use the road.

SECTION 09



1. 2. 3.



Issues: Pedestrians are forced to use the road because of encroached parking. Wdky bus stand is an open area without definite pattern for parking buses and waiting.

Suggestions: Provide pedestrian paths. Defined areas for parking bus and waiting re structuring bus stand

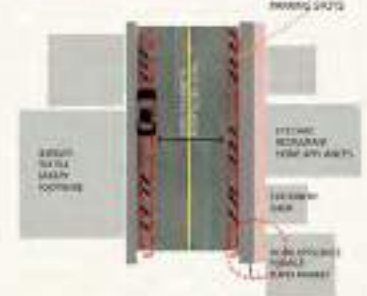


AREA STUDY  
FROM WADAKKANCHERY TO  
OTTUPARA ROUTE



key plan

THIRISSUR - SHORNUR ROAD NEAR WADAKKANCHERY COURT



Shops frontages are used to park vehicles. this causes more congestion.

Drain covers used as footpaths may cause danger.

Separate parking space can be provided. New footpath can be introduced.



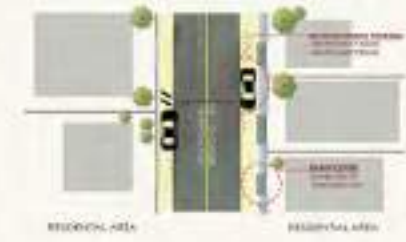
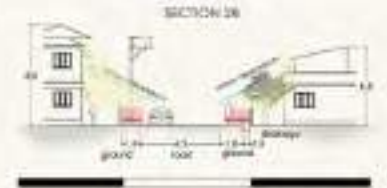
KUNNAMKULAM - WADAKKANCHERY ROAD T-JUNCTION



insufficient road width. Turning radius is not enough for heavy vehicles. pedestrian paths are not provided. So it is also difficult for pedestrians to take a safe walk.

A new road can be introduced for reducing the heavy traffic experienced here. introducing pedestrian pathways.

KUNNAMKULAM - WADAKKANCHERY ROAD

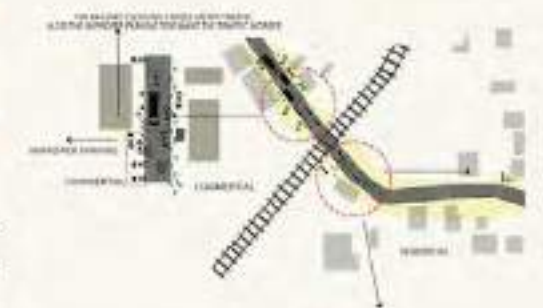


Encroachment parking creates traffic issues and safety issues. Road width is not sufficient. No footpath for pedestrians. Roadblocks that narrow the road lower visibility in the road allows visual permeability to the buildings.

Footpath can be introduced.

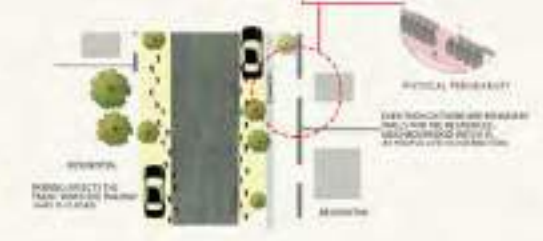
ENKAKKAD ROAD NEAR RAILWAY CROSS

SECTION 15



The road which branches from Ottupara bus stand makes the traffic heavier in this area. The traffic near railway cross may affect the traffic near ottupara bus stand. Encroachment parking is also a major issue.

A fly-over can be introduced here.



THIRISSUR - SHORNUR ROAD T-JUNCTION NEAR OTTUPARA BUS STAND

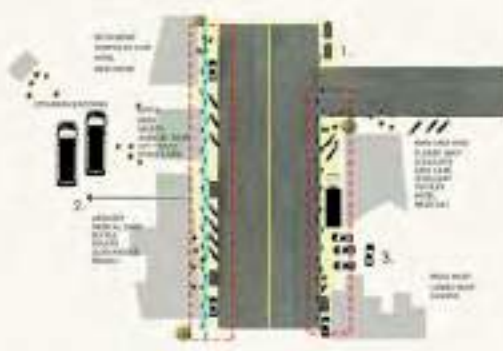
SECTION 05



The place makes a bit confusing for new passengers as the Ottupara bus stand which is the major landmark hides behind a building. Thus reducing legibility of the city.

The railway cross near this junction makes the traffic more heavier.

A round about in this junction will make some difference in the traffic block.



KUMBALANGAD ROAD

SECTION 07



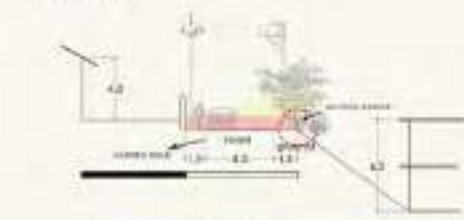
Encroachment parking with no space for walking creates issues. Traffic congestions are frequent in this road. Road width is insufficient.

Road width should be increased.



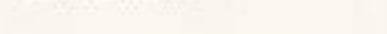
KUMBALANGAD ROAD

SECTION 30



One side of the road have no edge barrier which may create safety issues. Road width is not sufficient. No pedestrian path.

Edge barriers can be introduced. Footpaths can be provided.





## VISION

"Re-structuring basic translating deficiency of wadakkanchery to make it more resilient towards the ever growing traffic and pedestrian needs."

## OBJECTIVE

Implementing the design strategies in accordance with the other layers of study.

### Quality of public realm

To promote public spaces and routes that are attractive, safe, uncluttered and work effectively.

### Ease of movement

To promote accessibility and local permeability by making places that connect with each other and are easy to move through.

### Legibility

To promote legibility through development that provides recognisable routes, intersections and landmarks to help people find their way around the town.

### Adaptability

To promote adaptability through development that can respond to changing traffic density, pedestrian accessibility conditions

## DESIGN PROPOSAL

There were a few design strategies implemented at strategic positions along with minor proposals.

The major hub of issues as per the study was at wadakkanchery bus stand area which pointed towards the main proposal of redesigning the bus stand and its premises.

### Basic Permeability

- bus stop proposal Wadakkanchery railway station
- bus stop proposal Paruthipara
- Pedestrian overbridge over the railway cross

### Wadakkanchery- ottupara road

- pedestrian parking
- bus stop and bay proposal near boys high school
- restructuring Kunnamkulam-Wadakkanchery junction
- proper signages in Ottupara bus stand
- signages, rules and commercial discounts to be done for who use the parking facility
- providing sufficient parking slots

### Ottupara stand area

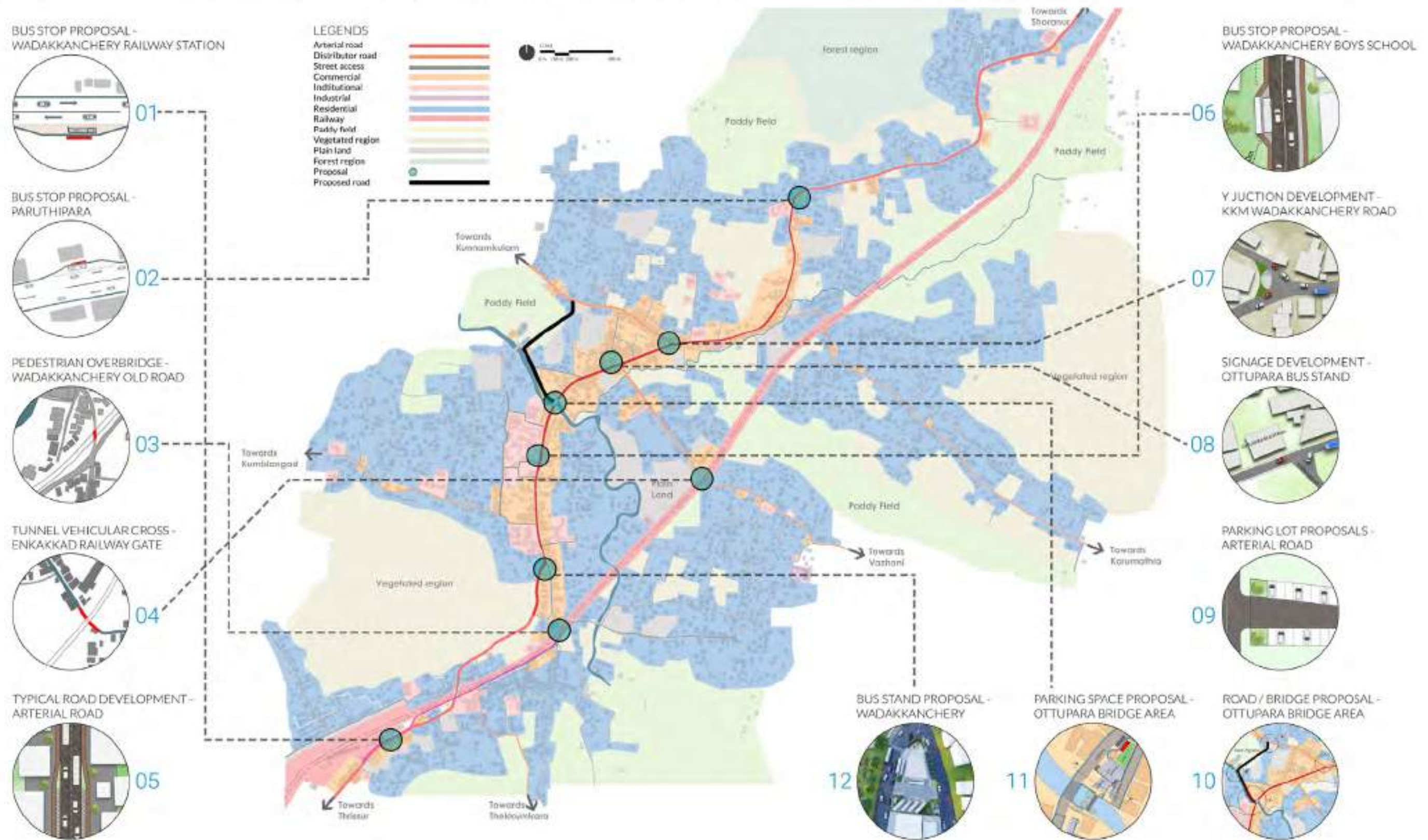
- proposing proper parking space near ottupara bridge
- proposing a bypass road ( thrissur to kunnakulam near Ottupara bridge)

### Bus stand Wadakkanchery

- re mapping the bus routes and re defining bus stand.
- developing strategies for street vending and auto rickshaw stands.

## PROPOSED STRUCTURE PLAN

structure plan of each group was further superimposed together and a optimum design strategy was to be formulated. Due to Covid-19 lockdown the studio came to unexpected pause...





PROJECT PROPOSALS AND IMPLEMENTATION STRATEGIES

Basic Permeability

**01 BUS STOP PROPOSAL WADAKKANCHERY RAILWAY STATION**

**02 BUS STOP PROPOSAL KALUTHIRARA**

The introduction of this proposal will give way to better traffic conditions and ensure safety of pedestrians & passengers.

The introduction of this proposal will give way to better traffic conditions and ensure safety of pedestrians & passengers.

**03 PEDESTRIAN OVERBRIDGE - RAIL CROSS**

The crossing lead to traffic issues and it was time consuming for people if the gate is closed for the train to pass.

This proposal aims to save time and to avoid difficulties encountered while travelling across.

Wdakkanchery- ottupara road

**04 WIDE STRAITS AND PARKING**

**05 OTTUPARA BUS STAND**

The building in front of the Ottupara Bus Stand act as a visual barrier. For a new passenger it will be confusing to find the bus stand. Provision of proper signages can deal with this issue.

**HIDDEN PARKING LOTS**

- Many commercial spaces have large parking grounds behind the building.
- These are mostly hidden without proper signages.
- Proper signages, rules and commercial discounts to be done for those who park.

**06 KIRIPAMKULAM - WADAKKANCHERY JUNCTION**

- The passengers approaching P-junction experience lack of visual permeability.
- It is difficult for two vehicles to see each other.
- The old building act as visual barrier also adding to the road reducing the effective turning radius.

**07 ANTI-CROWD PLAN**

**PROPOSAL AND POLICIES**

- These plans are properly designed with parking, driveway and landscape.
- Encroached car parking is prohibited in arterial road with a fine amount.
- Proper signages showing where to park, what to park.

**08 PROPOSED PROPER PARKING SPACE IN OTTUPARA BRIDGE**

**09 TRAFFIC MAP**

**PROPOSED BUILDING**

**TRAFFIC ANALYSIS**

- New building and their roads will not disturb traffic.
- Other vehicles can pass without any obstruction as long as it is off the road when required.
- A well defined routes for the buses are provided.
- Change in the 'Y' junction is removed and the main road is kept as main road.
- The right side road has less traffic also unobstructed parking are now added as these vehicles can wait at the junction for crossing the road.

**06 Isometric view**

Bus stand Wdakkanchery

**01 BUS STOP**

- Vehicle can move unhindered over the bus stand and road.
- Provision of parking space and landscape signages.
- A well defined routes for the buses are provided.
- The area remains looking for the vehicles.
- The surrounding area is landscaped and it can well regulated as to be visible.

**02 BUS STOP**

- A well defined routes for the buses are provided.
- The area remains looking for the vehicles.
- The surrounding area is landscaped and it can well regulated as to be visible.

**03 BUS STOP**

- There will be no parking space available in the area.
- Provision of parking space and landscape signages.
- The area remains looking for the vehicles.
- The surrounding area is landscaped and it can well regulated as to be visible.

**04 BUS STOP**

- There will be no parking space available in the area.
- Provision of parking space and landscape signages.
- The area remains looking for the vehicles.
- The surrounding area is landscaped and it can well regulated as to be visible.

**05 TRAFFIC MAP**

**06 ISOMETRIC VIEW**

**07 SEATING PERSPECTIVE OF BUS BAY**

**08 PROPOSED BUILDING**

**09 TRAFFIC ANALYSIS**

- New building and their roads will not disturb traffic.
- Other vehicles can pass without any obstruction as long as it is off the road when required.
- A well defined routes for the buses are provided.
- Change in the 'Y' junction is removed and the main road is kept as main road.
- The right side road has less traffic also unobstructed parking are now added as these vehicles can wait at the junction for crossing the road.

**10 VIEW OF BUS STAND AND ROAD TOWARDS WADAKKANCHERY**

**11 SEATING PERSPECTIVE OF BUS BAY**

**12 ISOMETRIC VIEW**



scan this code for detailed design part of urban design studio



## 02 INTERNSHIP WORKS

01 Ajay's residence  
residential project

A residence for bank manager and his family in Perukavu

The project was internship in semester 8 of the B.Arch curriculum.

The project was an experimental one to study alternative methods of natural ventilation and building materials

Main challenge of the project was the stepped site which was once a part of small hill.

•The project was for client working has a bank manager and for his small family consisting of his wife, two children and his grandparents.

•the following presentation is more leaned towards final outcome and final drawings produced during the internship time.

The following presentation is more leaned towards the process and justifications I made, which led to the final design.

project category : internship work (residential)  
Studio commune, Trivandrum  
project status : Nearing completion (2020-22)  
project status : design collaboration with Ar. Vishnu  
physical model  
3-D development and renders  
sanction drawing  
working drawings



Location - Perukavu, Trivandrum, India  
page 20-22

02 other works  
internship works

other works that I associated with Studio commune during and after internship

•The works includes illustrations, renders and model making that I took part and finished during internship and pandemic lockdown.

•the following presentation is more leaned towards final outcome and final drawings produced during the internship time.

project category : Internship work  
Studio Commune Trivandrum  
project status : completed 2020, 2021, 2022



Location - Vahuthacud, Trivandrum, Kerala  
page 23-24



**Project idea**

The site has a hilly terrain. The design focuses at a sloped courtyard in the centre that looks at a wide frame of the exterior beyond. The design invites birds, surplus wind and natural light into it's niches.



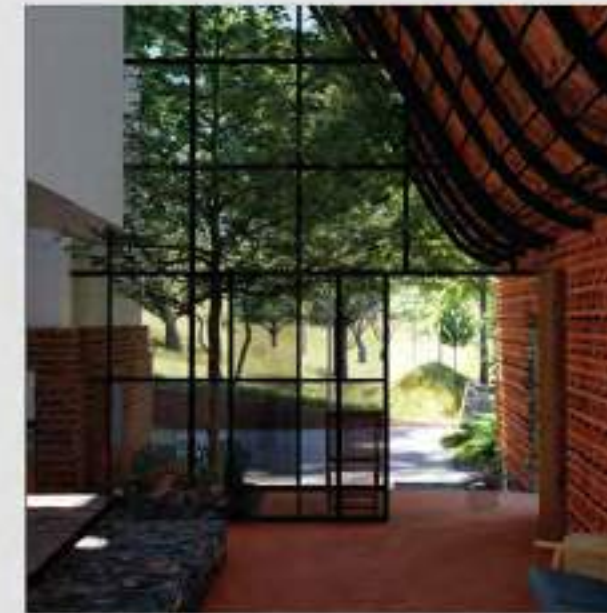
design diagrams

**the home needed a skin**

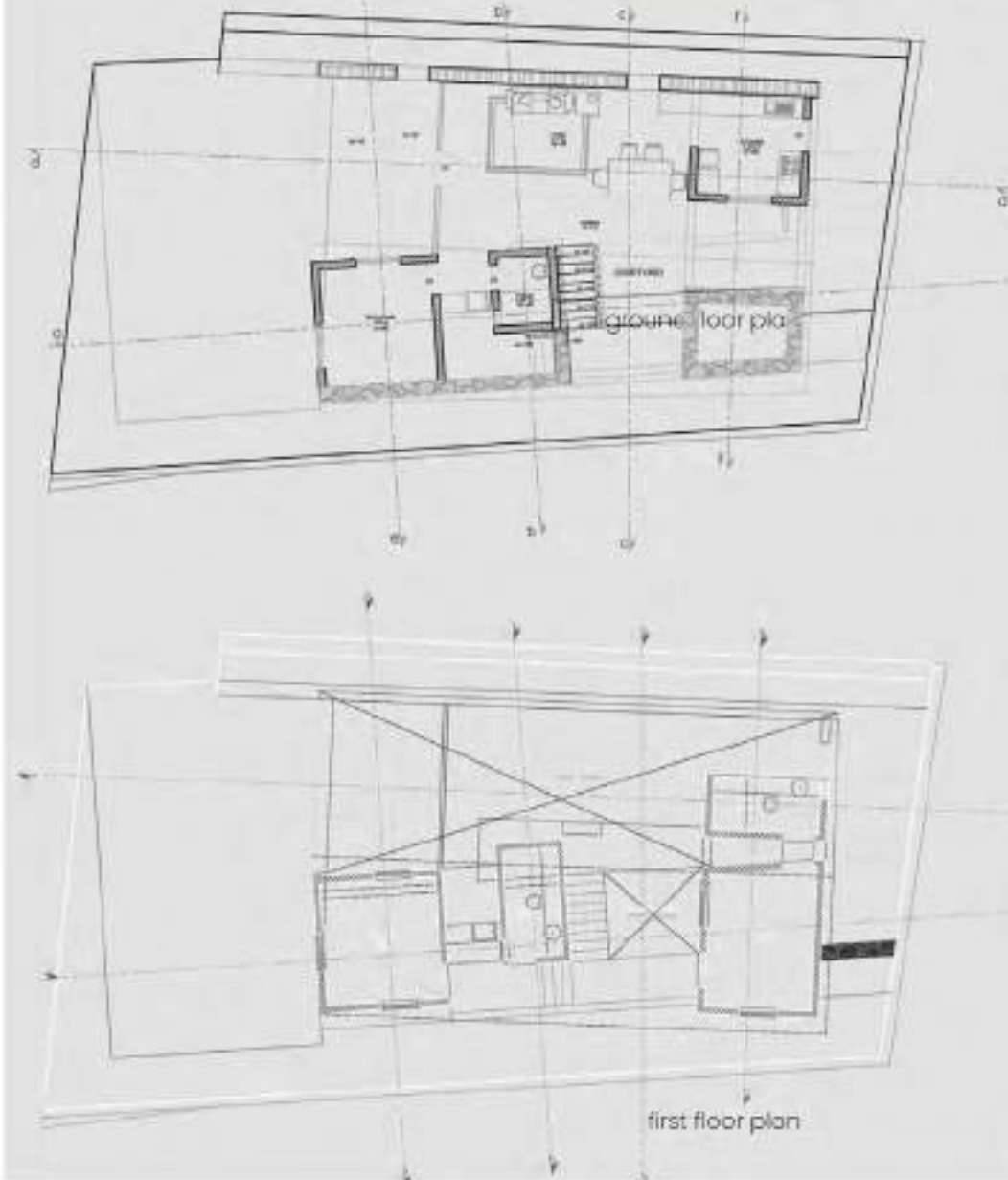
The home theatre towards the left was a later addition to the entire massing, hence the roof had to be redesigned addressing the final changes on site.

The climatic conditions of the site was studied to decide on the angles and shading devices. The insides of the home had a brutalist nature and the exterior had to speak the same languages.

diagrams shows the different alterations to roof that were designed and examined under climatic conditions of the site.



structure plan of each group was further superimposed together and a



The puja space, we try to create in the house representing the gopuras of ancient temples while the deity is depicted as nature in the backdrop.

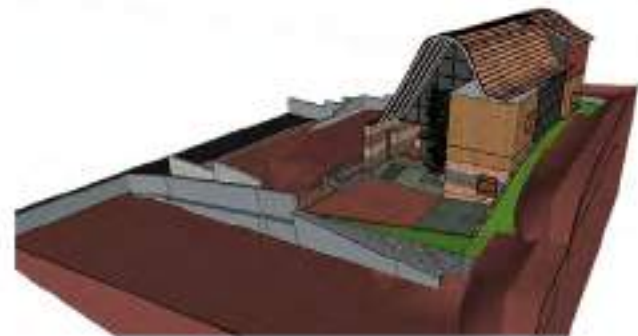


# 01 INTERNSHIP WORKS

ajay's residence

## 3D development

this was the final revised 3d model of Ajay's residence done using sketchup. The views show the ucurved roof sturture and immediate topography



## physical model



## rendered views

this was the final revised 3d model of Ajay's residence done using sketchup. The views show the ucurved roof sturture and immediate topography



## Material exploration



Using AAC blocks over cantilvered spaces to reduce the weight



Old roof tiles are stacked to build wall, cement groute is used in between the tiles



steel section desinged for stair detail

## final photos of residence





BODY IN SPACE

It was a project observing the movement of human body in a defined space using a performance act.



Theme of performance

The co-existence of different emotions of a person in a situation- the situation here being the person coming across a plastic bottle on her/his way. The different characters were different coloured bands each on their head, right leg and left hand to easily mark the body during the performance.

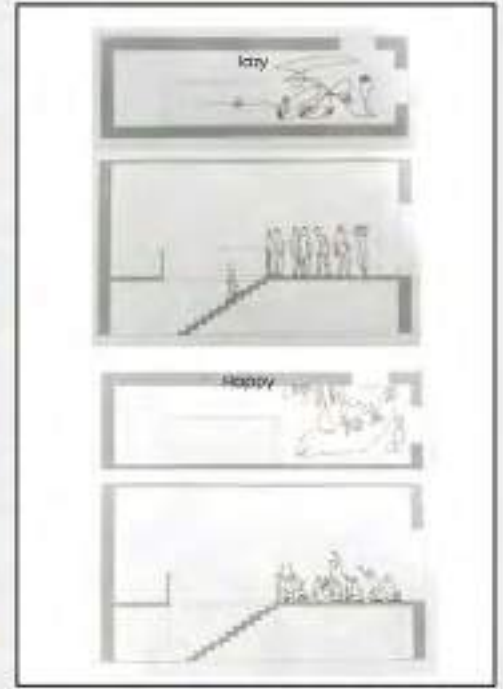
objective of project

3 shots from the movement of character(happiness) were selected and portrayed using plaster of paris models.

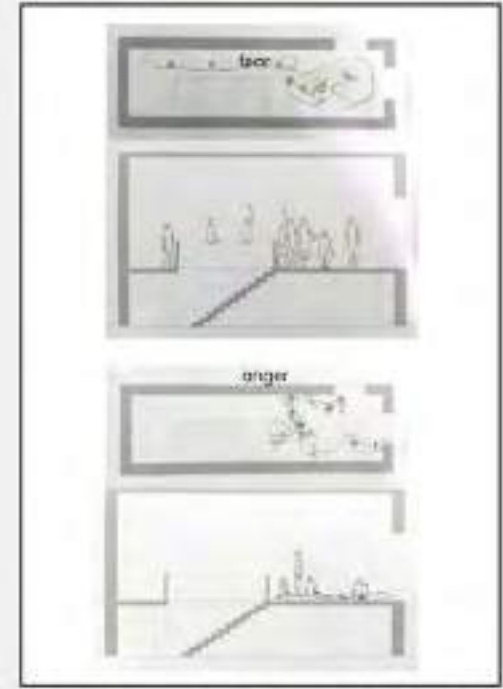
This project prompted to organise different aspects of the same act. It also gave light to the response of human body to the space form and space around it. The project was further developed into an abstract form of human movement in three dimensional space.



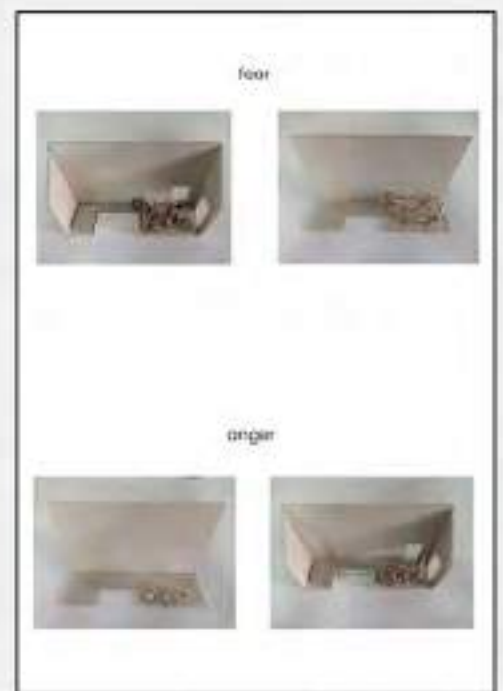
Selected 10 shots from the video.



Movements of the different characters were examined using plans and sections of the space.



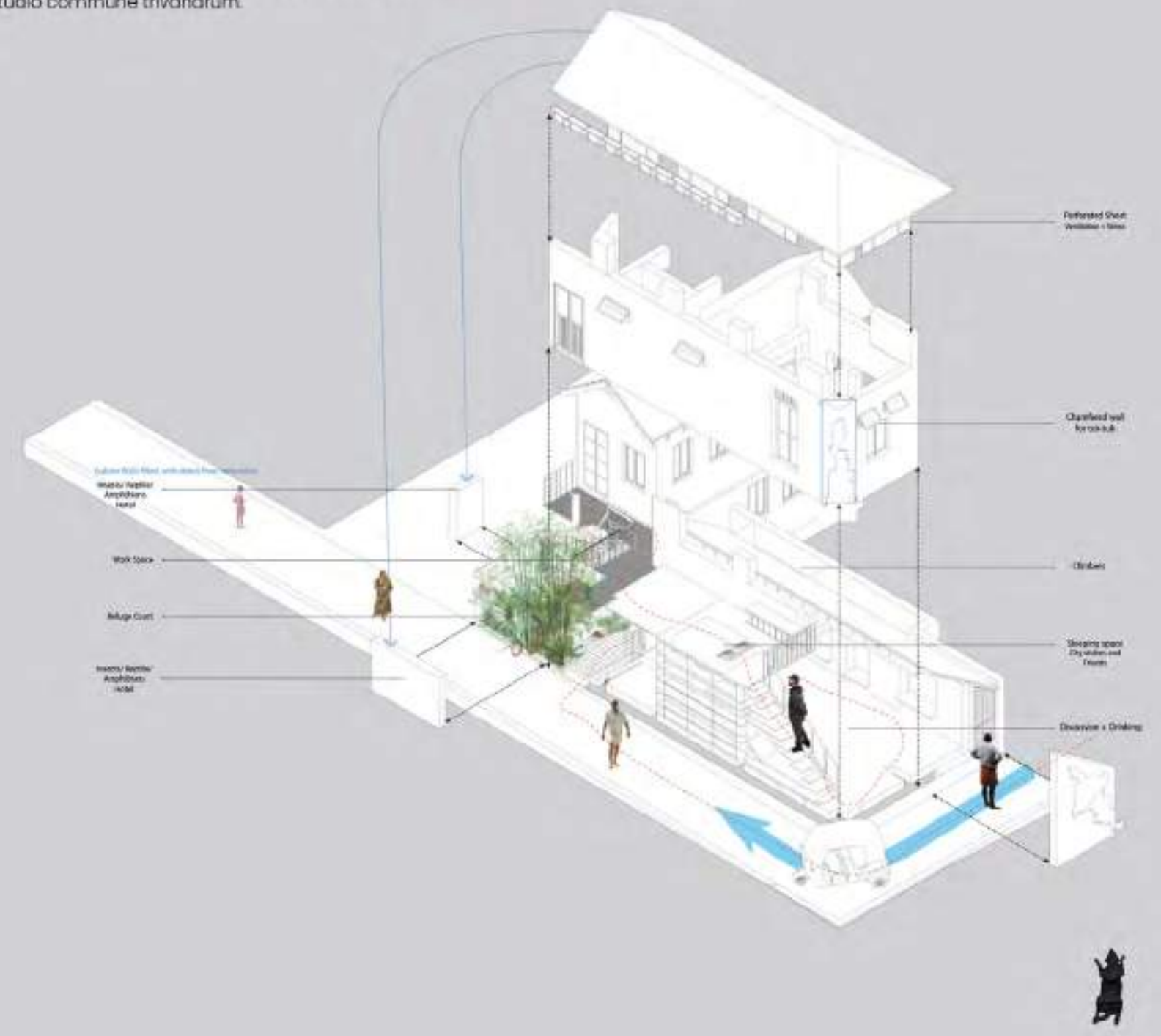
The different characters were portrayed using simple models, giving importance to movement between the shots itself.



plaster of paris models

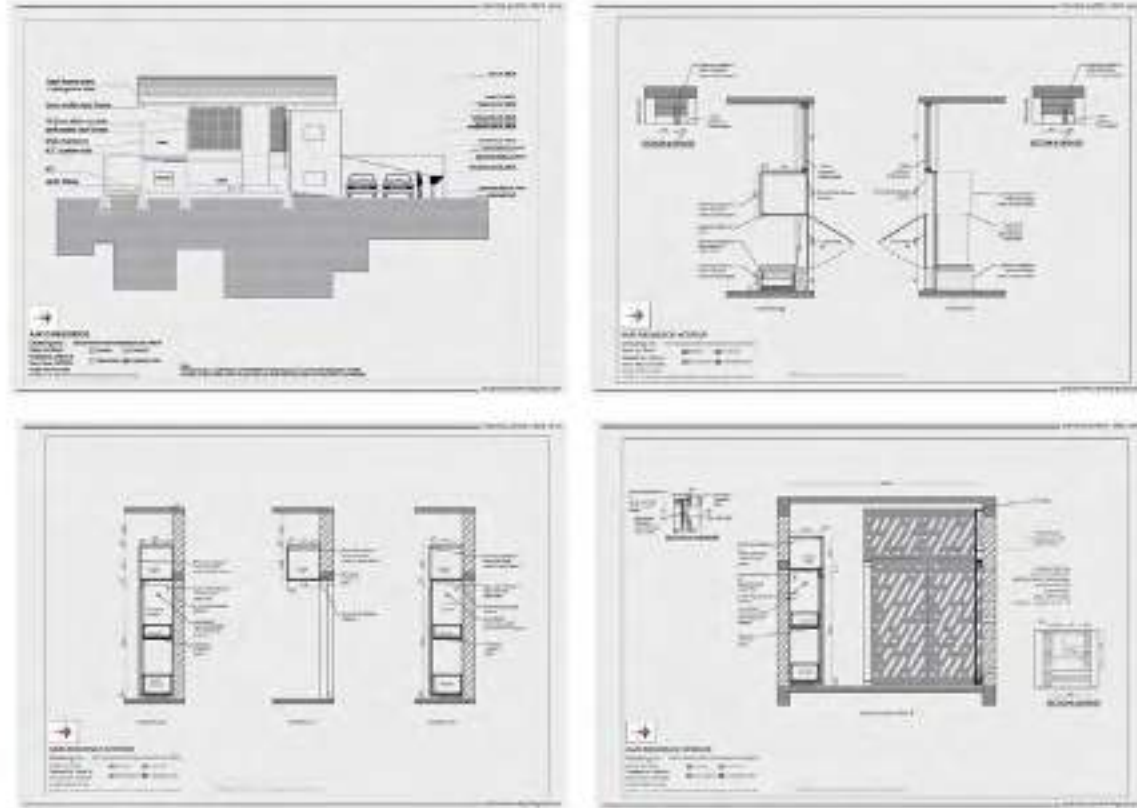
Illustration nandan's abode

This illustration was done by myself and Afrusha(intern) during lockdown for publication work of Nandan's abode in collaboration with Studio commune trivandrum.





01 INTERNSHIP WORKS  
other works



Working drawings done during internship



Tree walk



IFFK



Casa Angelo  
Actual photo of site taken during internship time.

Competition project attempt

The envisaged pavillion is a COMMUNE OF VOIDS. It will be co-created by architects around the world who come together by sending these pieces of voids found in their construction yards



physical model



actual photo of Casa angelo



PLAN AT +0.00m OGL  
The ground floor plan shows the building's layout, including the entrance, living area, kitchen, and bedrooms. It also shows the location of the building on the site.  
GROUND FLOOR PLAN  
rendered plan for Jayan's residence.



Sketchup model done for Jayan's residence.



Interior render were made with lumion for hari residence, Cherthala



physical model



rendered model



## 03 PROFESSIONAL WORKS

01 Raunak's residence  
residential project

Residence for Ar. Sameer and His family in Aluva

this was a project I associated with Ar. Fathima and Ar. Sameer during my final year of B-arch under connect art and architecture Studio during the Covid-19 lockdown.

The project was a residence of about 2500sqft in an 8.8 cent plot. The main challenges of the project were to renovate the residence without compromising the structural integrity of the existing core structure.

•The project was for the Co-founders of connect art and architecture studio Ar. Sameer, Ar.Fathima and their family.

•The following presentation contain the overall idea of the project and design areas with which I was associated.

project category : Professional work (renovation project)  
Associate architect Connect  
architecture and art studio, Edappal

project status : Completed (2021)

contributions : Design team member  
Working drawings  
3D development and rendering  
Site supervision



Location - Aluva, Ernakulam, India  
page 25-28

02 Lyra's abode  
residential project

A residence for graphics designer and his family in Vellarakkad

This is a freelance project that I undertook after getting my architect's license.

The project was a small residence about 1500sqft in a 7 cent plot. The main challenges of the project is the cleared rectangular plot without any vegetation and the low budget of the client.

•The project was for a client working as a graphics designer and his small family consisting of his wife, new born baby and his parents.

•the following presentation is more leaned towards self realization, the design considerations and critical decisions i took during the deisgn stage to the initial phase of construction of the project.

project category : Professional work (residential project)  
Self employed

project status : Under construction (2021-2022)

contributions : Design to execution stage  
Site supervision  
Working drawings(under construction  
3D development and rendering  
interiors (under design progress)



Location - Vellarakkad, Trivandrum, Kerala  
page 23-24







### Rendered images

This was final rendered images that have been produced during the design process



front view of the residence.



south-east view of the residence



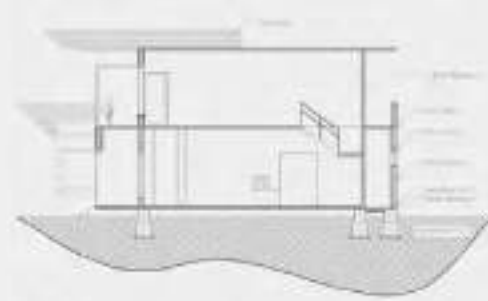
view from adjacent plot to the site



Entrance of residence.

### Working drawings

This are some of the CAD drawing produced for site level execution



section



waking drawing sections



ground floor plan

### On site progress

progress photos of site work, it was halted during lockdowns and resumed after that which provided time for changes in design.



wall art done by hari and myself



interior site work



exterior truss work

### Before and after



Front view before



Front view after



Open space to the south of house



Turned into courtyard which provide an extra layer of protection from south sun during the day



Front elevation of the old residence.



The new elevation which gets blended with the surrounding green area.



Dull kitchen interiors of the old residence.



turned to a modular style kitchen.

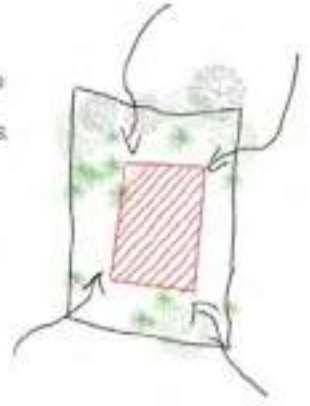


Project idea

The site was on foot of a small hill. The design focuses on creating small human scaled spaces which is connected to a centrally placed living cum dining hall.

The design invites surplus wind and natural light into it's niches while providing extra spaces for chit chats.

Major thought while designing was to minimize the coverage area and maximize the open spaces.



There was long view to the site towards south from peripheral road which gave insights to develop a massive elevation feature for the residence.



Material choice being mangalore tiles as they would merge with complimentary green areas around the site.



Project was conceived in 2 phases so design was done accordingly.



Good natural ventilation and day light is provided while direct sun light is blocked.

design sketches

In conversation with the client...

These are some sketches i done during the initial discussion to understand the type or quality of spaces my client required.



Chit-chat spaces throughout the residence, where they could spend some quality time.



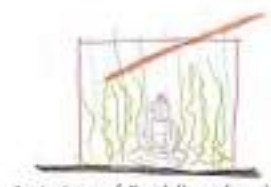
He likes jalli works in opening and likes spend hours near openings.



The whole family needed a huge space for storage as they have many old items that should be kept safe.



Cooling effect inside the interior space must be achieved by any means available.



A statue of Buddha should be designed as place of focus in the exterior of house.



bay windows and cross ventilation throughout the interior spaces.



ground floor plan

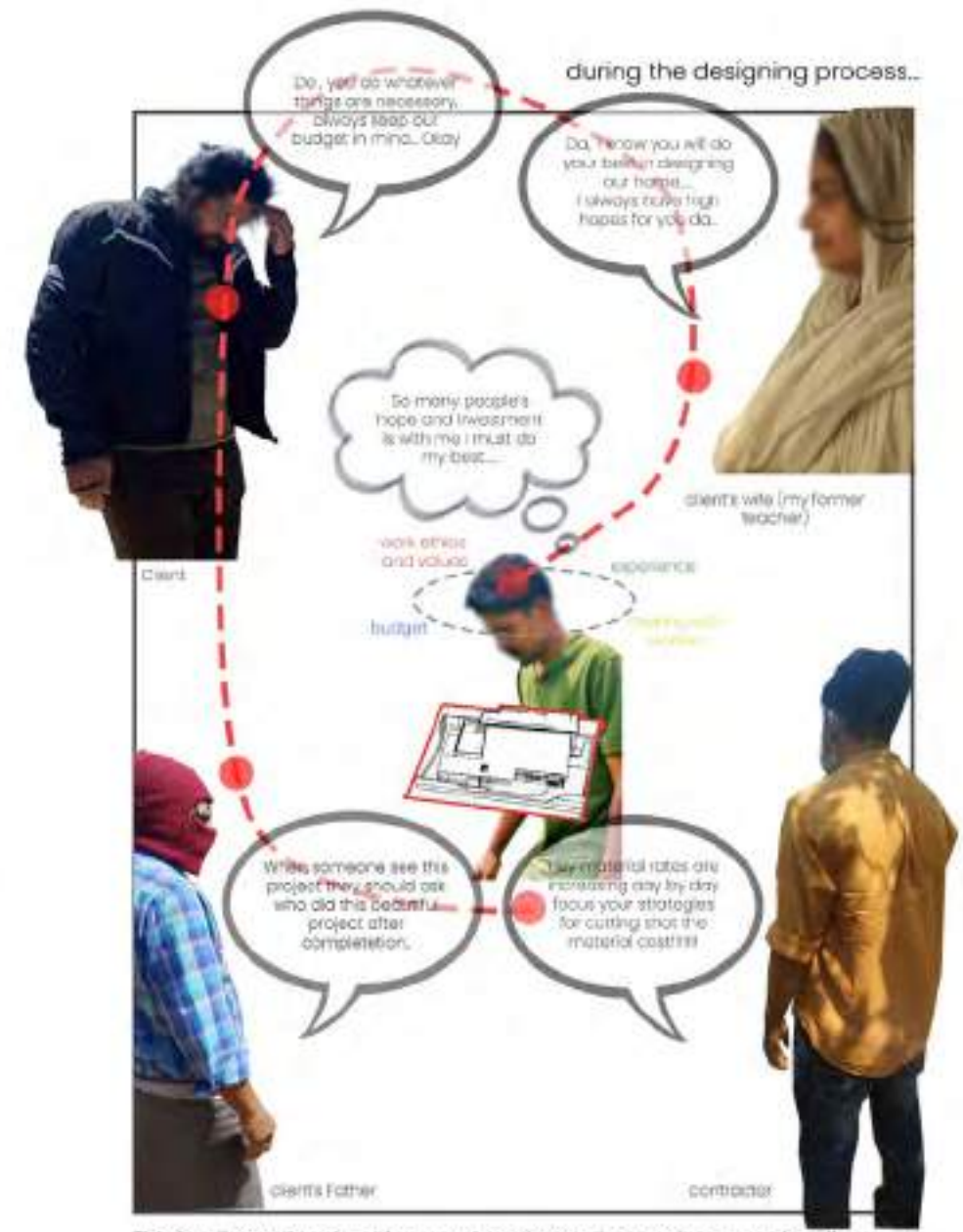


first floor plan

interior details have been carefully omitted

Attempting sloped roof with double tie layering creating a vacuum in between could act as a heat barrier.

An exterior green space should be designed to incorporate bhudha.



during the designing process...

Do, yet do whatever things are necessary, always keep our budget in mind... Okay

Do, know you will do your best in designing our home... I always take high hopes for you do.

So many people's hope and investment is with me I must do my best...

work ethics and values

budget

While someone see this project they should ask who did this beautiful project after completion.

As material rates are increasing day by day focus your strategies for cutting short the material cost!!!!

This is a illustration depicting my thoughts and commitment to the client and his family while taking up their project.



### Rendered images

This was initial rendered images that have been produced during the initial discussions.



front view of the residence.



Courtyard with Buddha statue.



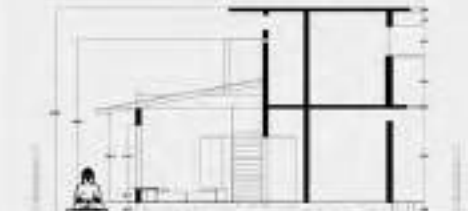
view from adjacent plot to the site



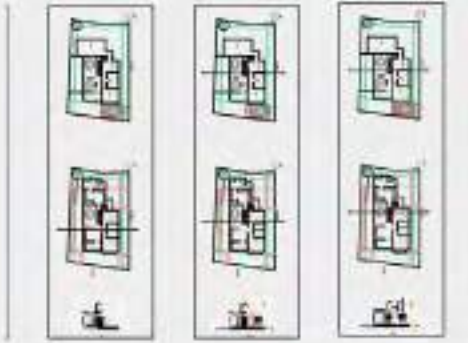
Entrance of residence.

### Working drawings

These are some of the cad drawing produced for site level execution.



working drawing sections



### On site progress

These are some of the cad drawing produced for site level execution.



setout procedure



foundation work

### Phase one of construction.



Plinth beam shuttering



Plinth beam setting



Window frames being welded simultaneously in workshops to reduce the time delays



Ground floor masonry works.



Window frames being installed in site simultaneously with masonry for strong bonding



bay-window designed being installed and masonry works reaches lintel level.



Shuttering process done for lintel beam, extending lintel beam to make storage spaces in kitchen.



Masonry work of ground floor is finished. Preparing for casting floor slab.



## 03 MICELLENEOUS WORKS

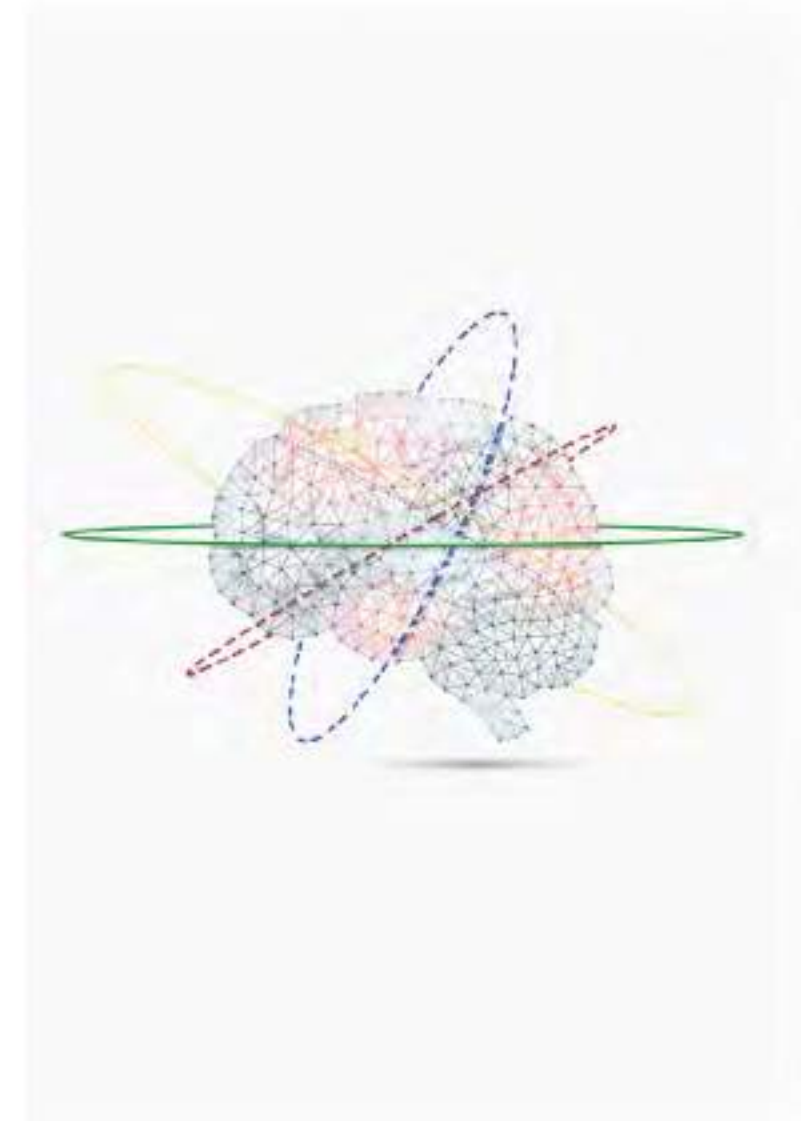
### 01 College and personal experimental projects

The following are some of the selected works and activities I attempted other than academics in college and personally. The works contain both individual and group works that I think helped me personally to develop my skills and character.

This work reflects my capabilities and the collective motivation and effort of some of the best individuals I have known.

I am grateful to my family and close relatives for their constant support and advice. I want to thank my mentors, faculties, my friends, my seniors and juniors who have been a constant source of motivation and assistance through these five years and years to come...

project category : Diverse in nature  
project status : Always under updation  
contributions : Major contribution belongs to me while to showcase the whole idea project I needed to show the work of the whole group.





## Leadership

### Farewell party to seniors

Myself coordinated the whole program with a team of 6 members. The function was held online due to Covid-19 lockdown.



Posters designed for the farewell function.

### All India trip 2018

Myself coordinated the whole tour during the sixth semester.



photos taken during the all India trip 2018

### Thesis presentation 2021

coordinated and presented my under graduate to juniors with SSA members.



## Workshops

### Ferro cement workshop

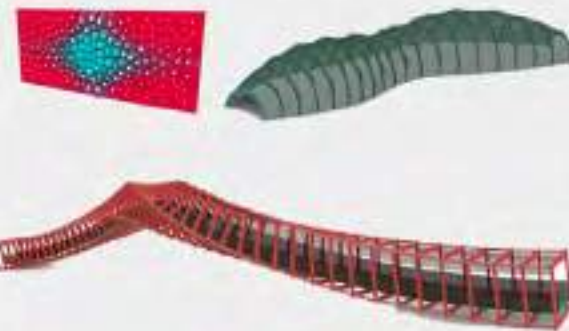
3 day workshop which I was part of program co-ordination and completion. Aim was to create a permanent enclosed structure.

Steel mesh supported by steel bars where used as reinforcements and its was covered with cement mortar which rests on it.



### Rhino-grasshopper workshop

Four day workshop learning the basics of visual programming using rhino and grasshopper.



final outputs

## ANDC 2017

### Project Idea

Design and execution team member. shortlisted project. The design attempts to manifest in form the temporality of the space in concern both in terms of its actual physicality and in its social existence. Through the concepts of tactical urbanism, it is expected to offer a space for relaxation and site seeing.

The idea has been conceived through an arrangement and recreation of a bridge which was left used to useful space to the neighbouring peoples in Wadakkanchery, Thrissur seating spaces made from locally sourced materials identifiable to the community and interspersed with a multitude of activities.



Images of showing the neglected old bridge and its surroundings.



Images of showing the transformation of the bridge under ANDC project

## ZONASA 2018

### Attempted entry for SIDC and Convention trophy

I was a design team member and prepared the presentation sheets.



### SIDC

Design and presentation team member.

Potraying the importance of kerala traditional architecture. A site near a water body and temple in a remote area.



### Winning entry for Fashion trophy

I was a design team member of fashion trophy which bagged the first position at zonal level.



costumes designed for theme- After life

## Internship at Nagaland

### Internshi with Ar. Richard belho

First internship done per the course curriculum at Zynorique initiatives was extra ordinary for me.

The experiences and teachings from Richard was an inspiration for me.

Learned farming techniques, Bamboo construction and treatment techniques

Explored North east India visiting Manipur, Assam, West bengal, Meghalaya



Basic frame work of first architecture office. to be constructed entirely with bamboo.

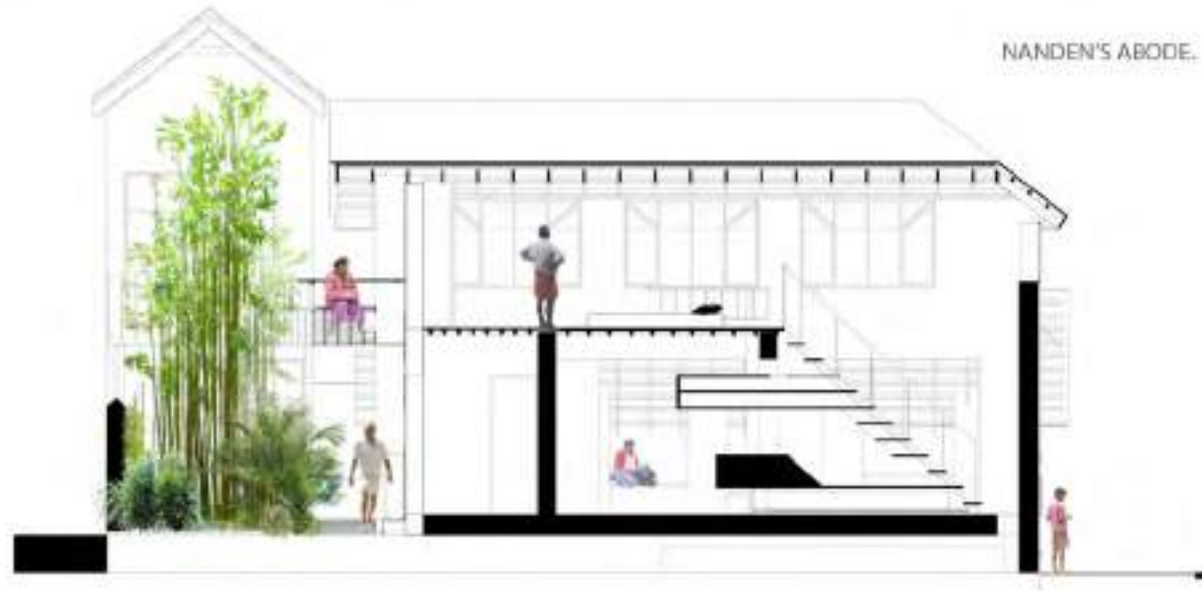


glimse of what internship was about in Nagaland 2019



**Nandan residence.**

Illustration of Nandan's residence done as part of publication work in association with Studio commune Trivandrum.



**Sarang documentation**

Illustration done as part of the master plan documentation of Sarang an alternate school in Attapadi.



Section form semester nine campus design.

**ZONASA 2018**



Illustration done for convention trophy 2018.



SEMESTER NINE CAMPUS  
DESIGN



Portfolio cover done for semester 9 project

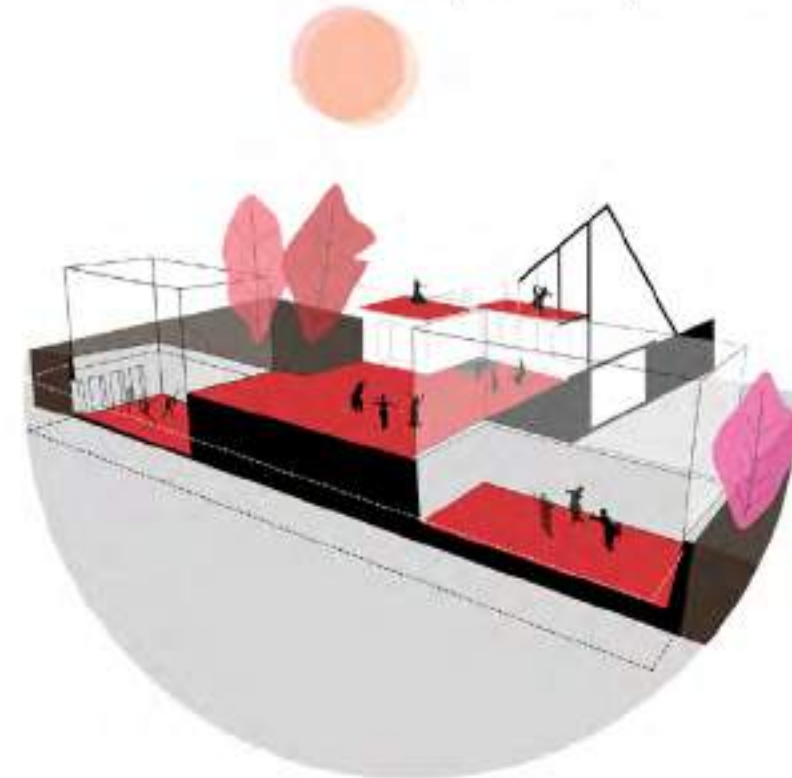
URBAN DESIGN



Photoshop rendered section for Jayan's residence during internship at Studio commune.

**Solidarity Illustration series: A Virutal Communion of Dancers**

Create hypothetical conditions of bringing together people and artefacts in an attempt to illustrate solidarity in our own commune ways. This first set of illustrations describe the coming together of three dancers and their students to perform in solidarity through interconnection of spaces that they call their dance class rooms



studio commune trivandrum

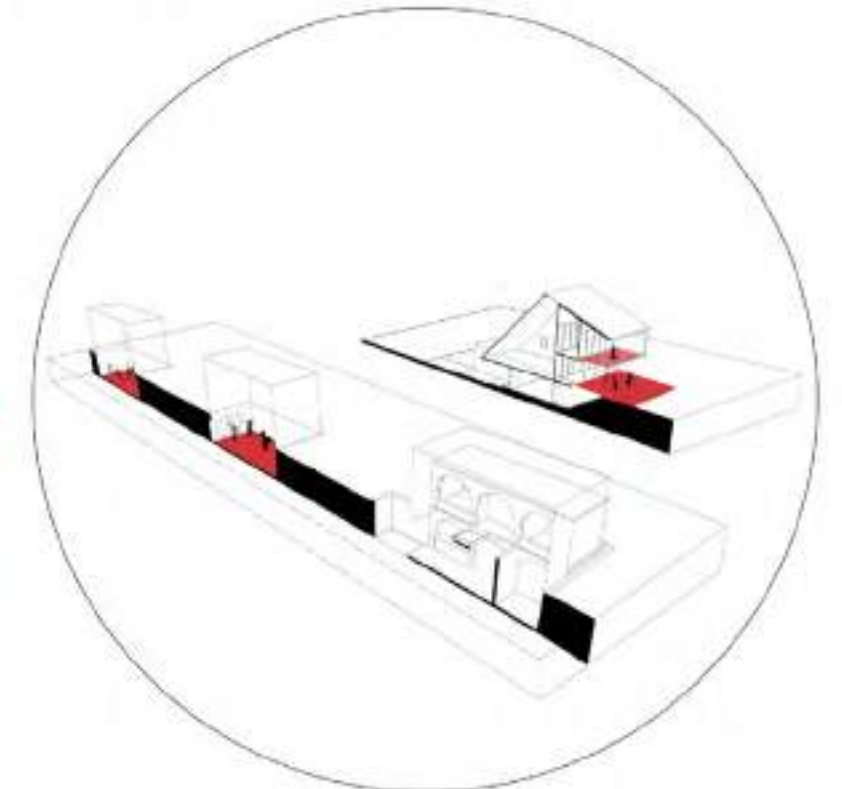


Illustration done in association with Studio Commune.



Physical models



1:1 model with bamboo(group work)



1:1 bridge with bamboo(group work)

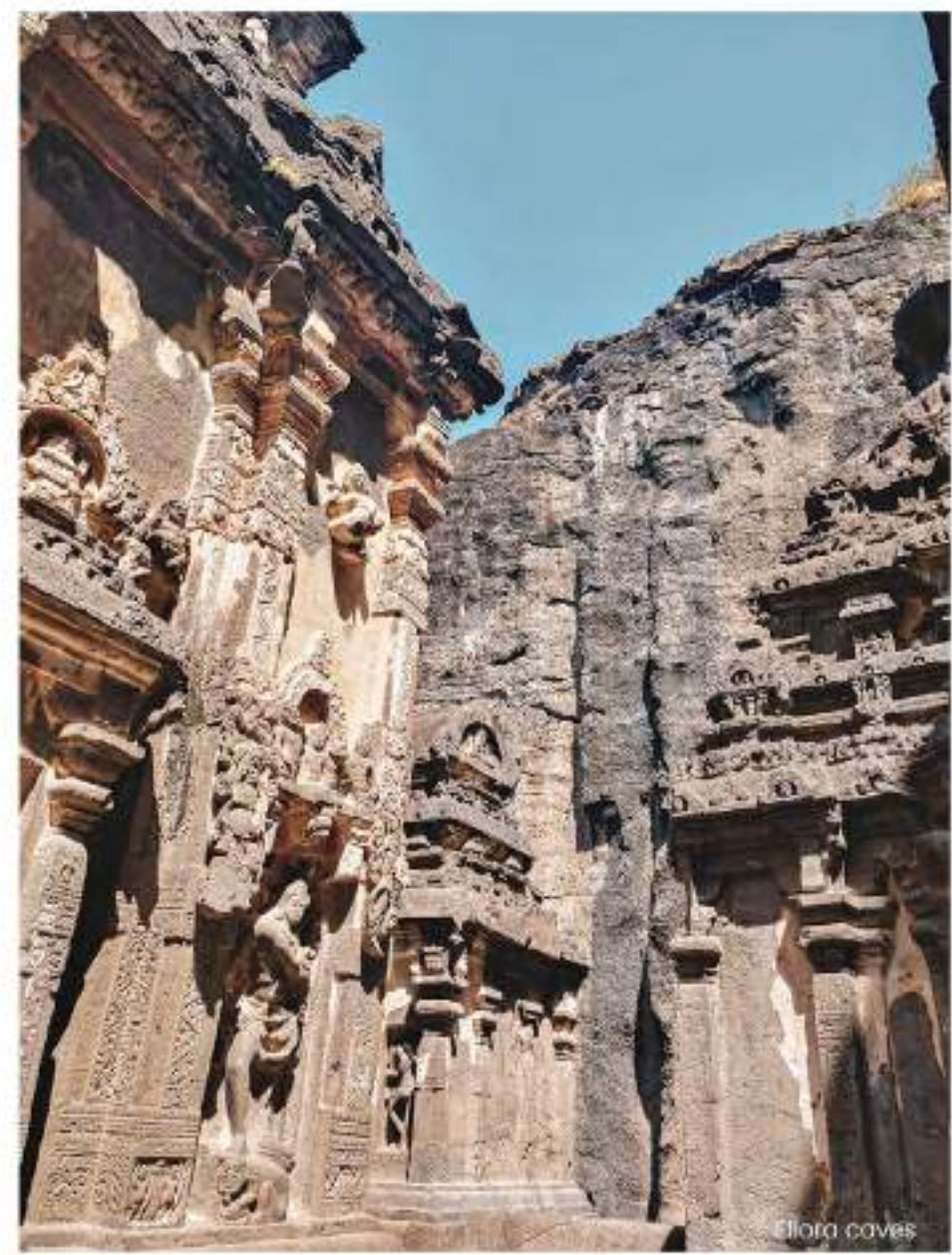


CNC cut model done for semester 5 major project.



Aurangabad Photos

This photos were taken from my Aurangabad trip in 2022.  
photos have been edited and color graded to my liking.

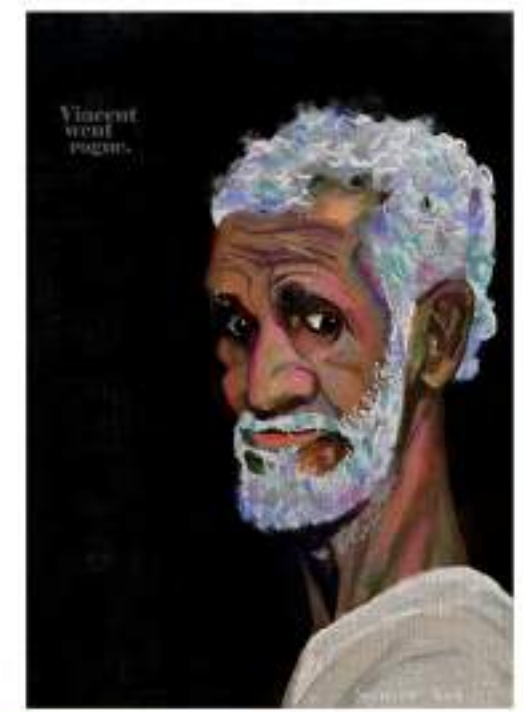


Ellora caves



### Vincent went Rogue.

These are selected artworks done myself during the last years . Medium being digital





Thank  
you.

*Thanks to the time ahead we spent together  
discussing, debating and celebrating...*

