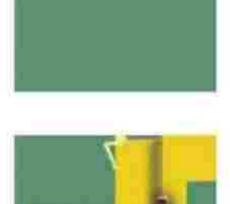
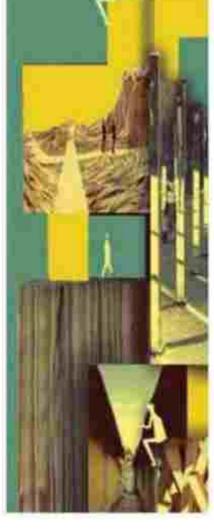
ARCHITECTURE AND DESIGN

0 R F



















SELECTED WORKS FROM ACADEMICS AND EXPERIENCE 2018-2023



PRITI BHUSHAN DEOGHARE

- +91 914639675
- deogharebpriti@gmail.com
- 03 priti
- Nashik, Maharashtra

EDUCATION

KAMLA RAHEJA VIDYANIOHI INSTITUTE FOR ARCHITECTURE AND ENVIRONMENTAL STUDIES MUMBAI (2018-23)

> HPT ARTS AND RYK SCIENCE COLLEGE. NASHIK (2016-2018)

ADARSH ENGLISH MEDIUM SCHOOL, NA-SHIK (2003-2016)

PRITI HERE! I AM A PASSIONATE ARCHITECT WITH AN EYE FOR DETAIL. I AM CREATIVE AND LIKE TO KEED ON EXPLORING DIFFERENT FORMS OF DESIGNS I ALSO LIKE TO DESEARCH ABOUT VERNACULAR ARCHITECTURE AND IS CURIOUS ABOUT LEARNING NEW TECHNIQUES IN THE SAME I HAVE 6 MONTHS' WORK EXPERIENCE AT MOZAIC, ARCHITECTURE BESIGN FIRM, SET DESIGNING AND INTERIOR DESIGNING I HAVE ALSO WORKED FOR A COMIC AND IS INTERESTED IN INDUSTRIAL DESIGN TOO. I AM GOOD AT ILLUSTRATION, GRAPHICS AND REPRESENTATION I MANAGE MY TIME EFFECTIVELY I LIKE TO SOLVE PROBLEMS, CHALLENGE MYSELF AND EVOLVE AS A DESIGNED

SKILLS































OTHER SKILLS

MODEL MAKING, HAND DRAFTING, INKING, HAND

ENGLISH HINDI MARATHI

WORKSHOPS:

- -THE DEJECT IN THE MUSEUM(NISHA NAIR)
- -ECOLOGICAL DESIGNIANUDAG TAMHANKAR) (ANAND DENDHARKAR)
- -URBAN ECOLOGY(ANANO PENDHARKAR)
- -DESKTOP PUBLICATIONS AND PRESENTATIONS (ANKUSH CHANDAN)
- -BIM WITH ARCHICAD(SHIVANG RAJVIR)
- -FIVE FUTURES SOCIAL THEORY AND SCIENCE FIC-(HUSSAIN INDOREWALA)
- -URBAN SPACES (ANDRE BAPTISTA)

OTHER INTERESTS

-WAYS OF SEEING AND DRAWING (VISHWA SHROFF)

ADVENTURBUS SPORTS, MARTIAL ARTS, PAINTING,

SKETCHING, PLAYING MUSICAL INSTRUMENTS, CRAFTS

WORK EXPERINECE

- -MOSAIC GOA, NOV 2022- MAY 2023
- -ONLINE SANCTION DRAWINGS
- -RESIDENTIAL PROJECTS, APRIL 2022-NOV 2022
- -FREELANCING MAY 2023
- -CYBER CRIME COMIC BOOK (PATHIK MUNI)
- -SET DESIGNING PROJECT (MET COLLEGE)

ORGANIZATION

- -KOVIA NEWSLETTER
- -KOVIA ADENIVAL TEAM

EXHIBITIONS

- -RETRACING THE FABRIC OF MAHESHWAR 2019
- -CITY ON THE RIDGE, ALMORA 2020
- -THIS GROUND PLUS KNOTACHI WADI IN DESIGN CONTEXT
- -WAYS OF SEEING ONLINE EXHIBITIONS

COMPETITIONS

- -RESILIENT HOMES CHALLENGE
- -RESILIENT DESIGN CHALLENGE



SKETCHING WATER AND OIL PAINTING. DLAYING GUITAR UKELELE KALIMBA MUSICAL KEYBOARD

LANGUAGES

07

DESIGN PROJECTS -Academic year 2018-23

- -Community on Go
- -Journey of Mithi River
- -City and the riverfront
- -Deomcractic Architecture
- -Study of Neighbourhood

68

WORK EXPERIENCE-(Internship)

- -Spandan Banerjee
- -Edwin Saldhana
- -Maker's Asylum
- -Jacob Neelam

SCALED MODELS/ PHYSICAL MODELS 80

DOCUMENTATION AND COLLABORATION MISCELLANEOUS

DESIGN PROJECTS -ACADEMIC YEAR 2018-23

SELECTED WORKS

Community

on Go

not by choice but by

City and the riverfront

- case study of Nashik -Farming Institution

Journey of Mithi

River

-River to Sewage drain to river

Deomcractic

Architecture

-Ward office building - Inside outside of space

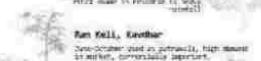
Study of Neighbourhood -Biominicry research centre

Existing site conditions sum(Jacuary) Heavy makes course weathering in rocks . cracks in rocks and thus les to rock fall-Rock Fall PHENORISCEN SHILLTON WITTER LINES.

EHROACHE ADMPERE

EXISTING HYDROLOGY ON SITE

Existing vegetation



Her September | Personnel position expen-tioner Flores on C.C. Upon an Flori ingredient, sold in racket to Tongs exist Aurorg Assault Scatteril.

North



ACCEST OF THE CHIEF MEATHERS THE PROPERTY OF THE CHIEF AND ASSESS OF THE CHIEF AND ASSESS OF THE CHIEF ASSESS OF THE CHI

STATE OF STREET

Soil erosion

Extreme weather

Summer sun(May)

Sunitite-5154 an Sunifet-7/18 pg.

Řeck fell

Water holding capacity of red soil is less water flows down the slope taking soil with it.

South West Monsoon

Less vegetation

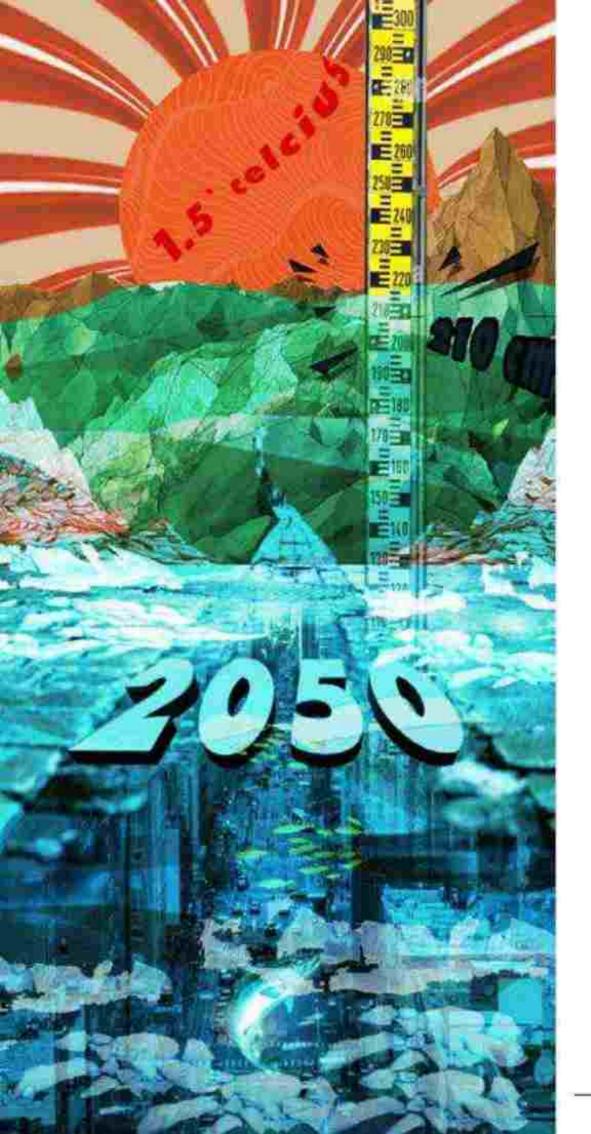
Red clay soil

Basalt rock

Gravels

5ilt

Heavy rainfall lead to erosion of soil thus leading to landslide.



COMMUNITY ON GO-

NOT BY CHOICE BUT BY CONTEXT

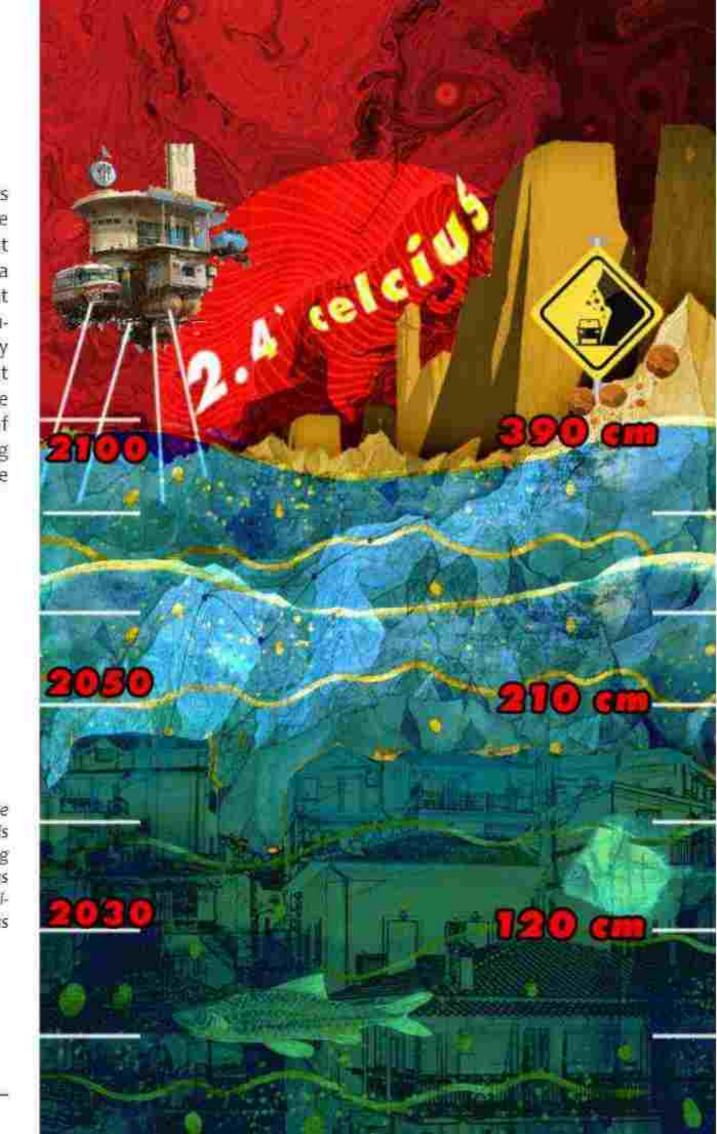
Undergraduate Thesis project Guide-Swati Shehadri

Natural disaster is the occurrence of an extreme geophysical, atmospheric and hydrological hazardous events that impacts on communities causing damage, disruption and causalities and leaving the communities unable to function normally without outside assistance. Vulnerability to natural hazard is on the rise, it is an increasing source of concern for the community.

Landslides are more widespread than any other geological event and can occur anywhere in the world. Landslides accompany heavy rains or follow droughts, earthquakes, and volcanic eruptions. Landslides contributes about 30 % of the natural disasters. In India 12.6% of land area, excluding snow covered area, is prone to landslides. There is increase in landslides occurrence in hilly terrain because of climate change and global warming. With this increase in landslides there is loss of housing and there is a subsequent need.

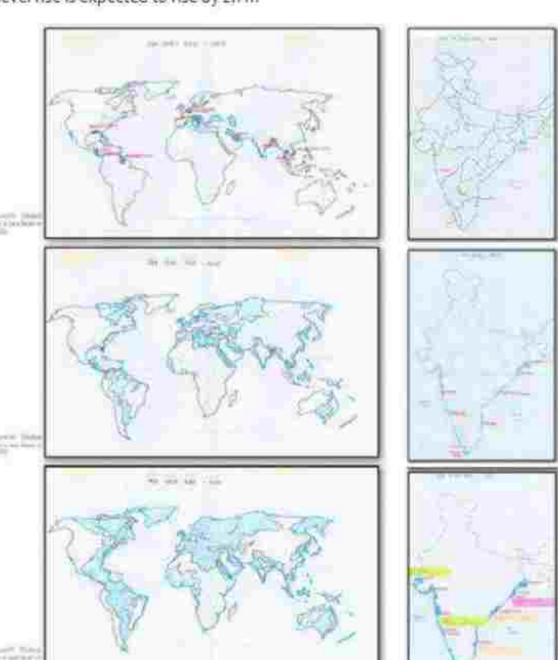
Brahmagiri is a mountain range in the Western Ghats of Maharashtra which experiences landslide once a year and rock fall every other day especially in monsoon. Brahmagiri is the first peak of Sahyadri's and is 1298 meters high from mean sea level. This region sits in seismic zone III and experiences heavy rainfall which had caused weathering of rocks and cracks in them. This hill is composed of Basalt rock and red soil which is impermeable and leads to erosion of soil and thus triggers landslides. Design thesis aims to study landslides and create a relation with a land where the structure and land both can co-exist through the lens of architecture. The idea is to look at a structure or de - sign that at present deals with landslides and in the future adapts the climate change. How lightly can the structure be placed on earth? What will be the language of architecture in the present and the future given the context of natural calamity? Thesis focuses on learning construction techniques to develop future landslide resilient house.

This thesis project is about the study of vulnerable natural terrain and studying of various methods of dealing with it through the lens of landscaping as well as structurally. To reach the conclusion as to why vulnerable terrains a thorough study of climate change and its effects on rising disasters was done.



Predictions

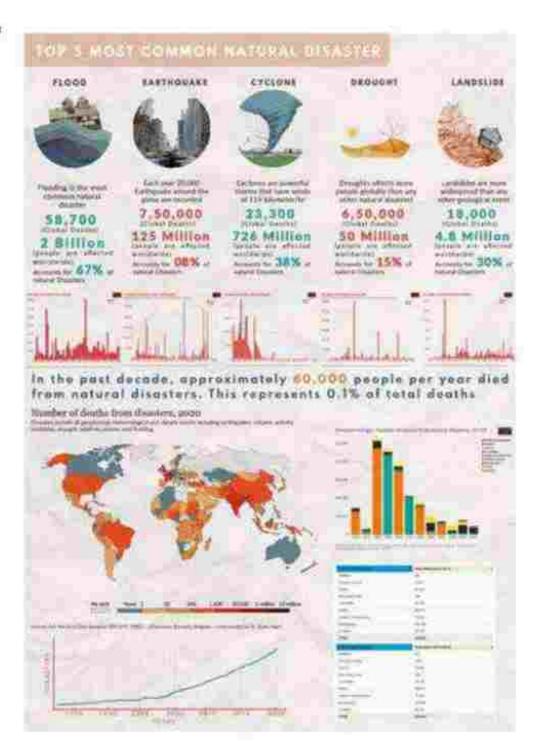
- By 2050 world population will exceed at least 9 billion and by 2050, the population of India will exceed that of china
- » Climate models predict that earth's global average temperature will rise an additional 4oC during 21st century if greenhouse gas levels continue to rise at present levels.
- » Climate change is predicted to impact regions differently temperature increase are expected to be greater on land than over oceans and greater at high altitude than in tropic and mid-latitudes.
- » Thus, hilly regions will experience more temperature rise.
- Warmer temperature will cause changes to other aspects of climate such as rain, snow and clouds. They are also causing changes to the ocean, life, ice and all other parts of the earth systems.
- » Temperature rise will cause more evaporation and will lead to more precipitation.
- Global average precipitation can increase by 7 % for each degree of warming.
- » A warmer climate will cause sea level to rise via two methods melting glaciers and ocean water expansion.
- Since 1880, sea levels have risen about 0.10 to 0.20 m.
- » By the year 2050, sea level will rise an additional 0.25 to 0.3m and by 2100, sea level rise is expected to rise by 2.1 m



Evidence

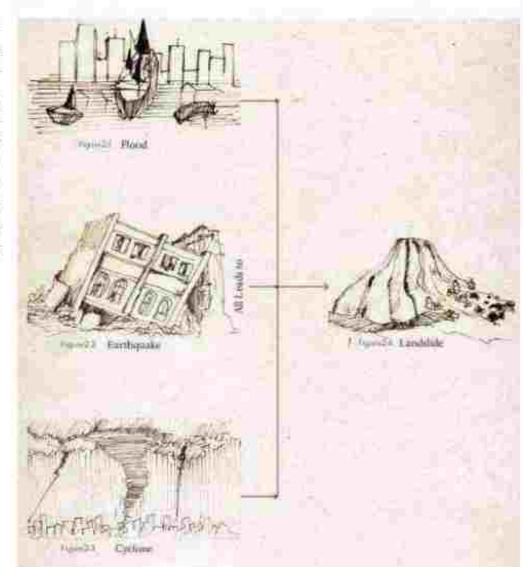
- » Maps depict projected sea level rise in 2030, 2050 and 2100 showing impacts on dense urban development of major cities of world like Mumbai, Chennal, in India, Haiti, Florida, Kiribati, Jakarta, etc.
- » A Lagos city in the Nigeria is already experiencing hot climate and droughts.
- Haiti the hurricane happening are now wetter and more intense due to climate change. The landscape here is heavily deforested because of frequent hurricane and is now also experiencing landslides.
 Kiribati- Kiribati is now already six feet above sea levels and is ex-
- perfencing regular floods.

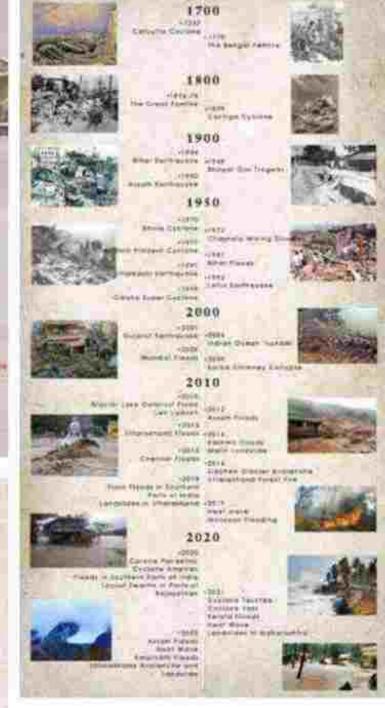
 » Antarctica have lost 2.71 trillion tons of ice from 2002 to 2020.
- » Forests fire of Australia and Uttarakhand in India are examples of rise in global temperature rise
- » Cities like Netherlands have already started building floating cities because of sea level rise.





To understand rising frequency of disaster different timelines were studied globally and of India. Based on the research of timelines, predictions and evidences natural terrains was the main them of my thesis and how to build sensitively on such terrains was the intent of this thesis.

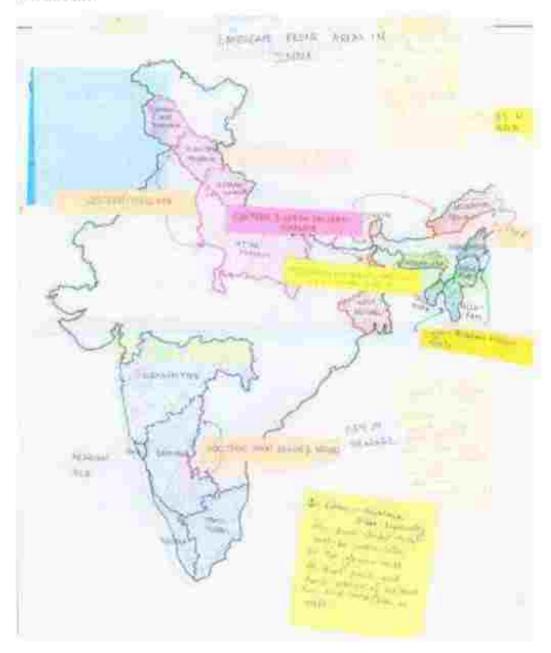




NATURAL DISASTER TIMELINE OF INDIA

Vulnerable terrains which combat with landslides were briefly examined. Western Ghats is one such zone which have very challenging landscape and Maharashtra have recorded the largest numbers of natural terrain disasters in the recent years. Taking Malin as a case study a site with similar conditions was chosen so as to provide an alternative to avoid future devastation.

Landslide, a natural hazard in mountain areas, can cause extensive damage to life and property. India has areas which are prone to landslides. The most affected area are Jammu & Kashmir, Himachal Pradesh, Garhwal Himalayas, North East Himalayas, Western Ghats and Nilgiri Hills. The Western Ghats region is tectonically more stable and has less frequency of tremors and landslides due to it. Therefore the causes of landslides in the Western Ghats are different from the Himalayan region in terms of geo tectonic. Western Ghats is comprised of basalt rocks. These rocks have great resistance to erosion and denudation and result in fewer landslides due to differences in rock composition. The Western Ghats are less susceptible to Earthquakes and have fewer Earthquake-induced Landslides. Extensive quarrying in the Ghats, changes in land use, in - crease in rubber and other plantations and tourism where structures are being built are now resulting in landslides.



to steep hill slopes, overburden, and high intensity rainfall. The Western Ghats, exhibited numerous scars of landslides due to their location in a zone of high intensity rainfall and oversaturation of over burden material. Many mountainous regions in the tropics witnessed extreme orographic rainfall episodes in the recent past. The portions of the Western Chats that fall on the Ker ala state also experienced extreme climatic conditions in floods and landslides in 2018 and 2019. More than a thousand small and large landslides occurred during that period in the State's Western Ghats regions. The landslide at Kavalapara in the Malappuram district in 2019 is at the top in the state regarding the causalities, financial loss, and spatial spread



Maharashtra experiences 10000 landslides approximately from past 4-5 years. Maharashtra consist of some very high ranges from Western Ghats such Kalsubai, Mahabaleshwar, etc. which are experiencing landslides and are causing harm to nearby areas too. And this number is increasing day by day with the rise of global warming, Pune, Raigad, Nashik and Mumbal are most vulnerable site in Maharashtra which experiences landslides, 30% land in Maharashtra is under landslide prone zone.



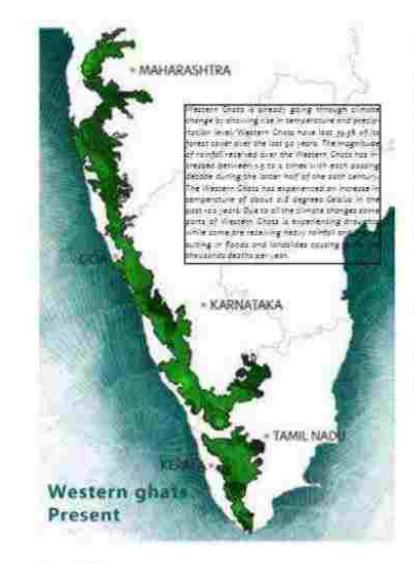
Karnataka have experienced 993 landslides during last 4.5 years. In the last few years, landslides have become a common sight in many parts of Karnataka during the monsoon season, especially in the areas covered by the Western Ghats, Between 2015-2022, Karnataka had reported 194 landslides. The topography of the region is sensitive and any changes in the land use causes landslide or slope failures affecting the population.



Kerala experienced 5,191 landslides during last 4-5 years. Kerala stands second in the list of areas experiencing landslides. Out of 3782 landslides 2,239 landslides were recorded in Kerala from 2015- 2022, 43% of the total land in Kerala in under land slide prone zone. Majority of the movements has occurred in hill slopes. Year 2018 recorded 80 landslides and 2019 recorded 341 landslides.



Tamil Nadu experienced 606 in last 4-5 years. Nilgiris in Tamii Nadu have extensive history in Landslides. It's the most affected area in South of India. Past 2-3 decades experienced 5 major landslides. Landslides here mostly happened because of plantations of crops which lead to 70 % of loss of original forest land. 1902. 1978, 1993,2001,2006,2009 are notable years for landslides in the history.





Maharsashtra

As mentioned earlier Maharashtra experienced 10000 landsides in past 4-5 years and this number is increasing day by day. In the beginning the reason was construction of Konkan railway lines but recently changing climate is causing more precipitation and have led to heavy rainfall and floods. This flood induced landslides are causing numerous deaths and destruction in Maharashtra. Some areas experience are too vulnerable to landslides where the option is to displace people but at some places solution can have a second and the sound of the second of the be provided by building houses which are landslide resistant.



Landslide Prone areas

Pune, Nashik, Ratnagiri, Raigad and Mumbai Raigad and Pune are the most vulnerable zones experienc-Ing landslides. Whereas Nashik and Ratnagiri are moderate zone and Mumbal rarely experiences landslides

ELEVATIONS

- -NASHIK-587M
- -PUNE-557M
- -MUMBAI-6M
- -RAIGAD-475M RATNAGIRI-19M





One rungers Phase percent could be name to a discuss participation of the participatio HOLD IN COMPANY OF THE PARK THE The data of the suiters Commander Pitts on Tables 2000. The period AND ROSE AND IN OPERS. The star 2015 had early excess: The prior 2010 receiving 55 quarter.

Taking Malin as a case study a site with similar conditions was chosen so as to provide an alternative to avoid future devastation.



WHY THIS SITE?

Local want government to cover the Brahmagiri hill with wire mesh. From all the sides.

But government says that it is such huge area of hill and it's practically impossible to cover it with mesh from all the side.

Also government says that even if we try to achieve the task of covering the hill with mesh, there are still chances of landslides in the area as the villages are situated on the slope and the soil here is already in poor condition, so the slope is bound to slide.

Thus government have asked locals to migrate and thus this village have received the migration order from the government.

But locals won't migrate as their main occupation is based in this area and they are attached to this place since their birth.

Also in this village locals have freedom to expand their houses or utilize the space in whatever way they want to use.

But once they migrate to a place provided by government they won't have freedom to build or expand houses.

Also locals don't have any other occupation than being a porter and they think it's their responsibility to guard the hill as their ancestors did.

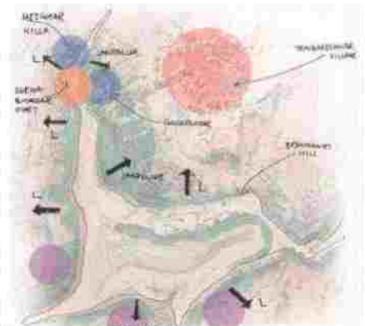
Thus in such situation how architecture will create a bridge between land and people?

How architecture can be integrated given the site condition?

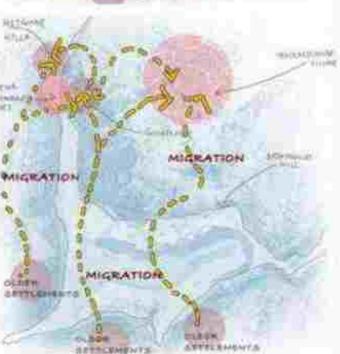
What type of design or technology can be used to avoid current and future landslides and climate problems?

How will architecture respond and how the structure be such that it will remaining as a monument or symbol even after years in future just like the existing temple are, so that tourism will also increase in future and will help villagers too?

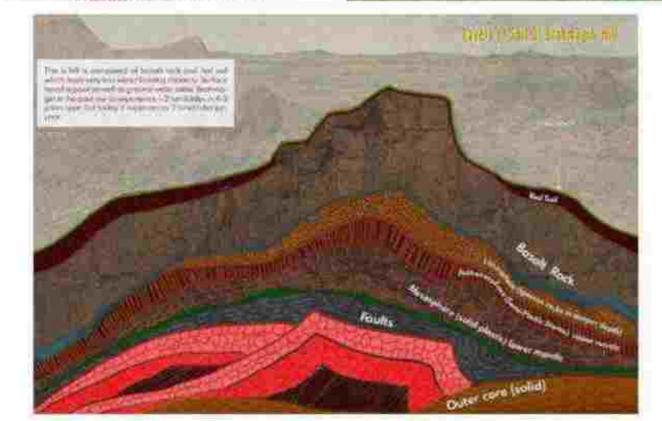
The areas marked in blue and green captures most of the water and then led the streams to the Godavari River, Valtrana dam and the lakes in Trimbakeshwar village. A large part of this hill and nearby area is under forest reserve and farming. Rest of the area have wild vegetation grown all over the hill and open brown fields which have become unfertile by over farming. The Trimbakeshwar village is a floodplain zone as most of the water from the hill also accumulates here.

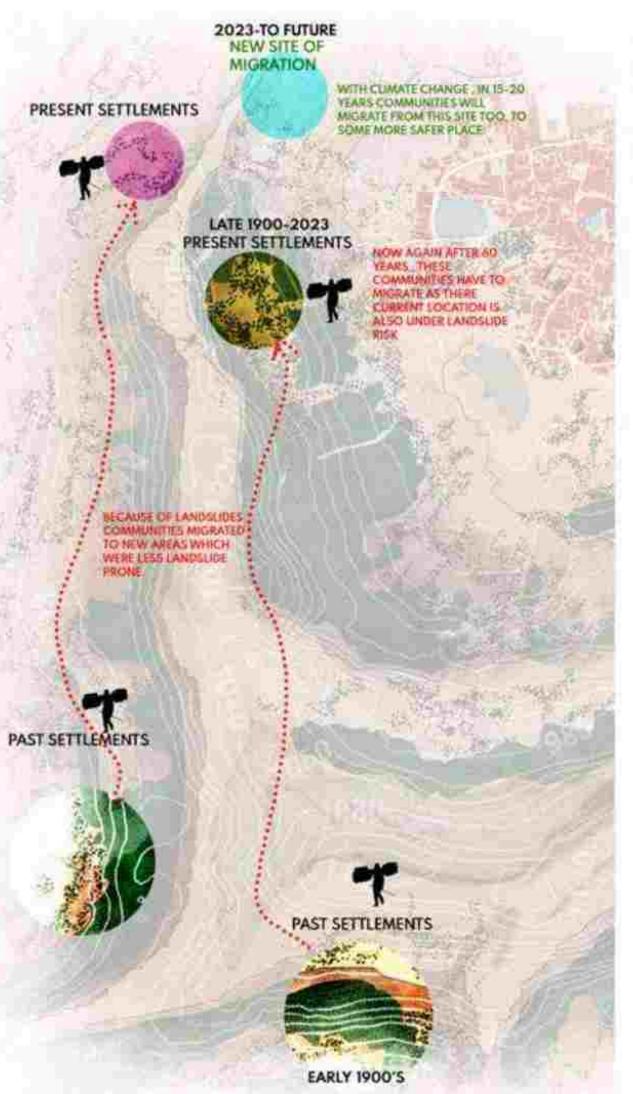






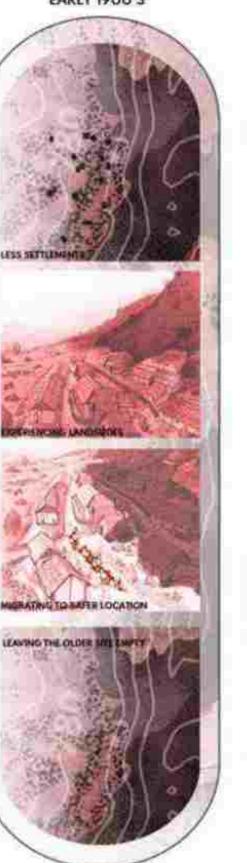






During Peshwa's regime communities used to stay on the rear side of the mountain which soon experienced landslide and these communities lost their houses and thus they had to migrate to Godadwar village and Metghar killa which are current present villages on the hill.

EARLY 1900'S

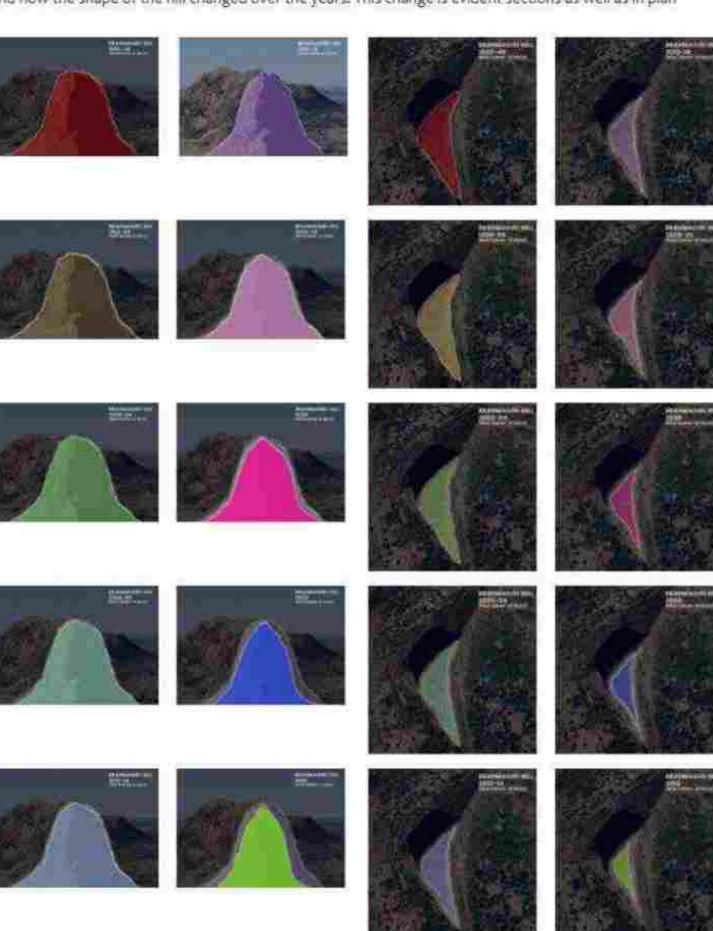


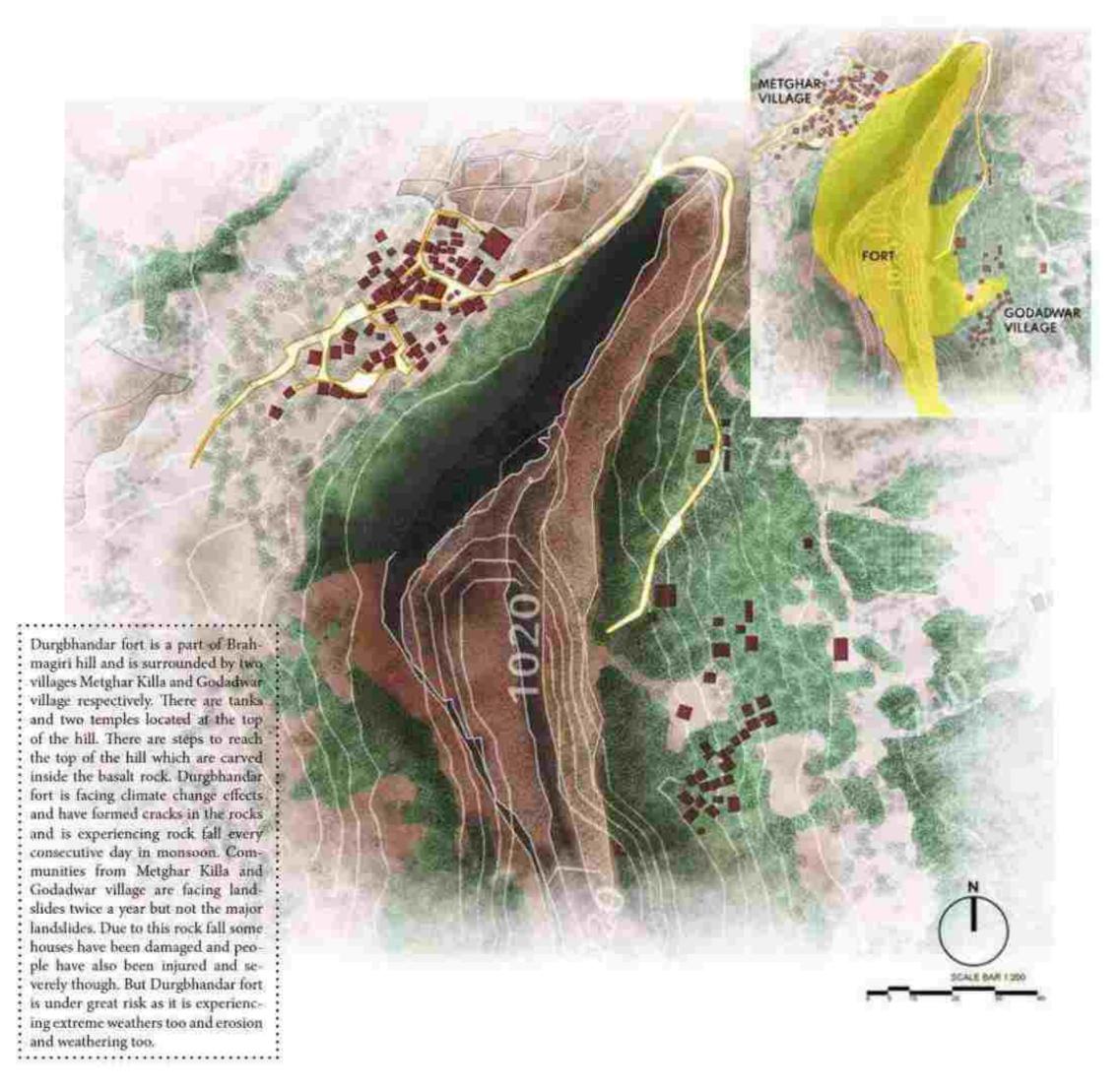
Due to Climate Change and ever The communities from Godadwar rising Global warming these and Metghar village were not having resources and idea as to communities again have to what to do if they migrate somwhere else and where to migrate from Godadwar and Metghar village to new site as these site have became prone to migrate, and also what to do with landslides. But these communities their houses. Providing a prototype will help communities to migrate don't want to migrate as their even to any other location in future livelihood is based here.

LATE 1900-2023



2023-TO FUTURE

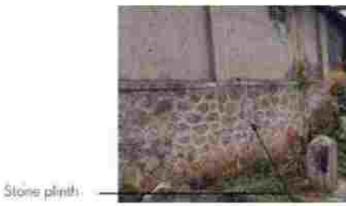




MEASURES TAKEN BY LOCALS AGANIST LANDSLIDE In the region

People of the Metghar Killa have built Retaining walls around the sloping land where they are situated right now. They have also tried to build strong stone plinths for their houses. But there roof and walls are not strong enough to resist any shock by landslides. People of Godadwar village have not taken any measure and just staying in brick wall houses. Some people are adopting RCC houses and steel roofs, but there base i.e. foundations are not strong enough to protect their houses during the time of landslides. This houses are built by villages only who are have or are learning new construction technologies. But there are no other measure taken by villagers than building a retaining wall



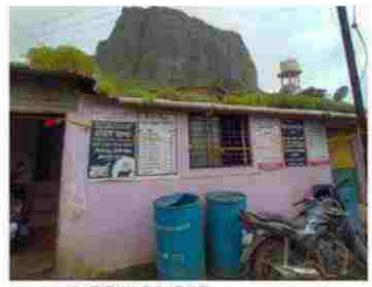




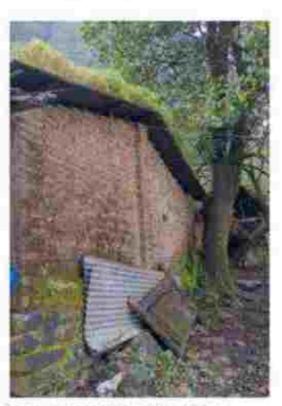
EXISTING HOUSING TYPOLOGY

The houses of Metghar Killa and Godadwar village are usually brick houses with stone plinth. Earlier there were mud houses and today villager are slowly-slowly adapting to build cement houses. But some houses are still built in mud. This houses use traditional methods to protect their houses from extreme weather conditions, Around the mud wall there are thin wall made up of Karvy sticks which are woven into each other and thatched with leaves. This wall protect the mud and brick houses from heavy rains and prevents water from seeping into the house. During this leaved keeps the house colder once the water is sprinkled all over them. During winter the gap between the mud walls and the Karvy stick wall thatched with leaves acts as a cavity and provides warmth to the house.

The roofs are generally made out of bamboo and steel with mud tiles and some thatched leaves. Sometimes bamboos and steel both are used together to build roof. For some houses half cut bamboos are used and they even have gutter systems. The houses are simple rectangular houses with one partition wall which divides the space into kitchen and living room. The tollet, bathrooms and store rooms are outside the rectangular layout but are shaded with the roof. Sometimes when the number of family increases a thin wall roomm thk is built out of bricks inside the house to create more partitions in the house. But sometimes kitchen is moved outside the house and the kitchen space is utilized as another room. They don't have any plumbing facilities. There is one well for the village from where they fill water for their daily needs.



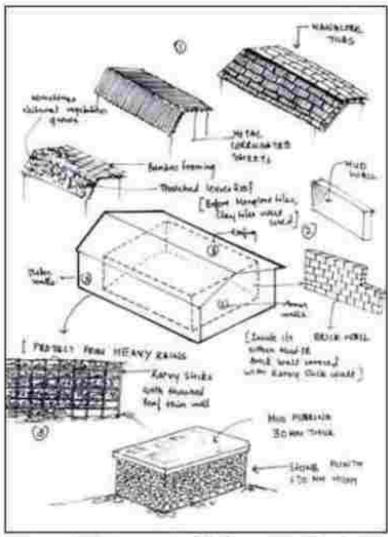
RCC HOUSES

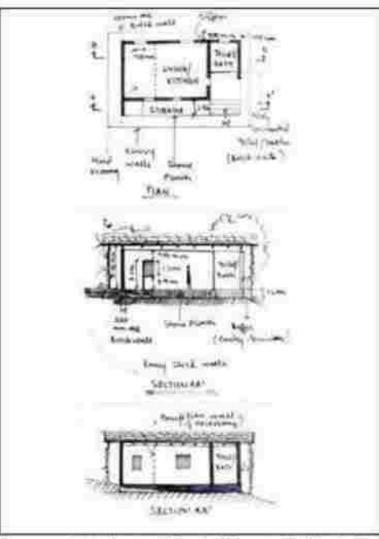


BRICK WALL HOUSES

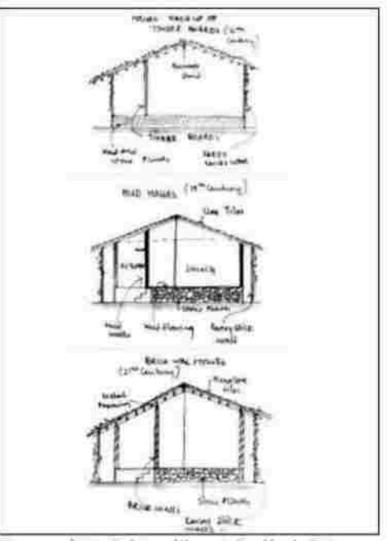


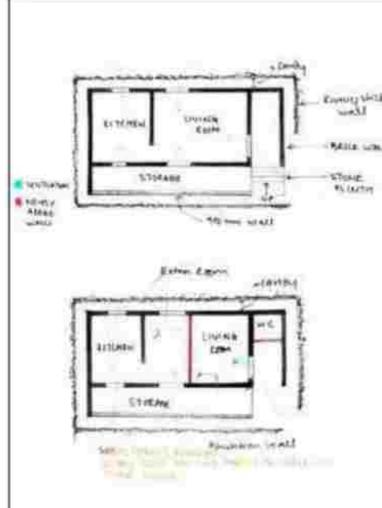
MUD WALL HOUSES



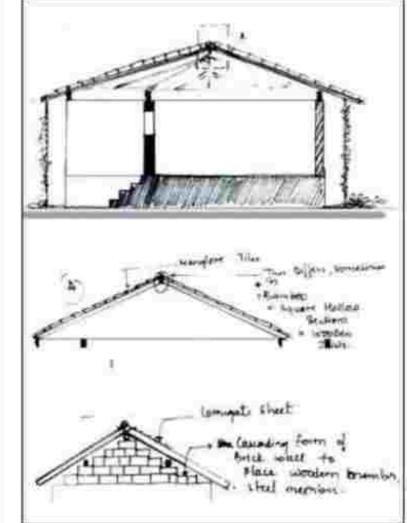


Diagrams explaining layout and Details of Houses in Durgbhandar Fort Diagrams explaining Evolution of Houses in Durgbhandar Fort





Diagrams explaining Planning of Houses in Durybhandar Fort

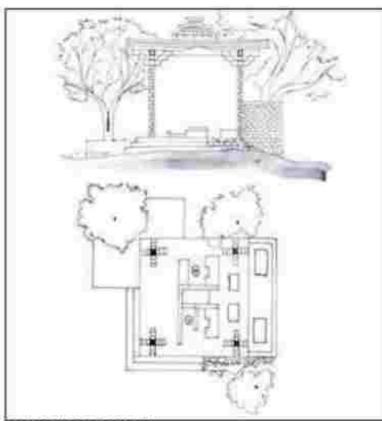


Diagrams Explaining Roofing System of Houses in Durgbhandar fort



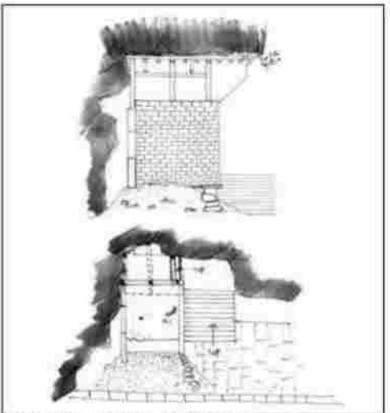
OLD RUINED STRUCTURE

This structure is an abandoned rectangular shaped building which was used as a bath during Peshwa's time. The walls of this structure are 500 mm this and is a load bearing structure made out of local stones. There are niches carved into this walls for storage purpose. There are wide three opening to this bath where the height of opening is 2.5m and the height of the whole structure is 3.7m. There is no roof or slab on the top to provide shelter and its open to sky.



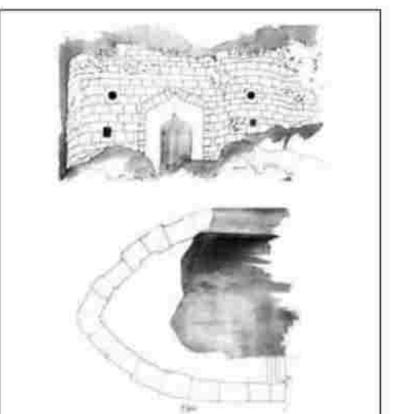
MULGANGA TEMPLE

This is the oldest temple from build by Peshwa's during 16th century AD. This structure is a unique structure because of the form of its column and thickness of slab. This structure don't have any walls all around and is standing on 500x500mm this stone columns. The structure span 6000x6000mm and the slab projects 450 mm beyond that



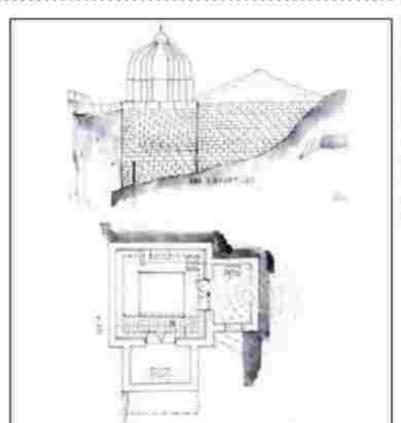
GODAVARI UGAMSTHAN MANDIR

One encounters this temple while climbing the steps to reach the top of the Durgabhandar fort. This temple is carved into the stone of the hill (the basalt rock). But to protect devotes while worshipping recently a shade has been put up on this temple. A gon mm thk stone wall is built to support the steel posts which supports the roof. Conrugated metal sheet is used as roof which have steel farming .Three posts of this structure are nailed into the rock of the hill.



OLD RUINED STRUCTURE

This structure is an abandoned rectangular shaped building which was used as a bath during Peshwa's time. The walls of this structure are 500 mm this and is a load bearing structure made out of local stories. There are niches carved into this walls for storage purpose. There are wide three opening to this bath where the height of opening is 2.5m and the height of the whole structure is 3.7m . There is no roof or slab on the top to provide shelter and its open to sky.



BRAHMAGIRI TEMPLE(LORD SHIVA TEMPLE)

This is also one of the oldest temple on this hill build during 16th century AD. This structure site at the cliff of the hill. Even though the hill is facing weathering and rock fall issues, this structure is still unharmed and as it is sitting there at the cliff of the bill. Half part of the temple. is carved into the basalt rock and half is built out of stone walls which is 500 mm this. The part of the temple which is carved into the stone is covered with some concrete material recently.

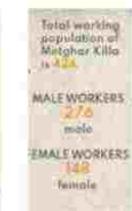
RELIGIOUS IMPORTANCE OF BRAHMAGIRI HILL

Lord Shankar was pleased with Lord Brahma when he meditated here and said" I shall be known by your name". Hence it is called as Brahmagiri. Five peaks of this mountain are called Sadyo-Jata, Vamdev, Aghora, Ishana and Tat-Purusha and are considered as five mouths of the Lord Shiva and they are worshipped. The water flows in three directions on the Brahmagiri Mountain. The one flowing towards east becomes Godavarl River, one flowing towards the south is Valtarna River and the one flowing towards the west is called the west-flowing Ganga and meets Godavari near Chakra Tirth. River Ahilya meets Godavari in front of the Trimbakeshwar temple.



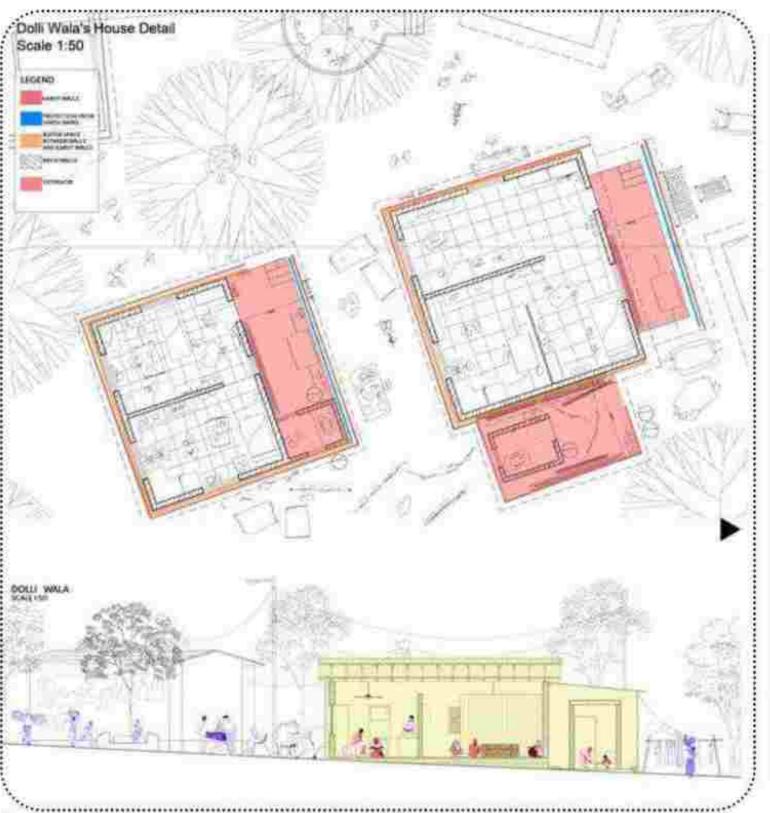


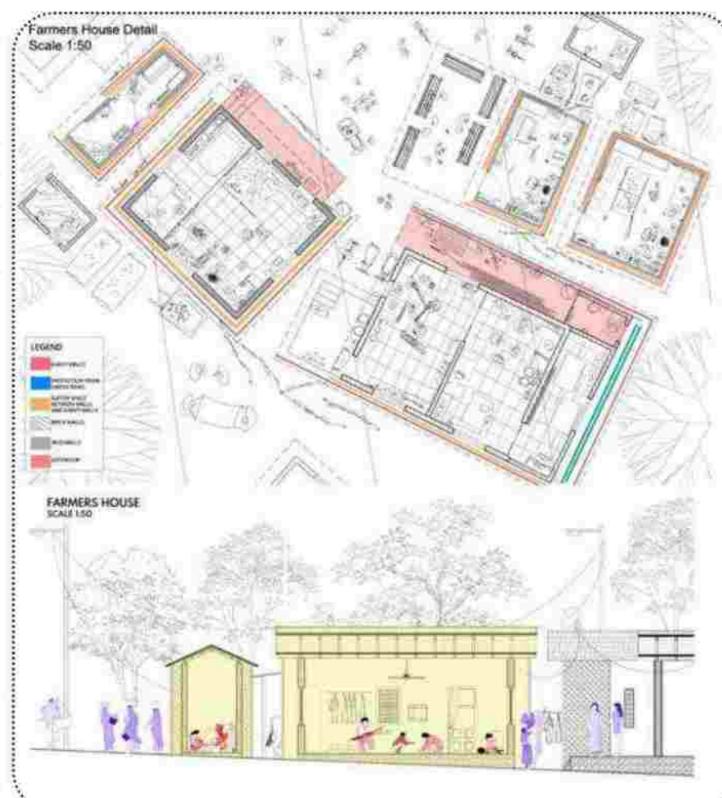


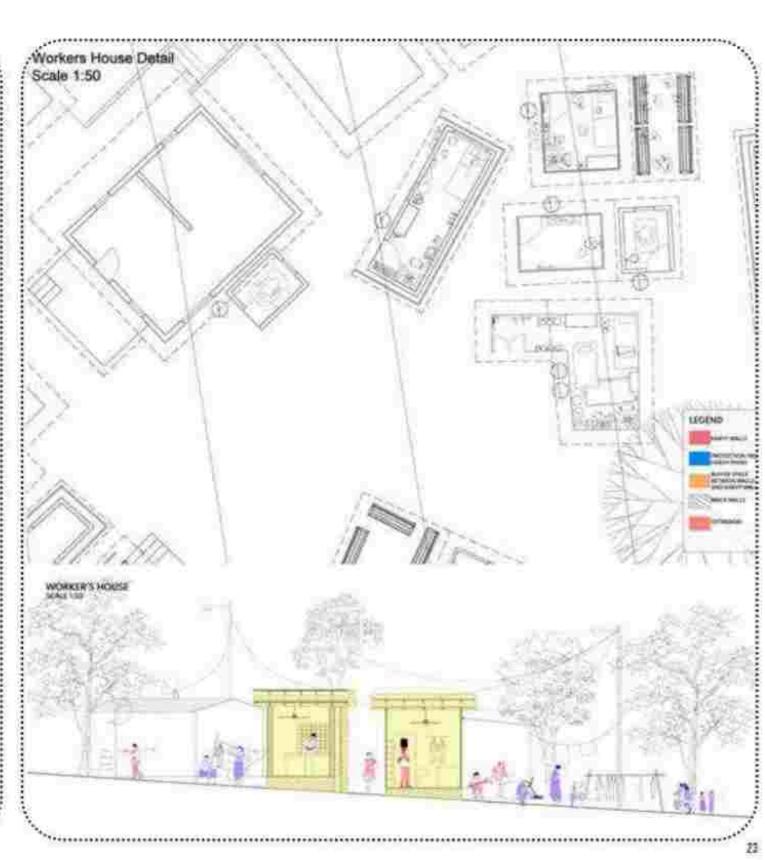


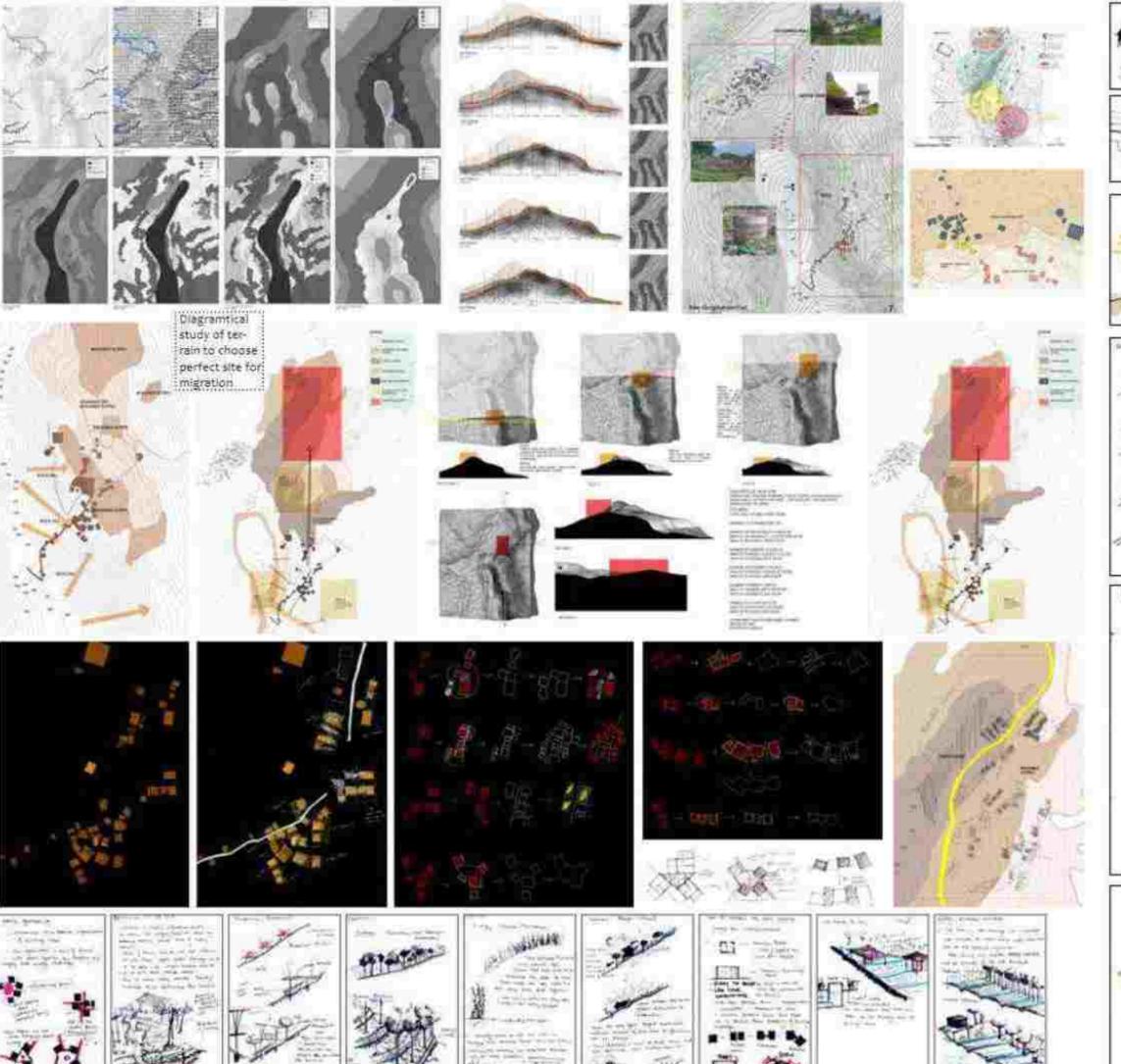


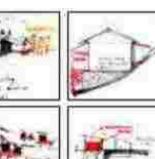
Major communities which have settled in this region are farmers, Palkhi'. wala and workers (labourers) thus design focuses on designing a housing typology for these communities based on there requirement as well as by mak-ing shift houses which will help for easy migration to protect from any future disasters. To design housing there: existing living pattern was studied.



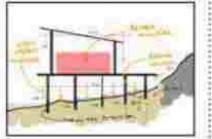


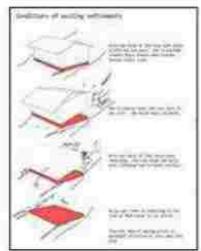


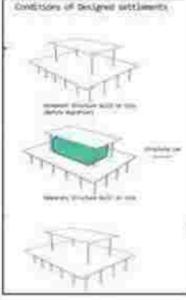


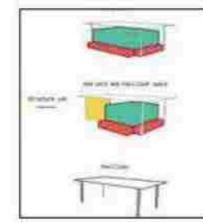












Resilience through - Landscape



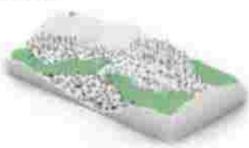
- peer slage consistions without residency within
- Setan vegetation on site-
- poor witer rangemen sylutions.
- Steep sliger



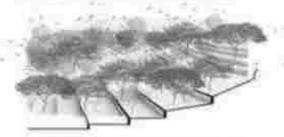
- -To exhibite the slope on site Selson will have been
- standar their retaining salls become florabilities for designed attitud atraction.



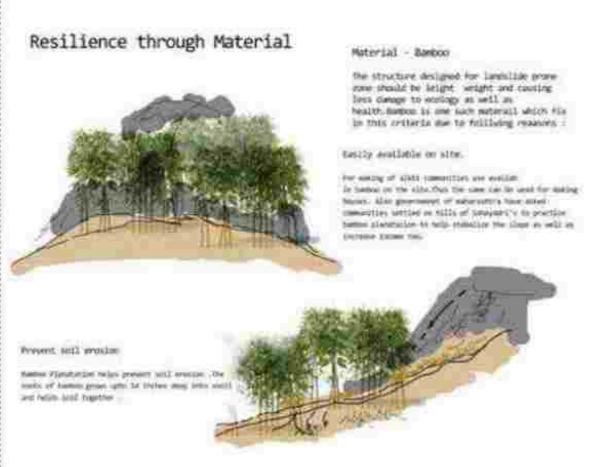
- after building gation wall's terraces are created. which helps charelize were ...
- These convers also asport agriculture by creating eorstands on the site For family and that his with stock sett.



-51 present water flawing from the top sold and to reclurge according more planetation in done on site. Existing species of trees we grown in our sector also helps hadd they all and prevent soil ansilon



-by failing above measures the side become rich in blodiversity as well as become a mantatomic regionfor slitting communities as there are nove familiards or agreeablers and sure regulation and finality to HGL.

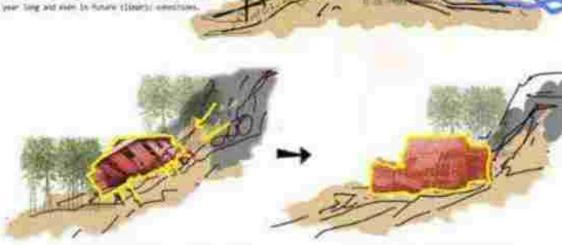




famou grow. faster inspored to other plants. Thes even of batter watership to visit in last construction. in will an energy of piddet therefore he was investigate. of harbos on side.

Adoptive to clarate change

Sintre out victorial high year as seld as heavy retrivial Seton theospies have good insciption property, be seta timbonio and trickel in Soral. anisotice they are good to you for construction allyear long and elem in funery climatic constrain



Ramboo house Collapsing due to landilide

Less danger caused to the procesty

Sectationle - Caute less damage to property.

If yours are halfy using below in herelike prove mos they will name less destruction as empared to extraction The track, itsie, etc.



Workers are the level uners on the site and line spent on site in thes soil. This there housing is a singular unit with ties split but species.

Workers Housing

Size recovery good present of our topy egit side and German program comigée to diging grants and egit, colored products. These farmers community side in the lower value of the side where man of the spill of passive one facing and and they have many access to desiring

Farmers Housing

For easy scenes in rised Palets continuely feating in the case are these community requires more agent to built patch's this larger floor planet are provided.

Palkhi wala's Housing



DETAIL VIEWS OF THE SITE













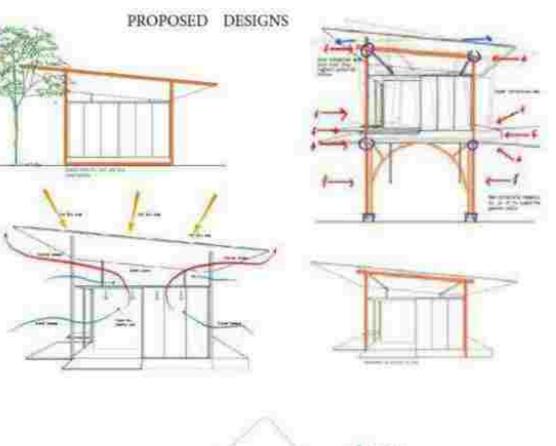
Site Section

Bamboo forest, Community spaces, Shops and Markets

...

Farmlands



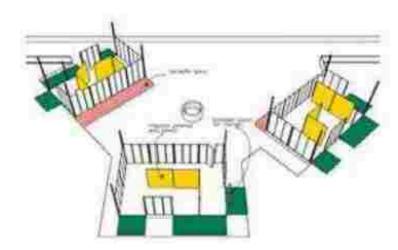


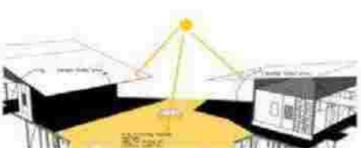


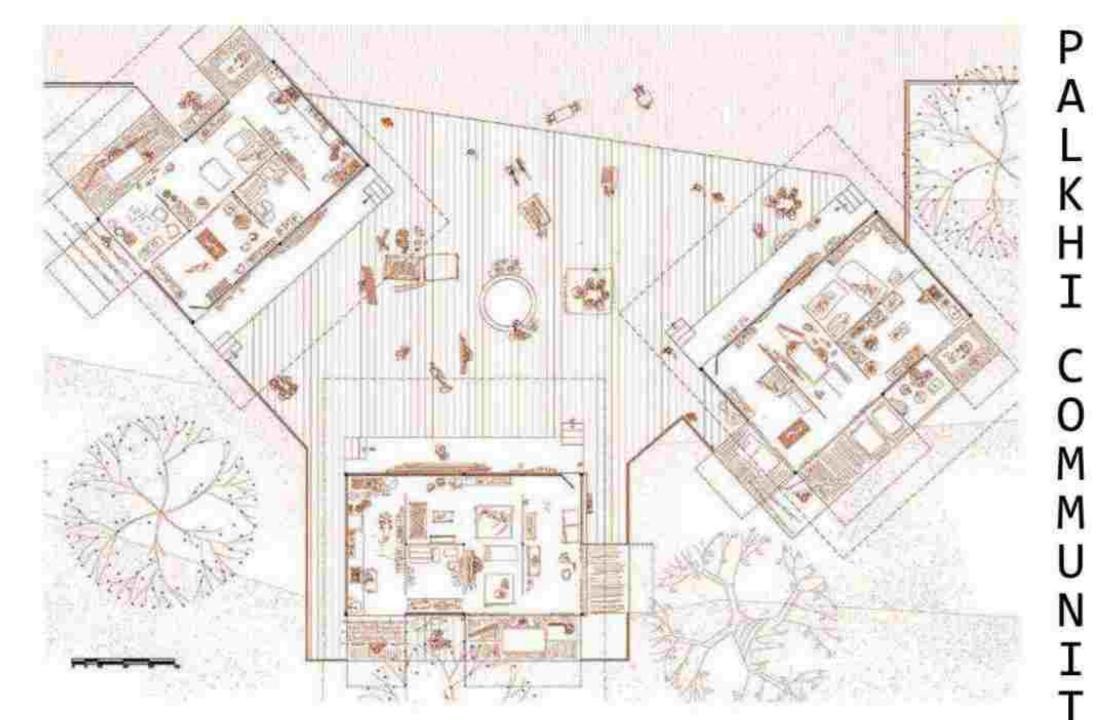
Also they have all houses opening to central courtyard space for community gatherings

as they can even build palkhi's there

together.

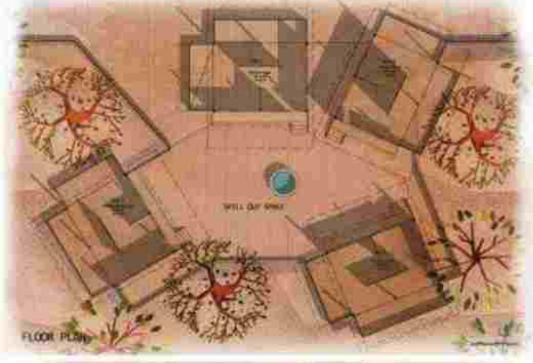






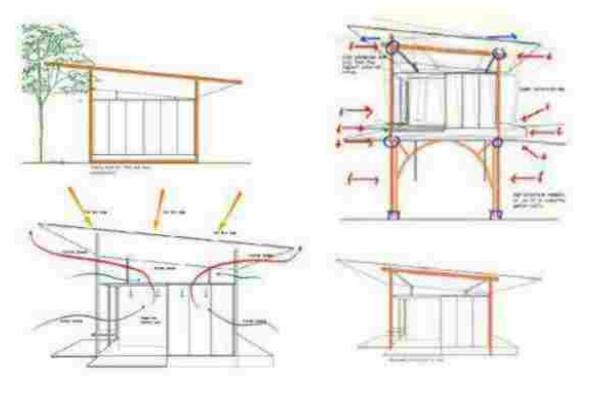










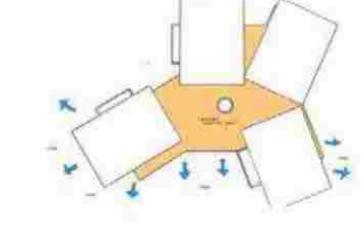


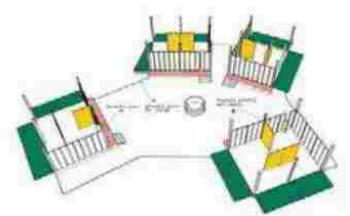
These housing settlements are located on the lower side of the hill for easy ac-

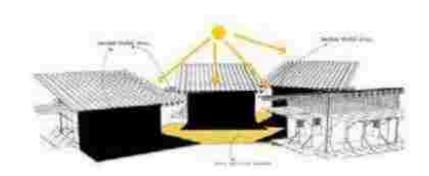
cess to exiting farmlands and

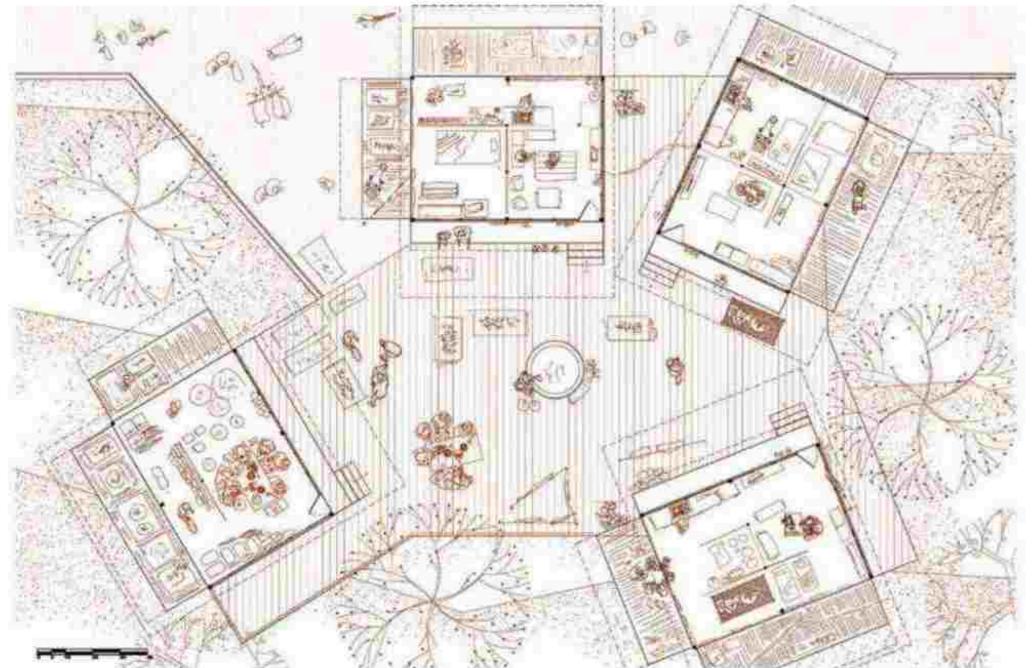
also to gain maximum eastern sun-

light.

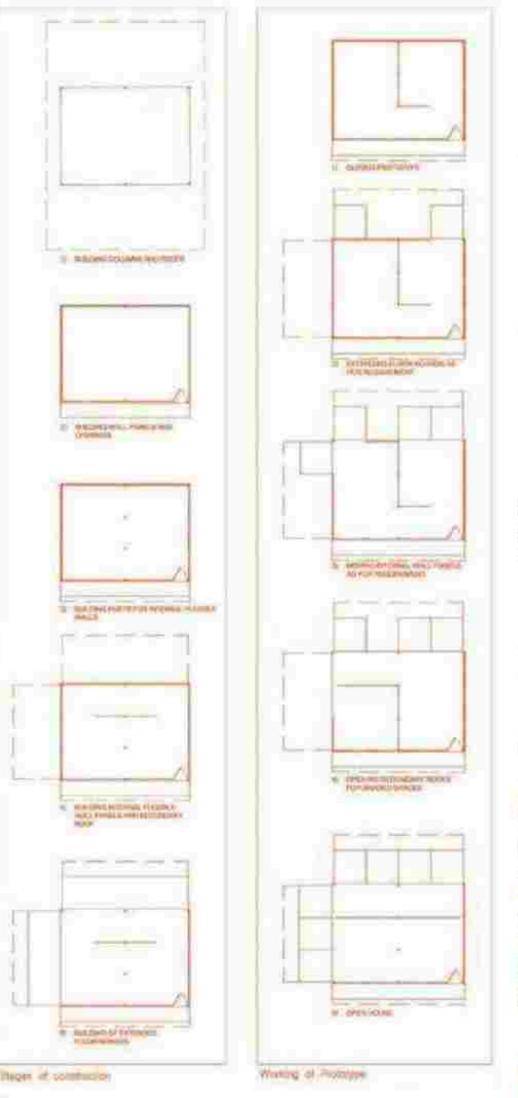


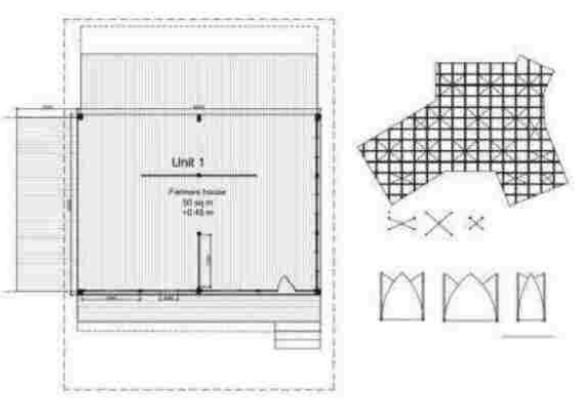










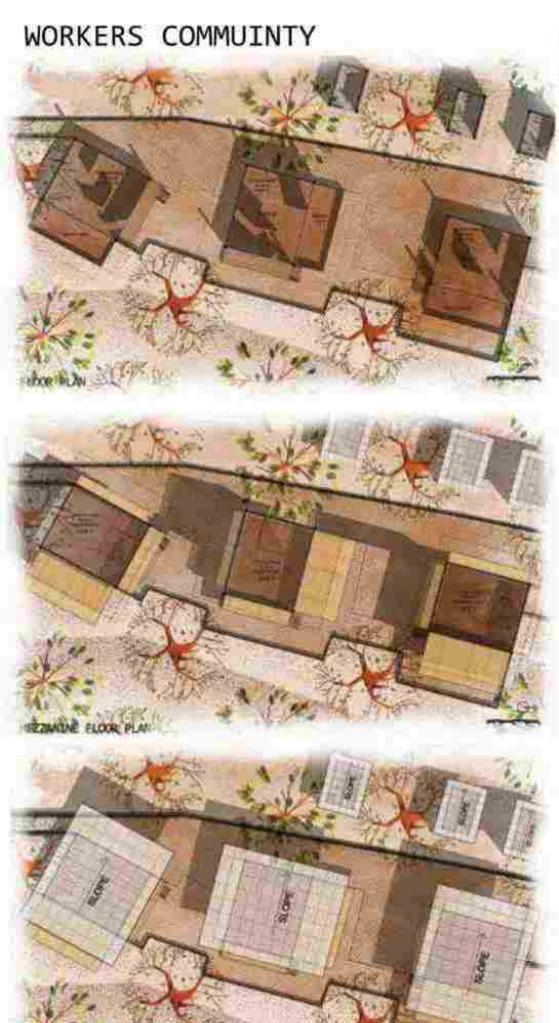


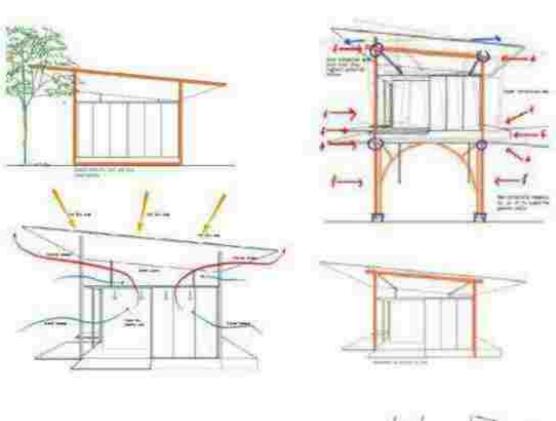
The housing for farmers is designed in such a way that most of the openings of houses and extended spaces faces the sun and gains maximum sunlight which helps farmers to dry their seeds.

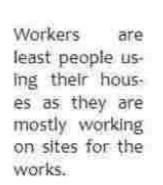
The space below stilts is used for storage. They have one common granary storage room where all the farmers together can sit and sieve the seeds.





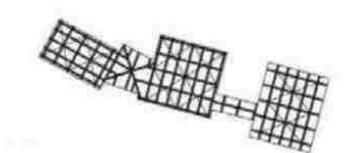


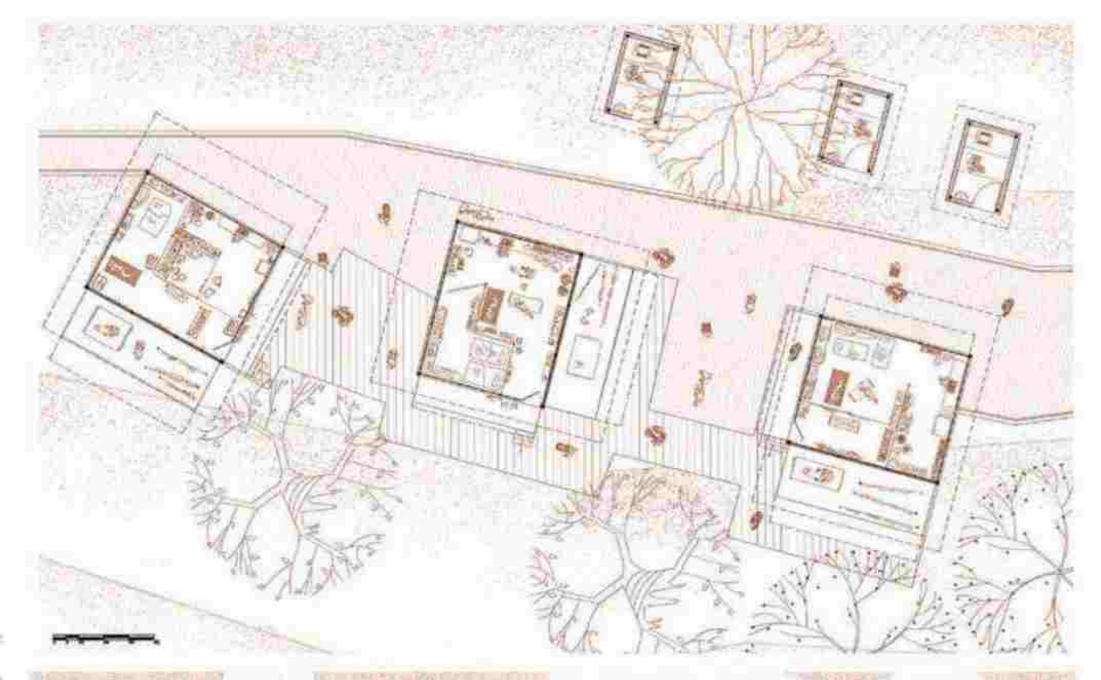




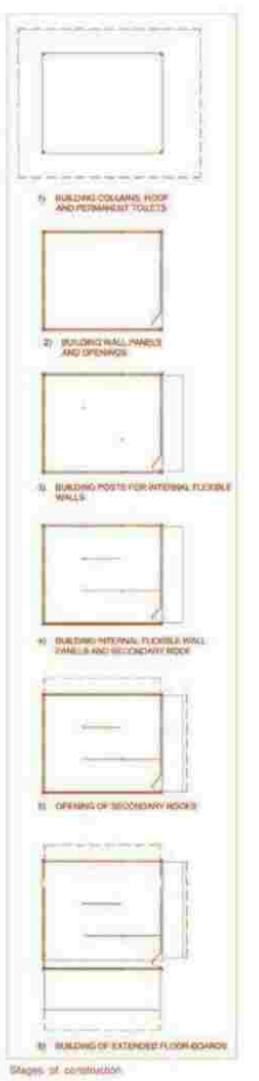


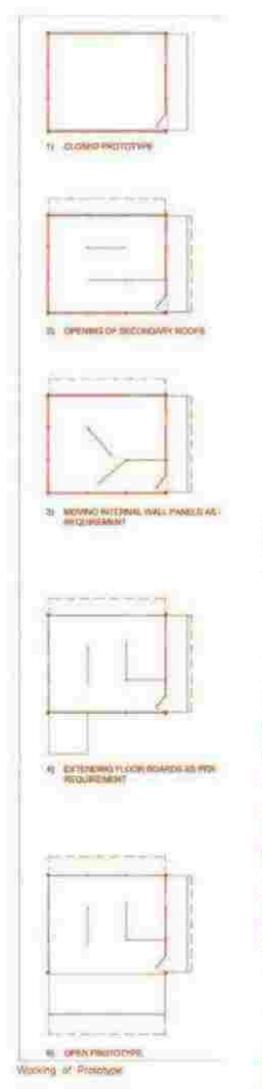
The open common spaces are used for community gatherings.

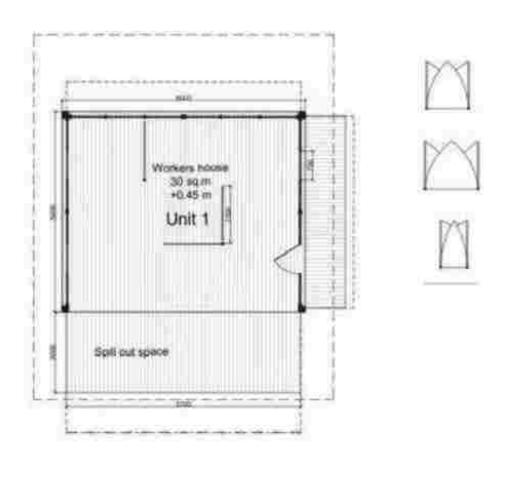








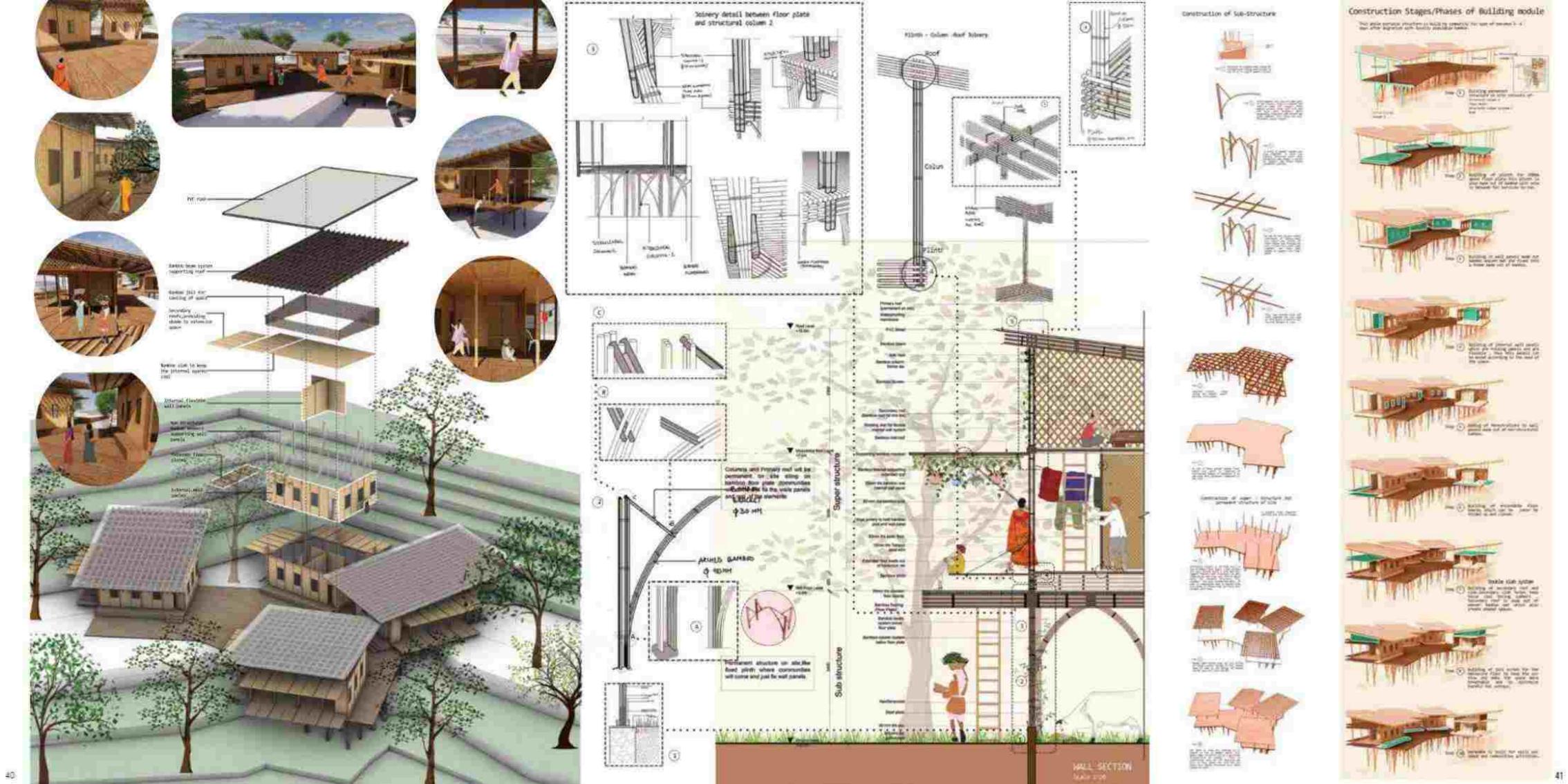




As the use of shelter is minimum of these communities the housing is designed on a linear platform and is located in between the palkhi wala's and farmers housing. The spaces under the stilts are used for storing there tools and sometimes to park their hand carts.

















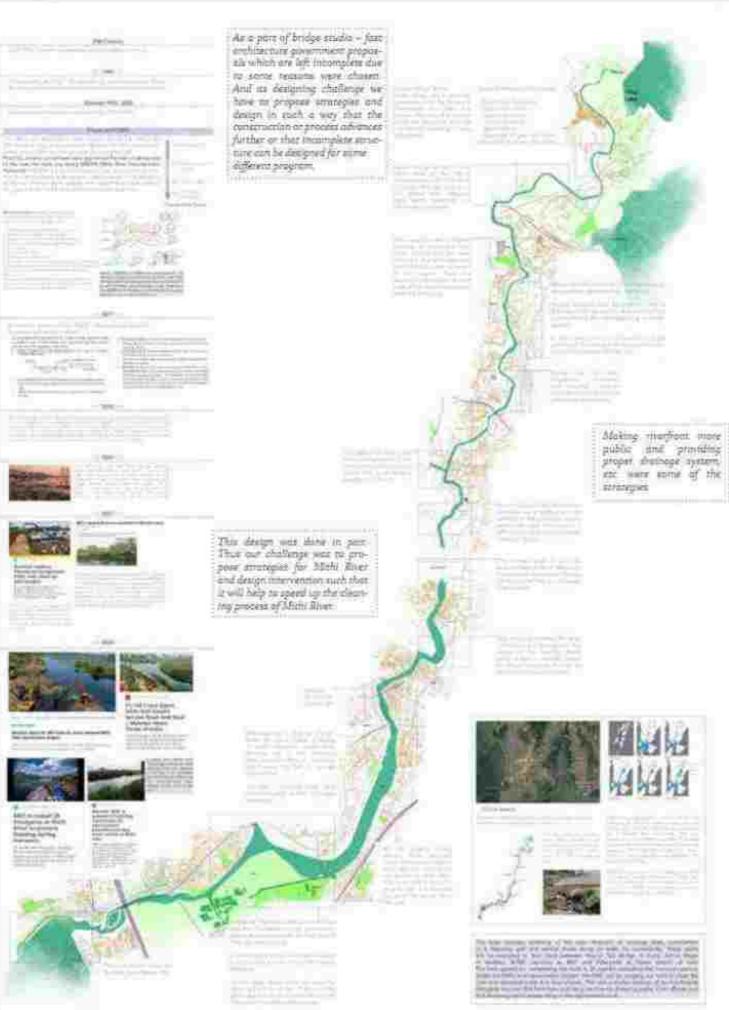




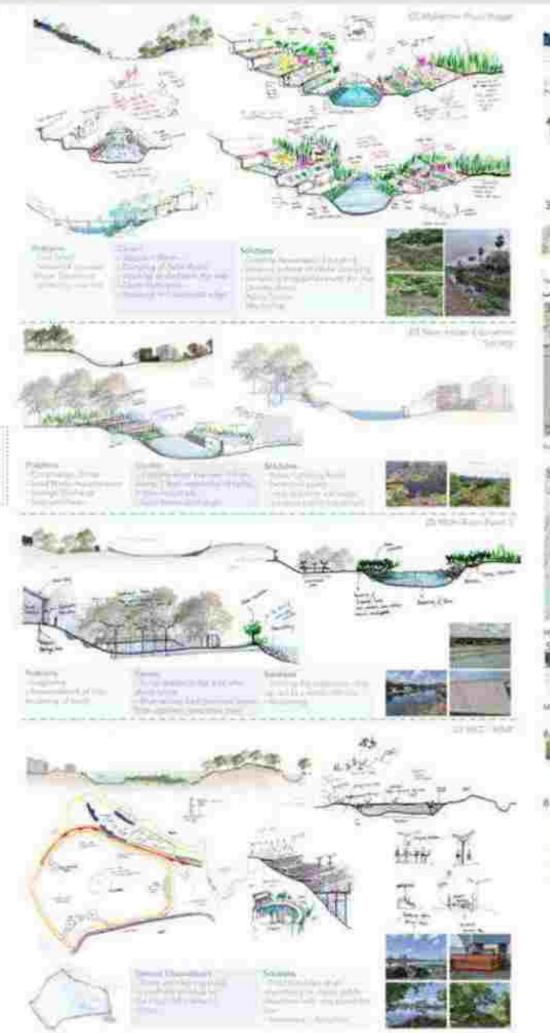


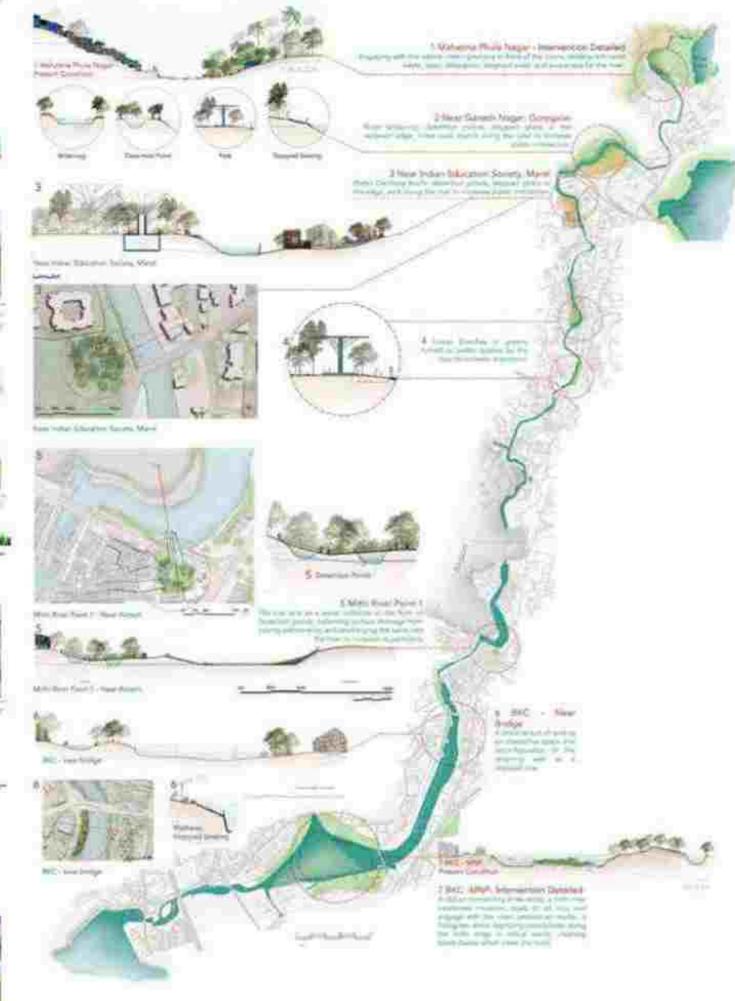


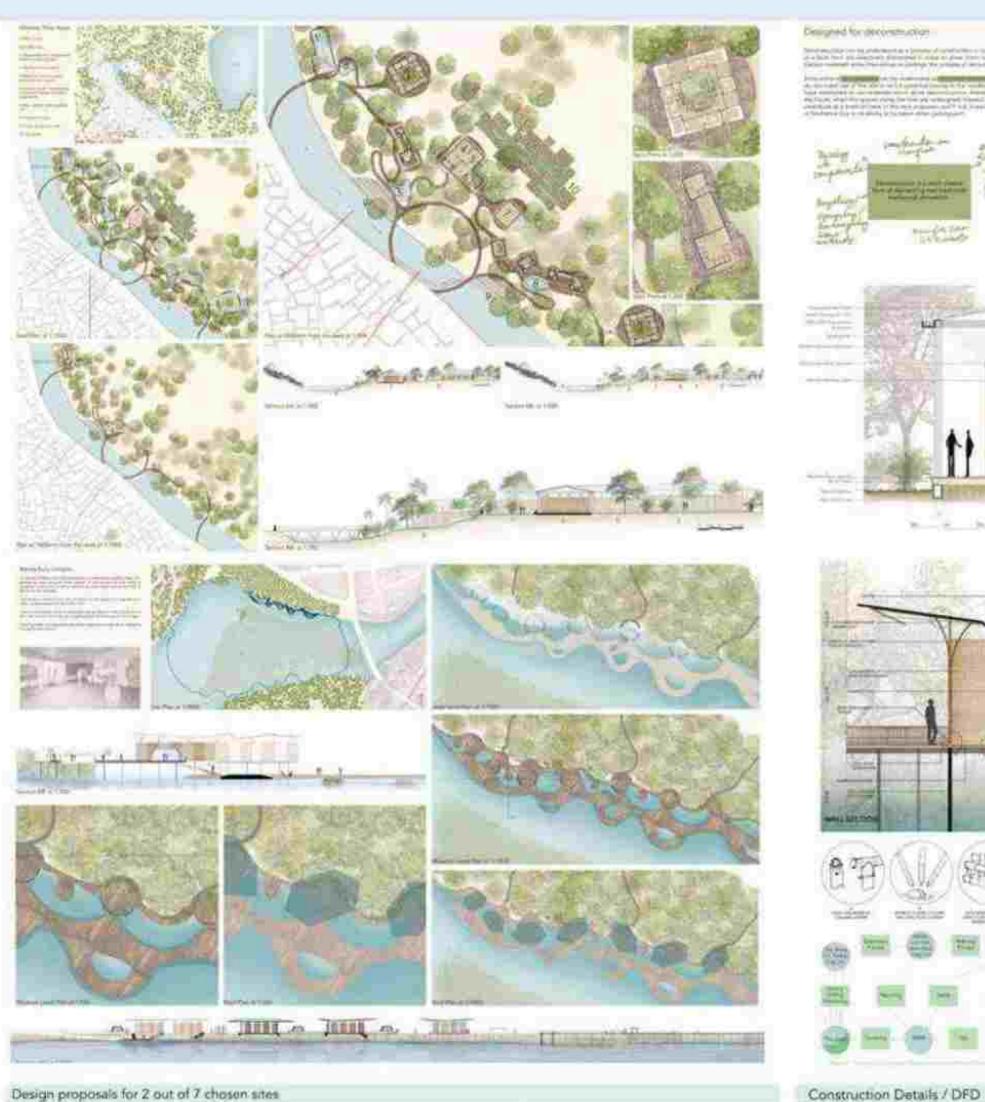




AND AND ADDRESS OF THE REPORT OF THE PROPERTY OF THE PROPERTY

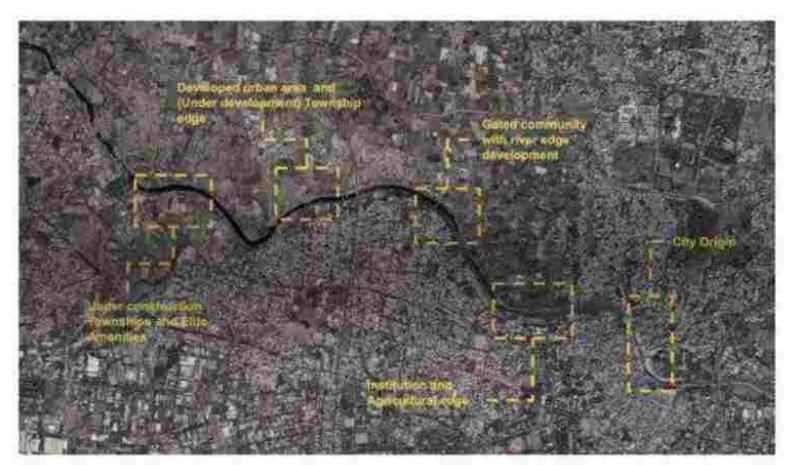












In the current scenario, farmlands are sparse and on the verge of extinction. We observe a similar trend of urban development taking over the agricultural lands on the northern bank of the river. Lack of schemes for development, less income, frequent flooding, impact of the polluted river and many such problems are causing farmers to sell away their lands for urban development.

IMPACT OF LAND USE CHANGE ALONG THE RIVER



We propose an integrated model for the future development of Nashik that will support both the future developing infrastructure as well as the existing farming lands. A two-phase project that first seeks to improve the current concretized banks of the river into a more flood resilient landscape while also improving the health of the river. This in turn will also enable an improved condition for the farmlands depending on the river. Proposing programs in the second phase that bridge the urban and the rural of the city in a way to support each other while also retaining, empowering and encouraging the agricultural landscape in Nashik.







DEVELOPMENT THROUGH THE YEARS



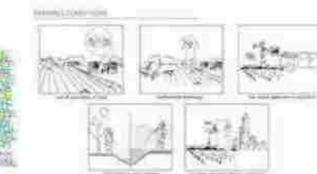














WATER MORPHOLOGY CENTRE



Exhibits and Installations that will help people understand and become aware to the current state of the neighborhood and its impact on the river



FARMING INSTITUTION



Institute where people of all ages and background can learn and practice farming as a hobby or skill. Alm is to improve the existing conditions of farmers while promoting agriculture as an important occupation for future



FLORICULTURE RESEARCH AND DEVELOPMENT CEN-



Reviving the old agriculture as a major source of Income for the farmers as well as the state.

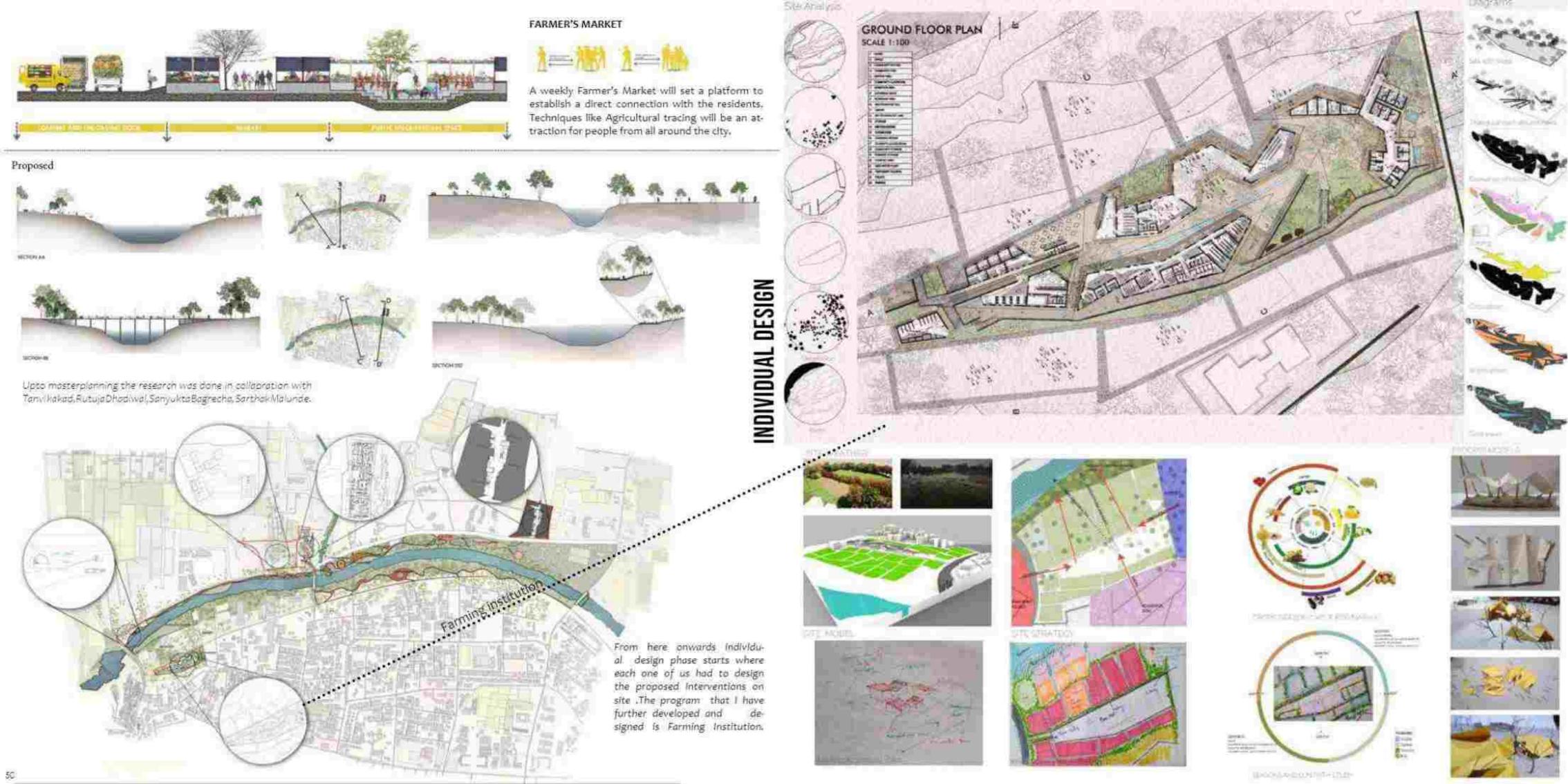


YOUTH CENTRE

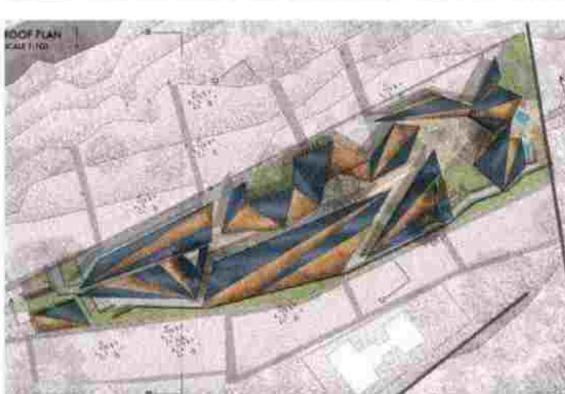


Lack of infrastructure and no learning opportuni-

Empowering the future of the youth,







SCALE 1:100





ordel views







Small courtvards



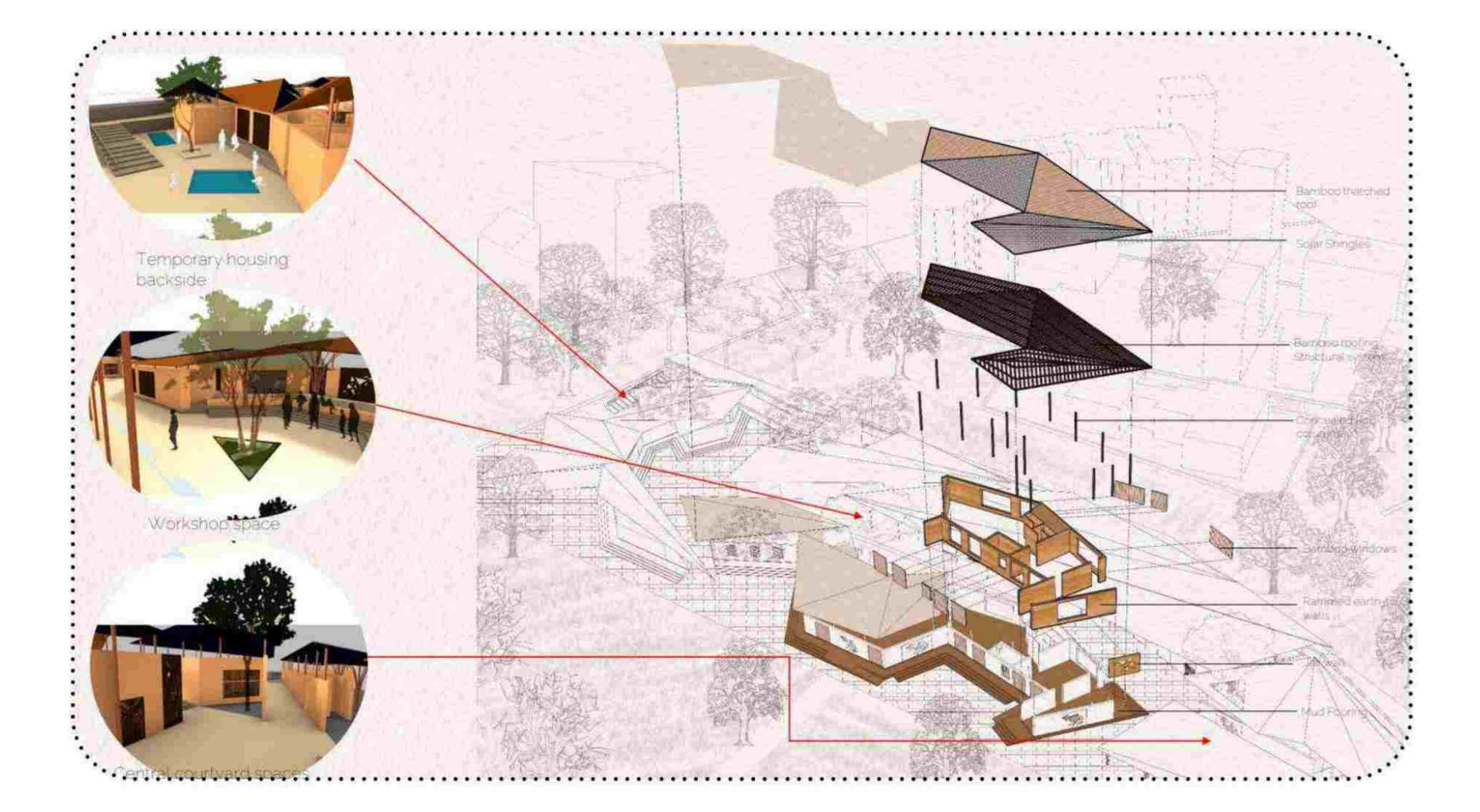
Roof view.

FARMING INSTITUTION

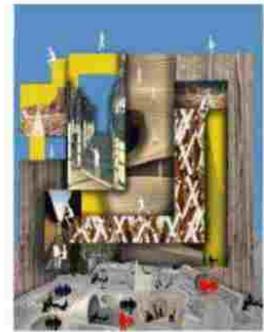
INDIVIDUAL DESIGN

This institution is designed on more of the urbanized bank of Godavarl. River so as to create more green lands and prevent the bank being concertized. This institution is designed where there are existing green lands but no more used for farming and also have very good connectivity to both side of the river banks. As the institution is more kind of public, attracting common people is the main goal to enrich farmer's wellbeing. Also the employees here will be farmers themselves who will teach visitors about farming. Seasonal farming is practiced here. Also for people who wants to learns farming or enjoy farming or want to have their own farm for farming practice are welcomed here and have guest house to stay. Also students and researchers are welcomed on the site. There are workshops, learning centers. Research centers for students and farmers to learn new advanced as well as some basics of farming.

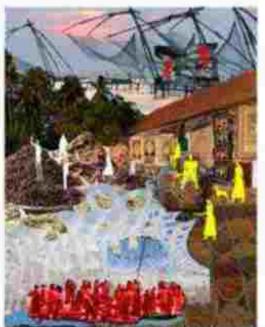




HAVING OVER LOOKING SPACES AND BRIDGES. TO CONNECT PEOPLE TO THE BULDING



WEAVING THE INTERIOR AS WELL AS EXTERIOR OF THE BUILDING USING RAMPS/ STARCASES.



JUNG MEMBERNG RITHWAYS AROUND THE TREES WHICH LEAD TOWARDS THE BUILDING.

PLAYFLE PETHWAYS STARTING FROM THE WATER EDGE AND CONTINUING ALL THE WAY TO THE SITE

SE FOR COMMUNITIES

DEMOCRACTIC ARCHITECTURE

Project-Sem 6 Guide-Vishal Jayan

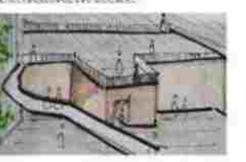
The project in VI semester was a group project with Shruti Rajmare as my partner. Our project site was Mattancherry, Kochi. The basic theme of the project was to 'design a building with the lens of democracy'. The project was further divided into two parts where we both have to individually design. We were provided with two sites of Mattancherry- The first plot was along the side of water body near the Mattancherry Ferry and was the site where I have to design. The structure I was assigned to design was the 'Ward's Office'. The other site was near the 'Heritage site' where 'The observatory' was to be designed, which was the site where my partner had designed. We together also designed a common programme which was 'The installation space' for the people of Mattancherry and the students applying to study 'EnteKochi' programs. This space would be a common platform for recreational purposes and can also be utilised for organising fests for the community and eco-walks.

What is a democratic building? Was the very first thought that came into my mind when the project was introduced to us? A Democratic building is a space which is open to public and have transparency between the government and the public. Also it is a space which is created because of people's movement or is weaved because of people's movement .Using transparency and weaving as the main key words or the design a structure with alley spaces narrowing and widening and the opening to court-

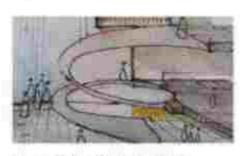




Extraciona in pocket



Staggered Floor player to hypote



Internal circulation Instrum. kullding by renas





















(Alabamy what) https://www.com/pub.dougham/dece/londouge/book/)



WARD OFFICE BUILDING

yards which acts as a pause point was designed. Huge three ramps which are the result of people's movement, which are also the green roof of the structure where exhibition space is programed for public was designed. The structure have part of workshops and multipurpose hall open to sky. The structure is open from all the sides for people with some private programs designed in the centre of the public space. The structure is an initiative to bring all the communities and government bodies together.

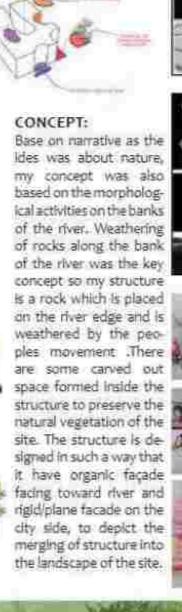
The structure is a curvilinear structure which derived its form after placing geometries on the site considering the placement of tree and the connecting pathways the roof of the structure is accessible with large ramps which is wavy in both the directions. The roof have a play of up and down and also have green terrace spaces and concrete pathway. Structure is a pavilion type structure which is supported on RCC columns and have upstand beams. The walls are dwarf walls which creates room for natural sunlight and ventilations. The structure also have a floating RCC helical staircase which is supported which tension cables. The alleys in the structure are covered with skylights. The windows are parabolic curved windows which gives wide open view of the surrounding.



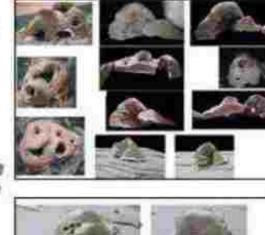


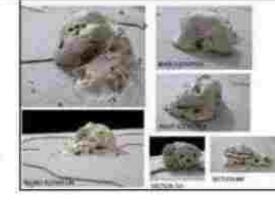


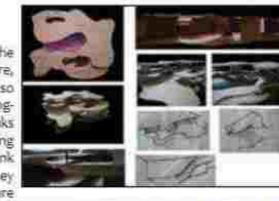




SEX 856-EN Appoint































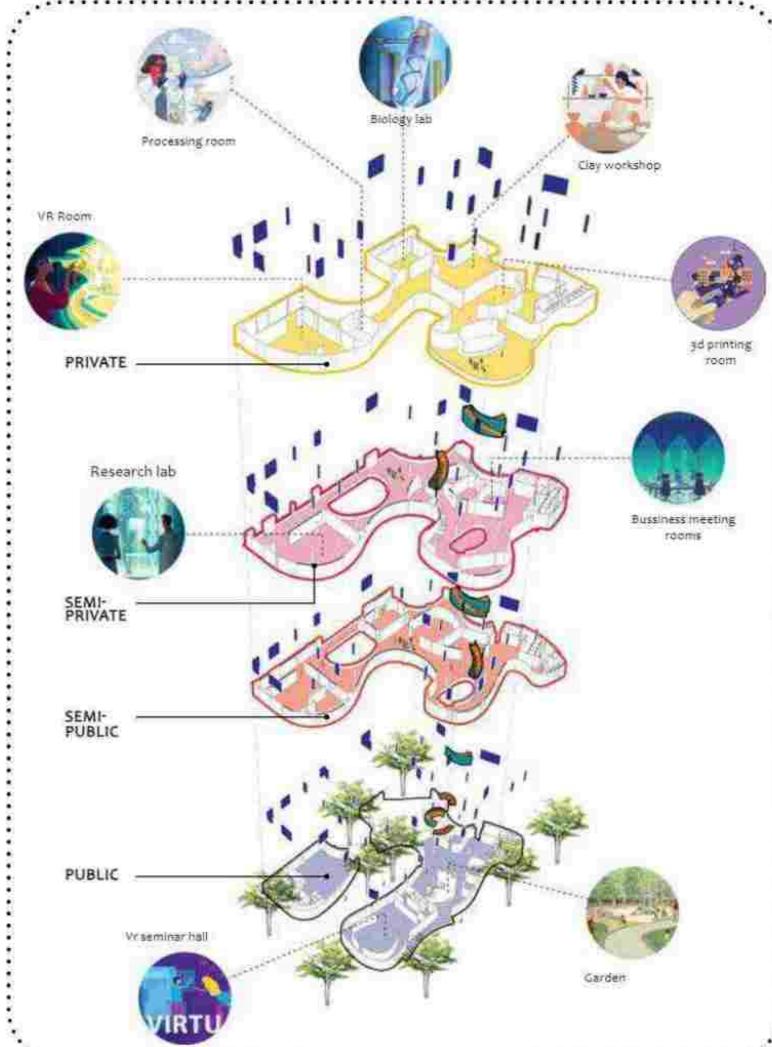












Explanation of the form was the most interesting part of this project. To try out carried out spaces and weathering of rack dry clay was used and to convert this organic from into physical model was a left tricky part. So this part was explored with the floor plates which were started upon one another.

The building is four storey structure, where the ground is completely public, middle two floors semi-public, top and the underground floor are private. The site is raised from the original ground level and the contours are designed is such a way that both the entrances of the ground and underground floor are accessible (section 8B'). Other amenities are also designed on the contoured land like parking ,walking paths, playing areas. The structure have? x 9 m column grid on each floor ,but the shape of the columns changes on each floor (axonometric). There are internal ramps in the structure with 1:5 slope. The roof is undulating roof which is accessible by the provided ramp.











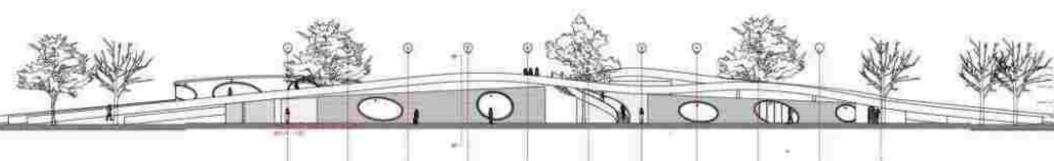








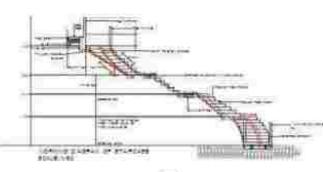


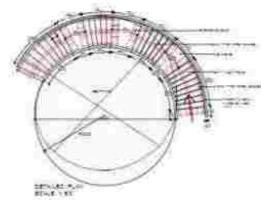


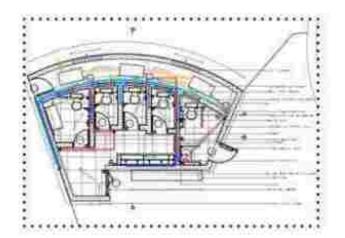
WORKING DRAWINGS

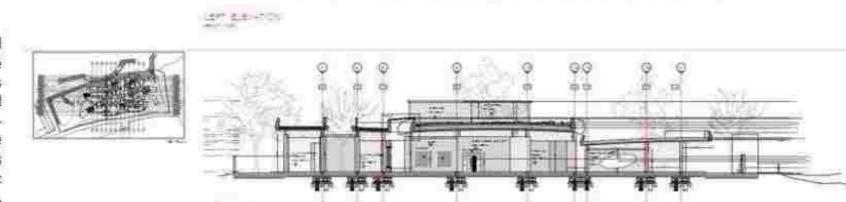
Project- Sem 6 Guide- Swati Sheshadri

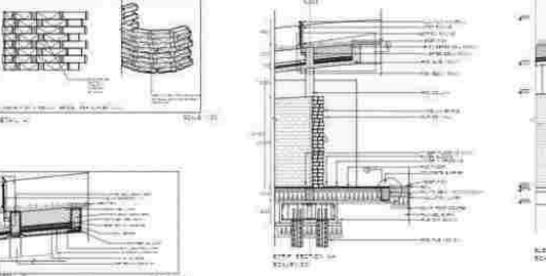
Ward office building is structural resolved. More detailing of frame structures, roof, envelope system is done. The structure was designed as a pavilion where the roof is supported on circular columns and have free standing dwarf walls. Grid was set for columns and setting out for the curvilinear walls was done. By using tension cable the helical floating staircase was resolved.

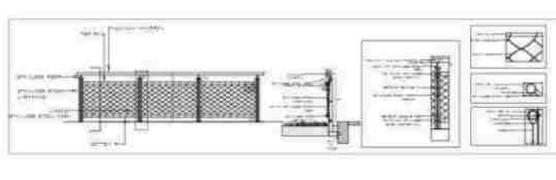


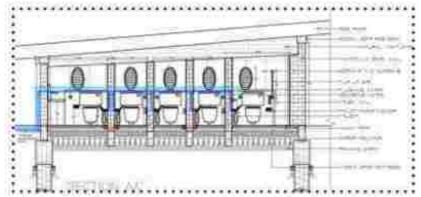


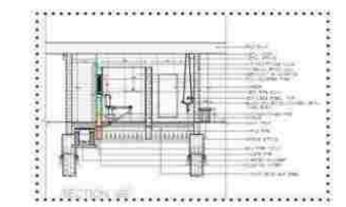












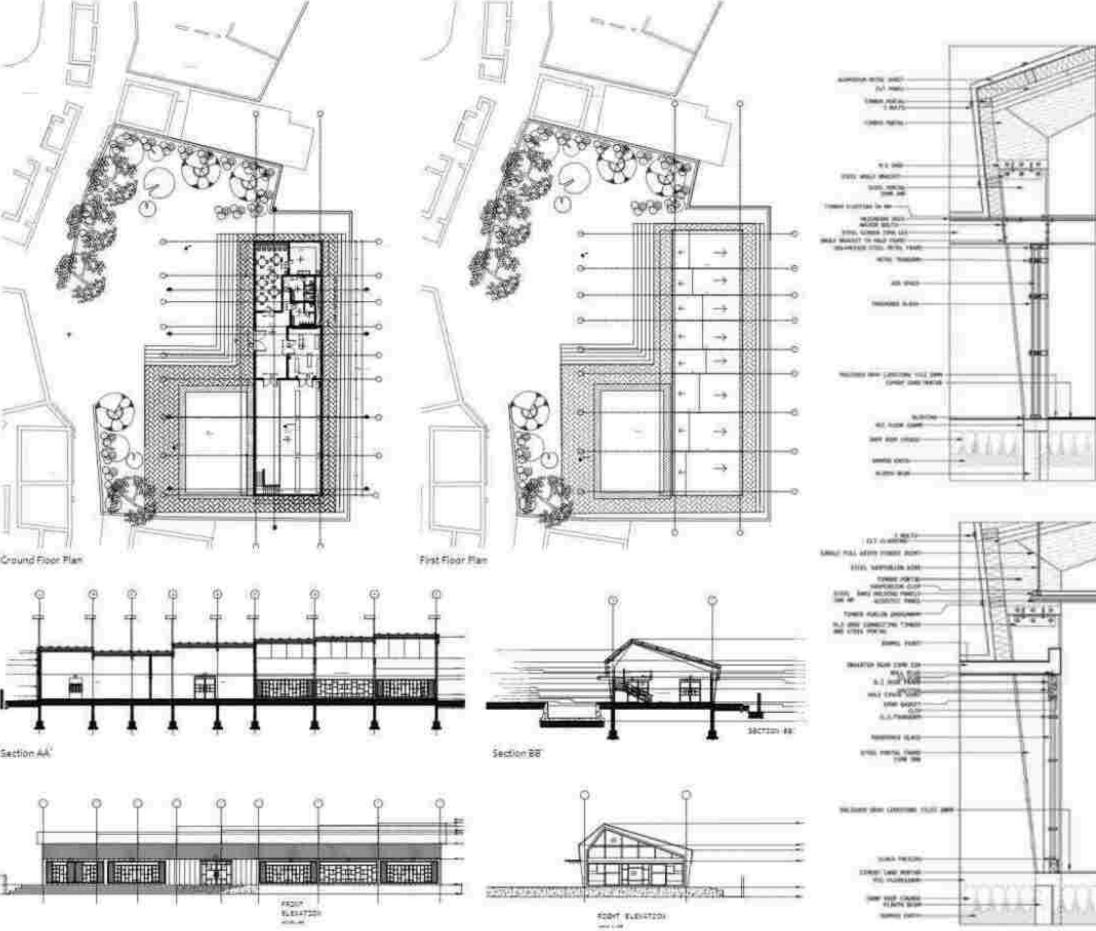
641

SOUTH OF STATE

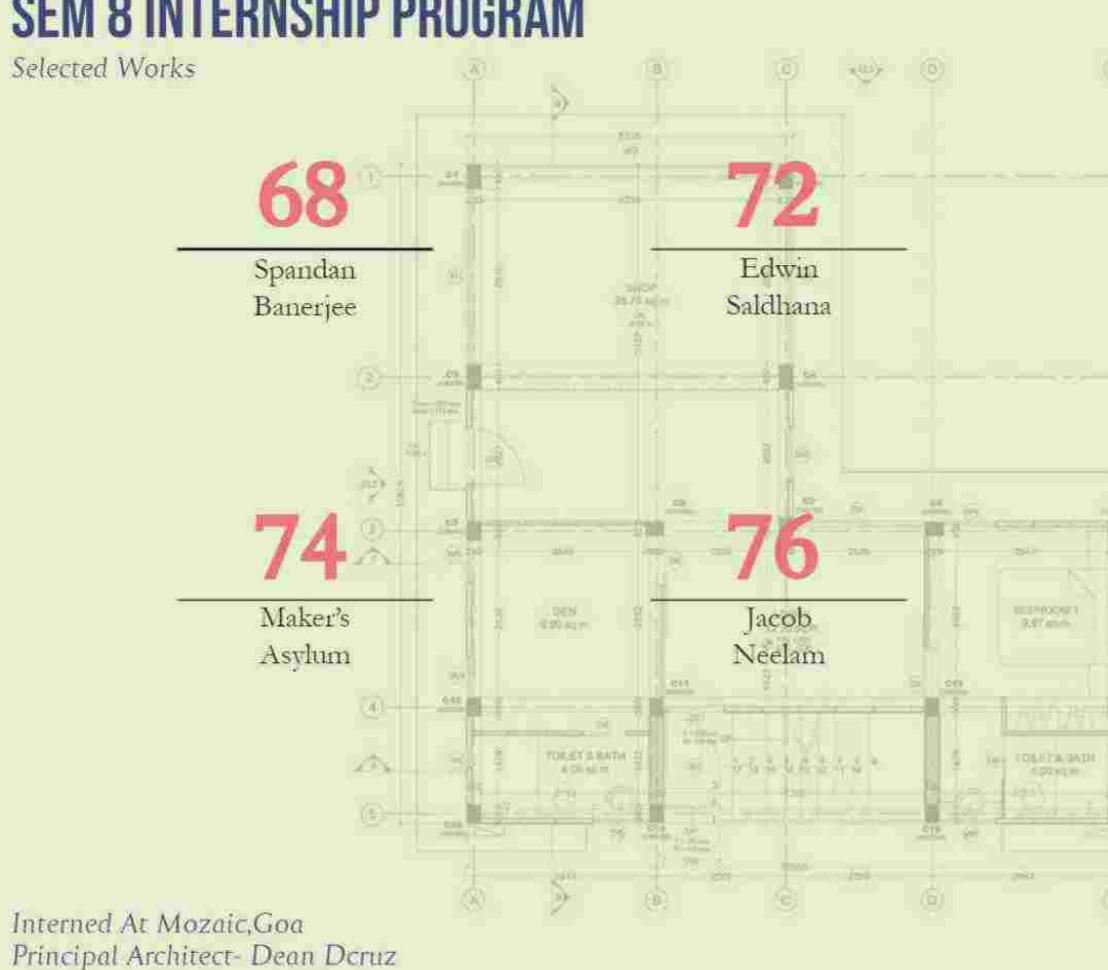
Project Sem 5

Guide-Jamshed Bhiwandiwala

An Artillery museum was designed using portal frames. Composition of steel and timber portal frame with cantilever mezzanine floor was designed. There is cross ventilation throughout the building. Wherever there is change in the height of the portal frame a skylight is provided in between two portals. The roofing is metal roofing which is covered with CLT pales from the interior part of the building.



WORK EXPERIENCE SEM 8 INTERNSHIP PROGRAM



SPANDAN BANERJEE

Aldona Goa

Team- Dean Deruz, Pooja Nagaraj Stage- Design Development

WORKED ON

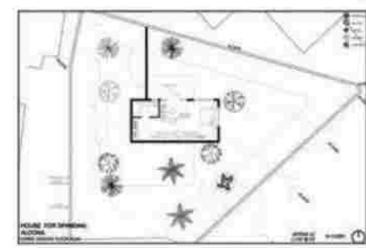
- Conceptual drawings
- Conceptual models
- Sanction drawings
- Online sanction drawings
- Detailed model
- Interior model
- Porch designs
- Site visits

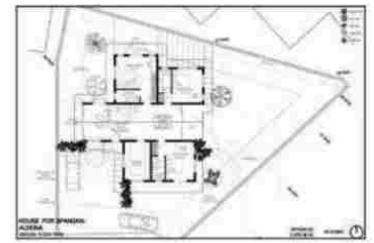
Spandan is a film director and wanted a house which is cosy and have wide open windows for views. He also wanted a nice small garden space for parties and a studio for his work. He wanted his house to be more contemporary with simple roofing and a single story structure. In this design skewed corners are intentionally designed so that the rooms looks spacious and gives an opportunity to provide wide openings. Various types of roofs were designed for the structure such as mosaic tiles, then puff panel roof, rcc roof, etc. The area requirement of this project was more before road widening took place. One deign was also finalized but after road widening whole deign changed and area requirement was also decreased to 200 sq.m.











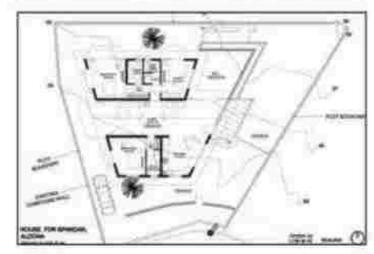


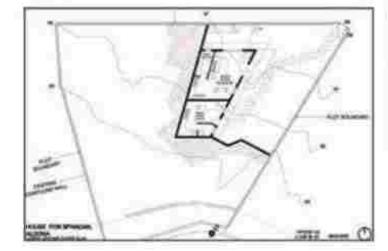
















8



External views of the house. Lime plaster is done to the external wall. As the house is located in heavy rainfall zone, roofs extends about 900 mm from all the eides.













house all day.

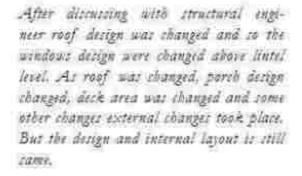
Internal views of the house. Huge windows allow light to lay in the





















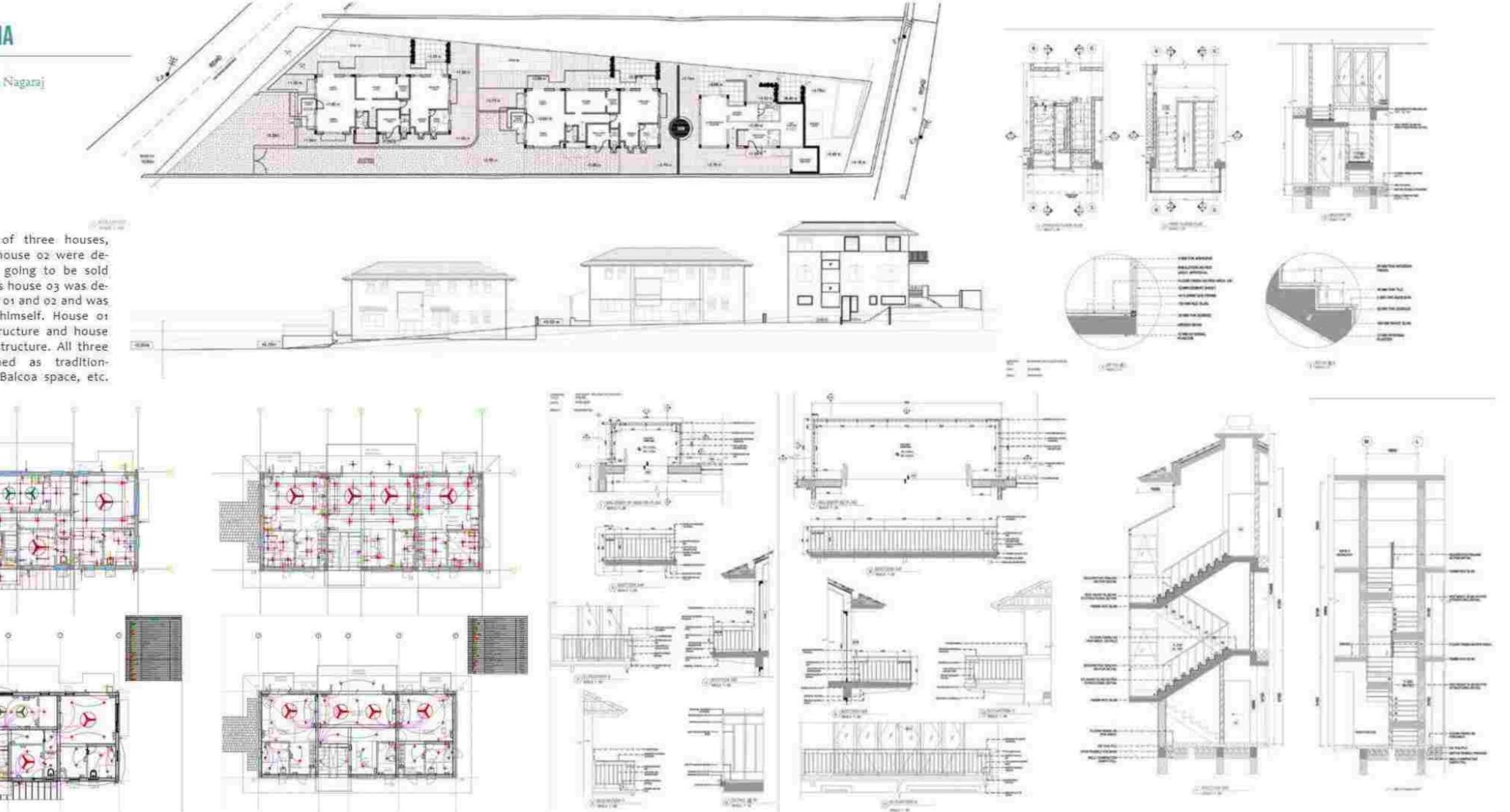


After offline submission of sanction drawings, online submission was also done as it's a new rule in goa to get TCP permission for single dwelling. It's a submission where a software checks the area and beights requirement, whether the designed structure follows all the goa byelaws.



- -Technical meetings
- -Brochure

This project consist of three houses, where house or and house or were designed same and are going to be sold out to others. Whereas house og was designed di-fferent from o1 and 02 and was for the owner/client himself. House or &o2 are two story structure and house og was three storey structure. All three houses were designed as traditional Goan houses with Balcoa space, etc.



MAKER'S ASYLUM

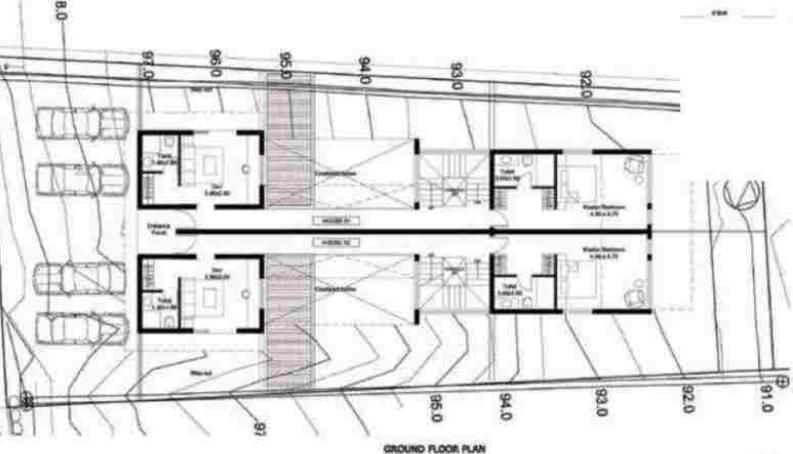
Goa

Team- Dean Detuz Pooja Nagaraj Stage- Design Development

WORKED ON

- Conceptual Drawings
- Conceptual models
- Sanction Drawings
- Client meetings
- Site visits

The client of this project is famous person who run a workshop known as maker's asylum. They wanted a house which huge openings, a swimming pool with shower outside, a balcony or a deck kind of area with hammock. This structure is also design as a twin house where side of this property will be owned by the owner of maker's asylum and other part will be sold out to others. As for roof they wanted huge volume and a contemporary style of roof and façade. They also had this requirement of lift in there house a small hydraulic lift. As the site is sloping site we had to restrict the springing height up to 5 metres and not to exceed that, which is why roof had such steep angle which is 22 degrees. For roof slope also we had limitations that was, we cannot exceed it beyond 25 degrees. The structure follows the exact FAR and is not exceeding anything. There were more challenges faced while designing this structure as it is located on a steep slope and because of road widening.





TWIN HOUSE , OLAULIM

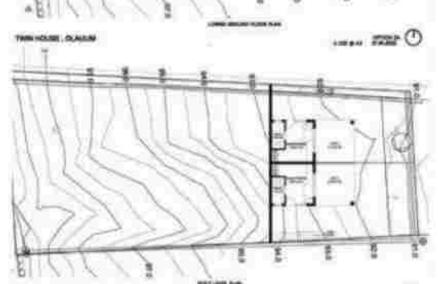












74 PRINCIPLE GLASS

JACOB NEELAM

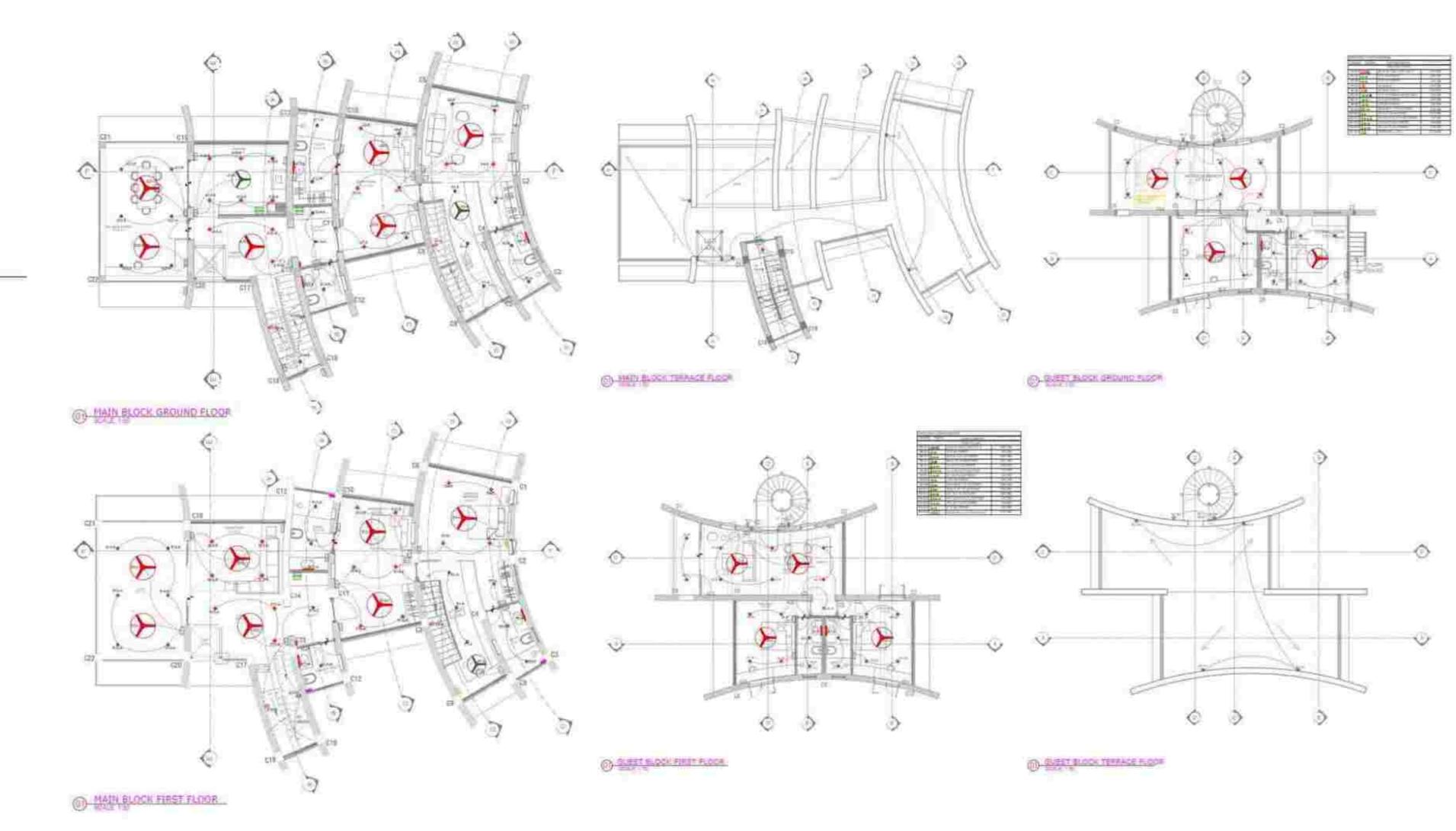
Goa

Team-Dean Deruz Pooja Nagaraj Stage-Construction

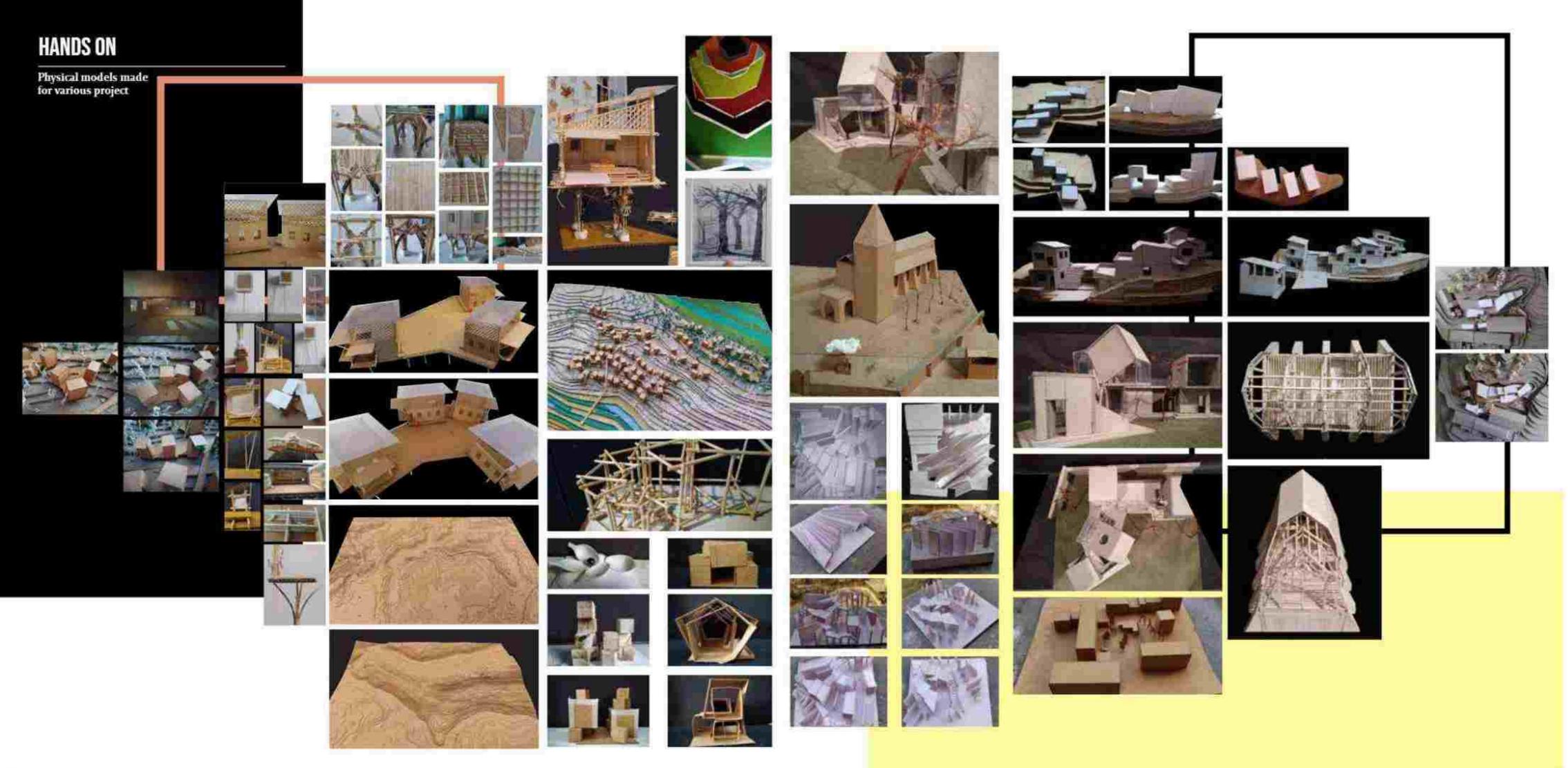
WORKED ON

- Working drawings
- -corrections in working drawings
- Spiral staircase
- Electrical Layout.

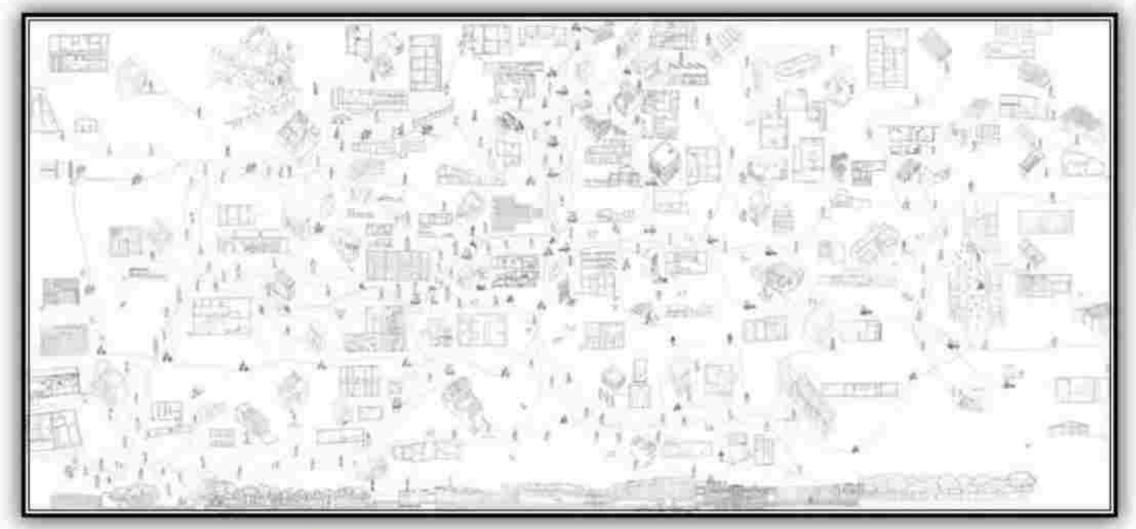
This project was handled by another intern and I was Introduced to this project for its electrical layout. The budget of the client was exceeding, so he cut on his expense on electrical layout. Unnecessary switch boards and lights were re moved. Roller switch boards were used to avoid more number of switch boards. All lights were strategically placed, following the curves.



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DOCUMENTATION AND COLLABRATION



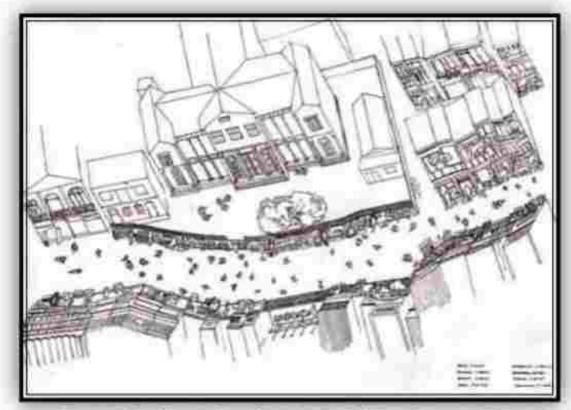
FIRST YEAR STUDY TRIP-Maheshwar, Madhya Pradesh

The study tri in Maheshwar documented 40 houses and 40 characters and their day to day activities and way of leaving. Maheshwar located on banks of river Narmada is a textile industry thus major occupation of locals here is hand looming. Occupation of all these 40 characters were traced by 40 pairs and mapped from their work of place to home. Drawing represents all 40 characters and their houses and their route to workplace. The drawing also represents occupation of individual character.

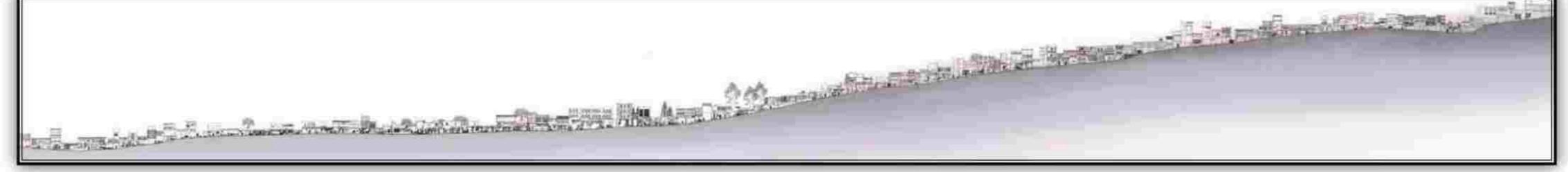


SECOND YEAR STUDY TRIP-Almora, Uttarakhand

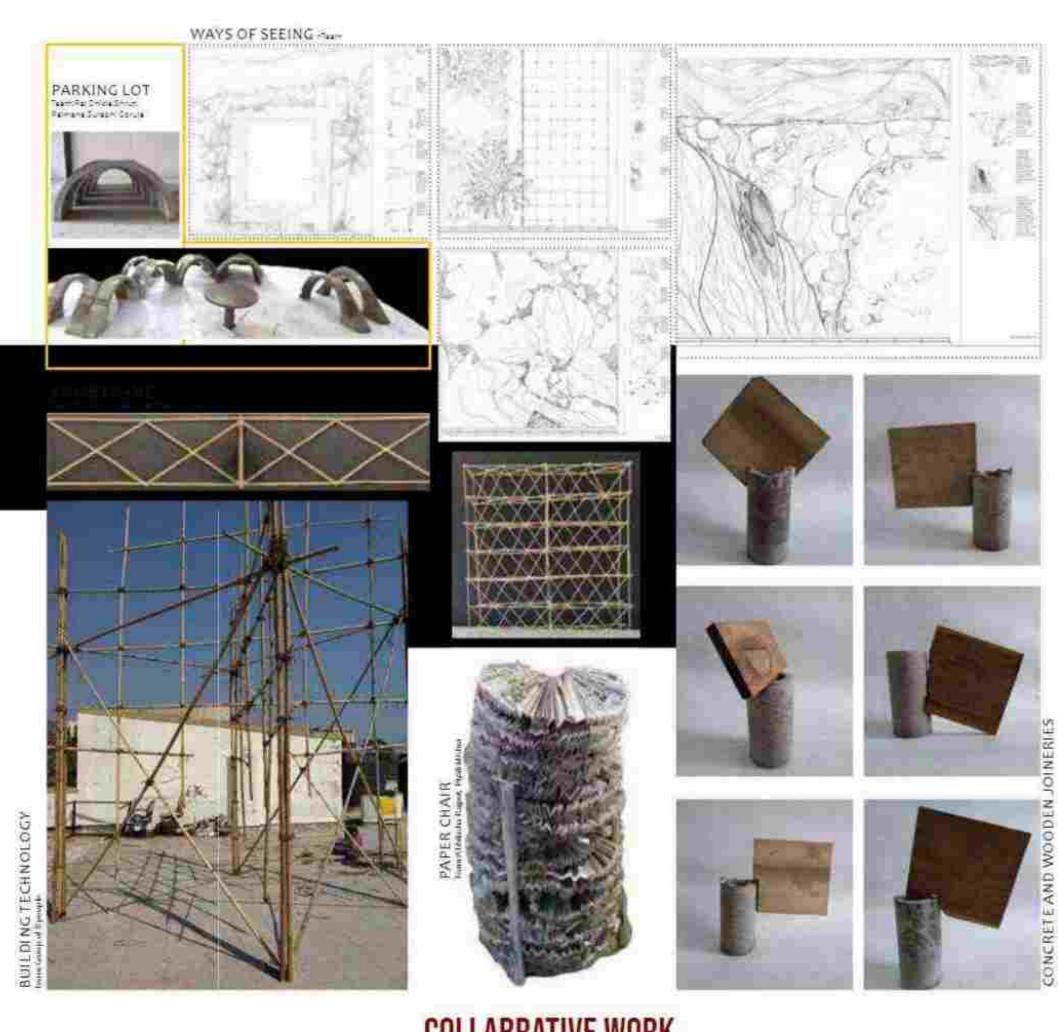
Almora, city of Uttarakhand is settled on the ridge. While walking on the streets you can feel the city sloping on both the sides. This city have a cascading settlement overall the ridge. The spline of Almora starts from Nandandevi to cantonment area. These city have different bazars. Each bazar have its own specialty such as Johari bazar is known for Jewellery shops, Khajanji Bazar for food, etc. to mari all this different bazar, number of shops ,elevations of the houses and type on construction was the part of the study. Leveling of the streets of Almora was also done with the help of dumpy levels ,the whole city spline was mapped by the group of 8students including myself. These houses of Almora were also documented by the other students. The houses of Almora were very attractive because of their colored facades and type of roofing ere stone locally called as patals were used.



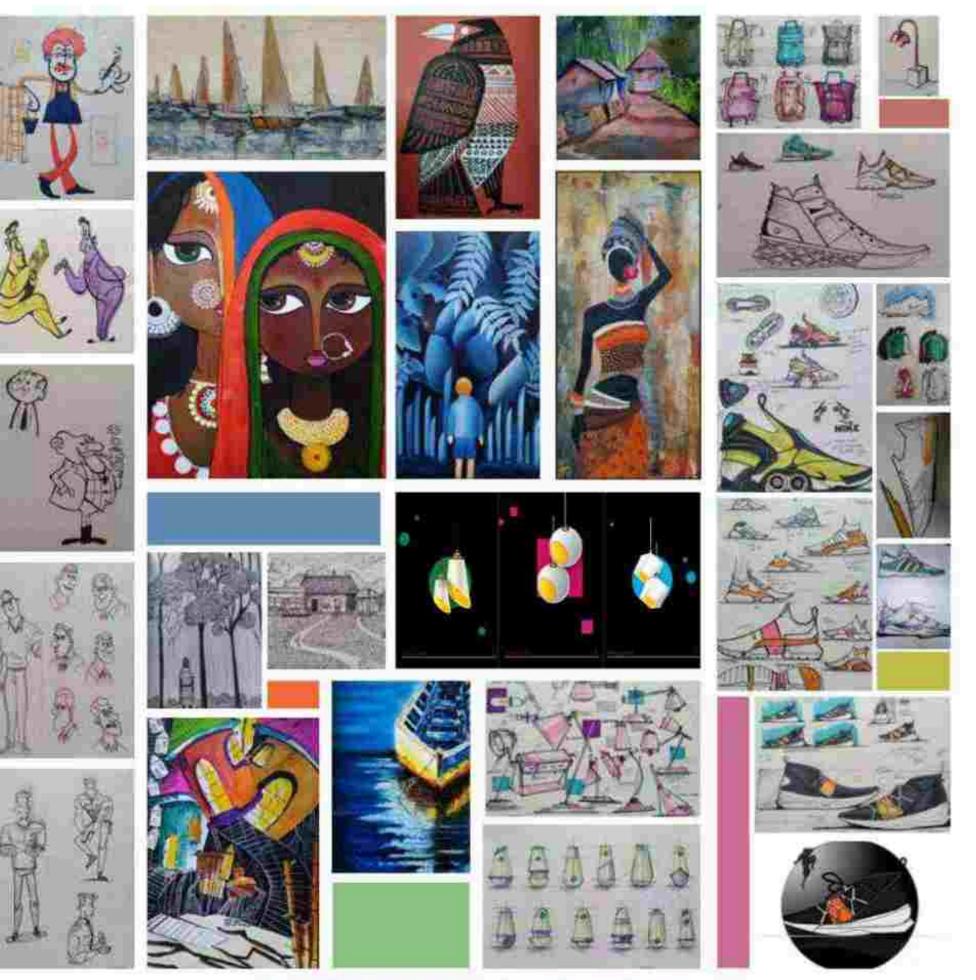
Mapped the whole Ridge of Almore with team of 5 people. We checked levels of the street , documented all elevations and markets Survey of road was also done.



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COLLABRATIVE WORK



SKETCHES , CHARACTER AND PRODUCT DESIGNING

THANK YOU

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