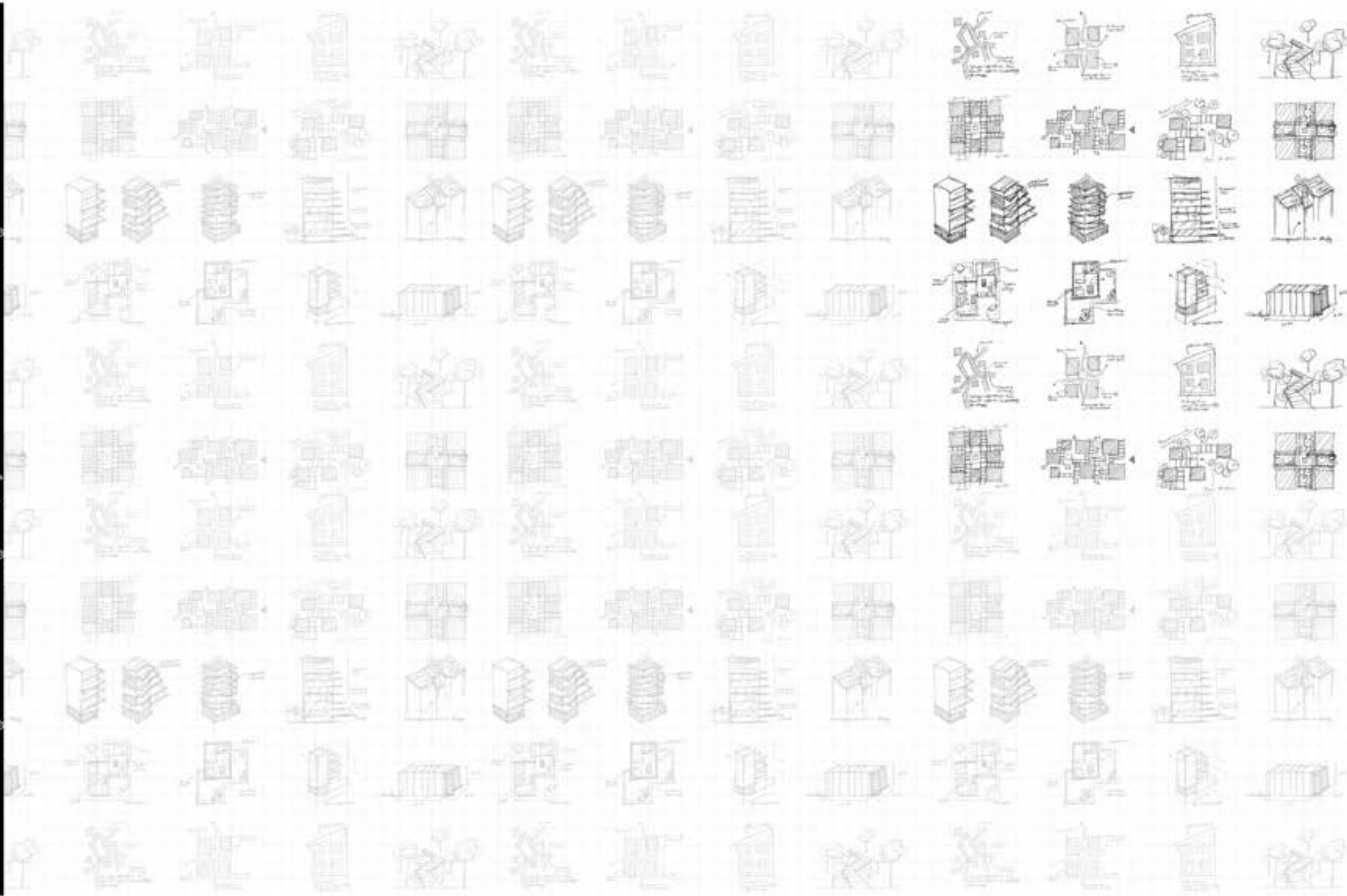
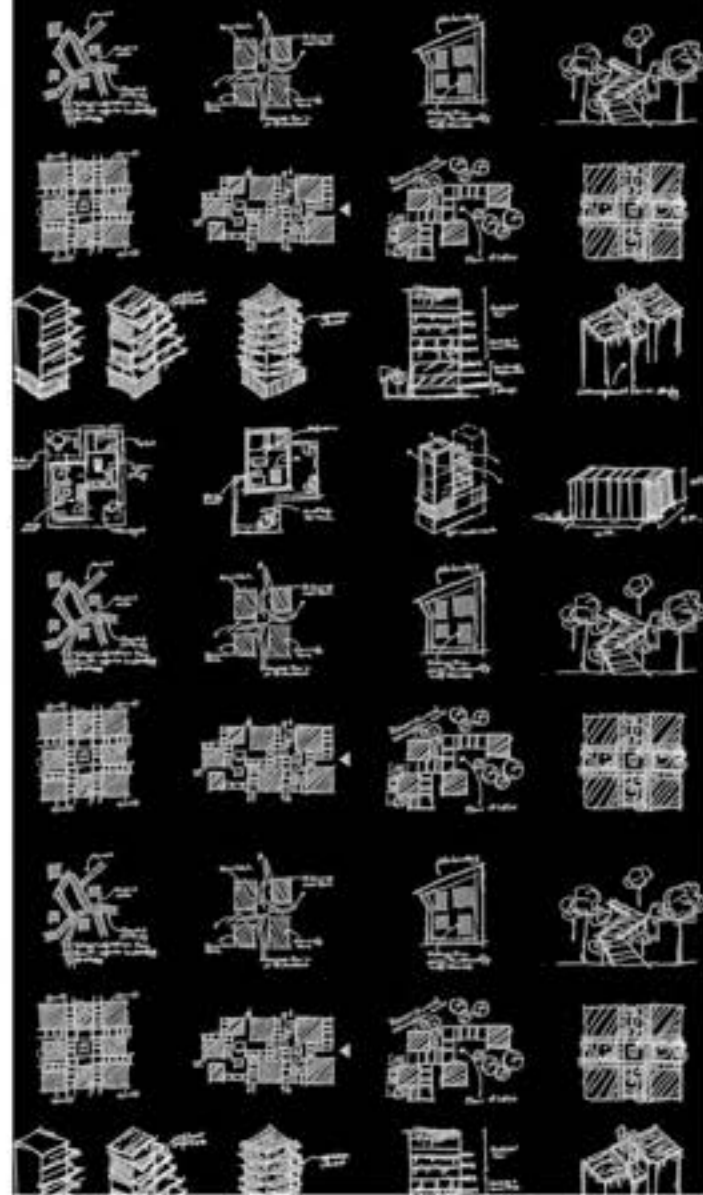


architecture folio

//Selected works 2017-2021//





SHIVAM ARYA

Architecture student

As F.L Wright said, "Study nature, love nature, stay close to nature. It will never fail you."

The coherence of a simple and serene design approach, a set of hierarchies of spaces, with nature being an integral part of it, defined my process of design development.

With all my understanding, I present selected works from my bachelors. Eager to learn and unlearn the process, I am looking forward to being guided by the greatest minds in this field.

PROFILE

Shivamarya435@gmail.com
+91-7488149007
Ranchi India



LinkedIn

EXPERIENCE

2019 2 months	Architecture plus Design Lab Ranchi Chief Architect Ar. Ankit Berry Formerly at VTN architects Vietnam	Professional Architecture Internship
2018 4 months	Team Srijan Ranchi Students' Automotive Technical Club BIT Mesra	Professional Graphic Design Internship
2019-2021	LEO Club Ranchi Students' Social Service Club BIT Mesra	Graphic Design Head /coordinator
2019-2021	Student Society of Architecture (SSA) Ranchi Formal Architecture students' Body BIT Mesra	Coverage head/coordinator

AWARDS AND ACHIEVEMENT

2021	Reconnecting and Interpreting: Impact of Colonial Interventions on the Urbanscape of Bengal IAA Journal Article Jharkhand Chapter	Publication Team
2021	Bowen Island Community Center International competition ARCACE Canada	First Place Team
2021	RIBA Future Architects open call Project Feature RIBA Education Instagram channel	Feature Individual
2020	Annual NASA Design Competition (ANDC) Trophy 2020 National competition NASA India	Top 110 Team
2020	Upcycled Shipping Container Microhouse Project Feature DesignTermins Blog	Feature Individual
2020	Micronation Microhouse Design Challenge International competition Micronation India	Third place Individual
2020	Pre's Rock Memorial design competition International competition Portland track USA	Shortlisted entry Individual
2019	Annual NASA Design Competition (ANDC) Trophy 2019 National competition NASA India	Top 66 Team
2019	Convention Trophy National competition ZONASA India	Shortlisted entry Team
2019	Wanderfruit Pavilion Design 2019 International competition Wanderfruit Thailand	Shortlisted Entry R-1 Individual

EDUCATION

Birla Institute of Technology Mesra Ranchi India 2017 - 2022	Bachelor's of Architecture
Day public school Hehal Ranchi India 2017	Higher Secondary School
Day public school Hehal Ranchi India Secondary School	2015

SKILLSET

Drafting Autodesk AutoCad	Advance
Modelling Trimble SketchUp Rhinoceros 3D 3DS max	Advance Intermediate Basic
BIM Autodesk Revit ArchiCAD	Intermediate Basic
Graphics Adobe Photoshop Adobe Illustrator Adobe Indesign	Advance Advance Basic
Visualization Corona render Enscape Lumion Vray	Basic Advance Intermediate Intermediate
Sketching Autodesk sketchbook Procreate	Intermediate Basic
Photography Lightroom Camera Raw	Intermediate Intermediate

Year 2

III.

Academic

Residence design

Restaurant & Food court

Competition

Smart city challenge
Zonasa 2018 event

IV.

Academic

School design

Art village complex

Competition

Temporary Spaces during
Festivities of India

Wonderfruit pavilion 2019

Amravati design challenge
2019

Year 3

V.

Academic

Rescom/ mix use
design

Country club
house

Competition

ANDC 2019

LAGI 2019

Convention Trophy
Zonasa 2019

Police station design
CAAJ/AAJC

VI.

Academic

Hotel design

Auditorium

Competition

ARCASIA Bus Stop design
2019

PRE'S Rock memorial
design competition

Year 4

VII.

Academic

Campus design

Interior design

Competition

Microhouse design
challenge

ANDC 2020

VIII.

Academic

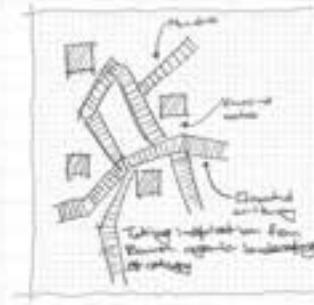
Group housing

Thesis dissertation

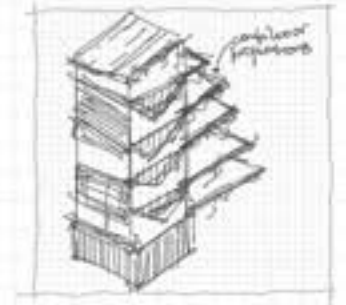
Competition

Bowen island community
center

Design project



NATURA | Community center
An island in the heart of an island
Pg. 1-5

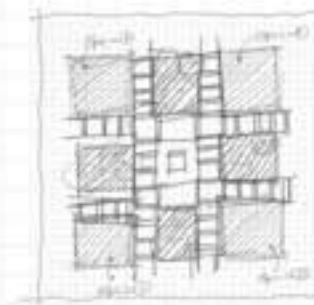


ATHITYA | Hotel design
Architectural biodiversity between living species
Pg. 6-9



SUKSHM | Microhouse
Upcycled shipping container microhouse
Pg. 10-12

Additional section



WALMI | Institution
A coherence of learning and nature
Page 13-16

Nātūra

na·tù·ra

//noun//

nature/untouched/serene



An island in the heart of an island

type competitive	participation team (2p)	site bowen island Canada
citation first place	time eighth semester	site area 3300 sqm.



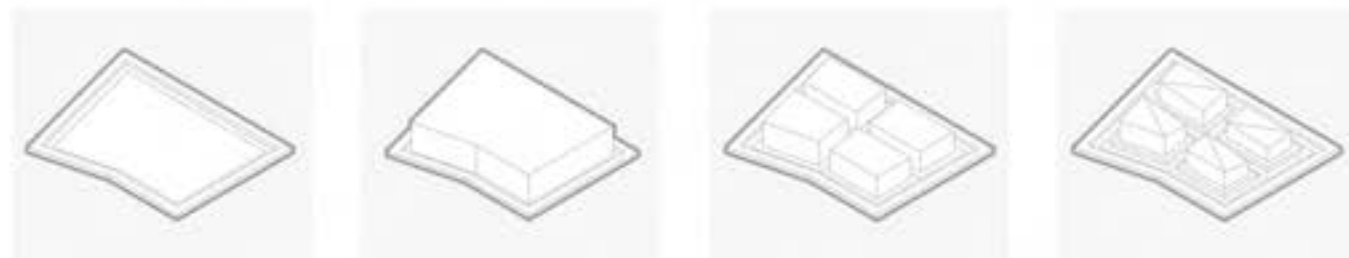
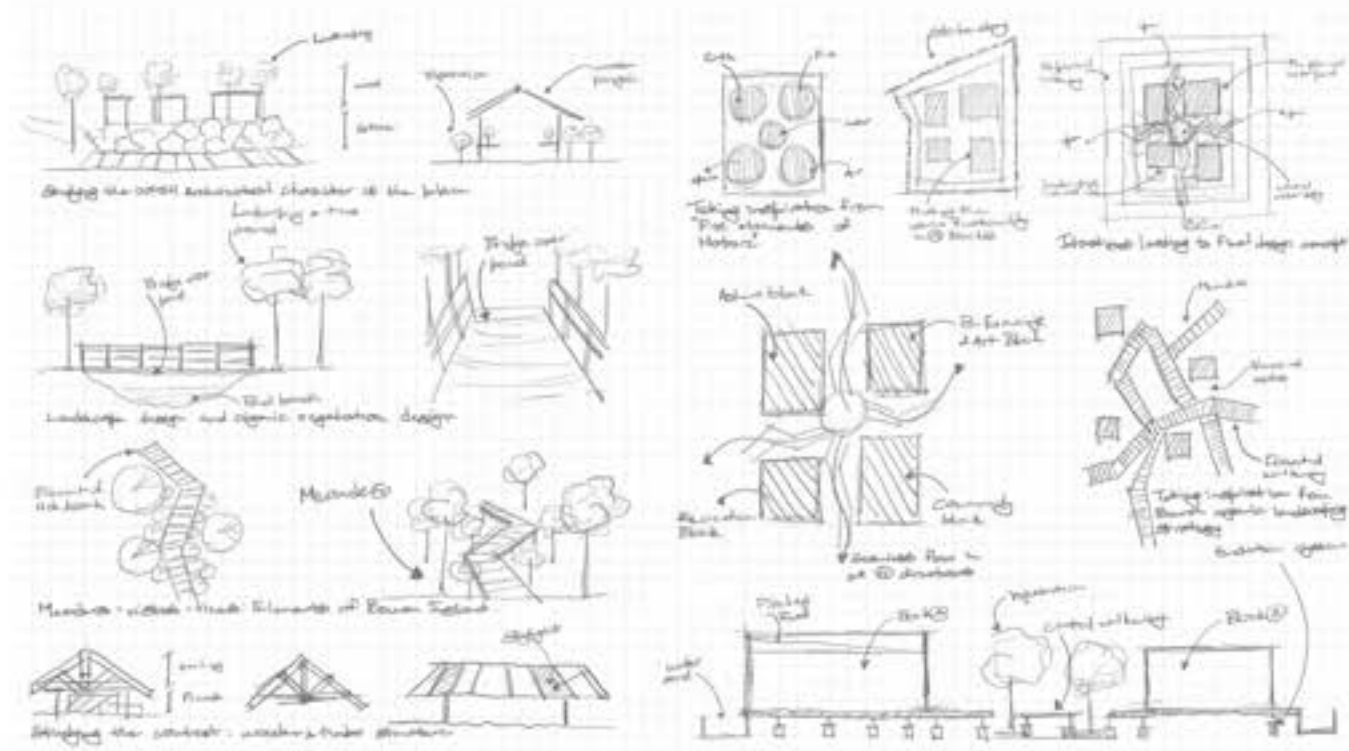
Bowen Island is located in British Columbia, Canada. Nature's healing power is in abundance at this island. The overall island is composed in lush green forest with views, vistas, landscapes and meanders, occupied by a population of less than 5000 people.

Understanding the architectural character of island

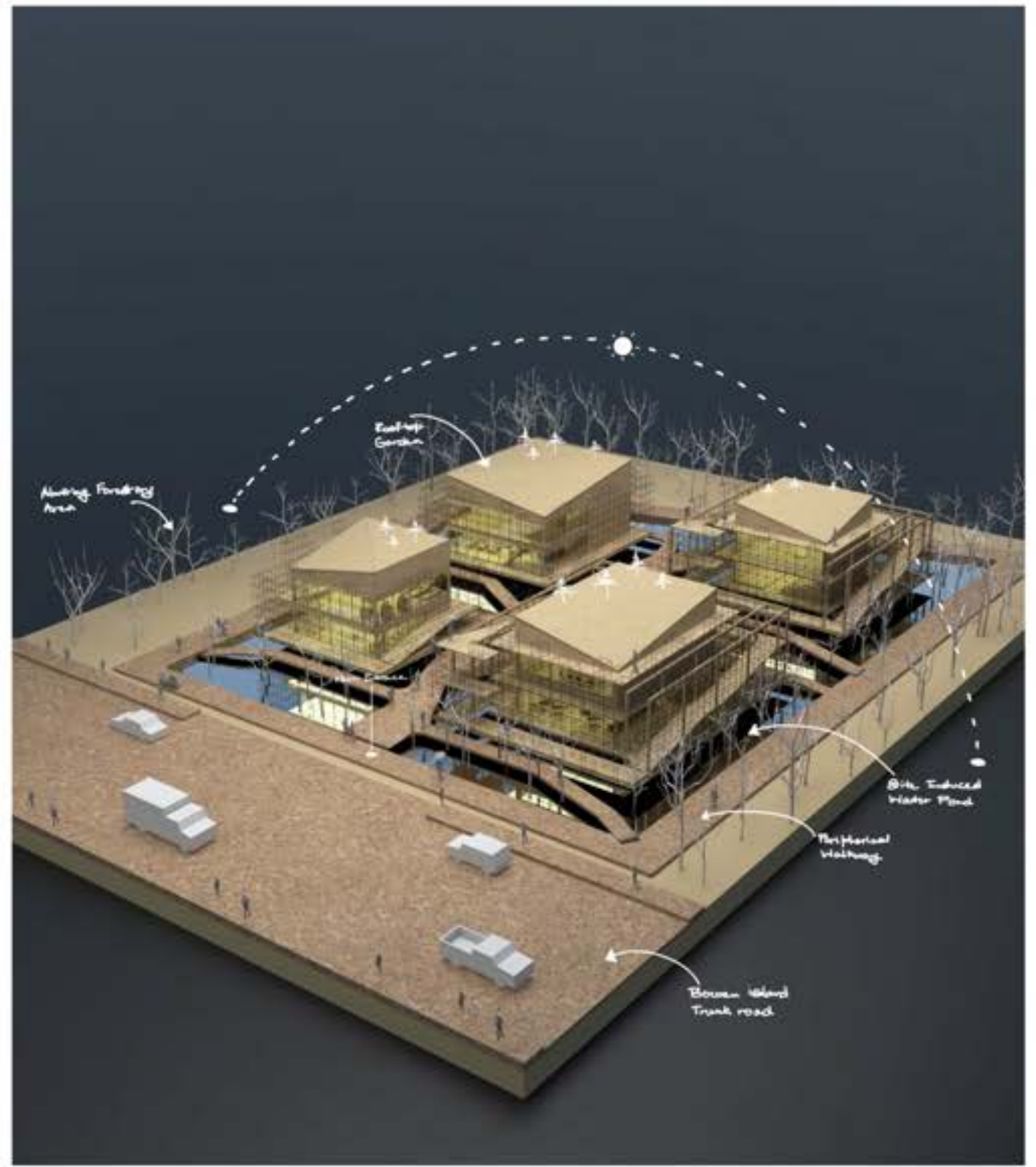
To understand the design essence, extensive literature study of the island was done, understanding the overall character through sketches, diagrams and iterations.

Formulating the design concept from studies

Understanding the overall ambience and architectural character of the island added with nature as an integral part of the island, concept was formulated. The overall island incorporated views, vistas, meanders, organic pocket landscaped spaces, hill and natural vegetation as the core element. Added to this, the architectural style was noted- small pitched roof cottage style houses in lush green surrounding. Summing up all the concepts and studies, the core design concept was visualized.



Demarcating permissible area within setback
 Visualizing the core building footprint in the permissible area
 Taking inspiration from the 3 elements of nature, dividing the overall form with central water body.
 Incorporating water body induced design to create a sense of island in the overall design site.



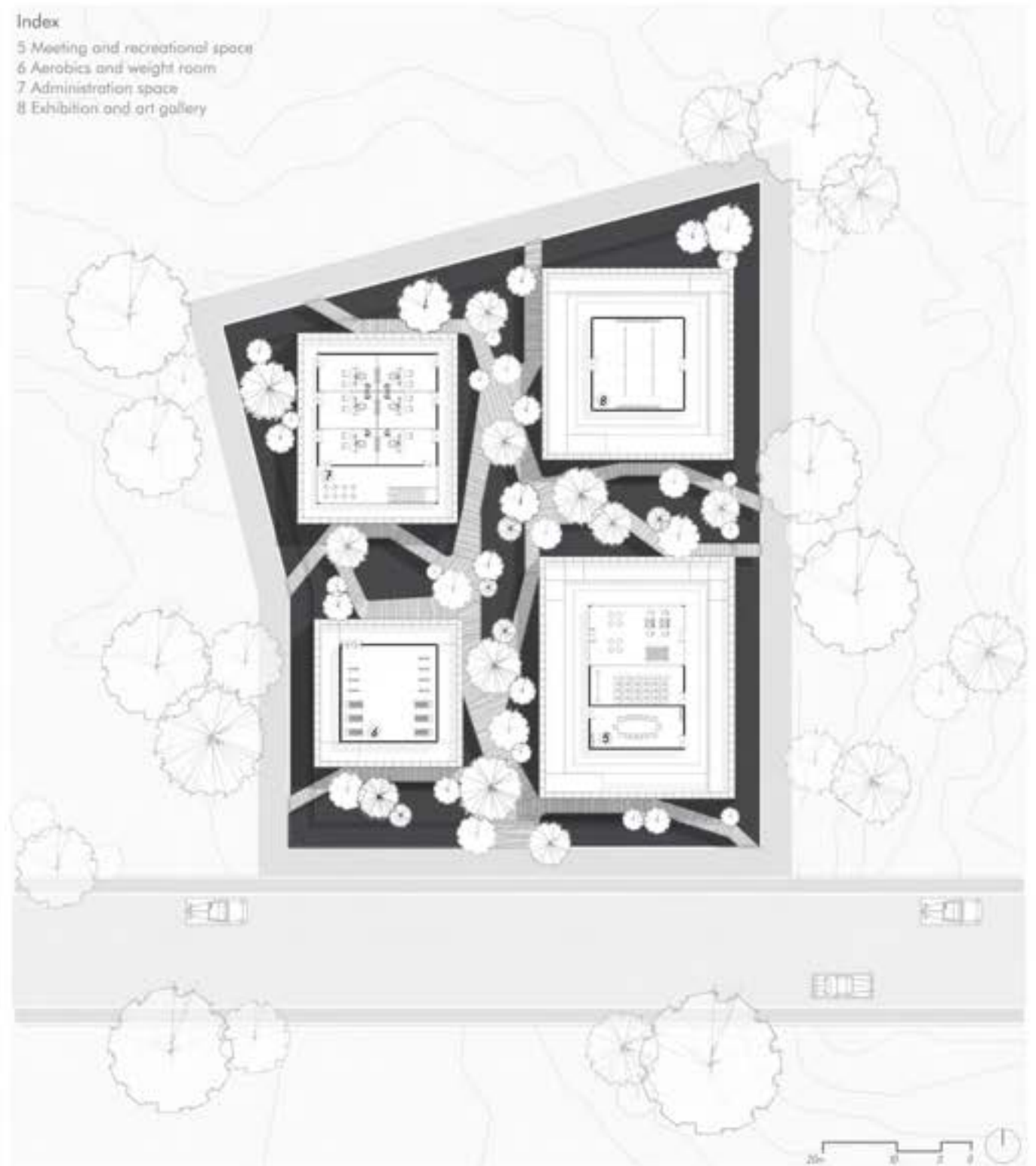
Index

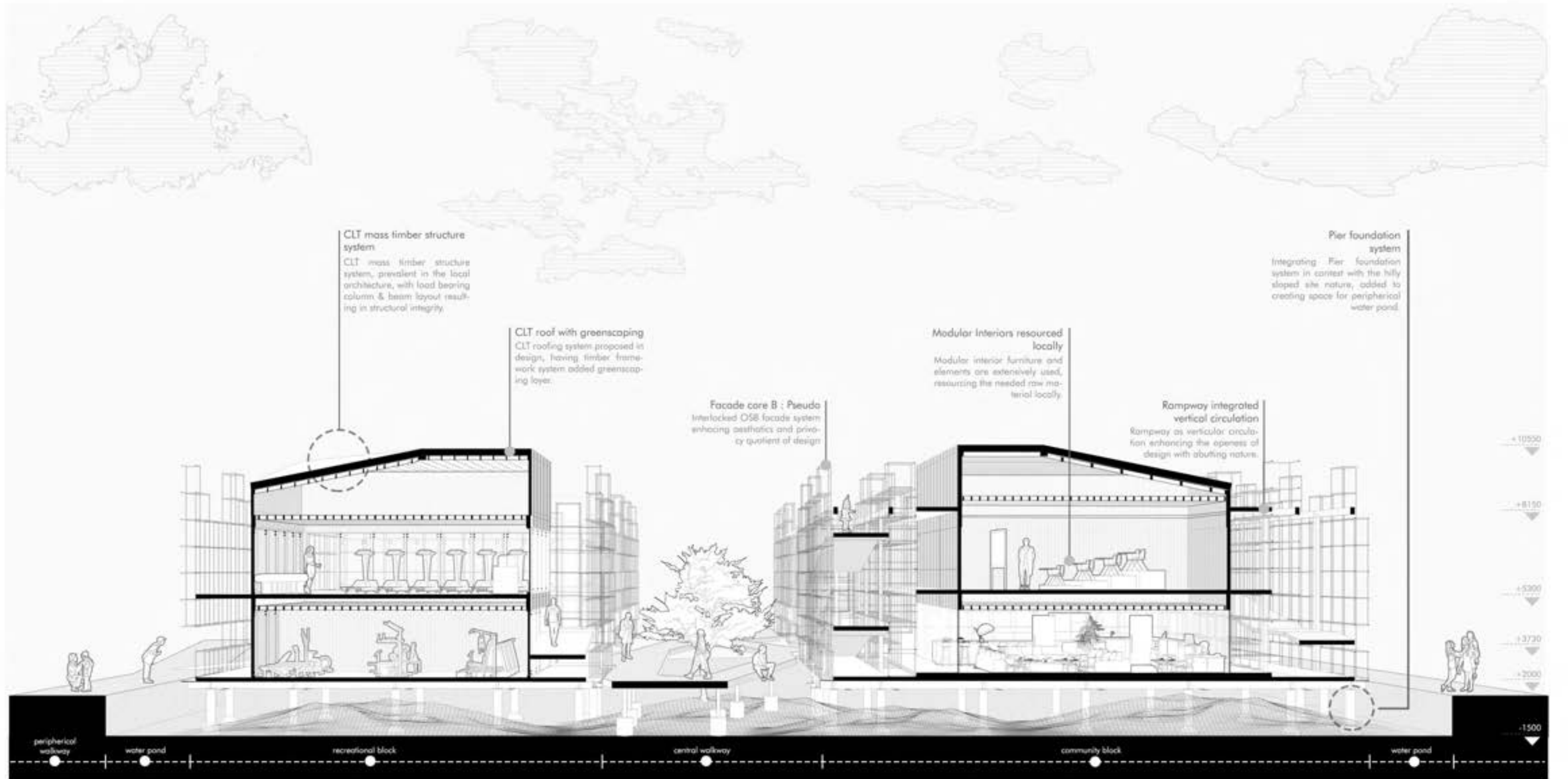
- 1 Reception hall
- 2 Gymnasium
- 3 Administration space
- 4 Multipurpose theater

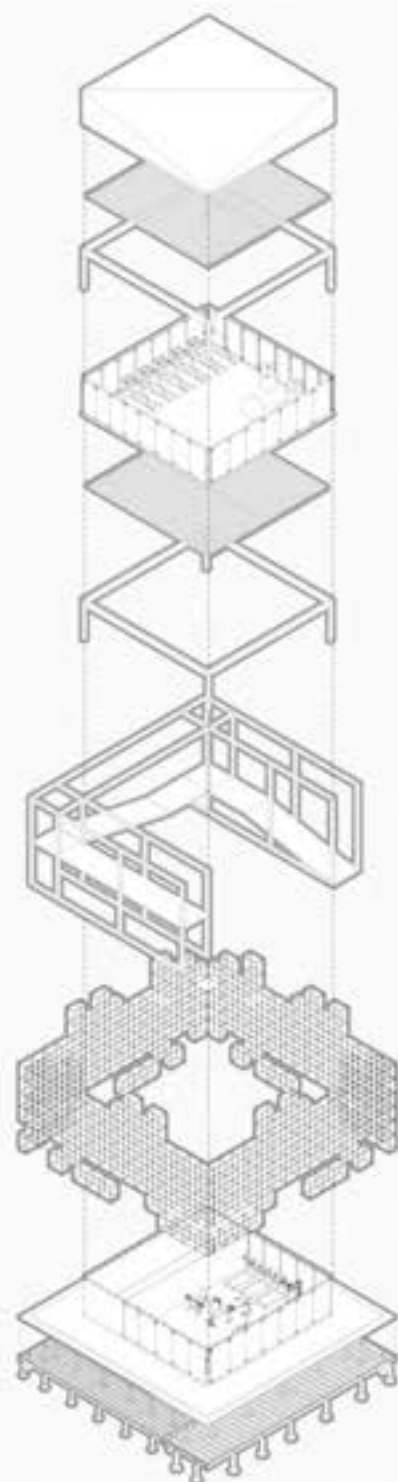


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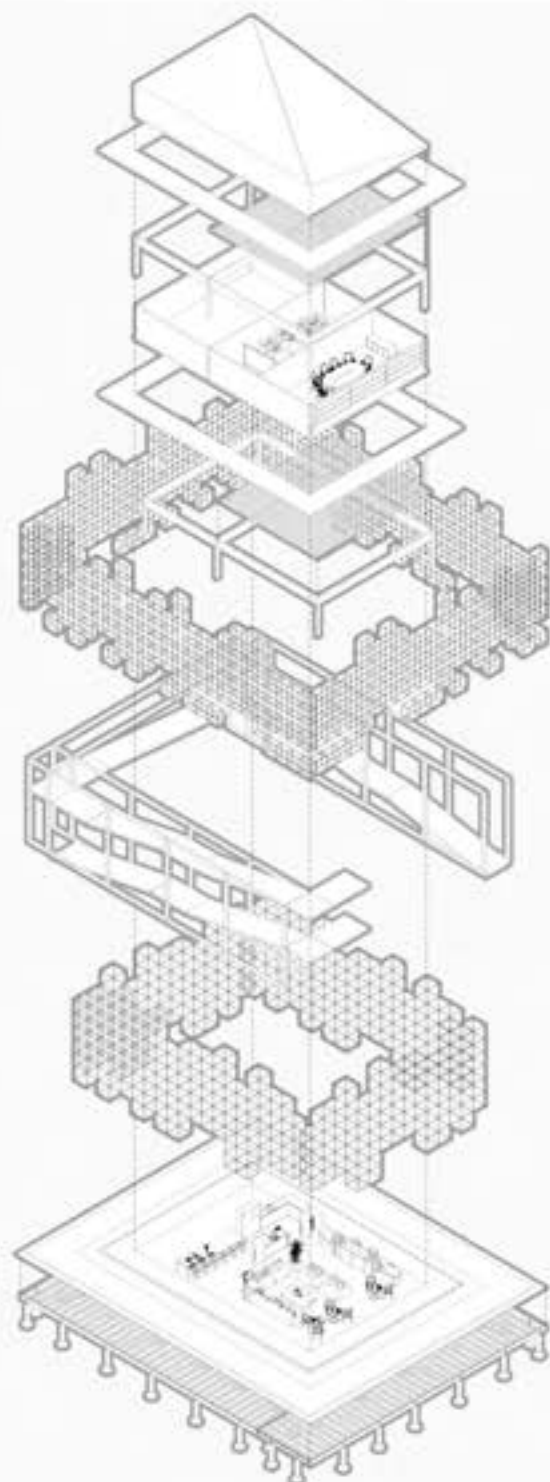
- 5 Meeting and recreational space
- 6 Aerobics and weight room
- 7 Administration space
- 8 Exhibition and art gallery







Recreational block



Community block

CLT roof with greenscaping

CLT roofing system proposed in design, having timber structure as core framework. The overall roof topped with greenscaping layer for vegetation.

CLT mass timber as core structure system

CLT mass timber structure system, prevalent in the local architecture, with load bearing column & beam layout resulting in structural integrity.

Wooden planks as outdoor corridor

Wooden planks resourced from used and scrap wood joined together used as corridor decking resulting in design uniformness.

Facade core B : Pseudo facade made out of recycled OSB sheets

Pseudo facade system resourced locally in form of OSB sheets further preparing desired set of interlocking facade system enhancing aesthetics and providing additional privacy.

Rampway integrated vertical circulation

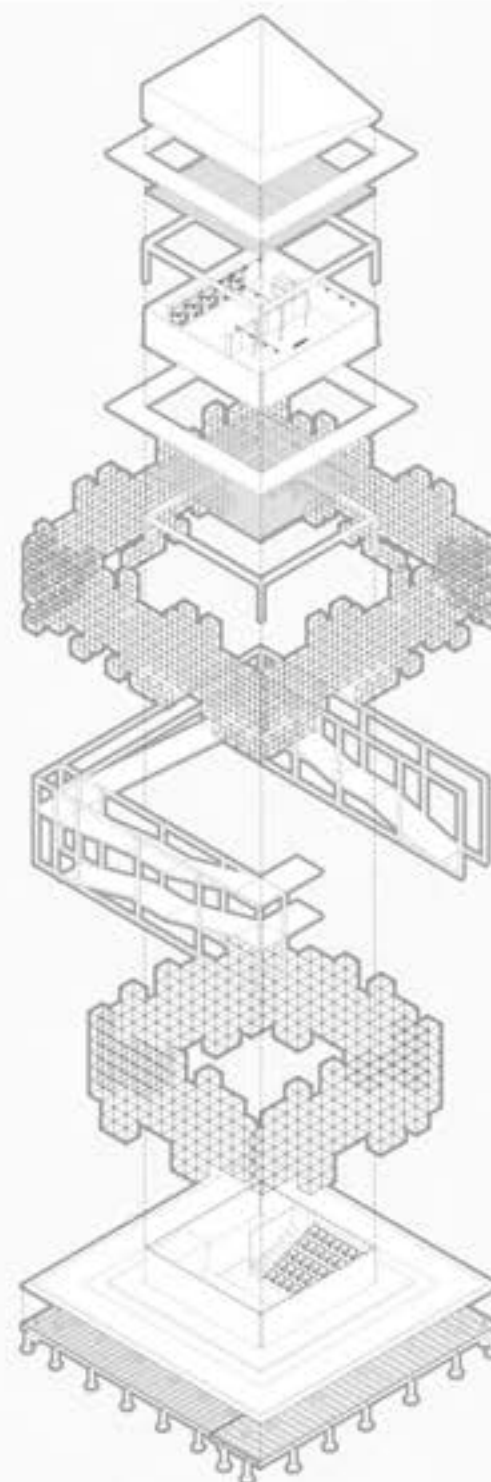
Integrating Ramps as vertical circulation leading to unconventional approach and simultaneously enhancing the overall design to connect with the surrounding nature.

Facade core A : Pseudo facade made out of recycled OSB panels

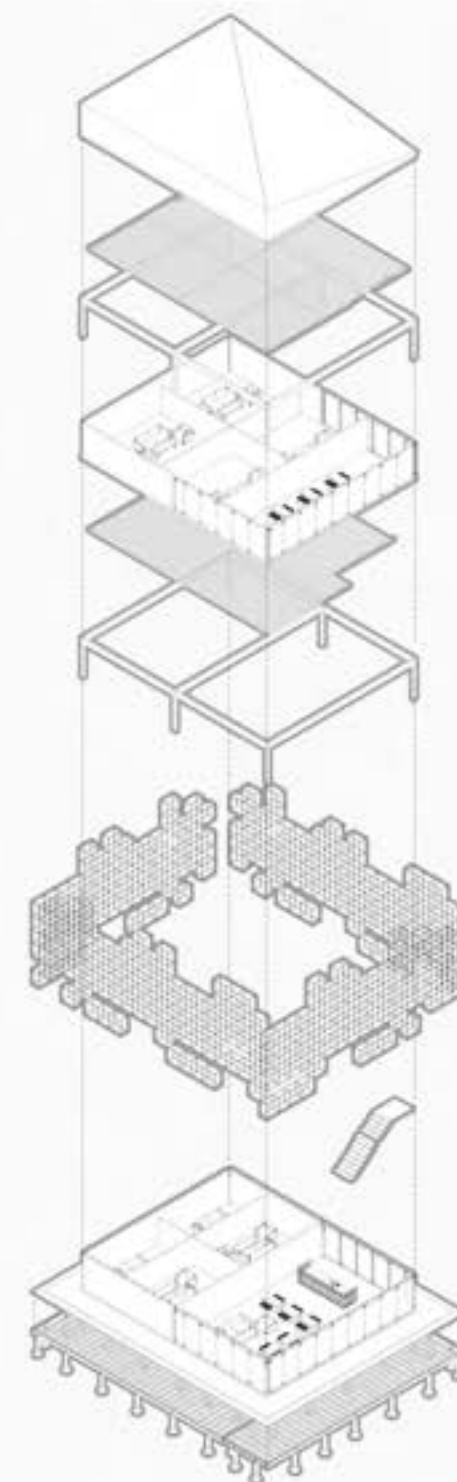
Pseudo facade system resourced locally in form of OSB sheets further preparing desired set of interlocking facade system enhancing aesthetics and providing additional privacy.

Modular Interior and elements resourced locally

Modular interior furniture and elements are extensively used, resourcing the needed raw material locally. Overall enhancing the design as eco friendly and sustainable.



Gallery & exhibition block



Administration block

Aatithya

आतिथय

//noun//

hospitable/embrace/cordial

Architectural biodiversity amidst living species

type academic	participation individual	site ranchi India
citation jury's distinction	time sixth semester	site area 2000 sqm.



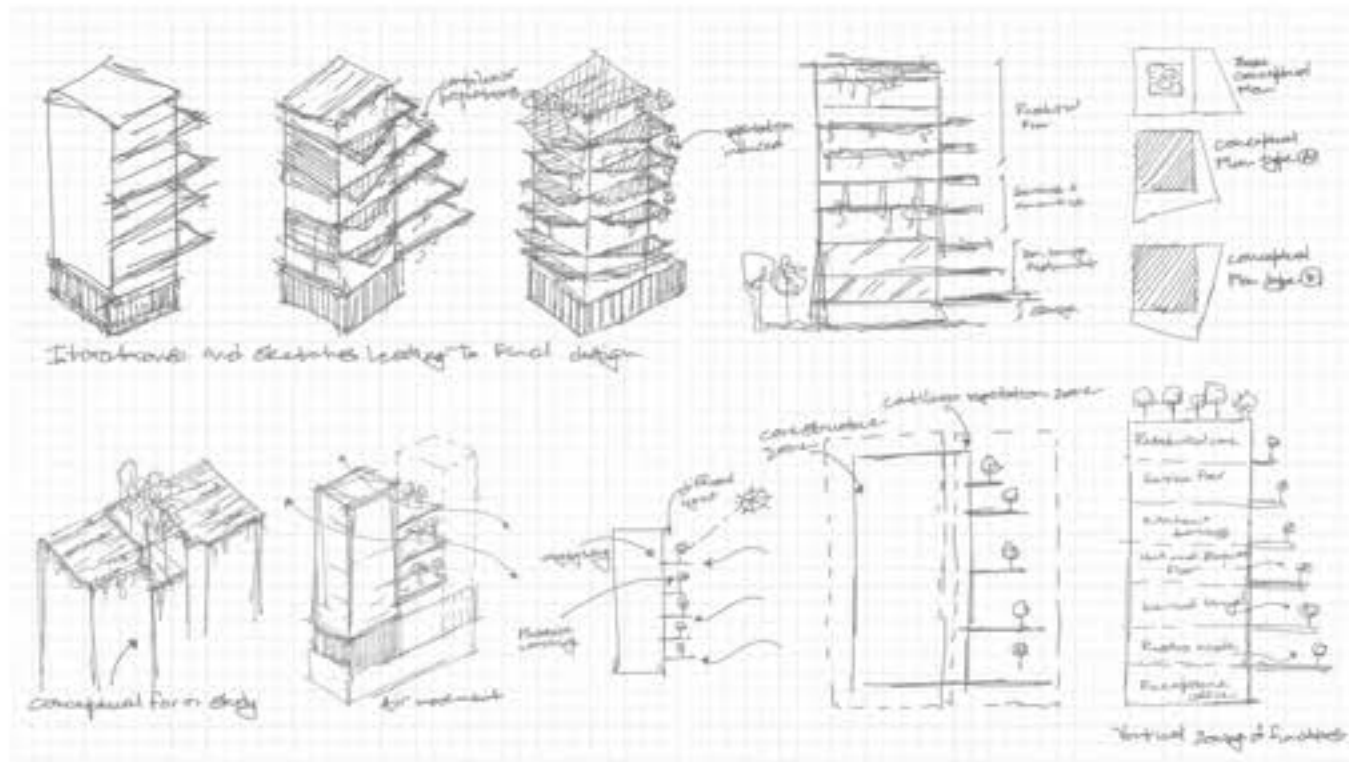
A coherence of humans, trees, birds and other living species. Creating a hospitality design concept of specified green hotel according to provided studio design brief, Athitya hotel design was formulated. Representing a strong biodiversity with the architecture as core medium.

Coherence of humans and other living species

Concept of vertical forest and vegetation induced design was approached for the design concept. As a result, several studies of existing vertical forest model and design concepts was taken into sight.

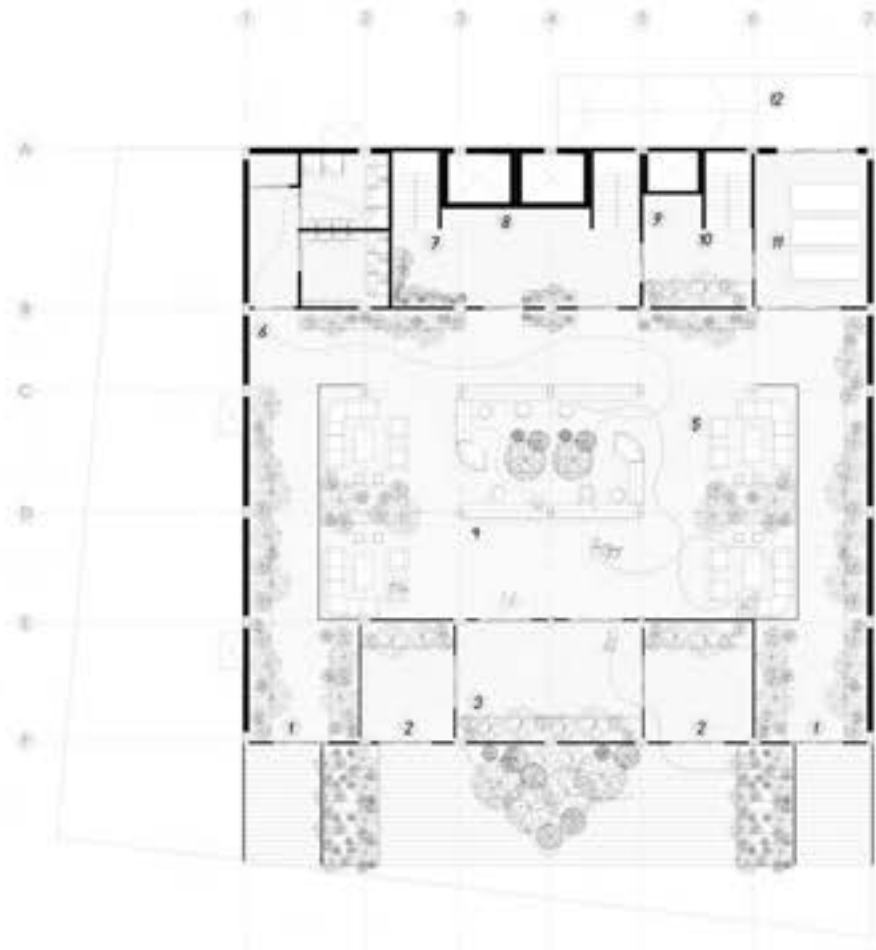
Athitya : vertical forest induced hotel design

The core design approach revolved around not only creating a practical solution against the provided brief but to create a design model, unconventional and sustainable in approach, integrating the nature in form of rich vegetation in design rather than excluding it. The whole design approach generating a space great enough to relish the hospitality requirement as well as creating a strong message to induce the nature withing design, eliminating the contemporary usage of glass and aesthetic based design approach.



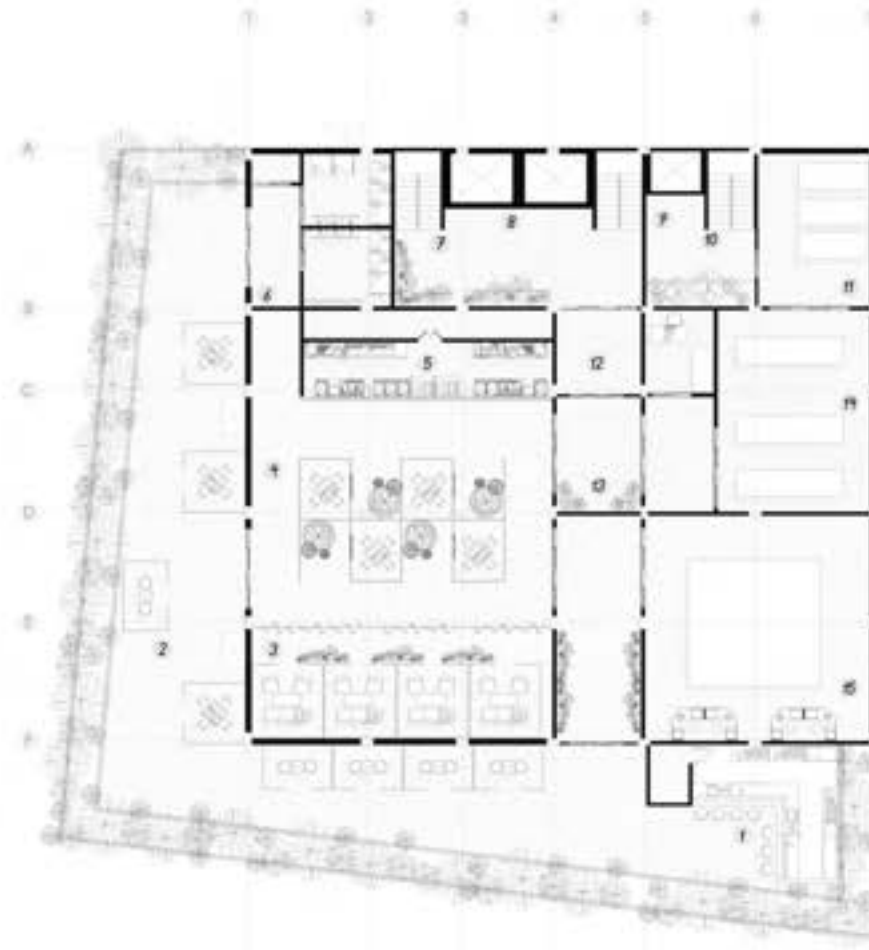
Analyzing the height of building through space requirement and structure study
 Demarcating the overall form with the area of usage - visitors & recreation - service and residential core
 Extruding cantilevers at each floor level from two faces to create a recreational yet provocative space
 Distorting the extruded cantilevers at different angles alternatively at every floor to create a dramatic space





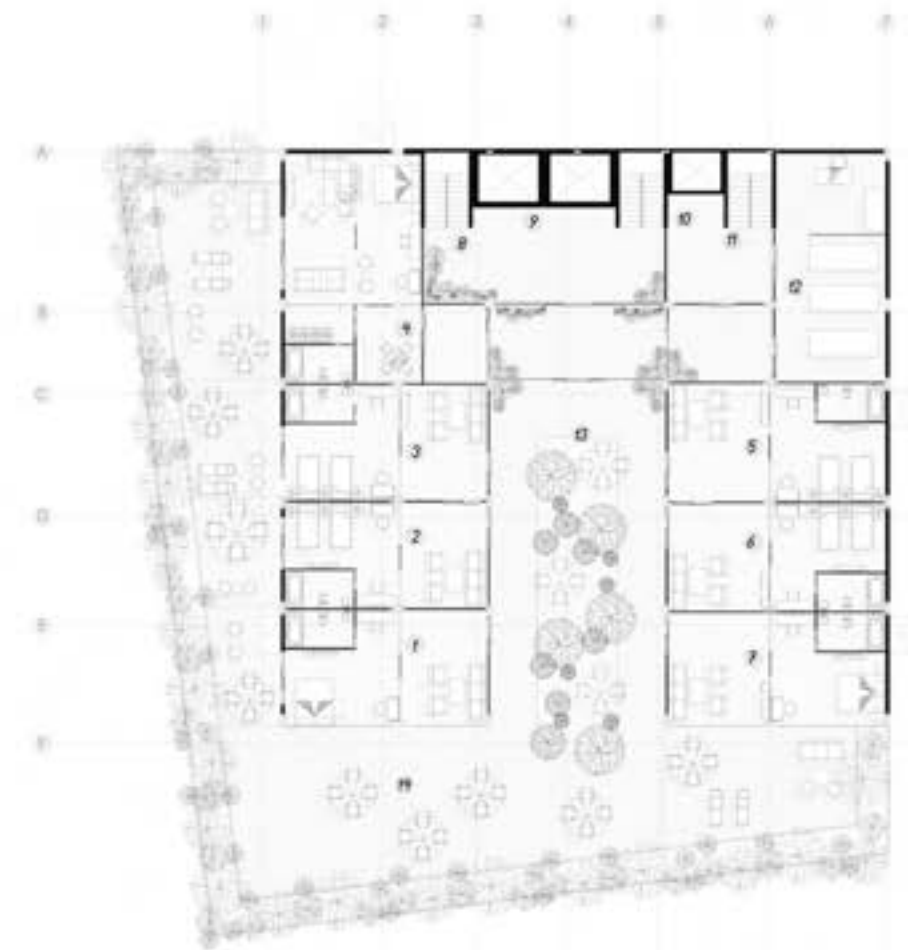
- 1 exit walkway
- 2 entrance walkway cum thermal check zone
- 3 disinfection area and central walkway
- 4 reception desk
- 5 reception sitouts
- 6 common toilet
- 7 public staircase
- 8 public lift
- 9 service lift
- 10 service staircase
- 11 temporary service storage
- 12 service ramp

Ground floor plan
reception core



- 1 outdoor bar lounge
- 2 outdoor sitout space
- 3 indoor luxury lounge sitout
- 4 indoor table sitout
- 5 bar counter
- 6 common toilet
- 7 public staircase
- 9 service lift
- 10 service staircase
- 11 temporary service storage
- 12 thermal check
- 13 disinfection area
- 14 cold storage
- 15 dance and

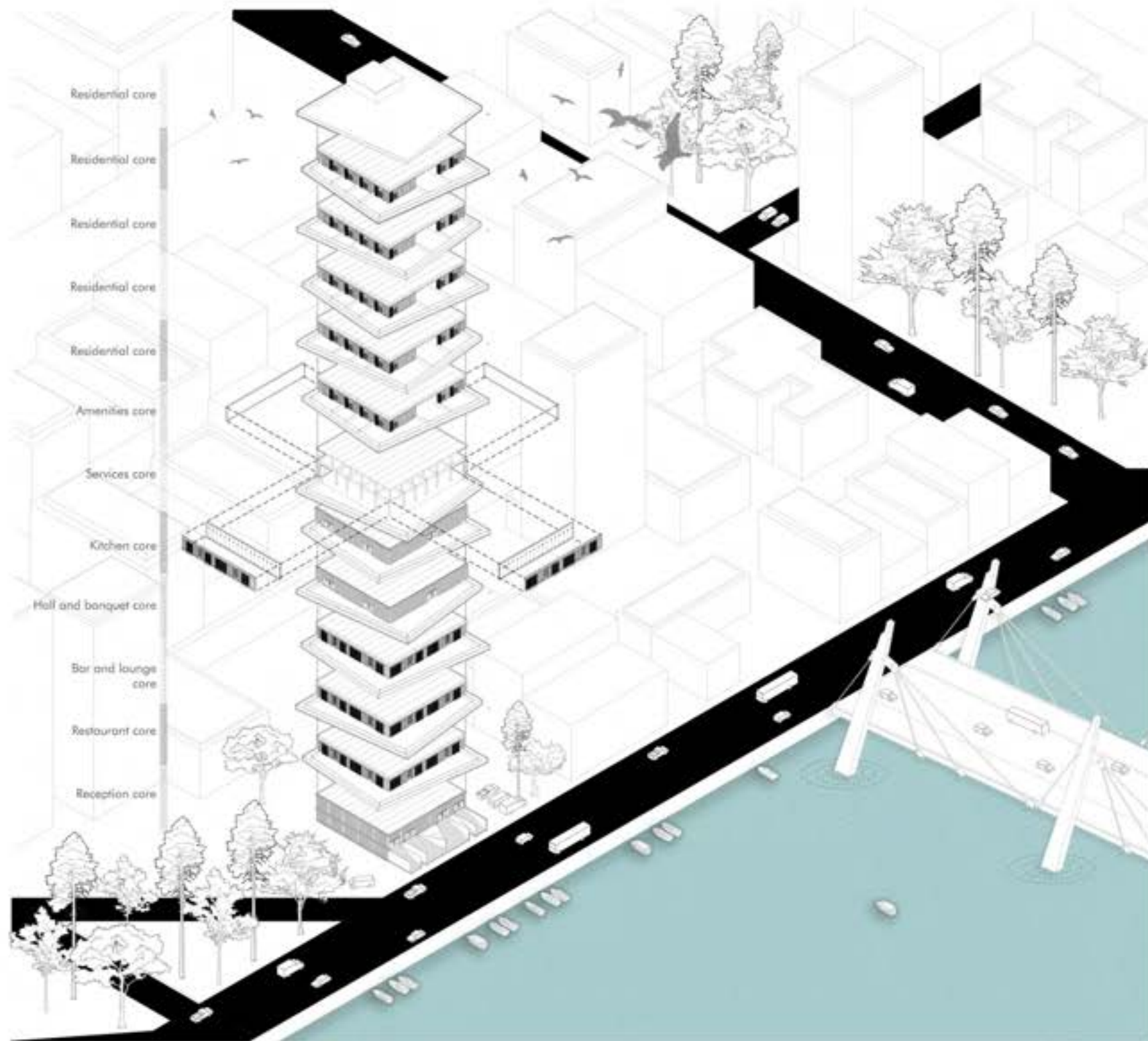
Second floor plan
bar and lounge core



- 1 room type A 1
- 2 room type B 1
- 3 room type B 2
- 4 room type C
- 5 room type D 1
- 6 room type D 2
- 7 room type A 2
- 8 public staircase
- 9 public lift
- 10 service lift
- 11 service staircase
- 12 service and supervisor room
- 13 outdoor garden sitout
- 14 outdoor common terrace

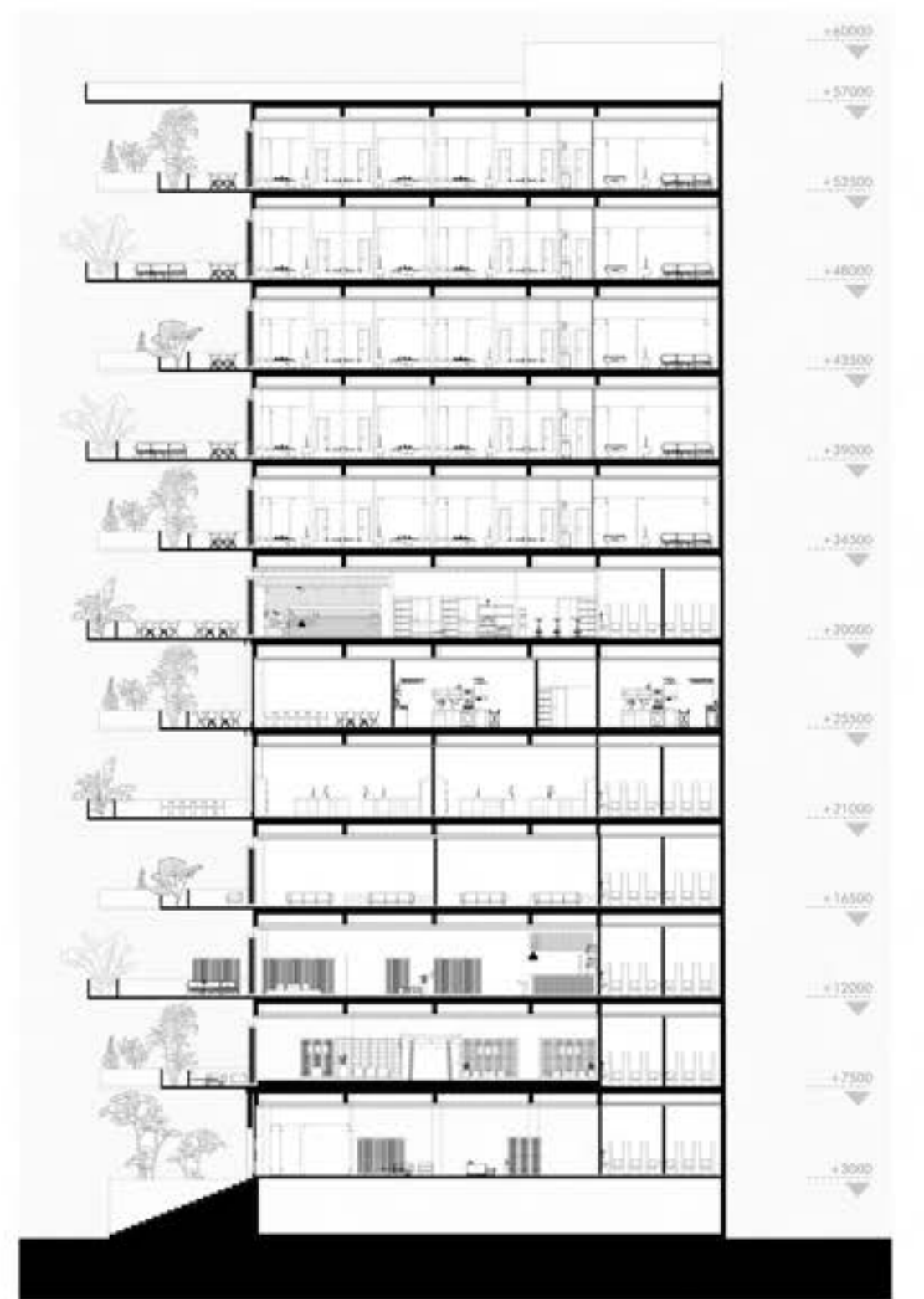
Seventh floor plan
residential core

Athiya: Exploded axonometric diagram



Athiya: architectural biodiversity amidst living species

Athiya: Flat section



Sukshm

सूक्ष्म

//noun//

subtle/fine/delicate

Upcycled shipping container microhouse

type competitive	participation individual	site sunderbans India
citation third place	time seventh semester	site area 36 sqm.



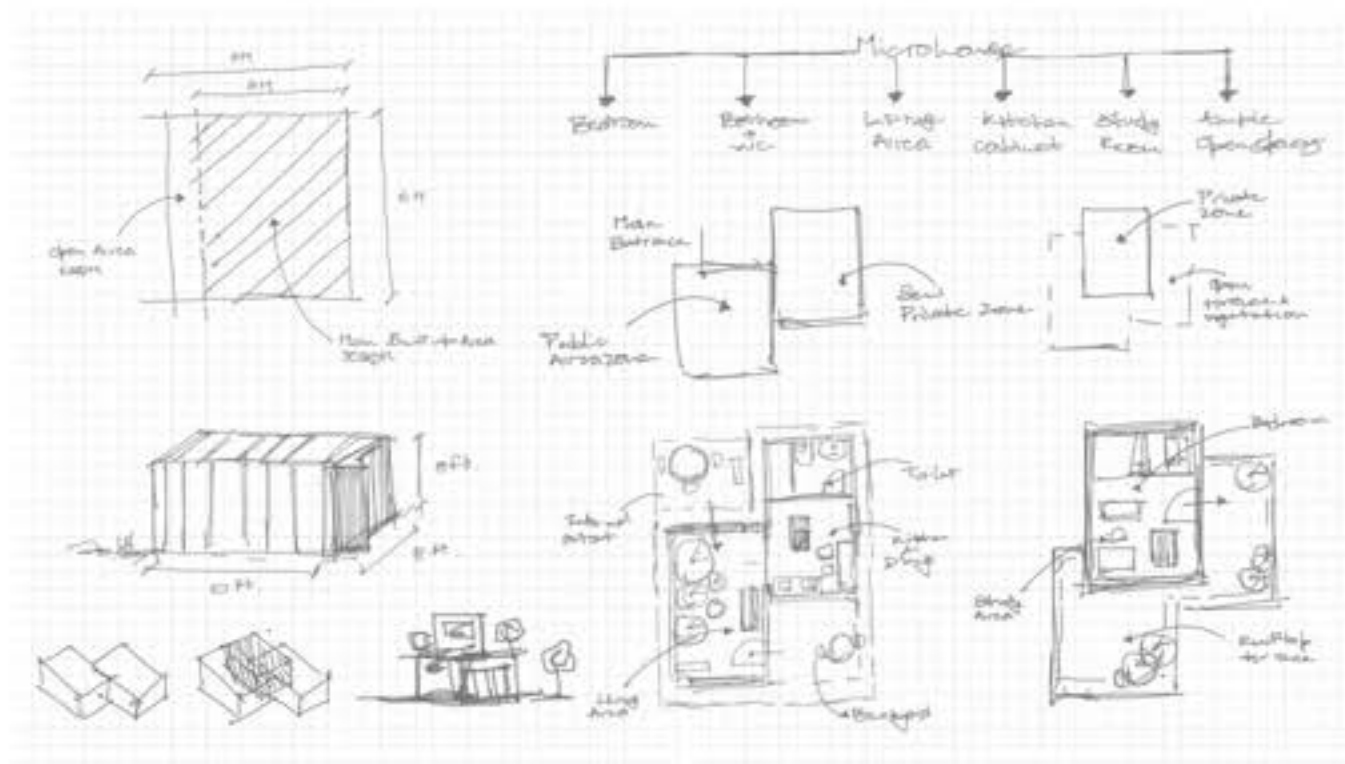
The competition brief demanded a microhouse living concept on site of 36 sqm, with basic living requirements for two people. Complimentarily, the brief was simple with inducing a sustainable yet practical design was the main challenge, demanding considerable amount of microhouse study.

Sustainable and modular design approach

As the result of ongoing situation, responding and giving solutions as an student architecture was the sole purpose, thus incorporating modular low-cost, off grid sustainable housing system for people in need.

Upcycled shipping container microhouse

The competition was a great medium to brainstorm and formulate a design concept of off grid modular housing system respoding to current situation. Following the framework, studies over off grid housing, shipping container housing, modular and sustainable design concepts was done. Resulting in a design concept incorporating ample residential spaces with extensive landscaping and vegetation provision, creating the overall design having core connection to the nature and immediate site context.



The plot of restricted built up area of 30 sqm, with additional 6 sqm, of landscaping area



Iteration leading to stacking of two shipping container, purpose of usage as public and semi-public zone

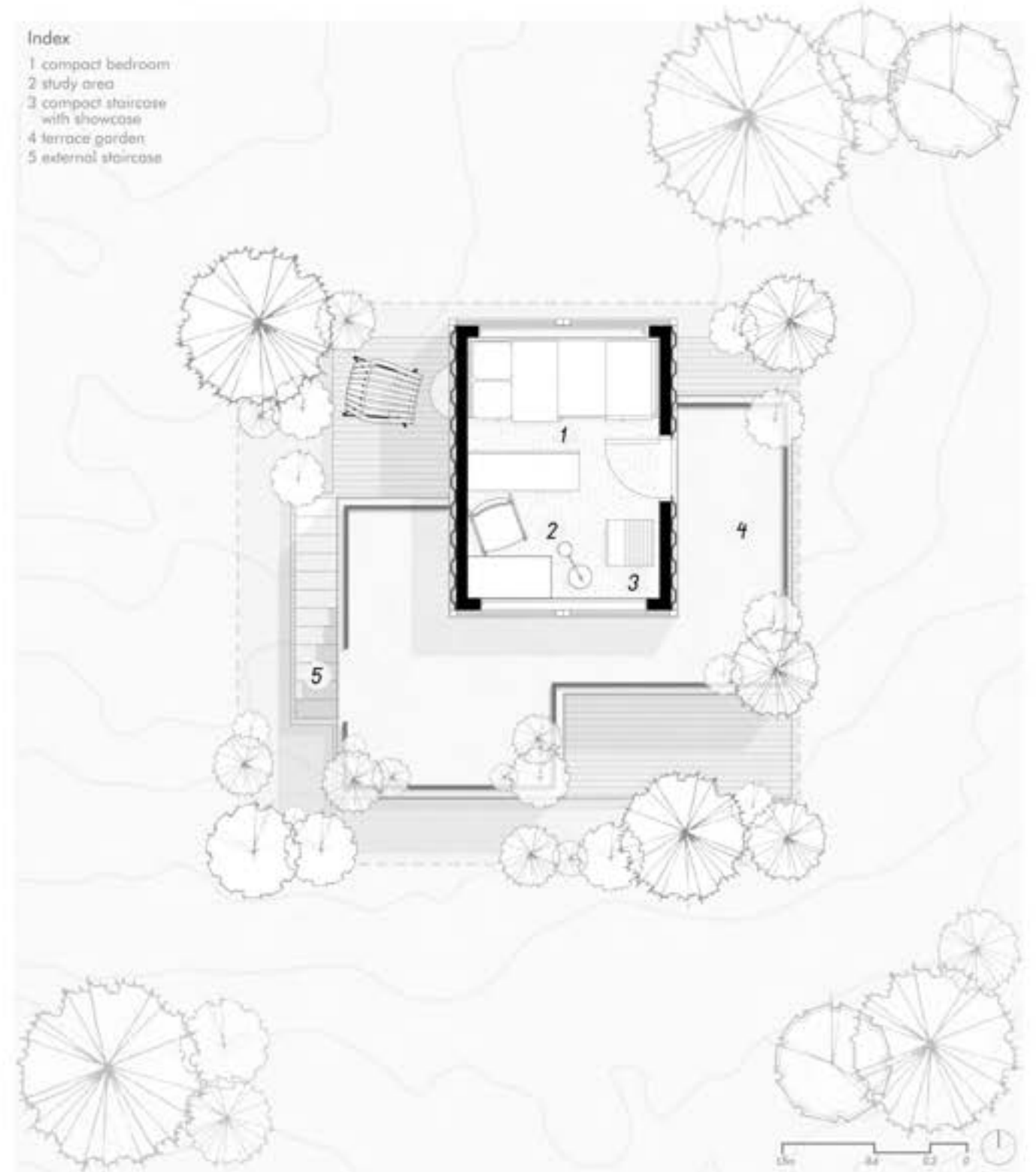
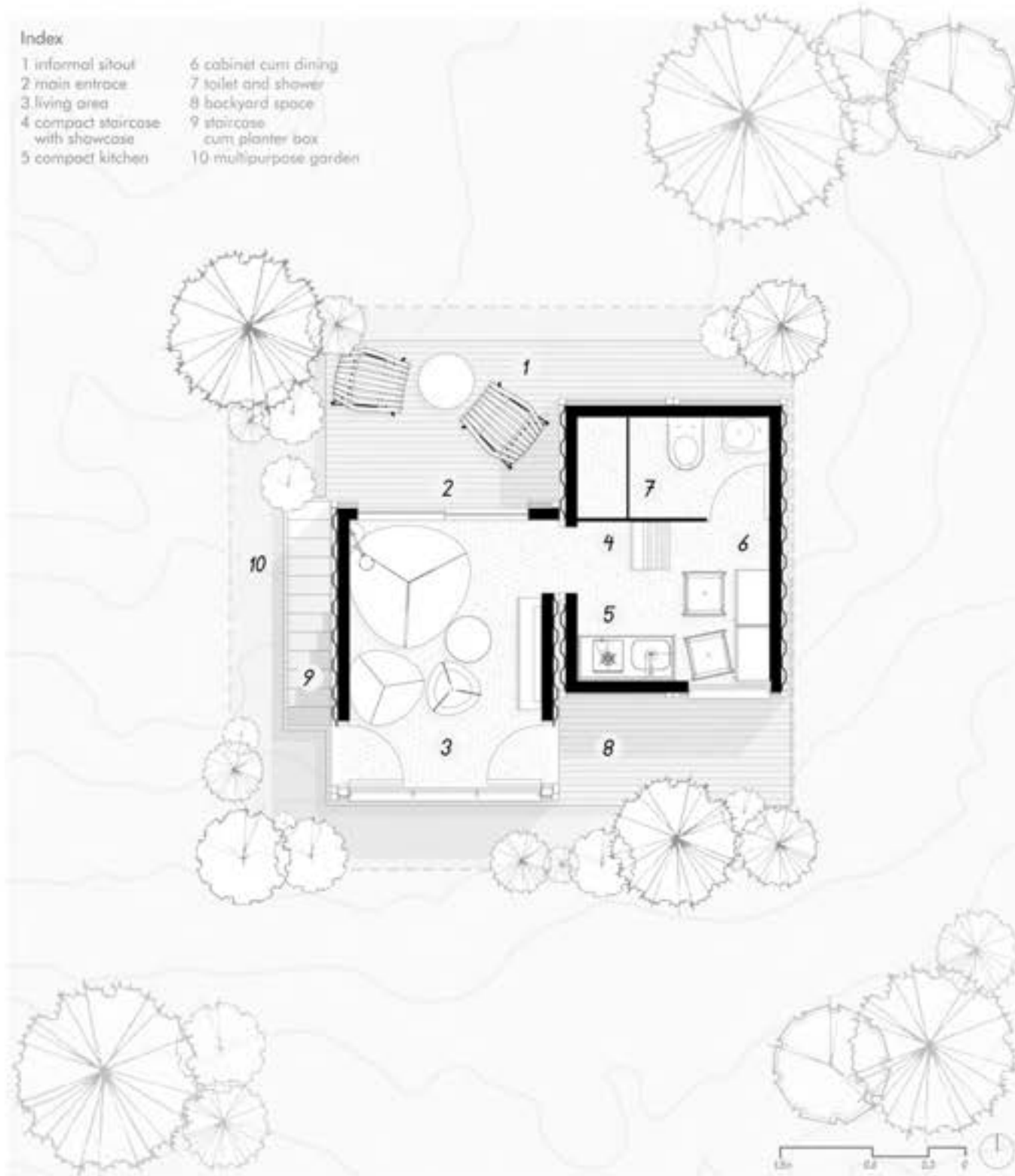


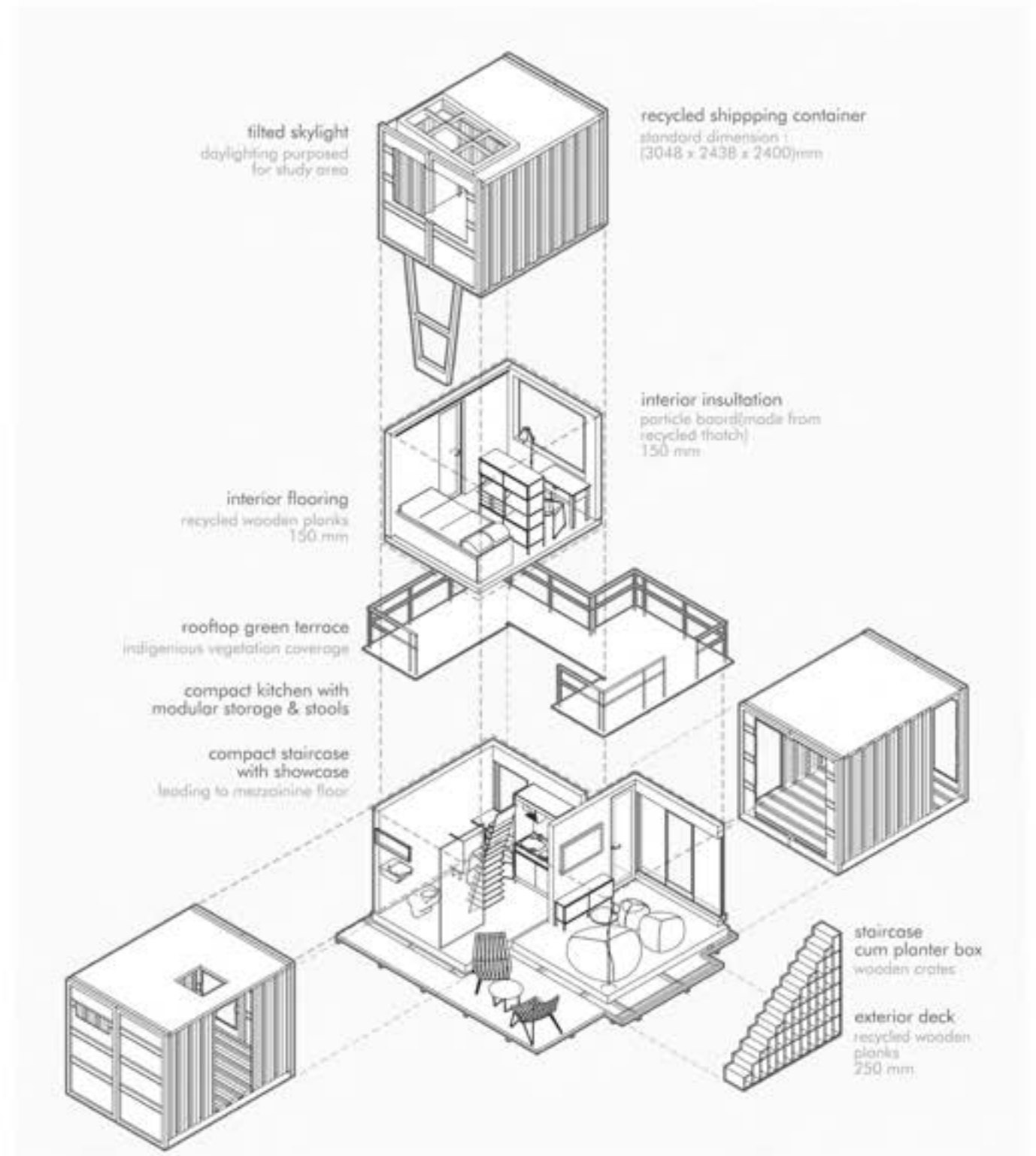
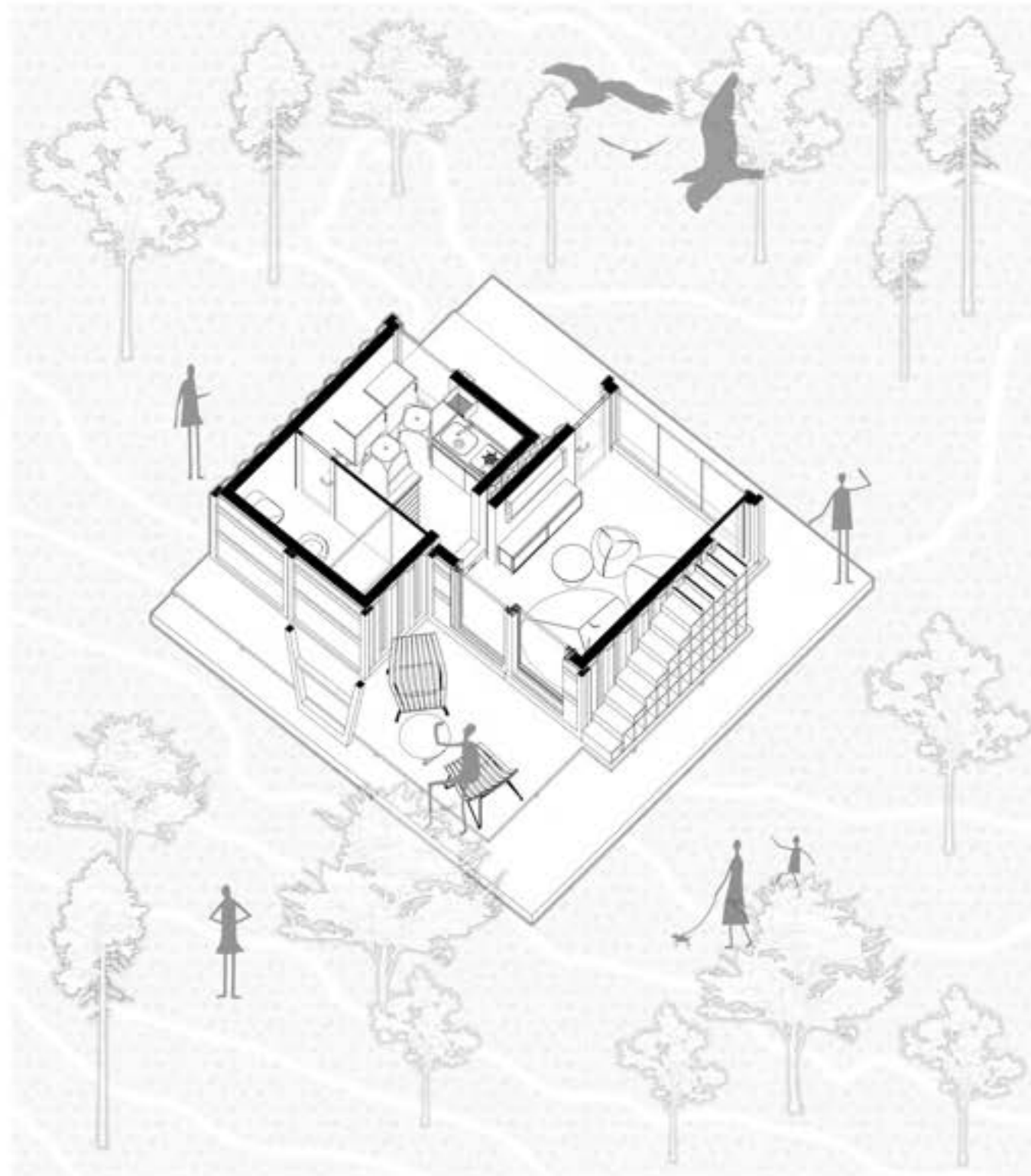
Further through structure analysis, stacking of 3rd container, purpose of usage as private zone



Finalizing the overall design with circulation, sitouts, entrance lounge and landscape garden







Walmi

वाल्मी

//acronym//

water and land management institute

A coherence of learning and nature

type	participation	site
academic	individual	Ranchi India
citation	time	site area
jury's distinction	eighth semester	80000 sqm.



Water and land management institute, Jharkhand was the design brief for the provided studio. WALMI institute incorporated studies and research related to water and land, managing these resources integrated with the studies of social and irrigation management.

Preserving and integrating the rich existing flora and fauna of the design site

The design site is located near Dhurwa Dam in Jharkhand. Due to prolonged undeveloped land, in course of 10-15 years the site developed rich vegetation and forest coverage. Added to this, the site also had unique features, existing Sarna sthal sacred grove and a temple, which was used as design element in project.

Responding to context : integrating the existing flora and fauna as design element

Upon analysing the space requirement and usages, various iterations was developed, out of which a single concept was finalised which satisfied the space requirements chart and the preservice of rich flora and fauna. This concept resulted in a hierarchy of spaces sequenced from open to closed spaces.

Hierarchy of open, semi-open and closed spaces

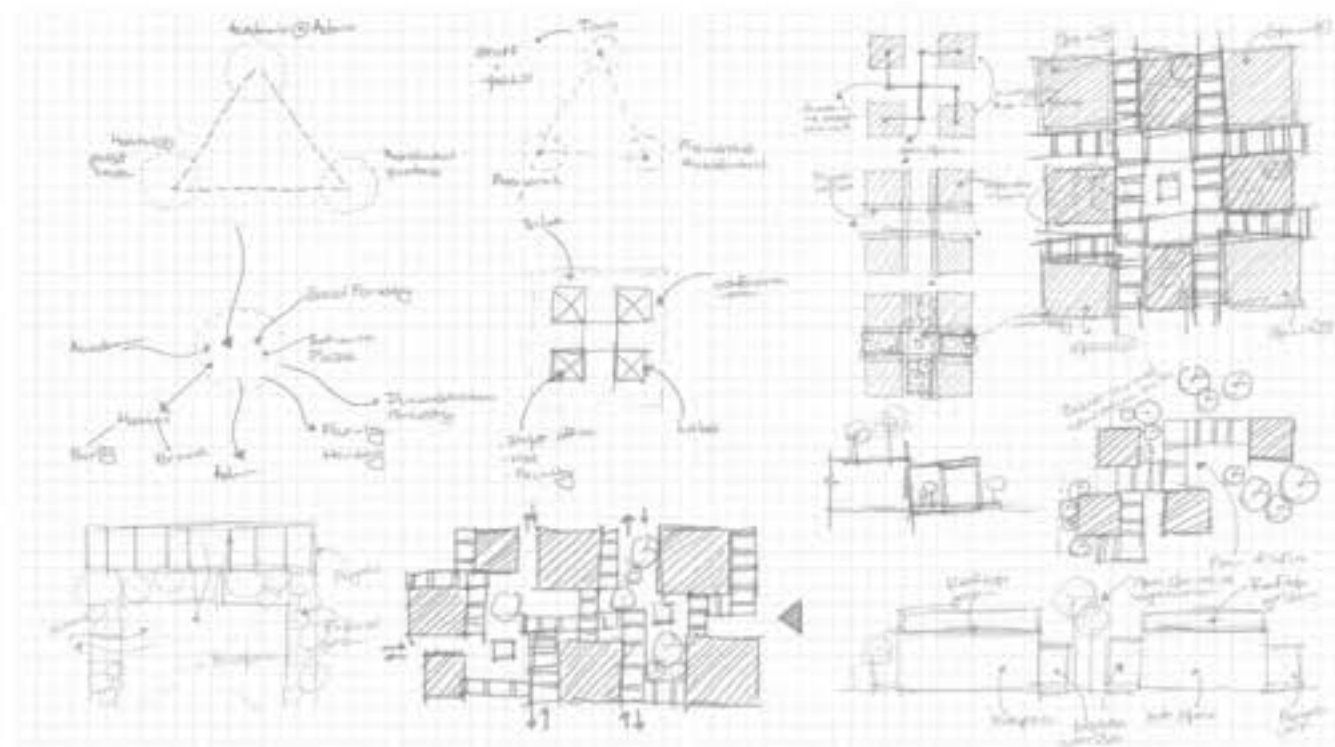
Upon further form development based on core concept, the design resulted in hierarchy of spaces, a sequence of open, semi-open and closed spaces inducing nature in learning, hand in hand with preserving existing rich vegetation.

Semi- shaded pergola walkways

Taking inspiration from the prestigious IIM Bangalore , to connect the scattered design approach, semi- shaded pergola walkways was used in the design, adding to design element of project as well. Covered with natural climbers and planters, connecting the overall design with the surrounding vegetation rich site.

Nature induced learning space : A bazaar themed institution setup

The WALMI institute design is based on bazaar theme. To create a learning system not limited to four walls but as a bazaar where one finds new spaces to explore, learn and unlearn, leading to lifelong learning experience.



Analysing the design site, understanding the slope, immediate context and typology of surrounding buildings.



The design site having rich existing feature of deep forestry spaces. Added to this, the site also having sacred grove- sarna sthal and temple - both of religious importance in Jharkhand.



Through remote survey and satellite imagery, open non- vegetated pocket spaces were identified in site free of any vegetation.



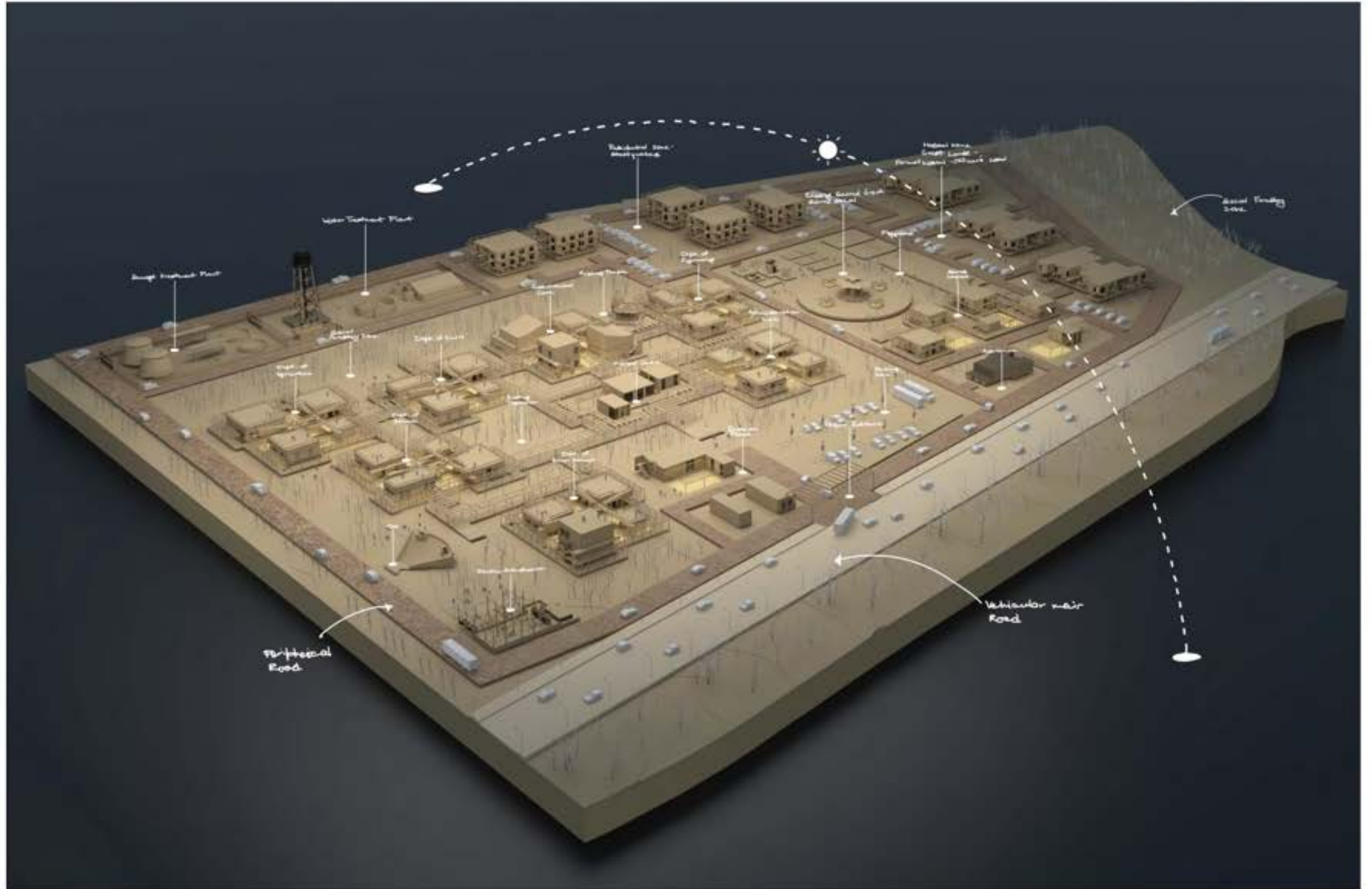
With the marked open spaces, through considerable iterations and brainstorming, design concept without harming a single tree was formulated.



The design concept resulted in hierarchy of spaces, a sequence of open, semi-open and closed spaces connected with pergola walkways inducing nature in learning, hand in hand with preserving existing rich vegetation and features.



Diagram of the departmental module design, integrated with pergola walkways and rooftop terrace gardens, connected with open and semi-open spaces for practical classes, leading to an unconventional learning system.



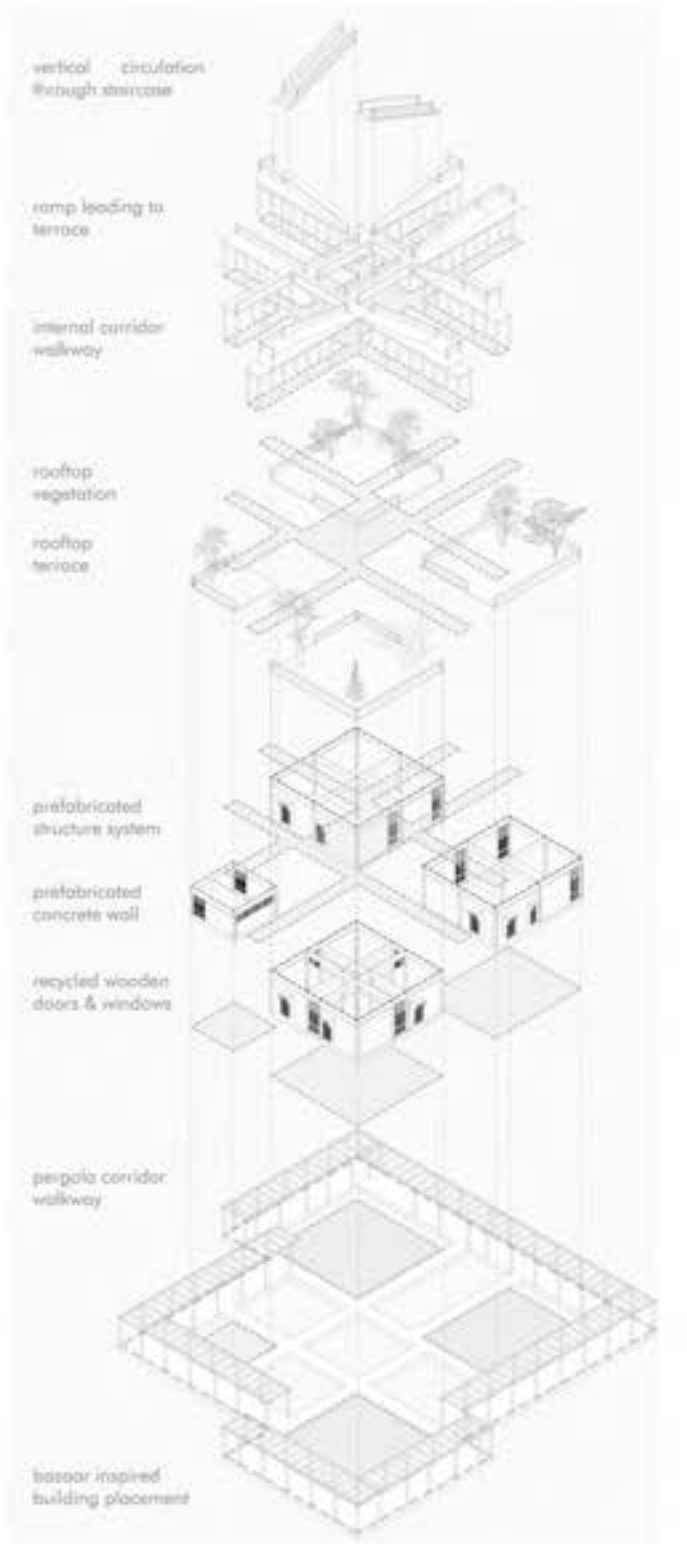
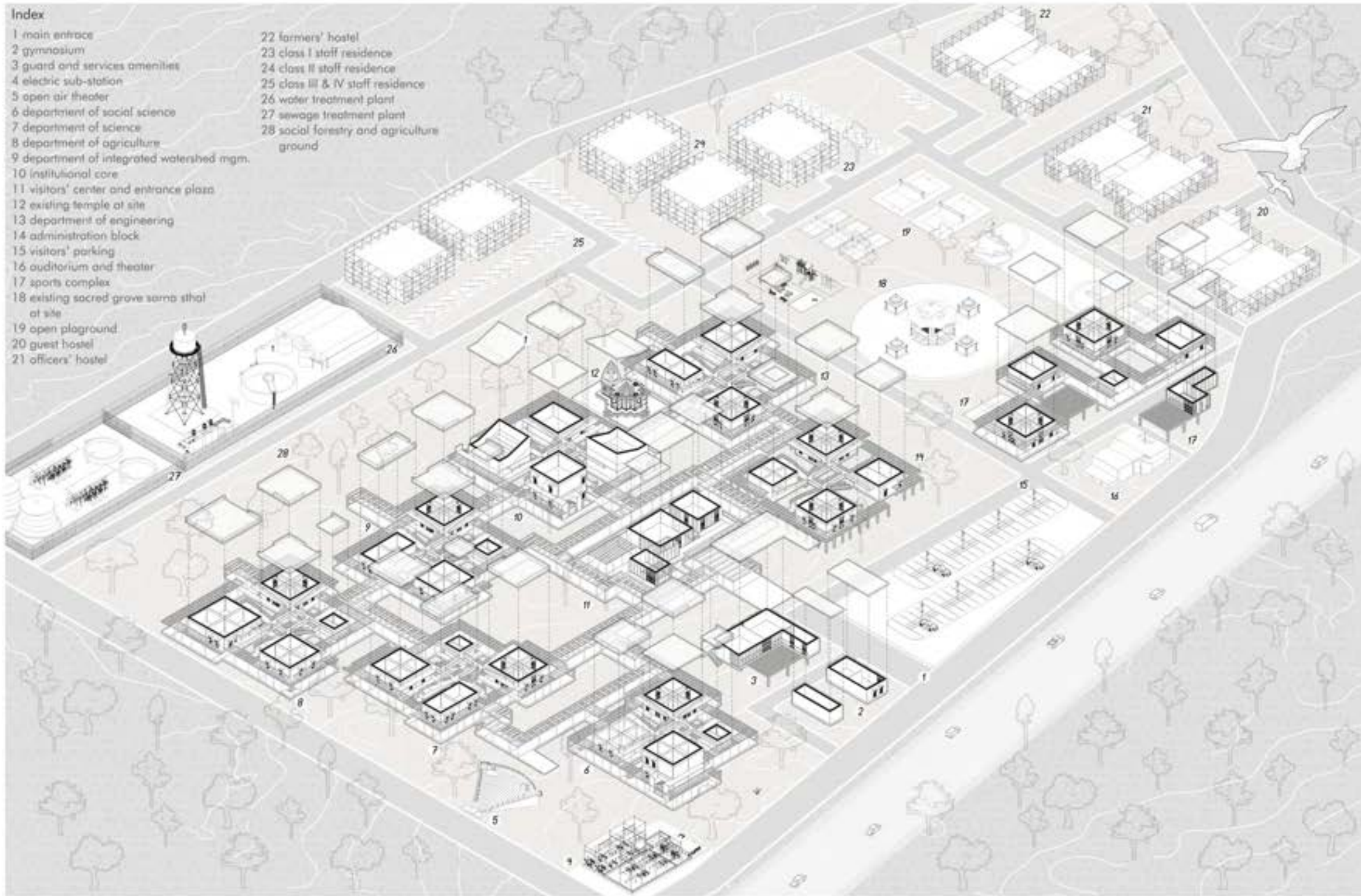
"A campus must be a place of discovery. A place of not knowing and then knowing. You can't know, but when you don't know then you know, you know something more than what other people think they know."

"I think the buildings change over time, they must also become like us. They must become part and parcel of nature, they must change their character, they must cool down and they must give you some kind of other messages."

BV Doshi on
Indian Institute of Management (IIM)
Bangalore

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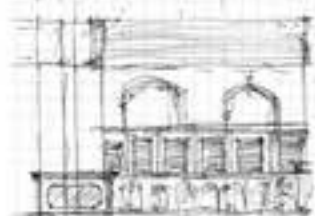
- 1 main entrance
- 2 gymnasium
- 3 guard and services amenities
- 4 electric sub-station
- 5 open air theater
- 6 department of social science
- 7 department of science
- 8 department of agriculture
- 9 department of integrated watershed mgm.
- 10 institutional core
- 11 visitors' center and entrance plaza
- 12 existing temple at site
- 13 department of engineering
- 14 administration block
- 15 visitors' parking
- 16 auditorium and theater
- 17 sports complex
- 18 existing sacred grove sarnb sthal at site
- 19 open playground
- 20 guest hostel
- 21 officers' hostel
- 22 farmers' hostel
- 23 class I staff residence
- 24 class II staff residence
- 25 class III & IV staff residence
- 26 water treatment plant
- 27 sewage treatment plant
- 28 social forestry and agriculture ground



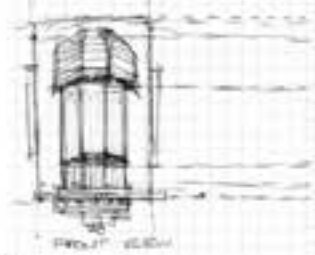
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Korok Yonjal



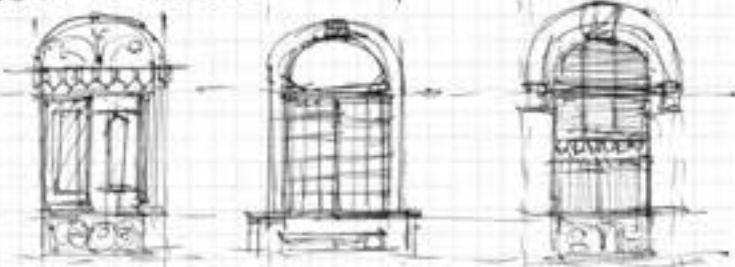
dal verandah



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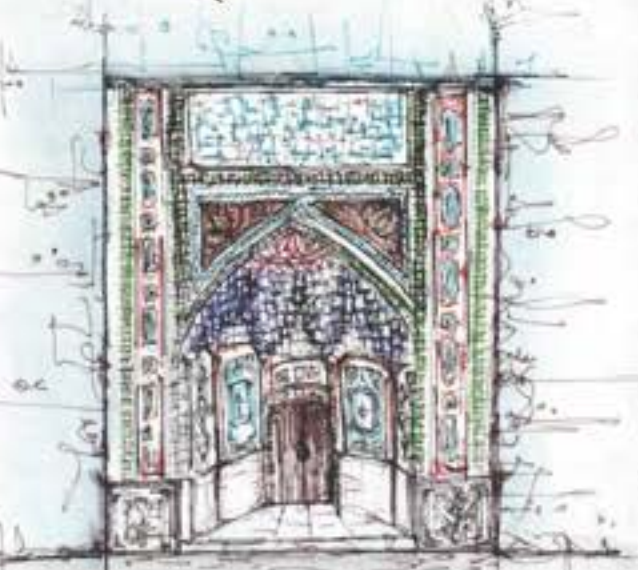
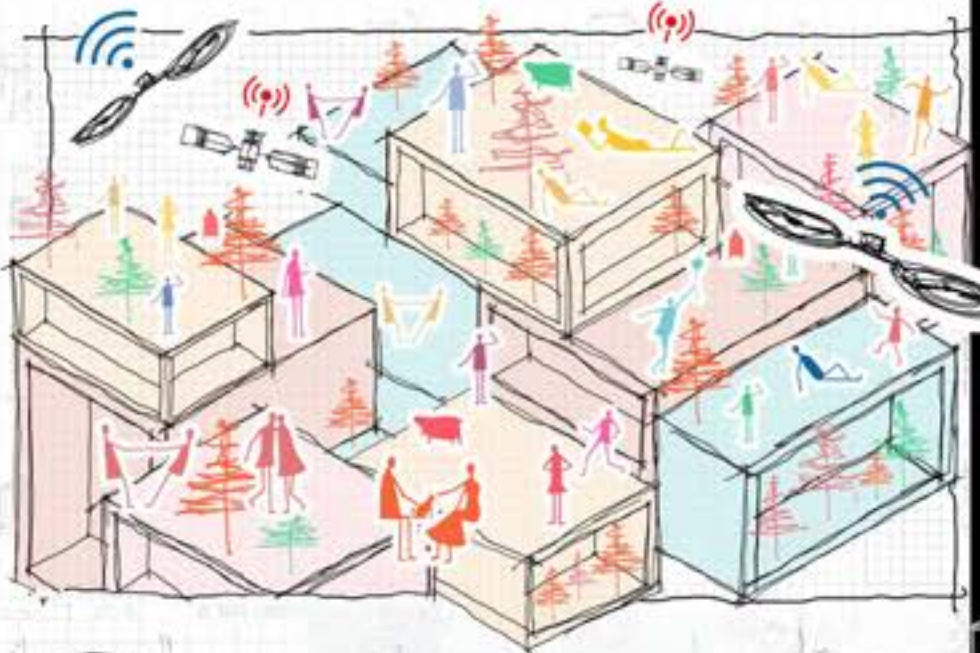
red windows



Romaneque windows in hybrid buildings



Arched Neo Classical windows in diff. hybrid buildings



Shiraz
Iran

thank
you

respecting your time and patience

