



SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY

(DEEMED TO BE UNIVERSITY)

Accredited "A" Grade by NAAC | 12B Status by UGC | Approved by AICTE

www.sathyabama.ac.in

**SCHOOL OF BUILDING AND ENVIRONMENT
DEPARTMENT OF ARCHITECTURE
M. Arch (Sustainable Architecture)**

**PROFESSIONAL TRAINING (S89APT)
JUL 2022 - AUG 2022**

Name of the Student : Sherin Sade.D

Semester : III

Reg No. : 41890018

Batch : 2021-2023



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SCHOOL OF BUILDING AND ENVIRONMENT

DEPARTMENT OF ARCHITECTURE

M. Arch (Sustainable Architecture)

VIVA-VOCE EXAMINATION

This is to certify that the Professional Training Report (S89APT) is the work of Sherin Sade.D who had undergone training in **Nanda Green Associates** and has been monitored by the continuous assessment during Jul 2022 to Aug 2022.

Dr.Devyani Gangopadhyay
HOD AND DEAN

Submitted for Viva voce Examination held on 22 December 2022

Internal Examiner

External Examiner



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DECLARATION

I Sherin Sade.D hereby declare that this Professional Training Report one month done by me under the guidance of Ar.S.Nanda Gopal is submitted in partial fulfillment of the requirements for the completion of practical training session.

DATE : 20 December 2022

PLACE : Chennai

A handwritten signature in blue ink, appearing to read 'Sherin', with a long horizontal stroke underneath.

SIGNATURE OF CANDIDATE

ACKNOWLEDGEMENT

I am pleased to acknowledge my sincere thanks to Board of Management of **SATHYABAMA INSTITUTE OF SCIENCE & TECHNOLOGY** for their kind encouragement in doing this project and for completing it successfully. I am grateful to them.

I convey my thanks to **Dr. Devyani Gangopadhyay Dean, School of building and Environment** for providing me necessary support and details at the right time during the progressive reviews.

I would like to express my sincere and deep sense of gratitude to **Ar. S.Nanda Gopal** for his valuable guidance, suggestions and constant encouragement paved way for the successful completion of my Training. I wish to express my gratitude to Ar.Tiffancy for her support and for her best company throughout the entire training. I would like to thank the whole Nanda Green Associates team for providing me with the opportunity to work with them.

I would also like to express my sincere thanks to Ar. Catherine Selvaraj (Internal Co-ordinator) for her valuable guidance, during the entire Professional Training period.

I wish to express my thanks to all Teaching and Non-teaching staff members of the Department of Architecture who were helpful in many ways for the completion of the project.

CONFIRMATION LETTER



10.05.2022

To,

Dr. Devyani Gangopadhyay,

Dean – School of Building & Environment,

Sathyabama Institute of Science & Technology ,

Semmencherry, Chennai.

Respected Madam,

Sub: Practical training/ Internship Program II- Semester - confirmation.

We hereby accept, SHERIN SADE D (Reg No – 41890018), 2021-2023 1st year, M. Arch (SUSTAINABLE ARCHITECTURE) student of your institution to undergo her practical training in our office as trainee architect for this semester from JULY 2022 TO AUGUST 2022.

Thanking you,

Regards,

NANDAGOPAL .S

(PRINCIPAL ARCHITECT)

NANDA GOPAL .S

M.Arch, M.Sc, Sustainable Building (UK)

Dip. Stone Tech (Italy), AIIA

CA / 2008 / 42643

IIA No : 16792

No.980, TNHB Colony Main Road,

Erikarai, Velachery, Chennai - 600 042.

Email : nandagreenassociates@gmail.com

Phone : 044 - 42716159

Mob : 98401 45917

Web : www.ngreenarchitects.com

MONTHLY REPORT



SATHYABAMA
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SCHOOL OF BUILDING & ENVIRONMENT, DEPARTMENT OF ARCHITECTURE
M. Arch (Sustainable Architecture) Batch 2021-2023
Continuous Assessment Report for Professional training

(Continuous progress report of the trainee architect/Project Manager for the period of 15 working days in the office to be submitted to HOD)

1. Name of the office / organization:	NANDA GREEN ASSOCIATES
2. Address & Contact Number	: NO.980, TNHB Colony Main Road, Erikarai, Velachery, Chennai-600042
3. Name of the student	: Sherin Sade.D
4. Duration	: 11 TH JULY To 31 ST JULY
5. Total No. of days	:
6. Evaluation of Performance criteria shall be on	

* Note: Kindly grade the student as per his/her overall performance in the office during the assessment month;

Description of works	Excellent	Good	Fair	Poor	NA
Understanding of office culture	/				
Skillsets related to projectmanagement		/			
Design Management		/			
Understanding the Triple Constraints		/			
Observation during Site Visits		/			
Understanding of construction details		/			
Understanding of Constructionsequences		/			
Site Supervision / Discussion with clients		/			
Adherence to Time schedule		/			
Quantitative aptitude	/				
Documentation skills	/				
Coordination with other consultants	/				

Overall Grading*	A
------------------	---

(A - 80, B - 70, C - 60, D - 55, E - 50, F - <5)

7. Any other Remarks : S.NANDA GOPAL
B.Arch, M.Sc, Sustainable Building (UK), AHA
LICENCED SURVEYOR No : RA 591

8. Signature of the Head of the Office / Organization (With Seal) :
Class I, Corporation of Madras
CA / 2008 / 42643
HA No : 16792
No.980,TNHB Colony Main Road,
Erikarai,Velachery, Chennai - 600 042,
Phone : 044 - 42716159



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3. Name of the student	: Sherin Sade.D
4. Duration	: 1 ST AUGUST To 20 TH AUGUST
5. Total No. of days	:
6. Evaluation of Performance criteria shall be on	

* Note: Kindly grade the student as per his/her overall performance in the office during the assessment month;

Description of works	Excellent	Good	Fair	Poor	NA
Understanding of office culture	/				
Skillsets related to projectmanagement		/			
Design Management		/			
Understanding the Triple Constraints		/			
Observation during Site Visits		/			
Understanding of construction details		/			
Understanding of Constructionsequences		/			
Site Supervision / Discussion with clients		/			
Adherence to Time schedule		/			
Quantitative aptitude	/				
Documentation skills	/				
Coordination with other consultants	/				

Overall Grading*	A
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Phone : 044 - 42716159

WORK DIARY

WORK DIARY

(Annexure -VIII)

DAY	PROJECT NAME	WORK DONE	DAY	PROJECT NAME	WORK DONE
1	PARAM	SCHEME PLAN	16	MYLAPORE	RENOVATION
2	PARAM	SCHEME PLAN	17	MYLAPORE	RENOVATION
3	BUNGALOW	VIEW (2D)	18	MYLAPORE	RENOVATION
4	BUNGALOW	VIEW (3D)	19	ELISHA	PLAN & SIMULATION
5	PARAM	SCHEME PLAN	20	ELISHA	PLAN & SIMULATION
6	ELISHA	PLAN	21	ELISHA	PLAN & SIMULATION
7	ELISHA	PLAN	22	ELISHA	VIEWS
8	ELISHA	PLAN & SIMULATION	23	JAYASHREE	REVISE
9	PARAM	SCHEME PLAN	24	JAYASHREE	REVISE
10	ELISHA	PLAN & SIMULATION	25	JAYASHREE	REVISE
11	JAYASHREE	PLAN & SIMULATION	26	PARAM	REVISE
12	JAYASHREE	PLAN & SIMULATION	27	MYLAPORE	REVISE
13	ELISHA	PLAN & SIMULATION	28	JAYASHREE	SIMULATION FOR REVISE
14	BUNGALOW	2D	29	JAYASHREE	SIMULATION FOR REVISE
15	BUNGALOW	3D	30	JAYASHREE	SIMULATION FOR REVISE

Chief Architect Signature:

Office seal:

S. NANDA GOPAL
 B.Arch, M.Sc, Sustainable Building (UK), AIA
 LICENCED SURVEYOR No. 30
 Class I, Corporation of Madras
 CA/2008/42643
 IIA No: 16792
 No.980, TNHB Colony Main Road,
 Erikarai, Velachery, Chennai - 600 042.
 Phone: 044 - 42716159

Consolidated Certificate



TO
The Head of the Department

Date: August 20th 2022

Department of Architecture,
School of building and Environment
Sathyabama Institute of Science and technology
(Deemed to be University)
Rajiv Gandhi Salai, Jeppiaar Nagar,
Chennai-600119, Tamil Nadu.

Dear Sir/Madam,

This letter is to verify that **Sherin Sade. D, SECOND YEAR M.Arch**
(**Sustainable architecture**) student of your institution has successfully
completed her internship in our firm from July 11th 2022 to August 20th 2022.

Thanking you,

Yours sincerely,

(Nandagopal. S)
Principal Architect

S.NANDA GOPAL

B.Arch. M.Sc, Sustainable Building (UK), AIIA

LICENCED SURVEYOR No : RA 591

Class I, Corporation of Madras

CA / 2008 / 42643

IIA No : 16792

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OUR APPROACH:

As the name Nanda 'Green' Associates suggests, we are an association who also contribute to the environment apart from fulfilling our client needs. We explore the energy and cost saving methods, which indirectly minimizes the burden on the client and environment. This green and integrated approach makes our client, our team and the surrounding environment a winner

Our Motto:

LESS ENERGY USED = LESS MONEY SPENT = LESS POLLUTION TO ENVIRONMENT



Affiliations:

- Council of Architecture(COA): No. CA/ 2008/42643
- Indian Institute of Architects: Associate - Reg No. 16792



ARCHITECT PROFILE

NANDA GREEN ASSOCIATES is an integrated Architecture and Design firm founded by our Principal Architect: Nanda Shanmugam, whose experience in this field spans for 13 years in dealing with both large scale and small scale projects.

Education:

- B.Arch - RV School of Architecture, (Bangalore)
- Masters in Sustainable Building: Performance and Design, (Oxford, UK)
- Dip. Stone Technology, (Verona, Italy).

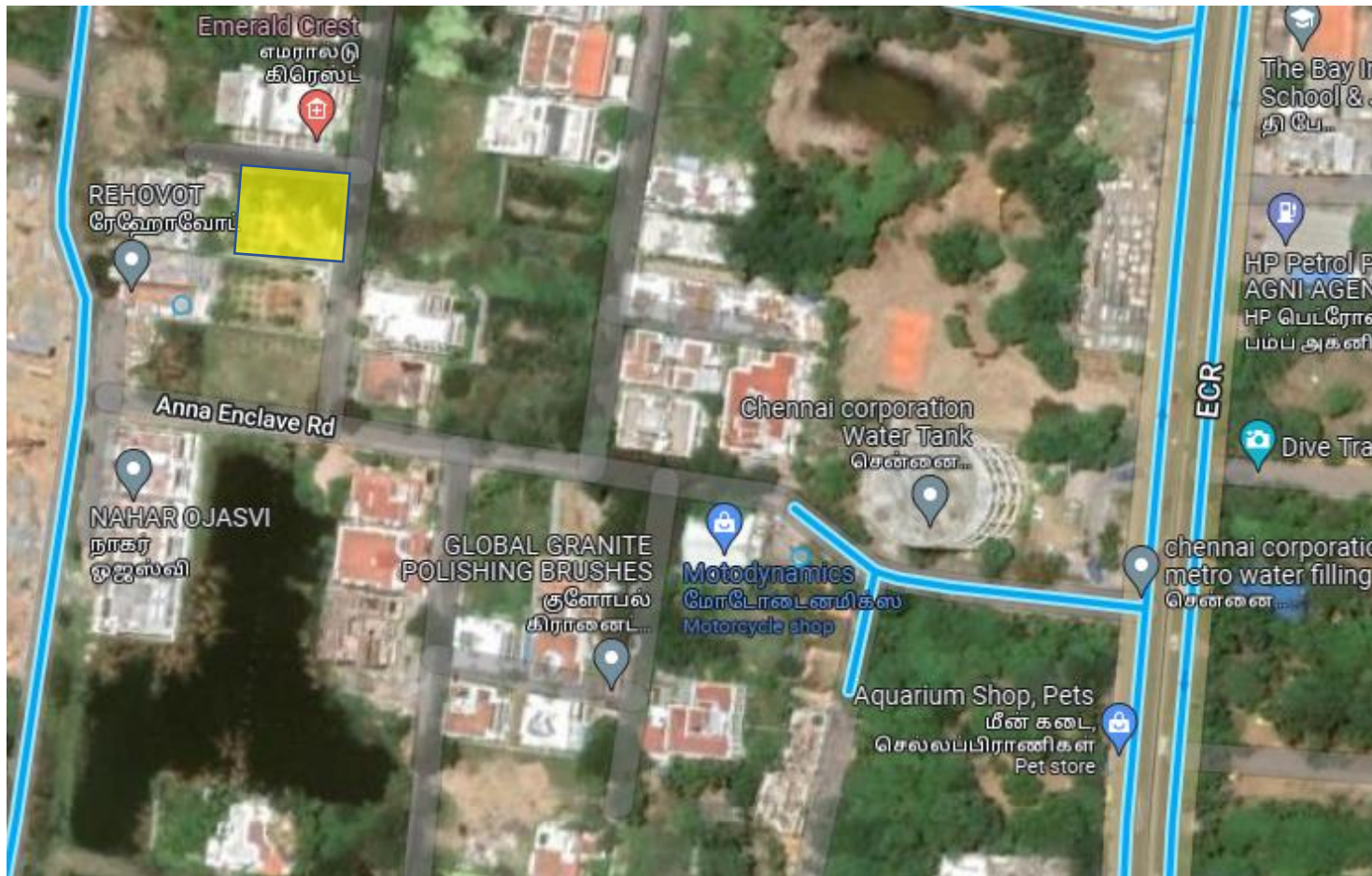
Architect Nanda is well experienced both in India and abroad and has handled a variety of projects in Residential, Commercial and Industrial sectors.

WHO WE ARE ABOUT US

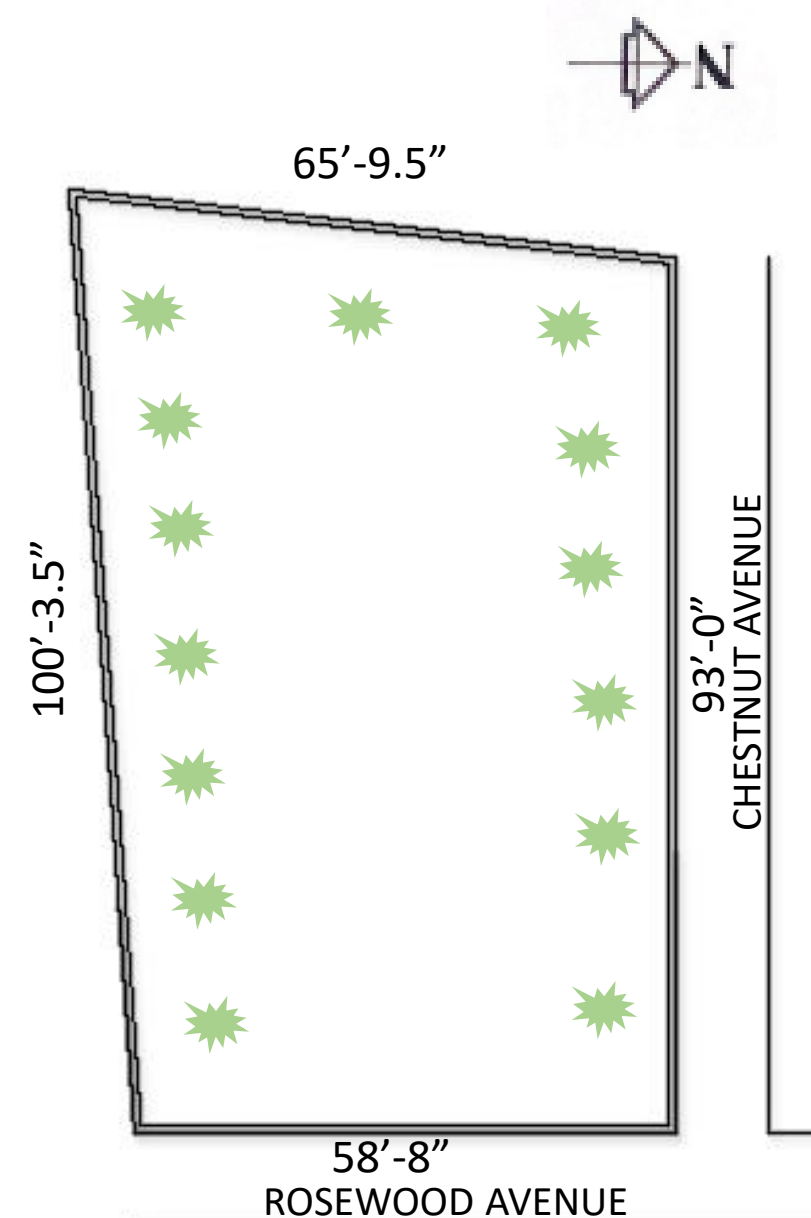
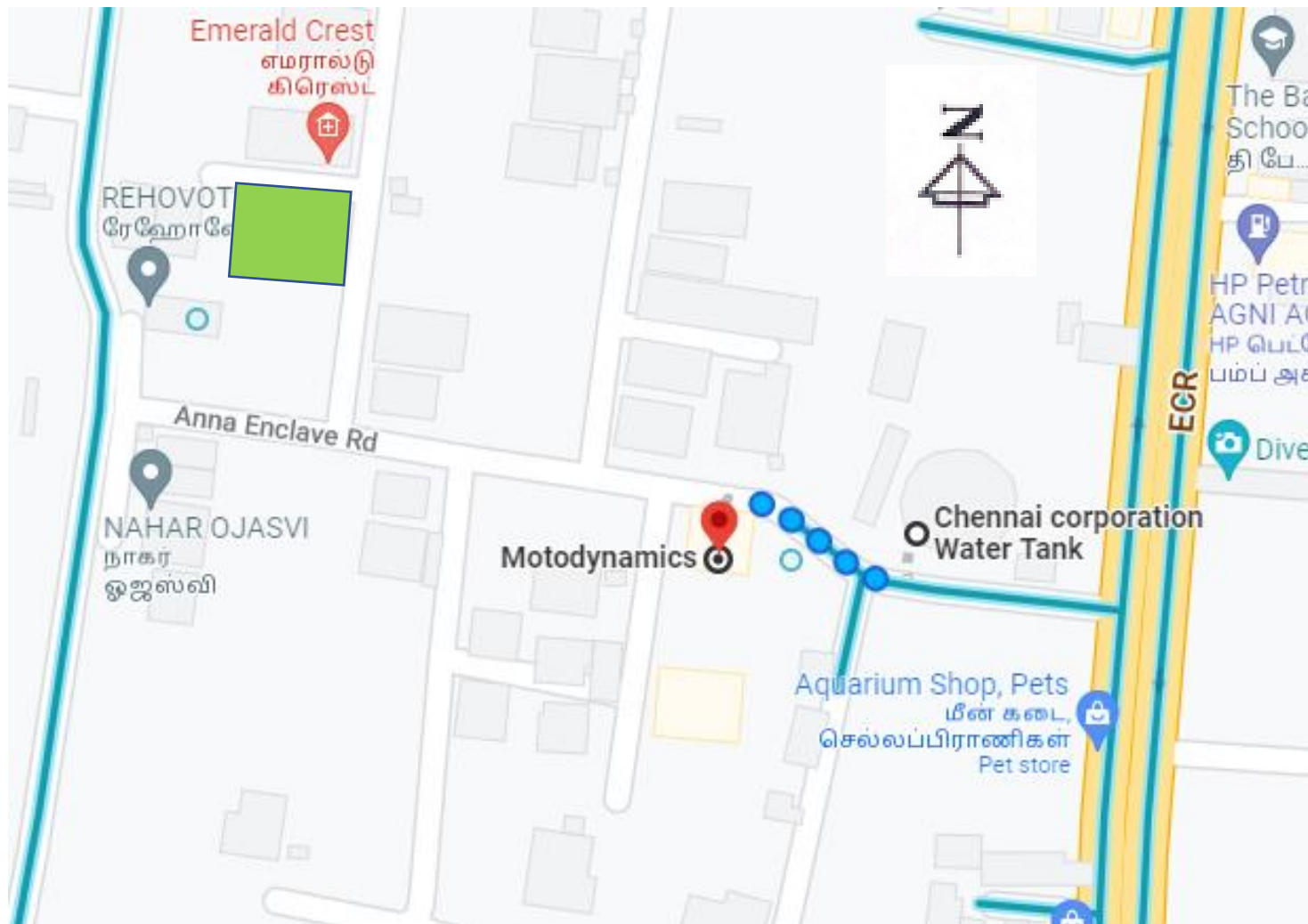
Buildings have potential lives spanning hundreds of years. What is being built now could affect the next generations. To build for maximum energy, water, materials and waste efficiency is to place an unacceptable burden on future generations.

DESIGN YOUR BUILDING AND ITS SURROUNDINGS RESPONSIBLY.

PARAM RESIDENCE



NAME OF THE PROJECT	PARAM
PROJECT TYPE	RESIDENCE
LOCATION	INJAMBAKKAM , CHENNAI
PLOT AREA	6000.87 sq.ft
SITE SURROUNDINGS:	
NORTH	CHESTNUT AVENUE ROAD AND G+3 APARTMENT
SOUTH	EMPTY PLOT
EAST	ROAD AND A EMPTY PLOT
WEST	G+2 RESIDENCE



SITE WITH EXISTING TREES

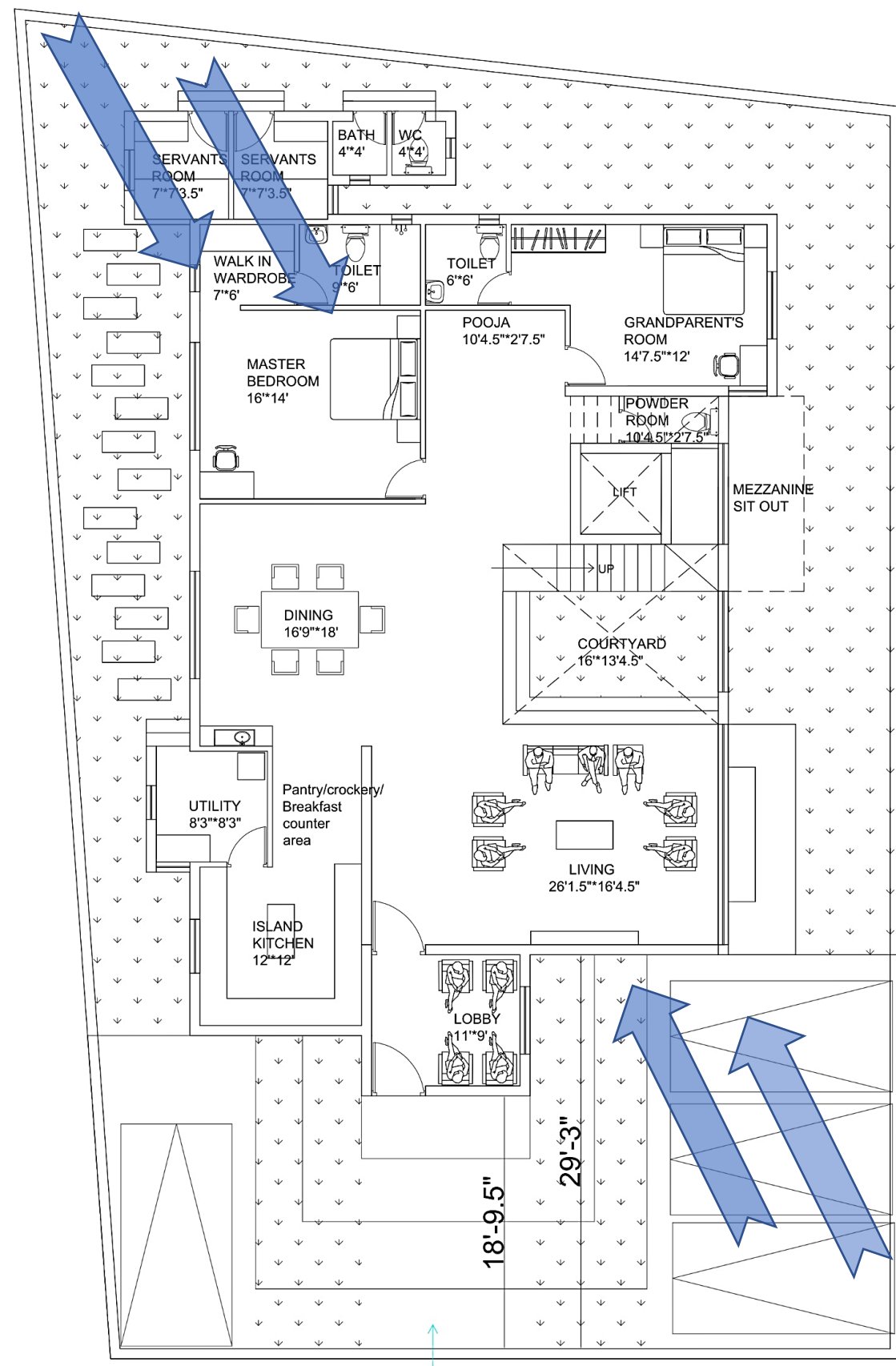
PROJECT REQUIREMENT

LAWN
4 CAR PARKS
LIFT
SERVANT ROOM (2)

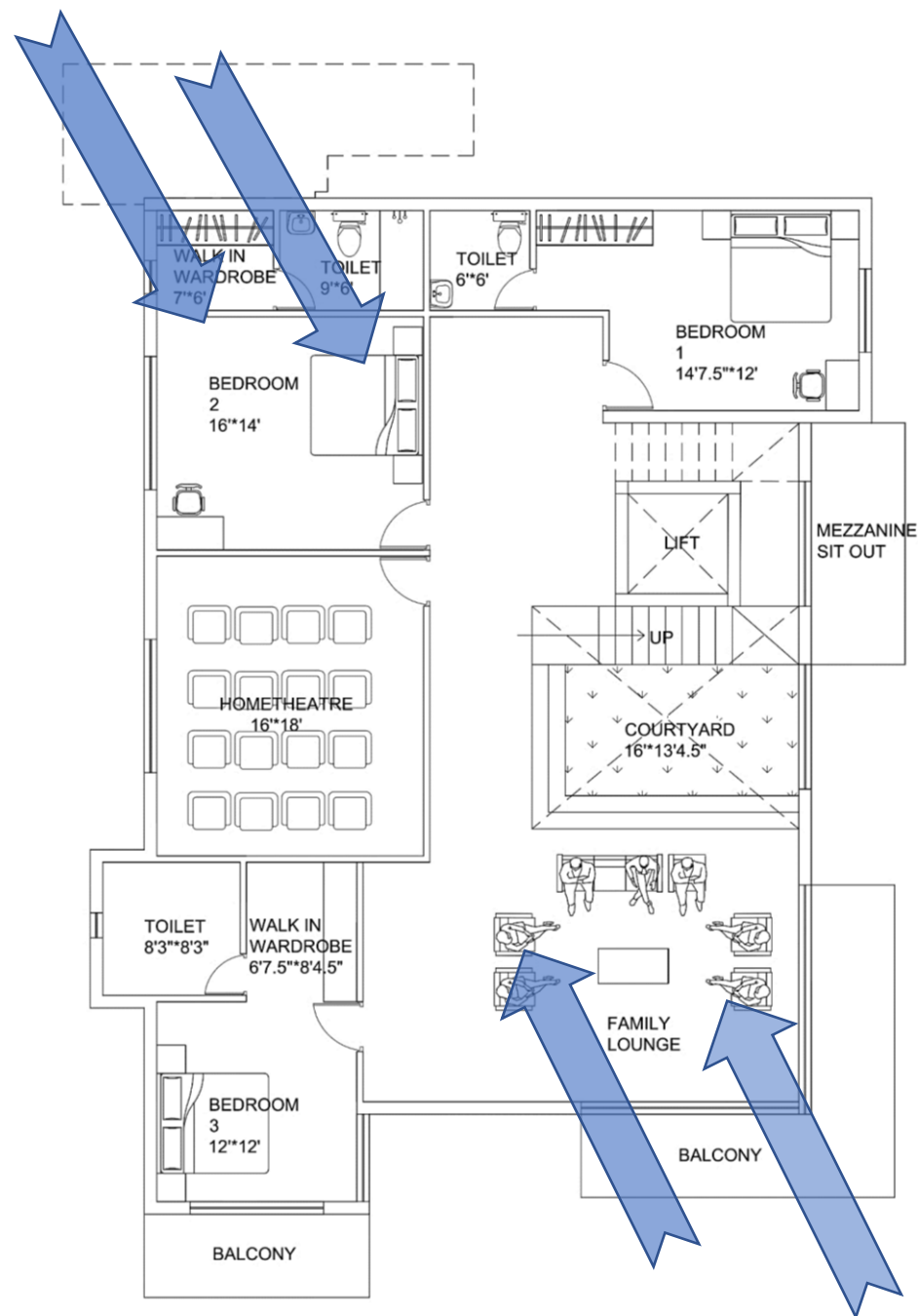
GROUND FLOOR
LIVING
DINING
KITCHEN & UTILITY
MASTER BEDROOM + WIW
GUEST ROOM
POWDER ROOM

FIRST FLOOR
BEDROOM +WIW+
BALCONY
2 GUEST ROOM
HOME THEATRE

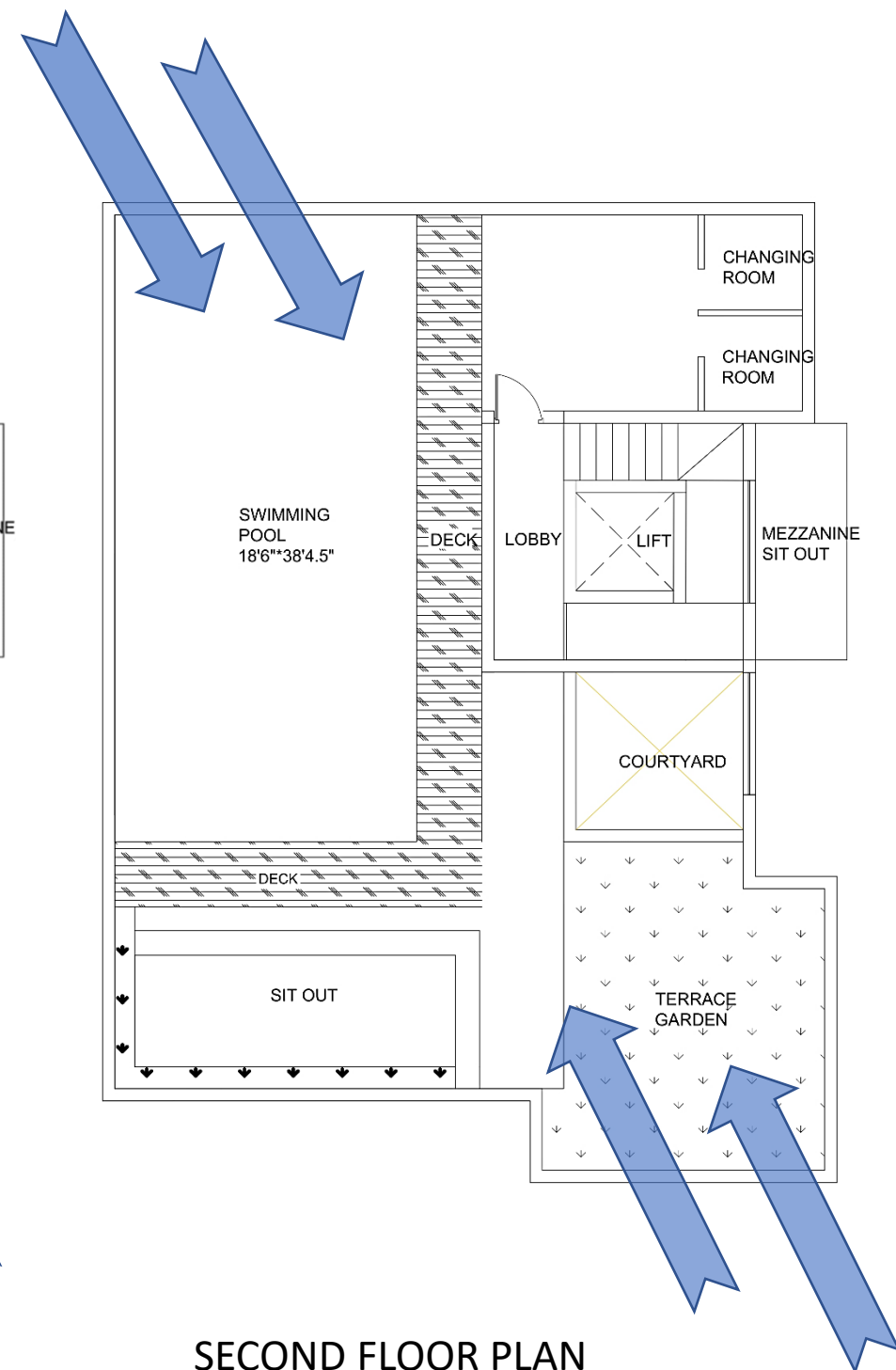
SECOND FLOOR
POOL + LAWN



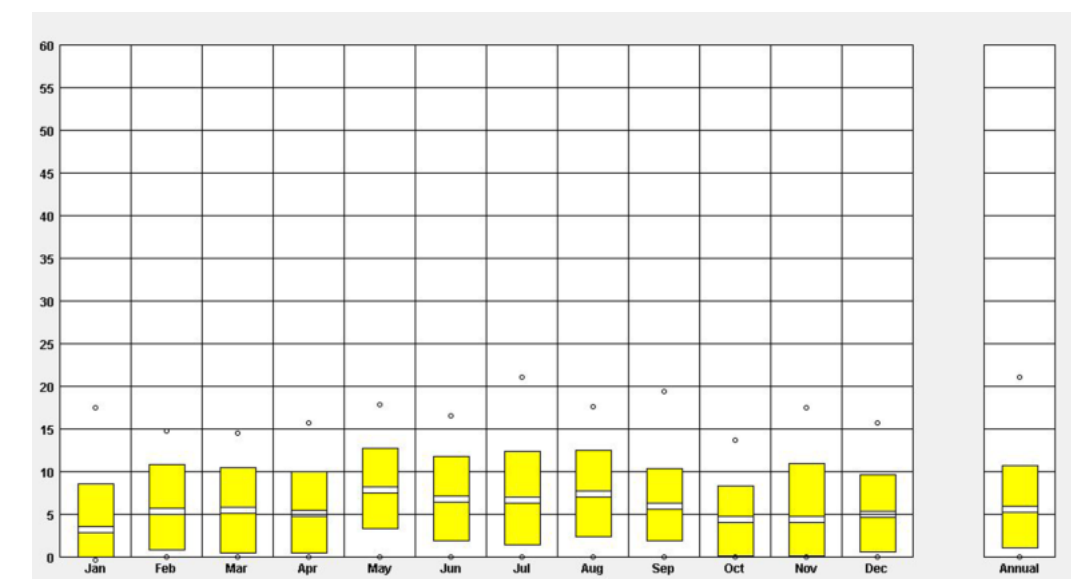
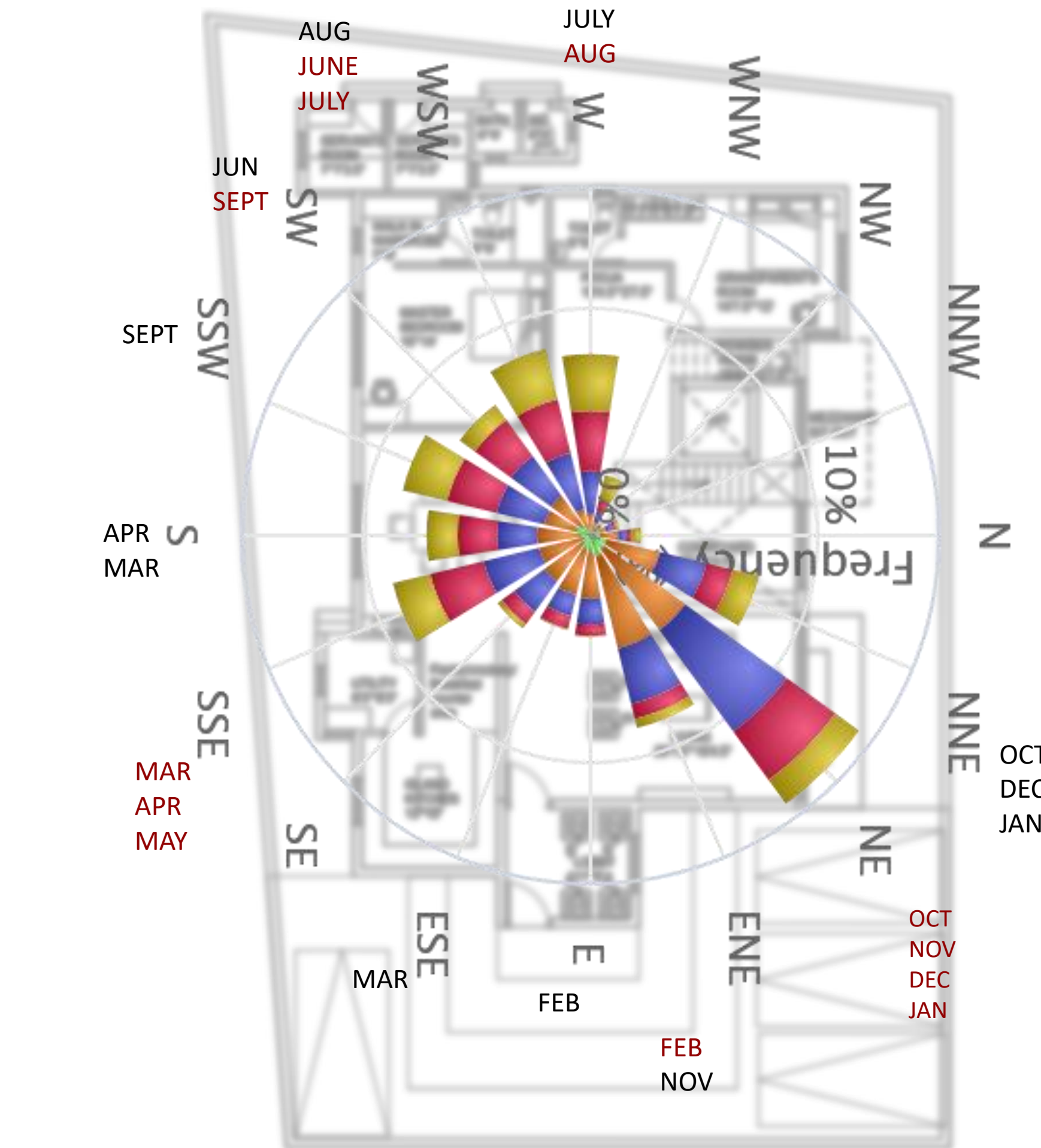
SITE CUM GROUND FLOOR PLAN



FIRST FLOOR PLAN

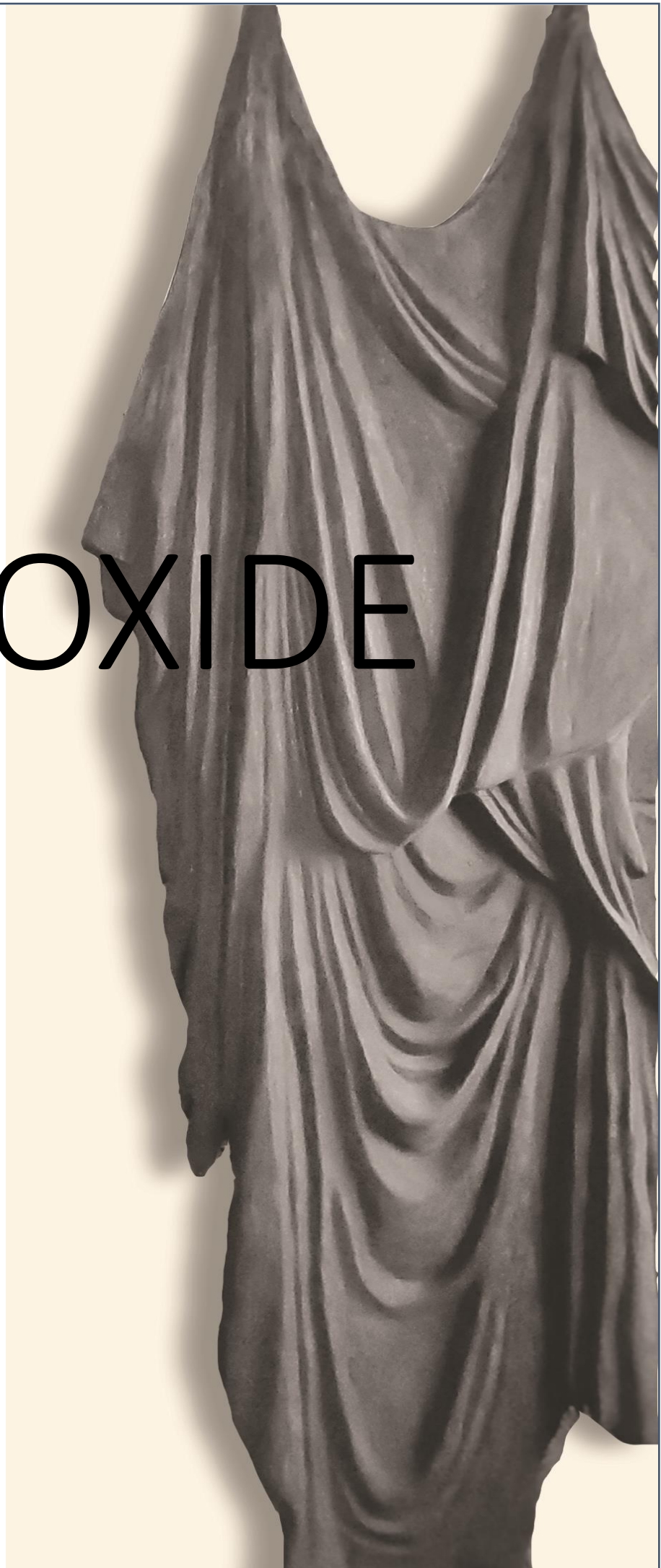


SECOND FLOOR PLAN



Wind, prevailing	NE	ENE	SSE	SSE	SSE	WSW	WSW	W	SW	NE	NE	NE
Wind, secondary	NNE	E	ESE	S	S	SW	W	WSW	SSW	NNE	ENE	NNE
Months	J	F	M	A	M	J	J	A	S	O	N	D

CLOTHCRETE WITH OXIDE FINISH



Day 1:

- 01 Fix Rings
- 02 Find waste cotton cloth
- 03 Dip cloth in cement slurry
- 04 Hang the cloth
- 05 Correct and adjust the creases
- 06 Let it dry



• Get some J hooks and fix them on the ceiling.



- Make the necessary adjustments to enhance the creases
- Make sure there are no creases very close to each other[keep min.2 cm gap]

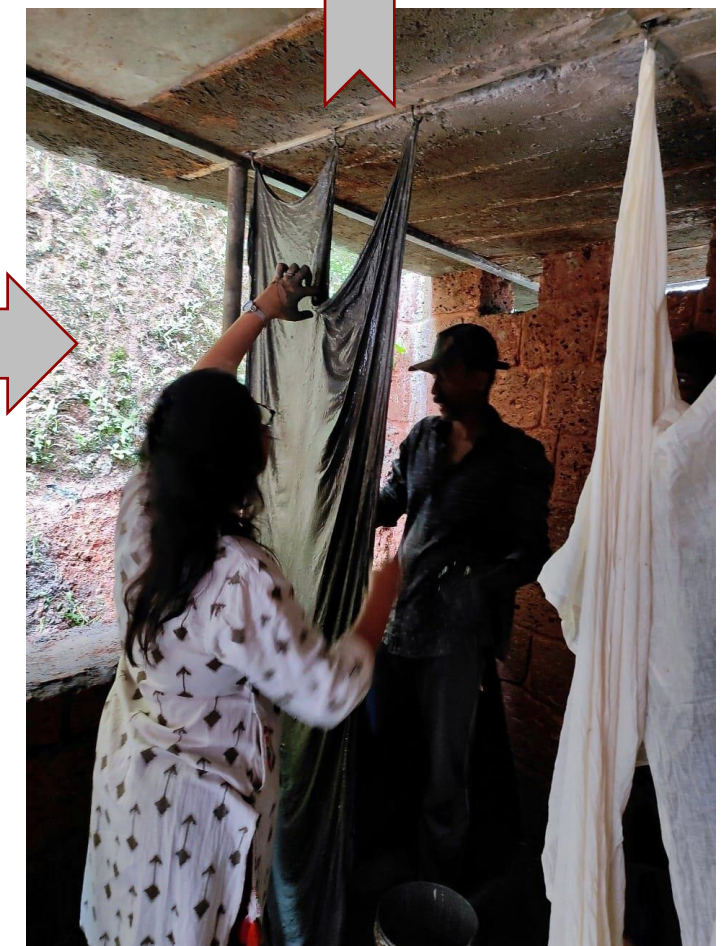


- Hang the cloth from the hooks.
- Let the cloth take over, it should form natural creases.

- Any thin Cotton Cloth will be accurate to work with
- The cloth shown in this pic is Kora Tunni [waste cloth]



- Mix one kg cement in half bucket of water.
- Dip the dry cloth into the bucket and let the cloth get covered completely with cement slurry



Day 2:

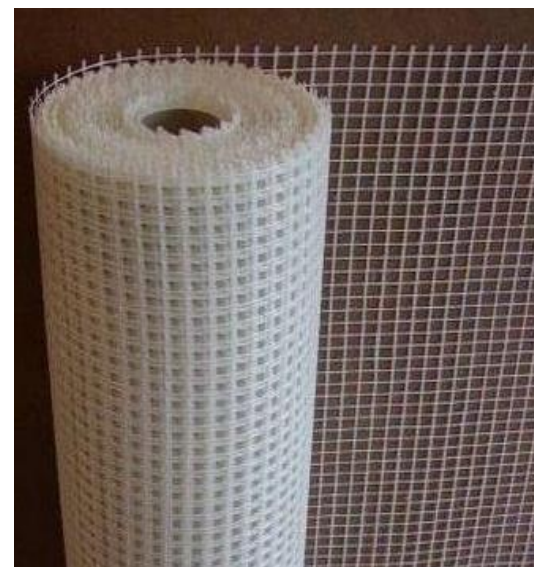
01 Add Reinforcement bars

02 Stick fibre mesh

03 Let it dry



- Add some reinforcement bars for additional supports wherever required.
- There is no need to space them in equal intervals. Just add where there is a need felt.



- Fibre mesh gives a bit more stiffness to the cloth and makes the whole set up little more sturdy.
- Apply Fevicol SR 998 Synthetic Adhesive on the dried cloth surface and place bits of the fibre mesh cut in shape.

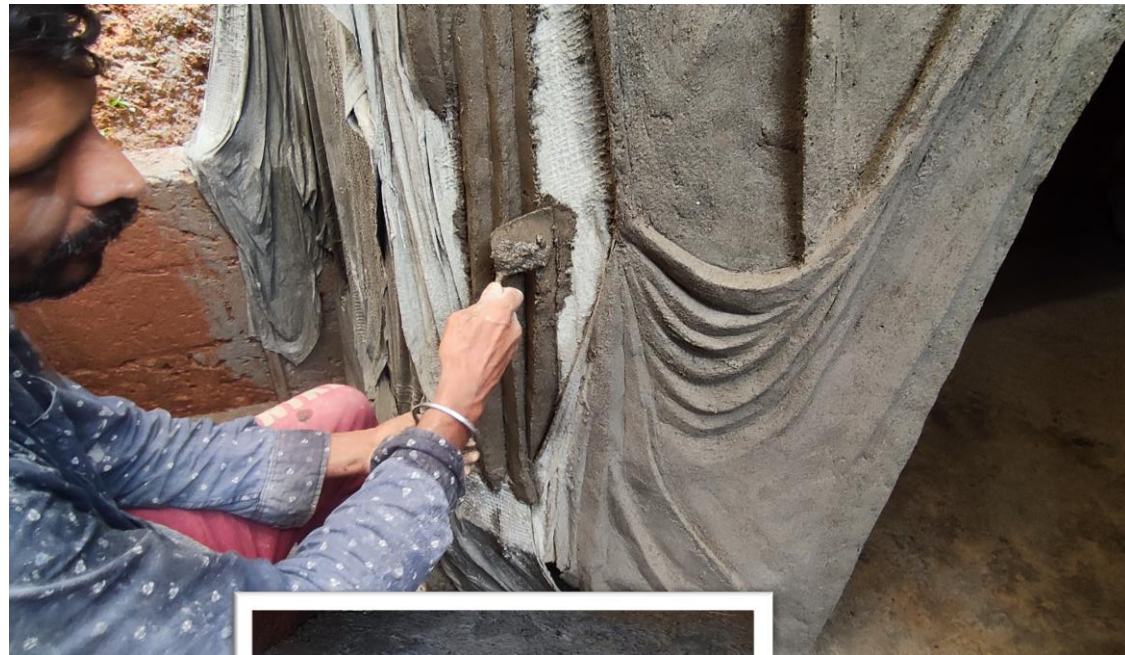
- Let the gum and mesh stick properly and dry for 4-5 hrs.

Day 3:

01 Apply cement plaster

02 Make the creases prominent

03 Let it dry



- Mix cement and p.sand [1:5] and water.
- Apply a 2-3cm thick plastering coat over the meshed cloth.



- Work around the creases in such a way that they look delicate and natural.
- This is the most crucial stage. Care should be taken that the curves look natural and are just imitations of the original creases.



- Let the plastered surface dry well for 8-10 hrs

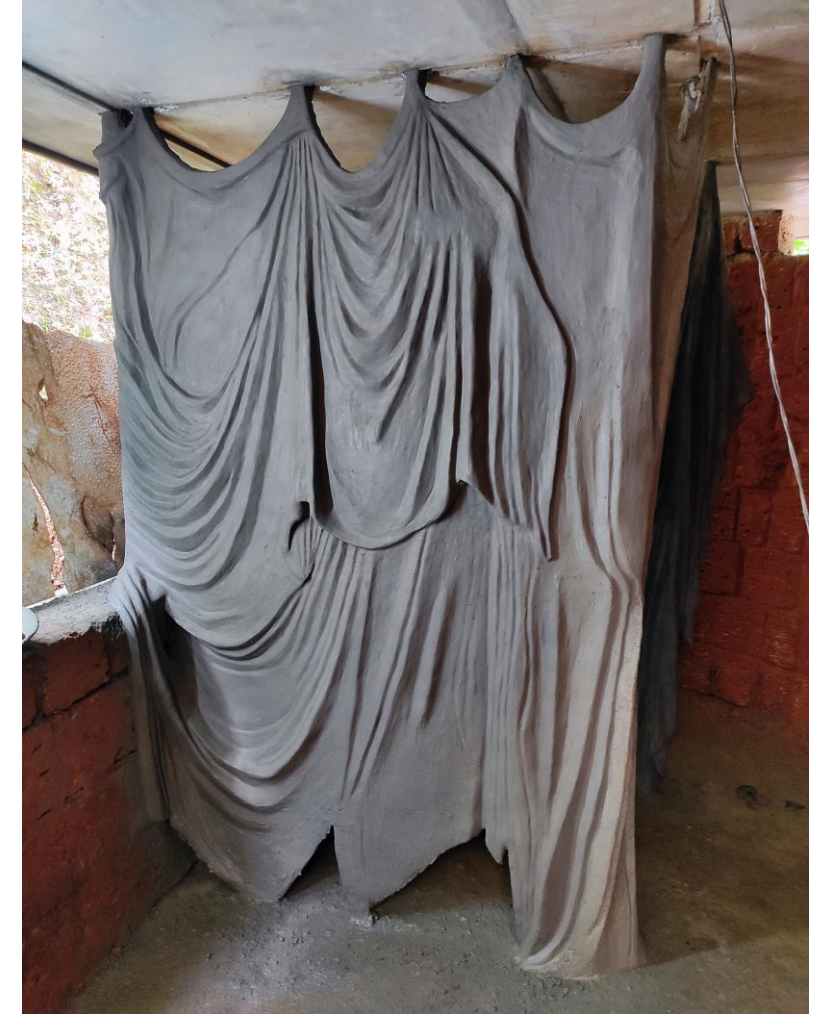
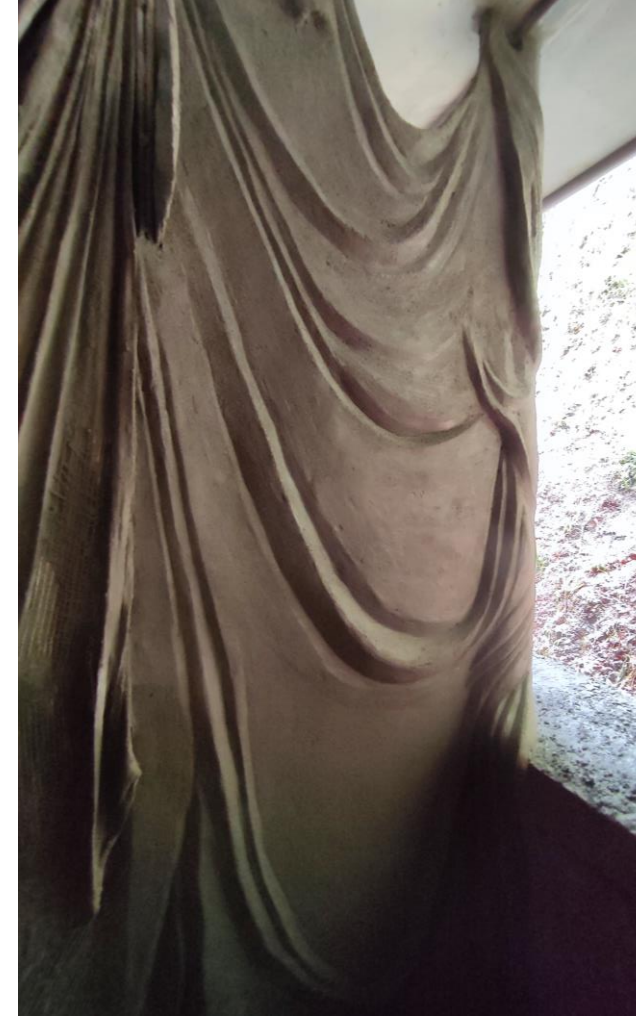
Day 4:

01 Mix Oxide

02 Apply a coat of oxide

03 Work well with a trowel

04 Let it dry



- Dry mix Oxide and Cement[1:5] very well.
- Add little water to make it a slurry.
- Mix well with putty blending machine for 20 mins.

- Apply a generous coat of oxide[any colour of your choice] on the plastered surface.

- Work well with a trowel once the oxide is semi-dry.
- Make sure a smooth and soft look is achieved at the end of this step.

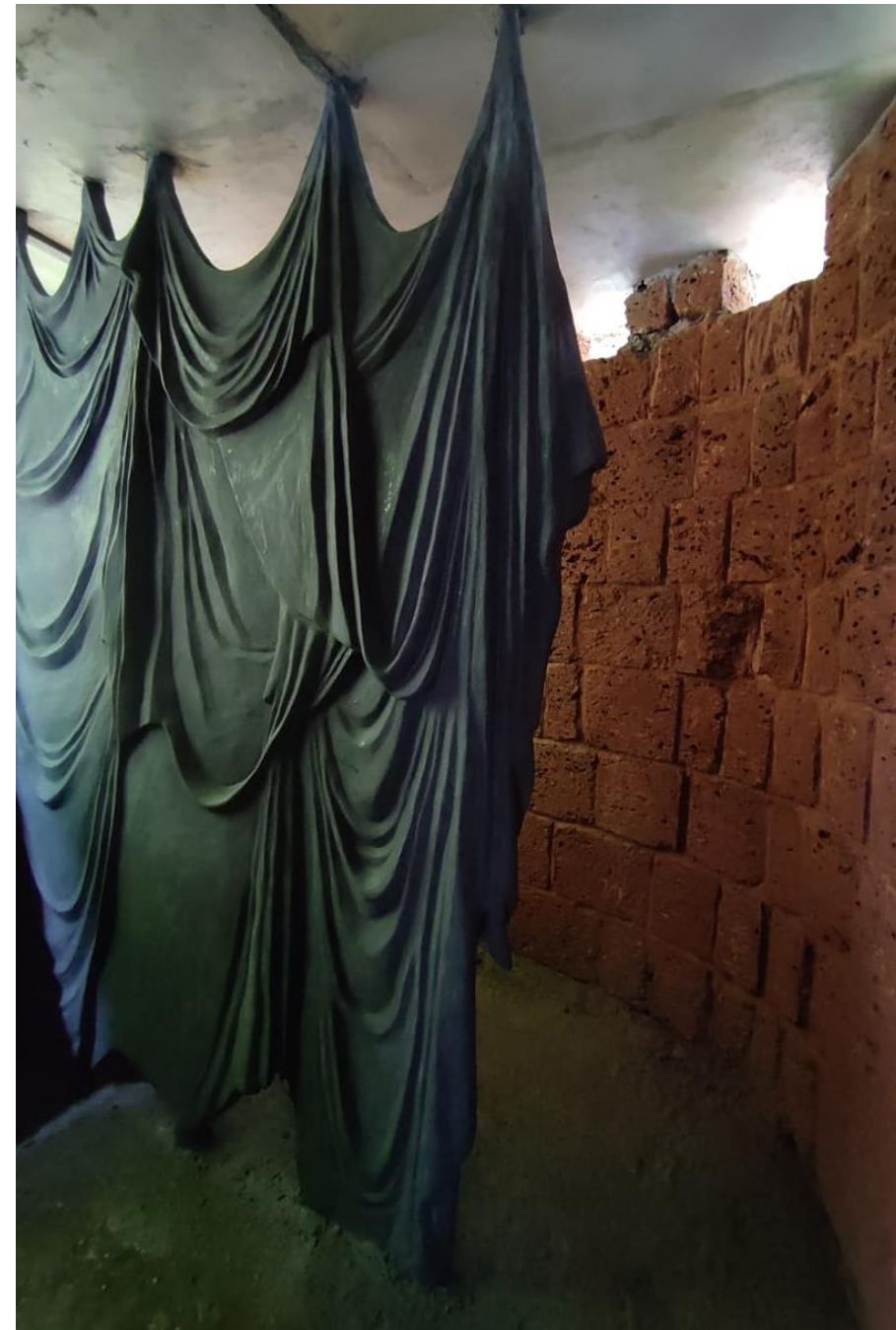
- Let your Clothcrete wall dry for 8-12 hrs.

Day 5 to 25:

01 Curing with clean water



- The Final but the most important step is - curing the clothcrete wall.
- Negligence in curing it with fresh water atleast thrice daily might cause surface cracks to occur on oxide.
- Wrap a cotton cloth around the clothcrete wall and keep it wet for almost 14-20 days.



- To give it a better shine and added softness, polishing the wall with mansion polish is recommended

Ideal Clothcrete wall

Should not exceed a thickness of 5-6 cm

Clothcrete wall looks good

If the creases are naturally formed by the cloth

Oxide over clothcrete wall

Gives it the soft look like a cloth has.

While used for seatings

Proper reinforcements and supports should be provided

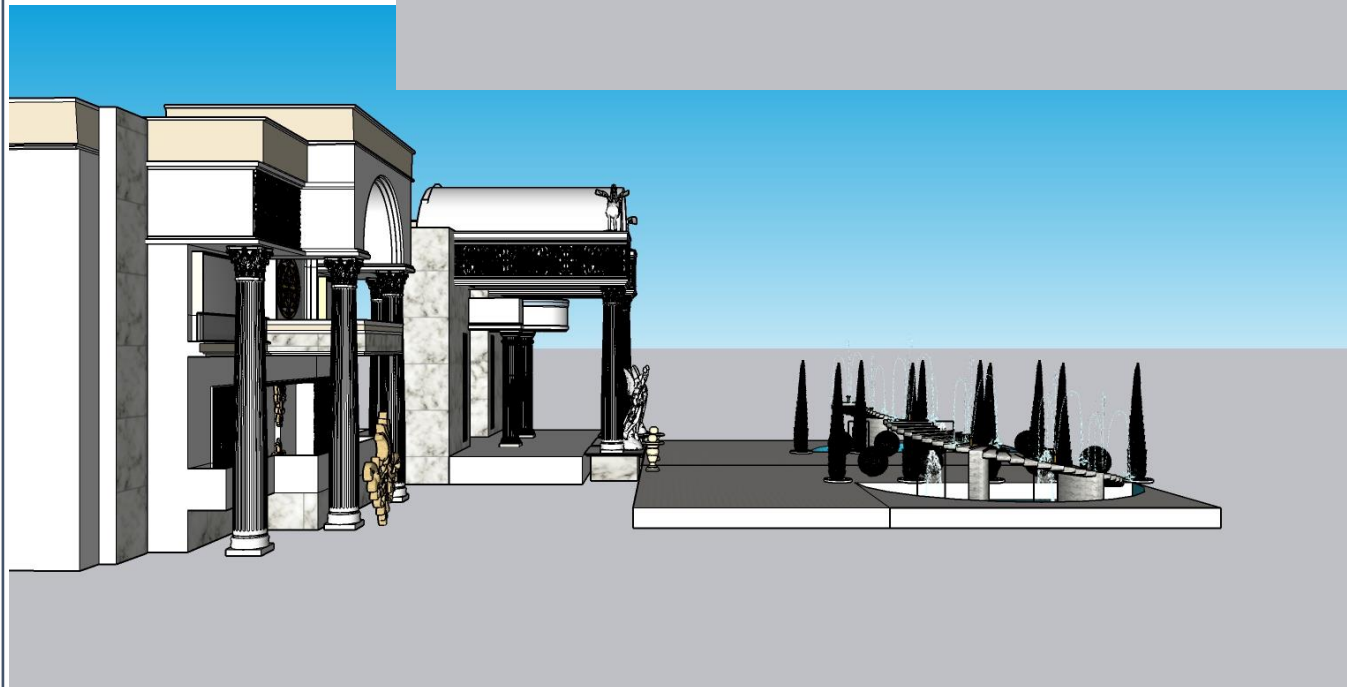
Clothcrete wall [60sqft] uses

Only $\frac{1}{4}$ th[12.5kgs] of a cement bag.

Clothcrete gives you

A huge range of design scope

BUNGALOW

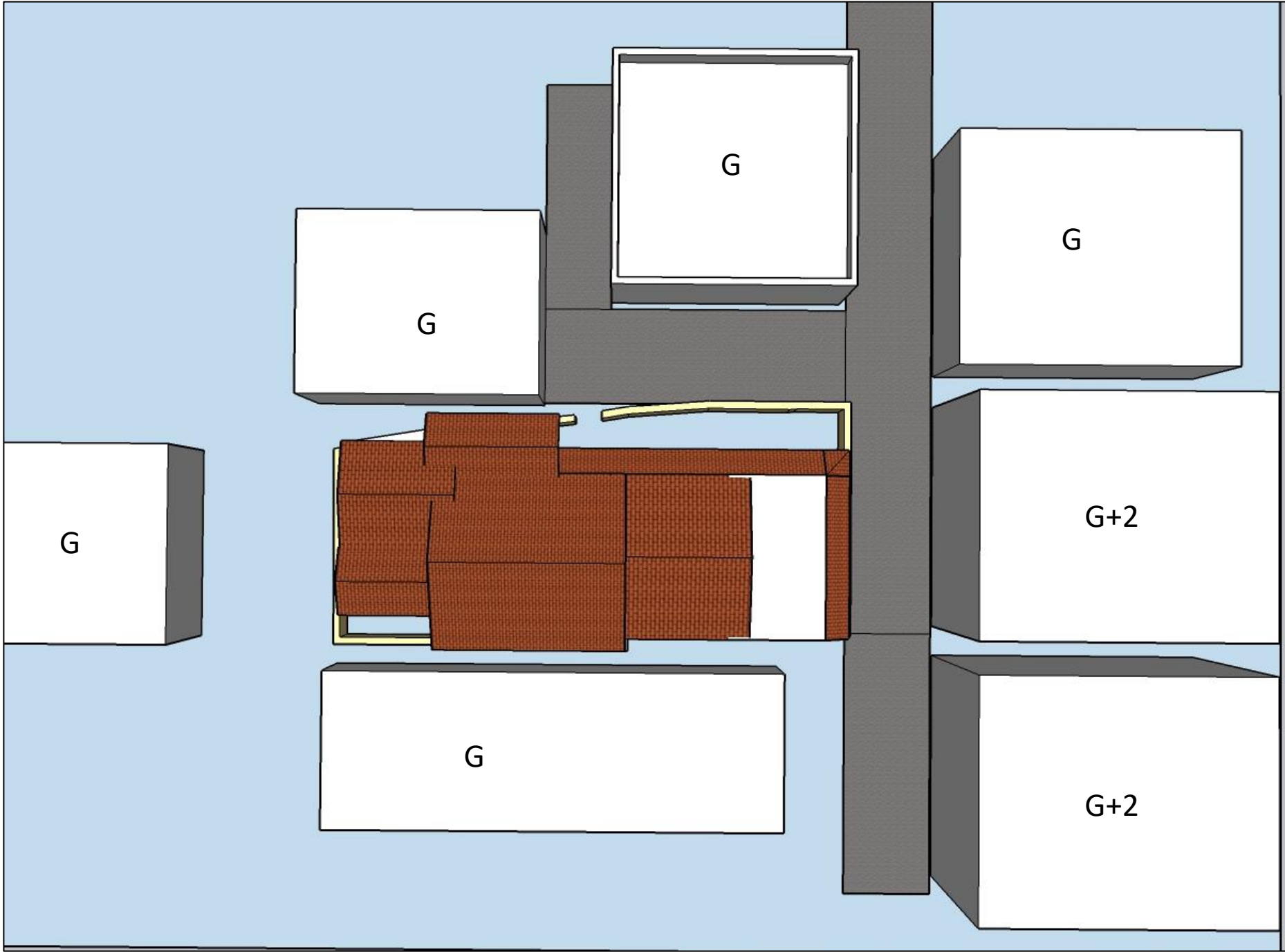


PROPOSED 7 STAR COMMERCIAL BUNGALOW AT OMR CHENNAI.

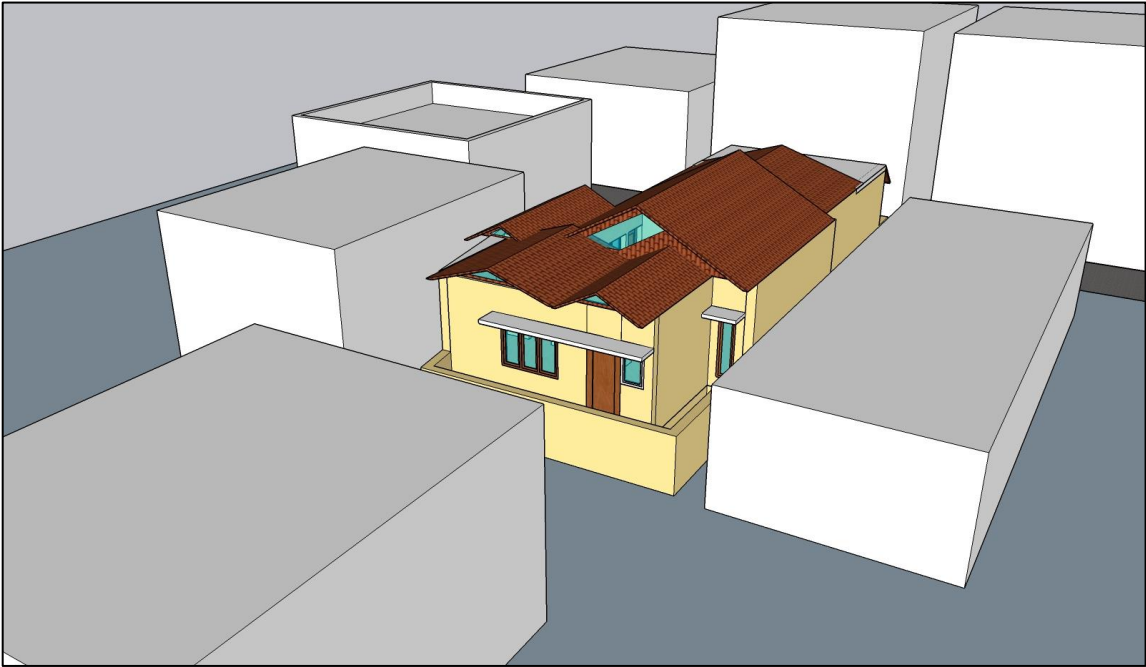
JAYASHREE RESIDENCE

NAME OF THE PROJECT	JAYASHREE ILLAM
PROJECT TYPE	RESIDENCE
LOCATION	PERAMBUR, CHENNAI
PLOT AREA	1600 sq.ft
SITE SURROUNDINGS:	
NORTH	RESIDENCE(G)
SOUTH	RESIDENCE (G+2)
EAST	RESIDENCE (G)
WEST	RESIDENCE (G)

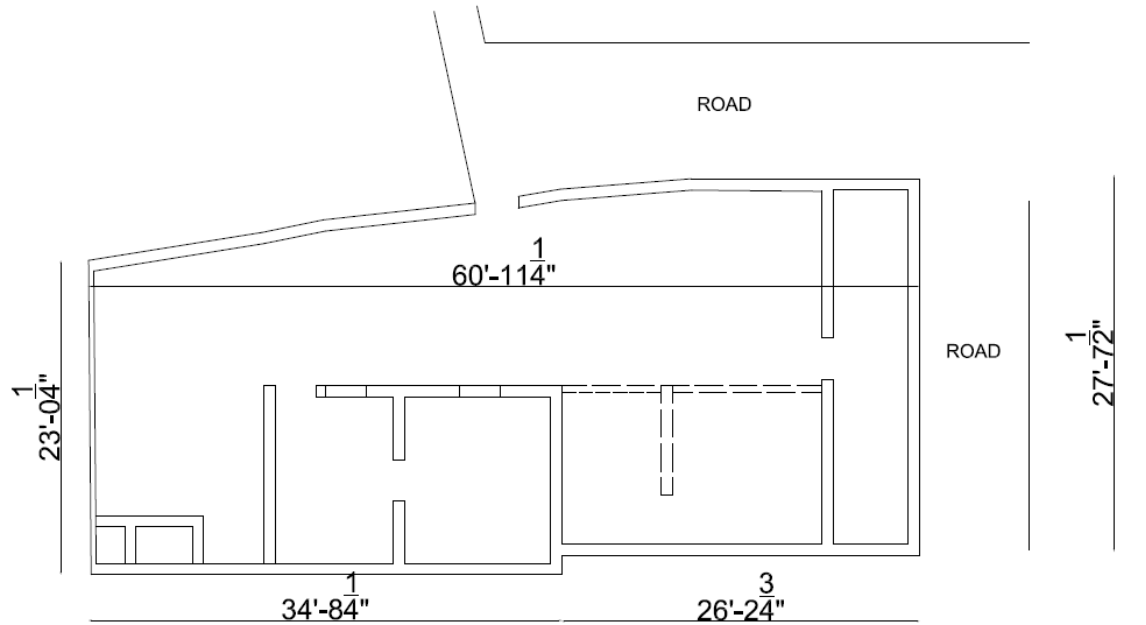
PROJECT REQUIREMENTS
1 CAR PARK
GROUND FLOOR
LIVING CUM DINING
KITCHEN
3 BEDROOMS WITH ATTACHED TOILET



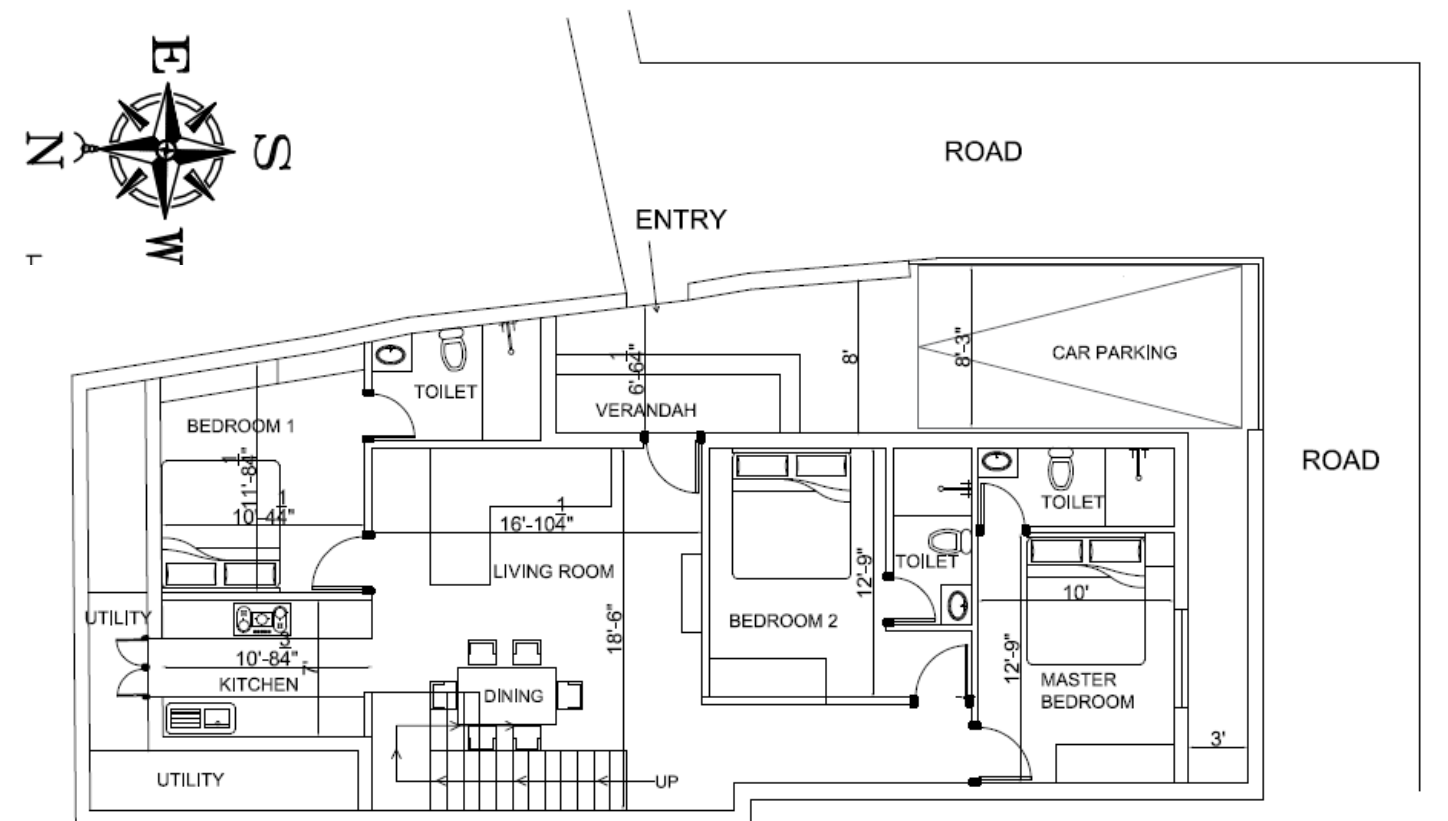
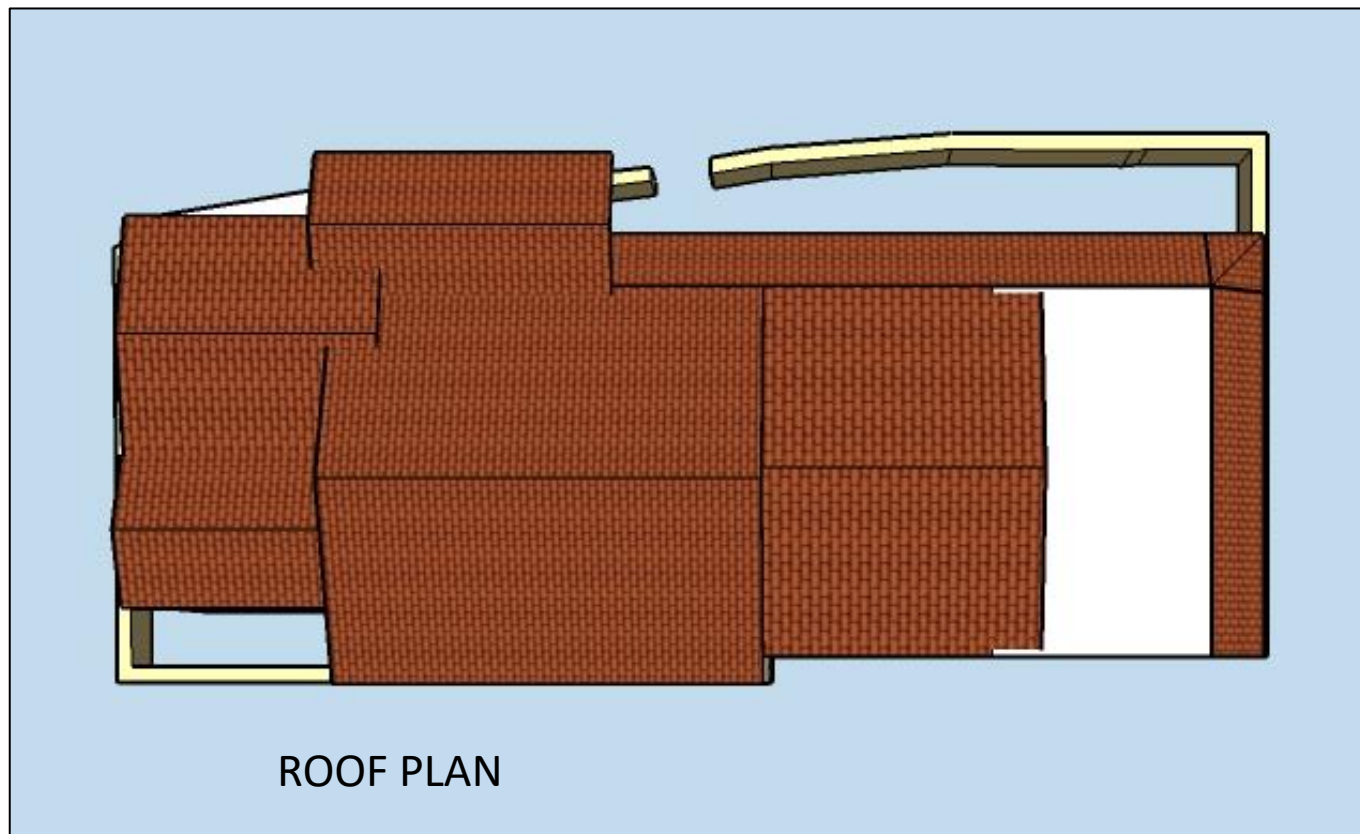
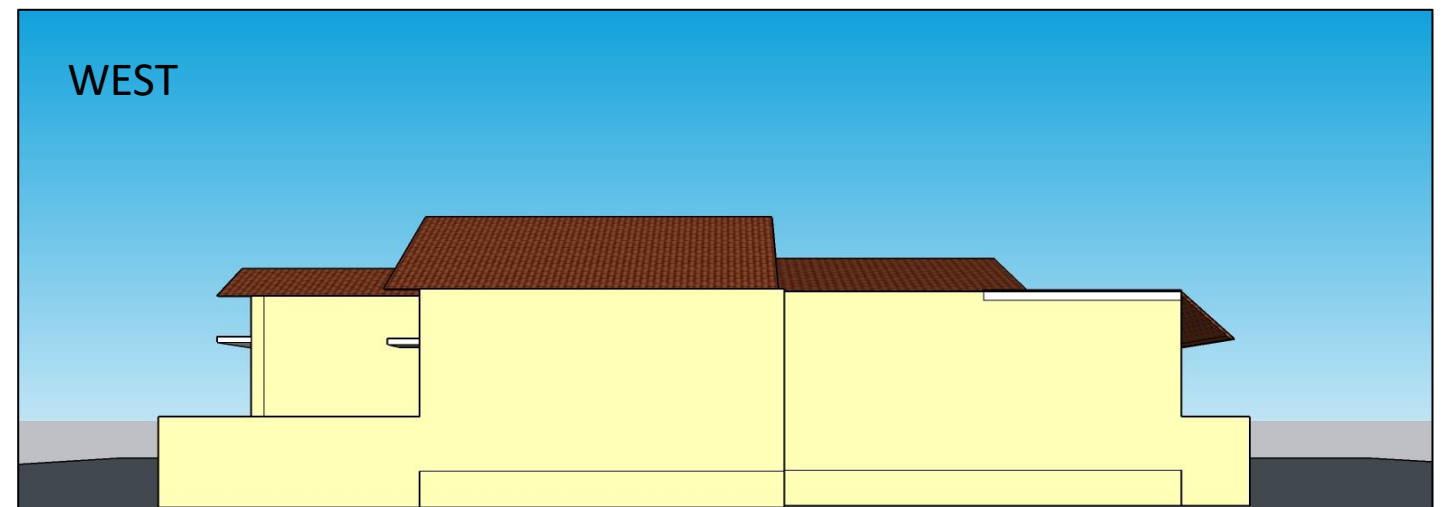
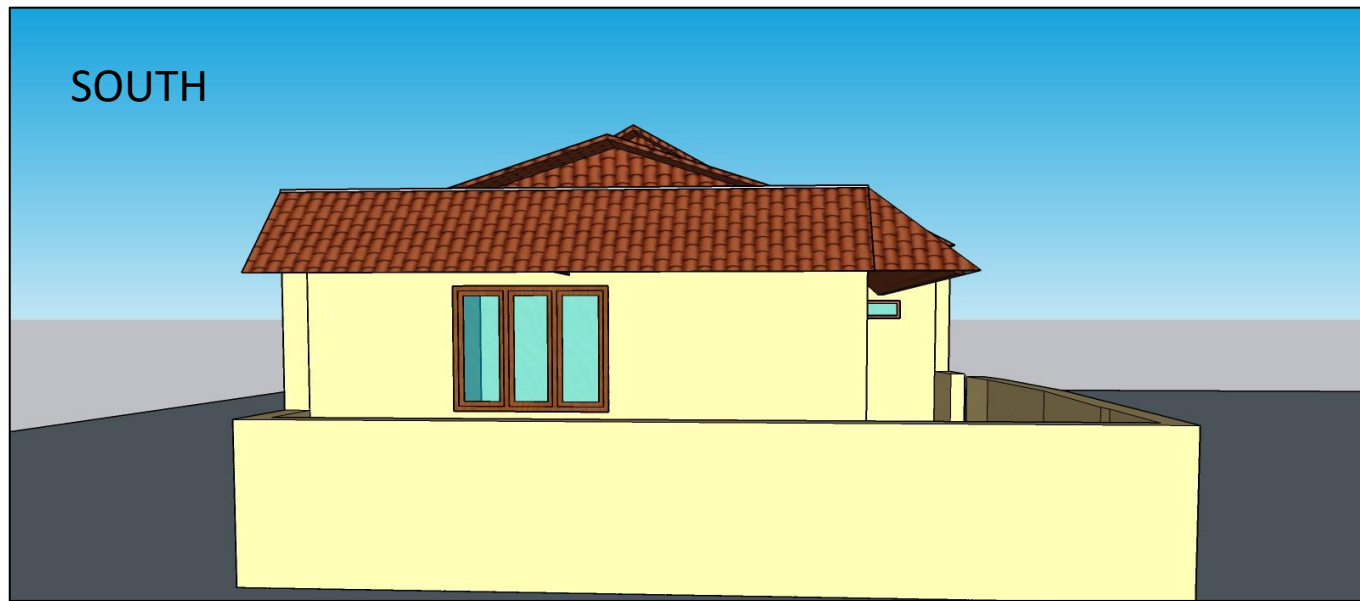
PLAN VIEW WITH SURROUNDINGS

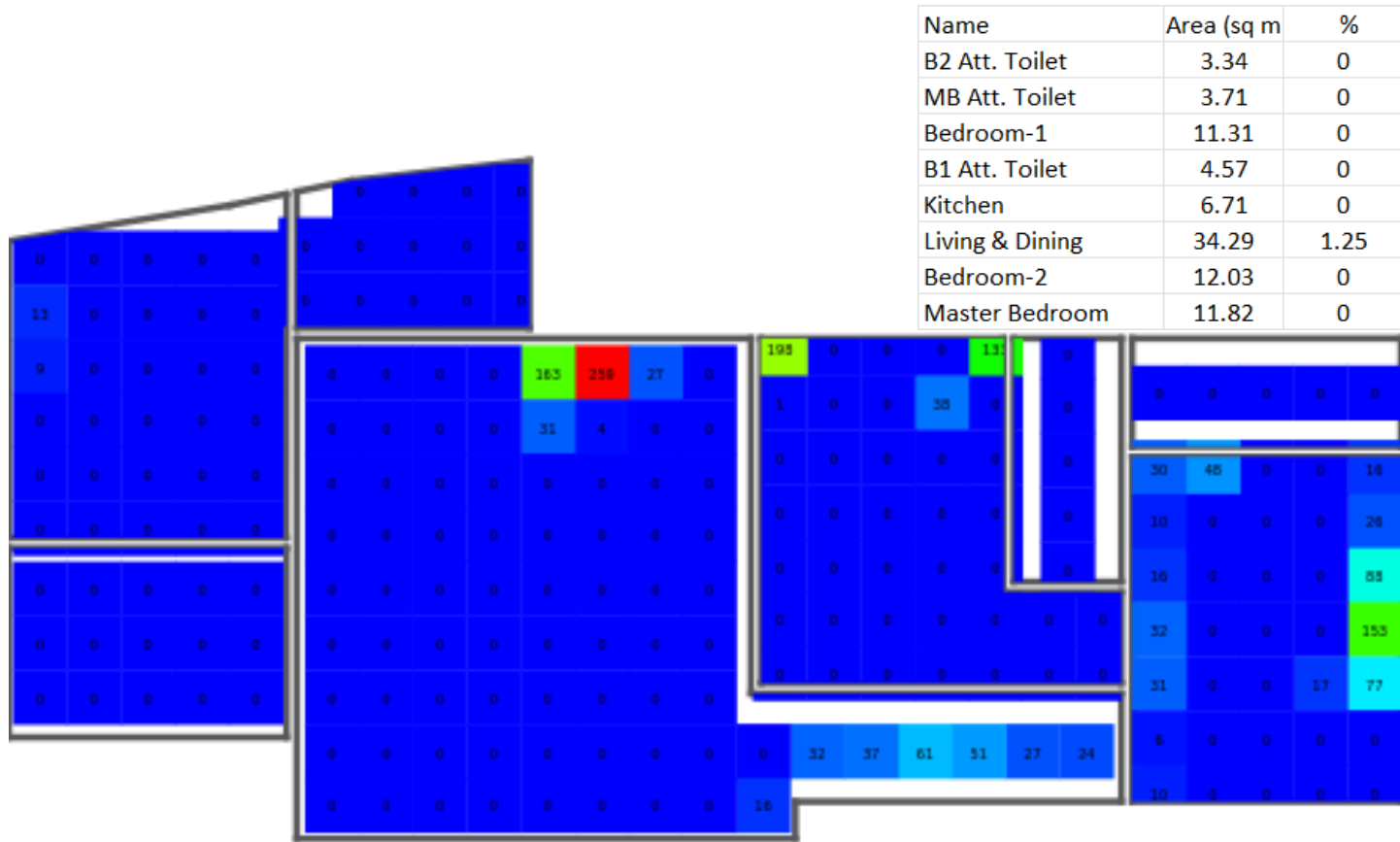


VIEW FROM NORTH WEST

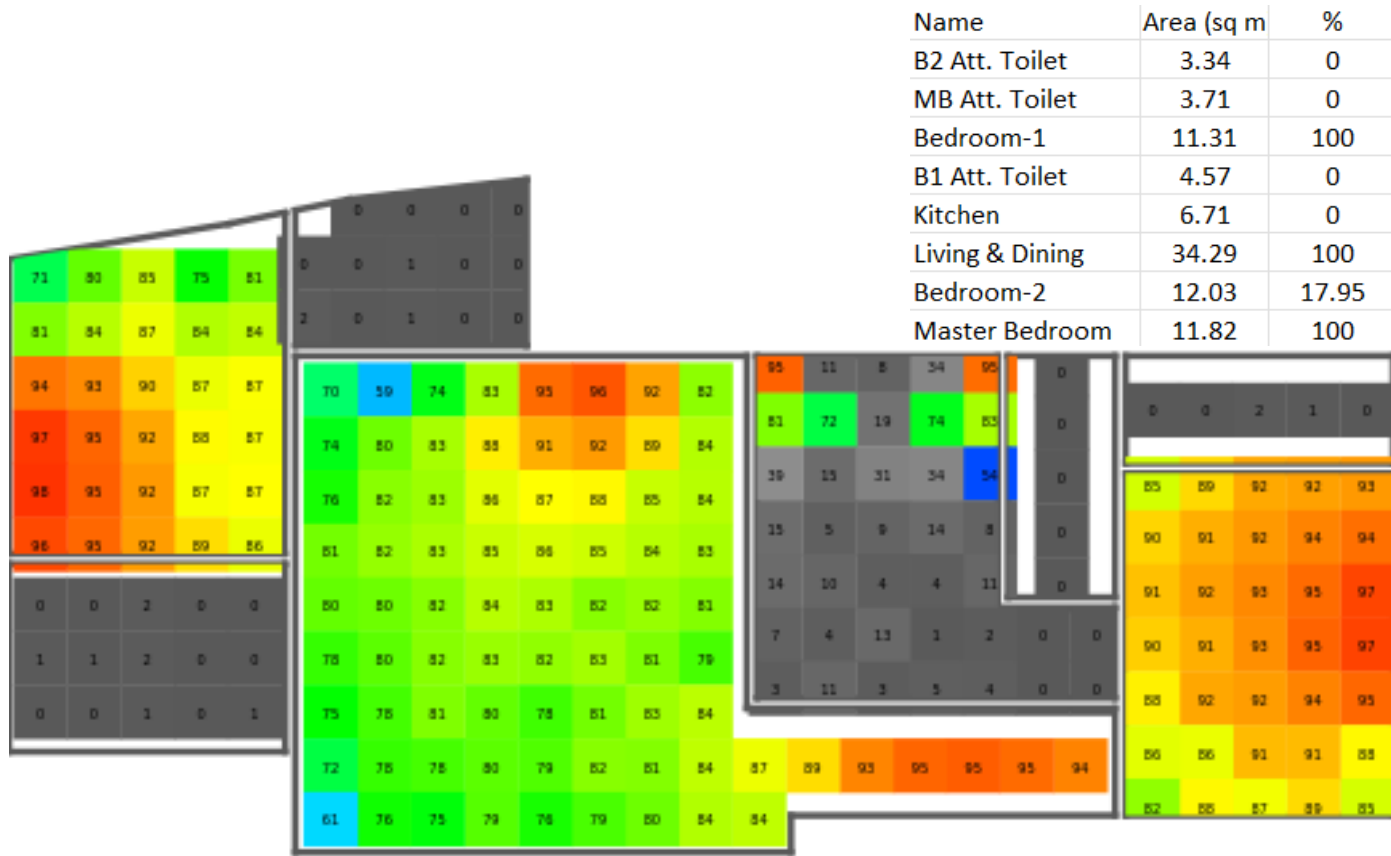


EXISTING PLAN

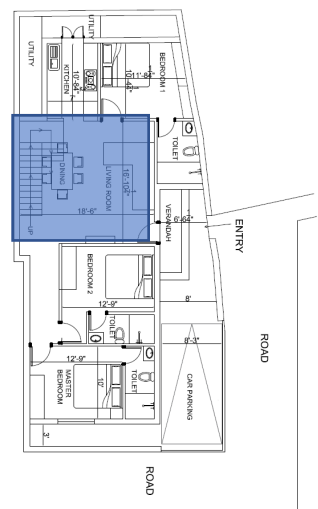
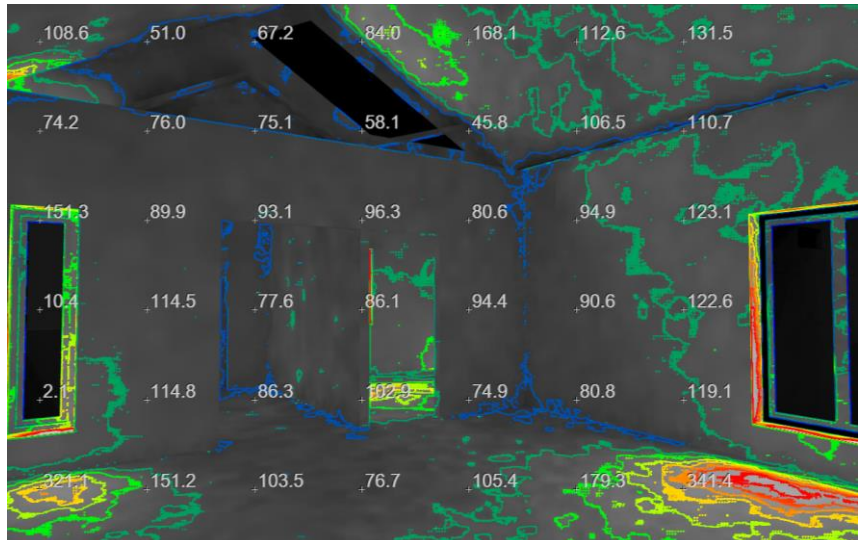
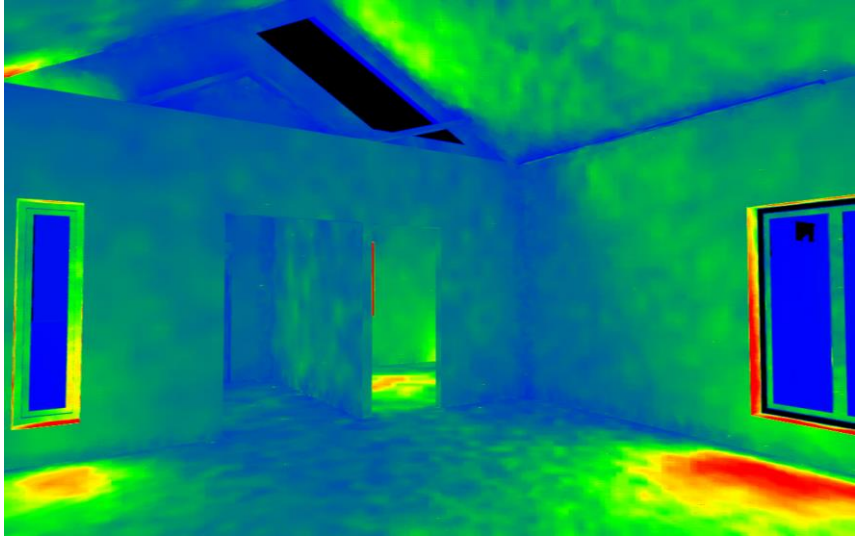
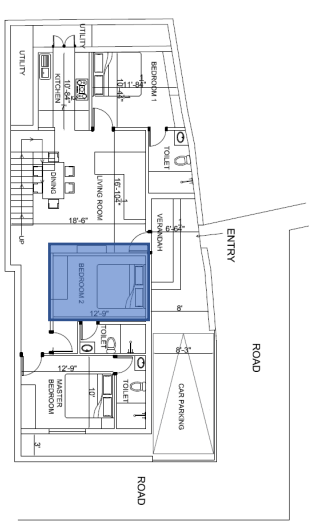
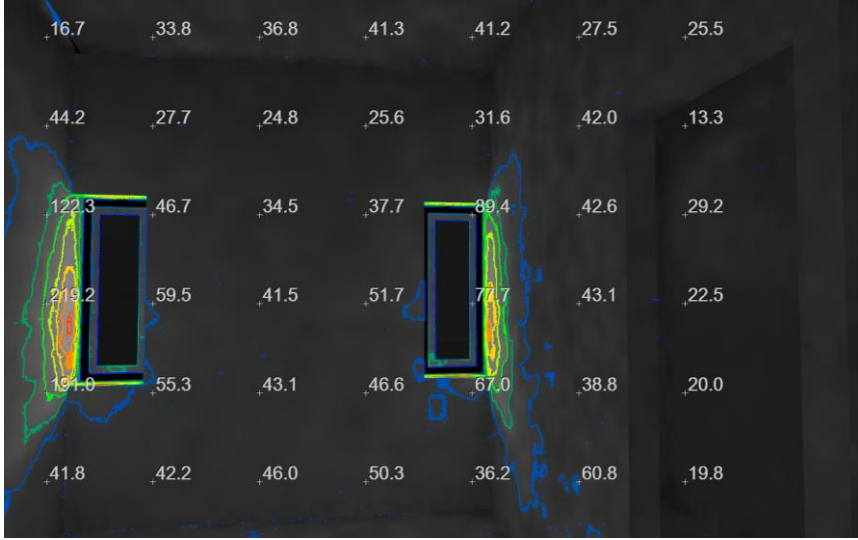
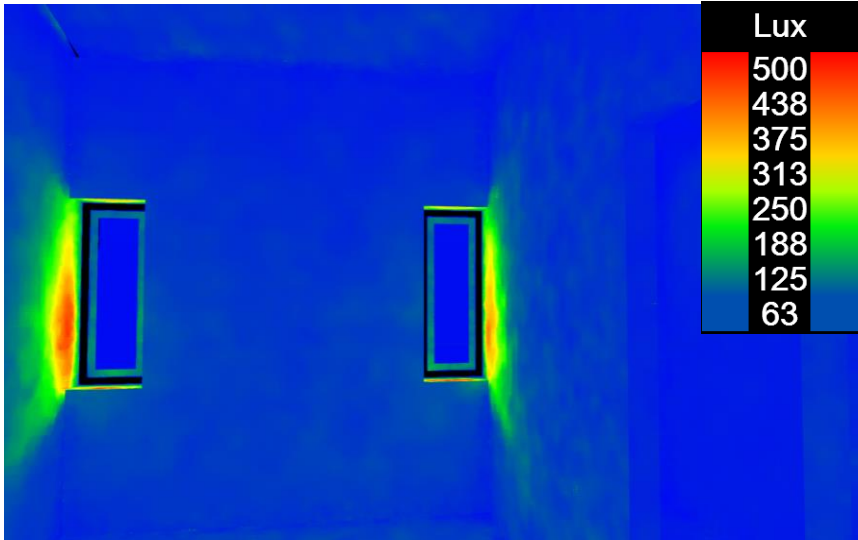




ANNUAL SOLAR EXPOSURE

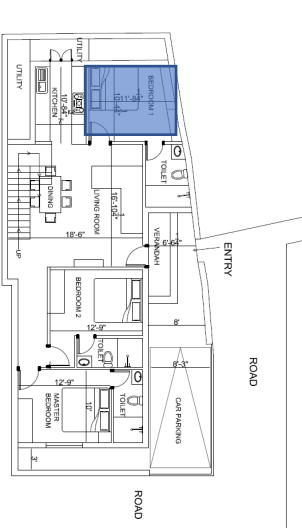
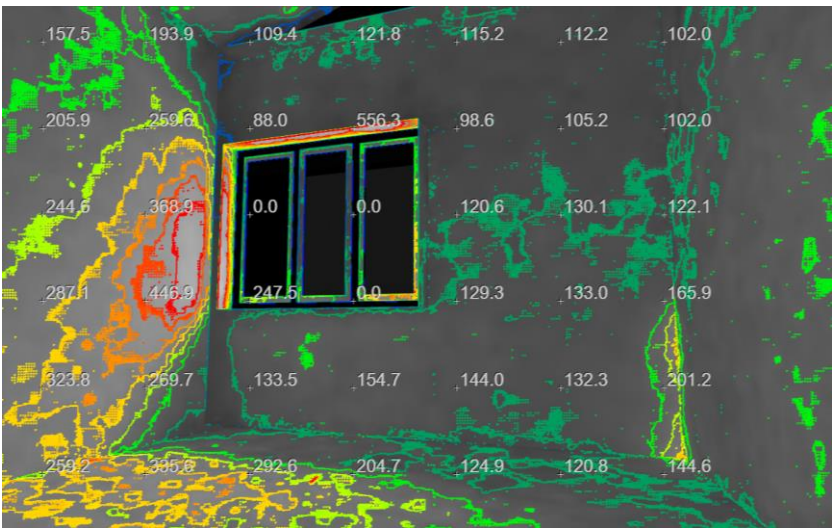
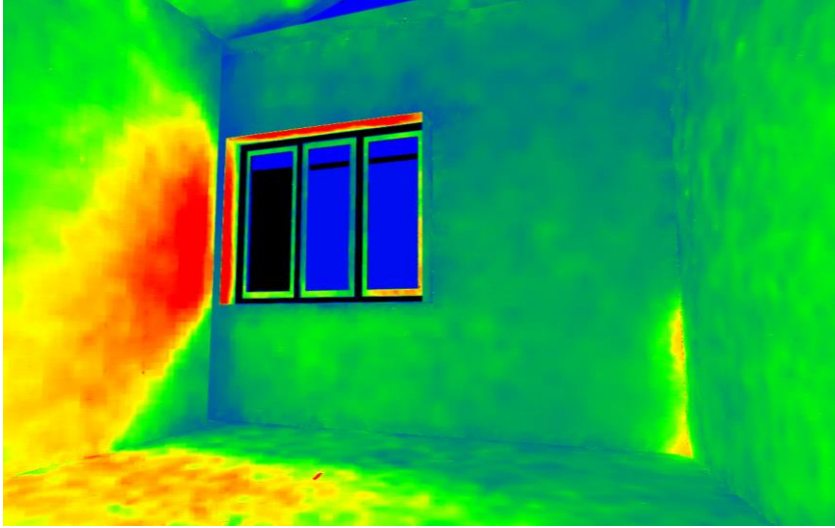


SPATIAL DAYLIGHT AUTONOMY

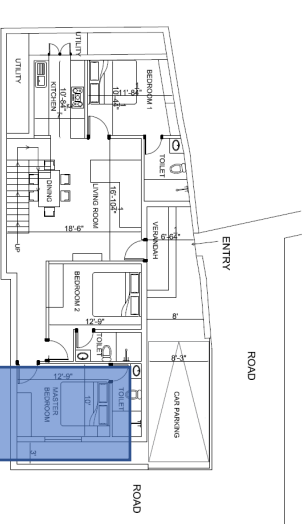
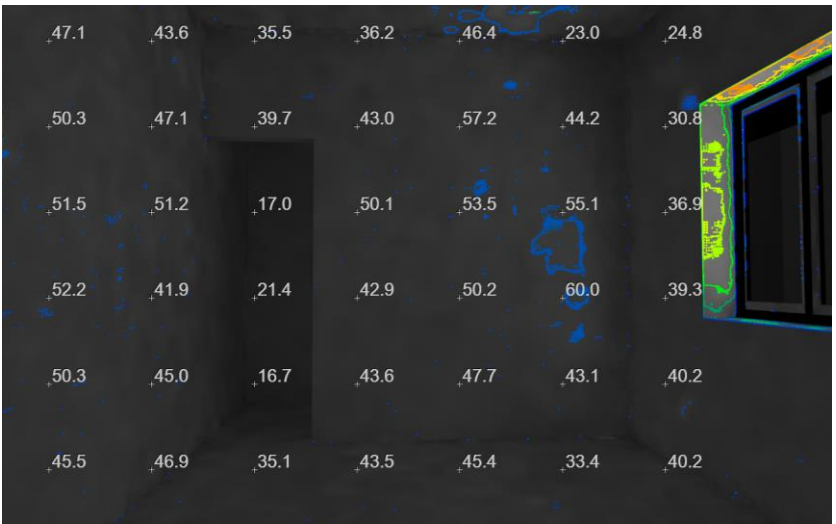
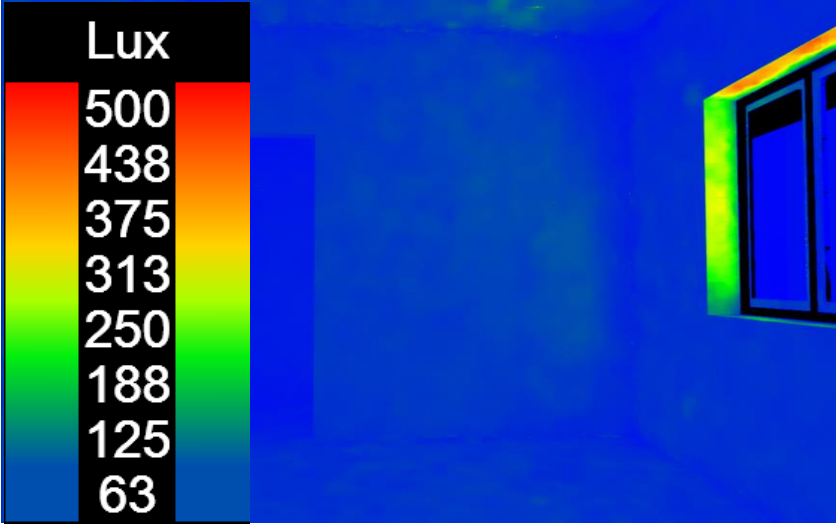




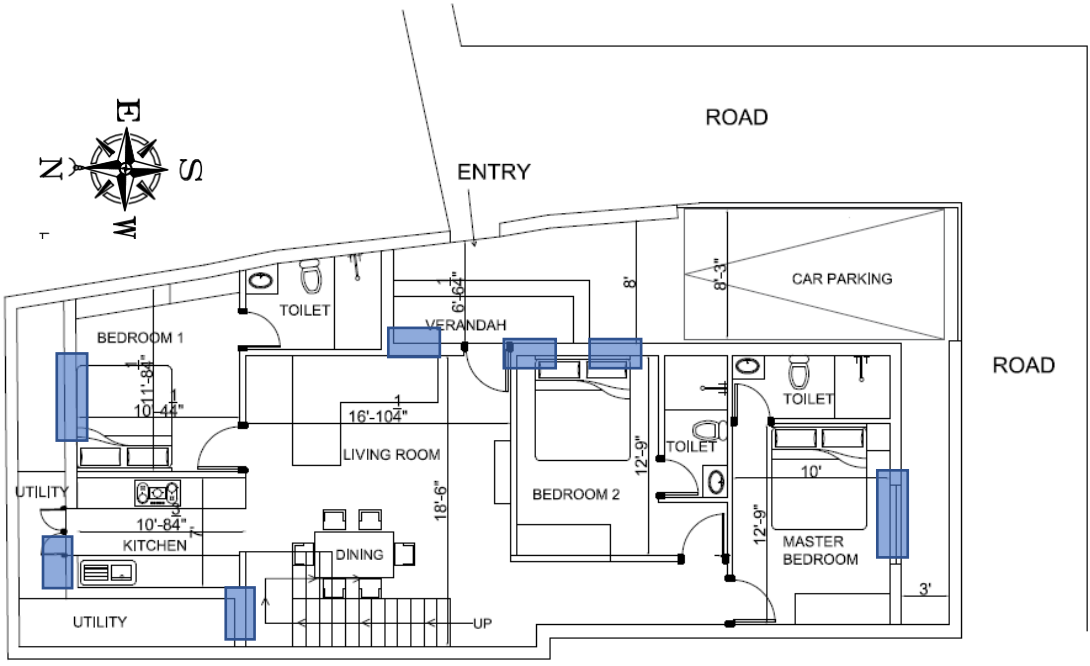
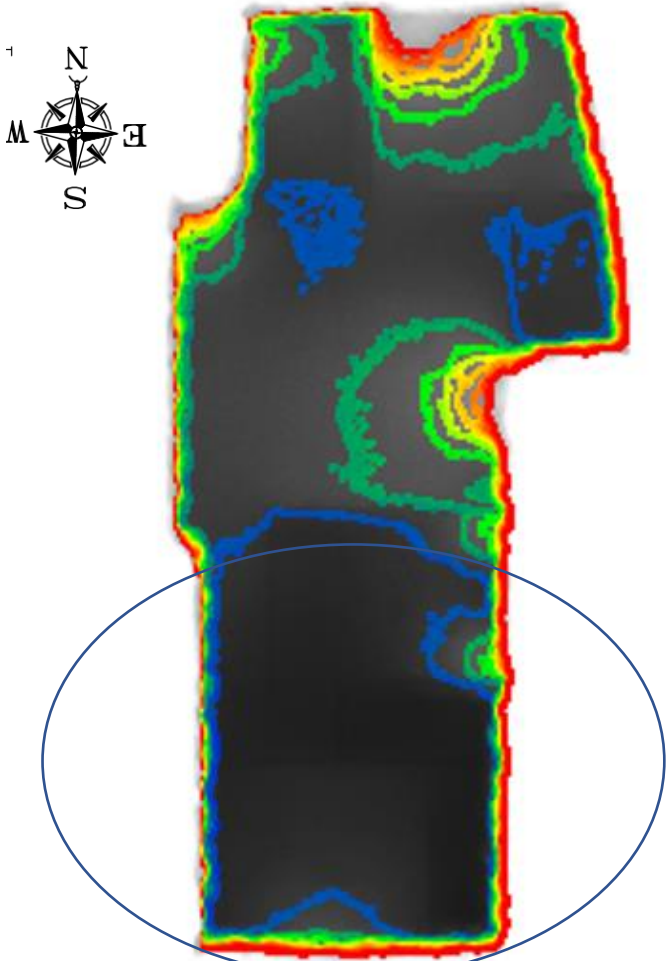
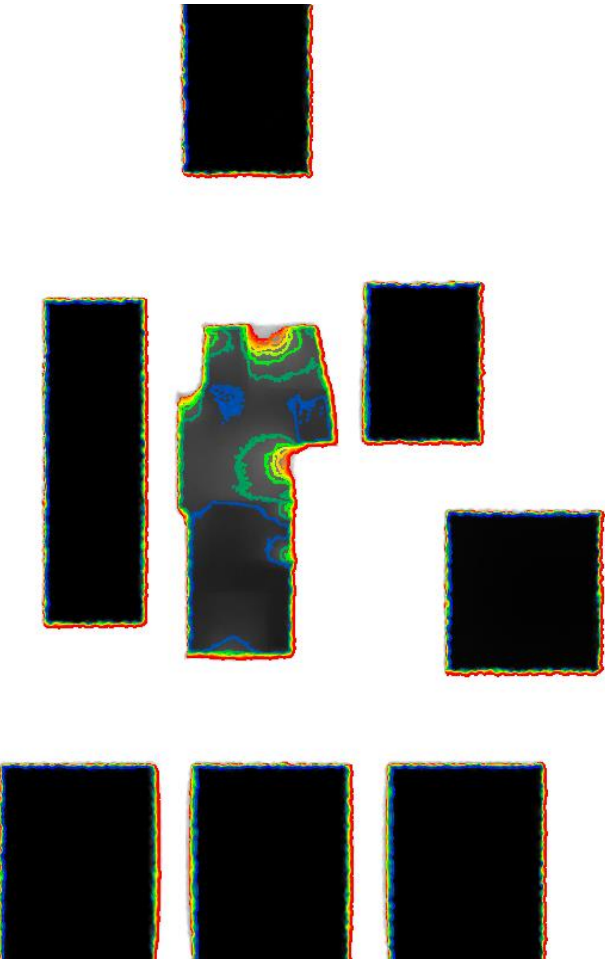
BEDROOM 1



MASTER BEDROOM



MASTER BEDROOM, BEDROOM 2, AND THE CORRIDOR HAVE NO SUFFICIENT LIGHT TO CARRY OUT THE BASIC DOMESTIC ACTIVITIES.



ELISHA RESIDENCE

NAME OF THE PROJECT

PROJECT TYPE

LOCATION

PLOT AREA

SITE SURROUNDINGS:

NORTH

SOUTH

EAST

WEST

ELISHA

RESIDENCE

THIRUVALLUR , CHENNAI

2544 sq.ft

EMPTY PLOT

EMPTY PLOT

EMPTY PLOT

G+2 WEDDING HALL



PROJECT REQUIREMENT

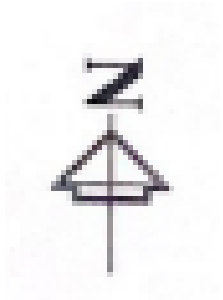
- 1 CAR PARK
- 2 SHOPS

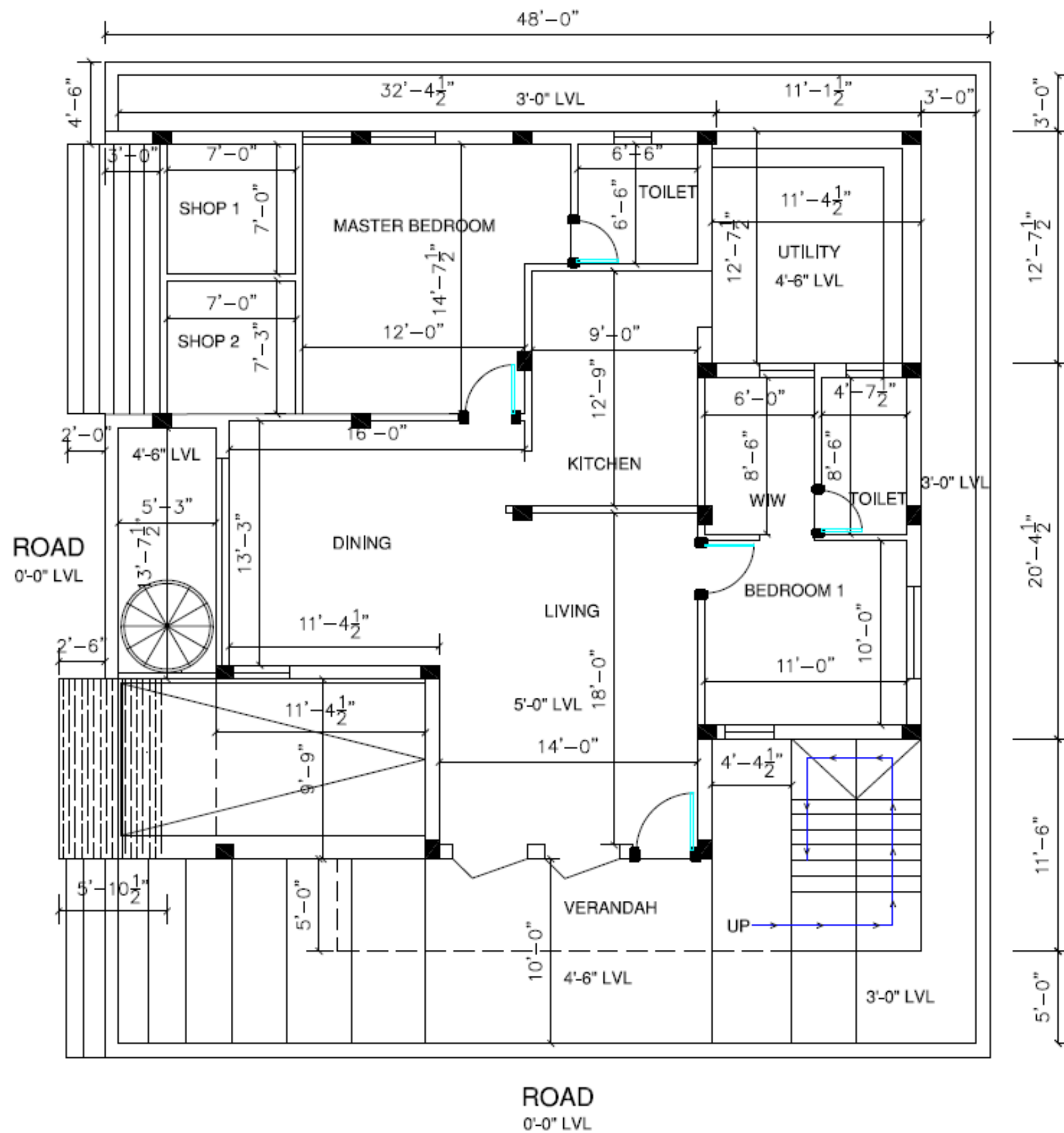
GROUND FLOOR

- LIVING
- DINING
- KITCHEN & UTILITY
- MASTER BEDROOM + WIW
- BED ROOM WITH ATTACHED TOILET

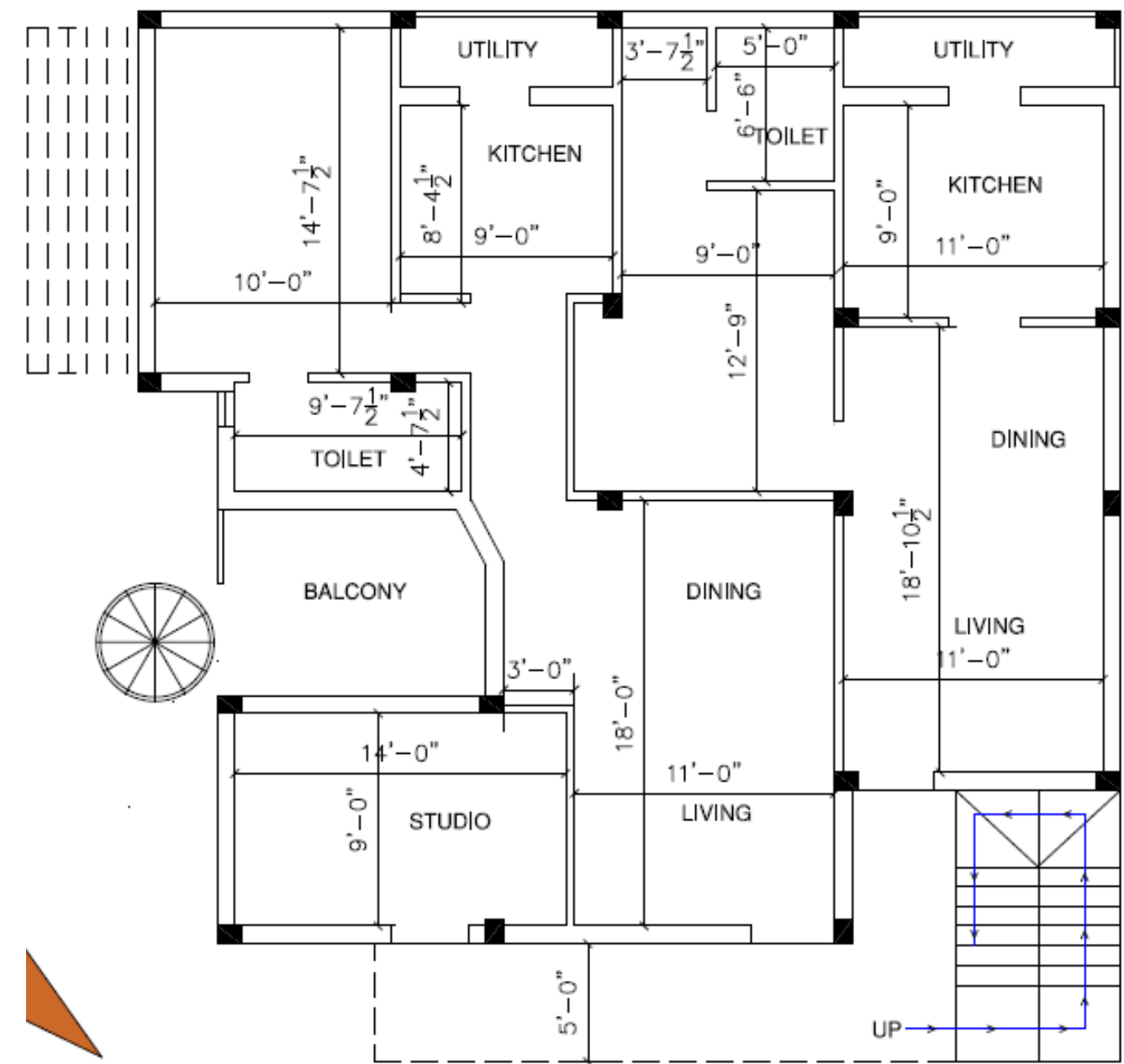
FIRST FLOOR

- STUDIO
- 2 – 1 BHK FOR RENT

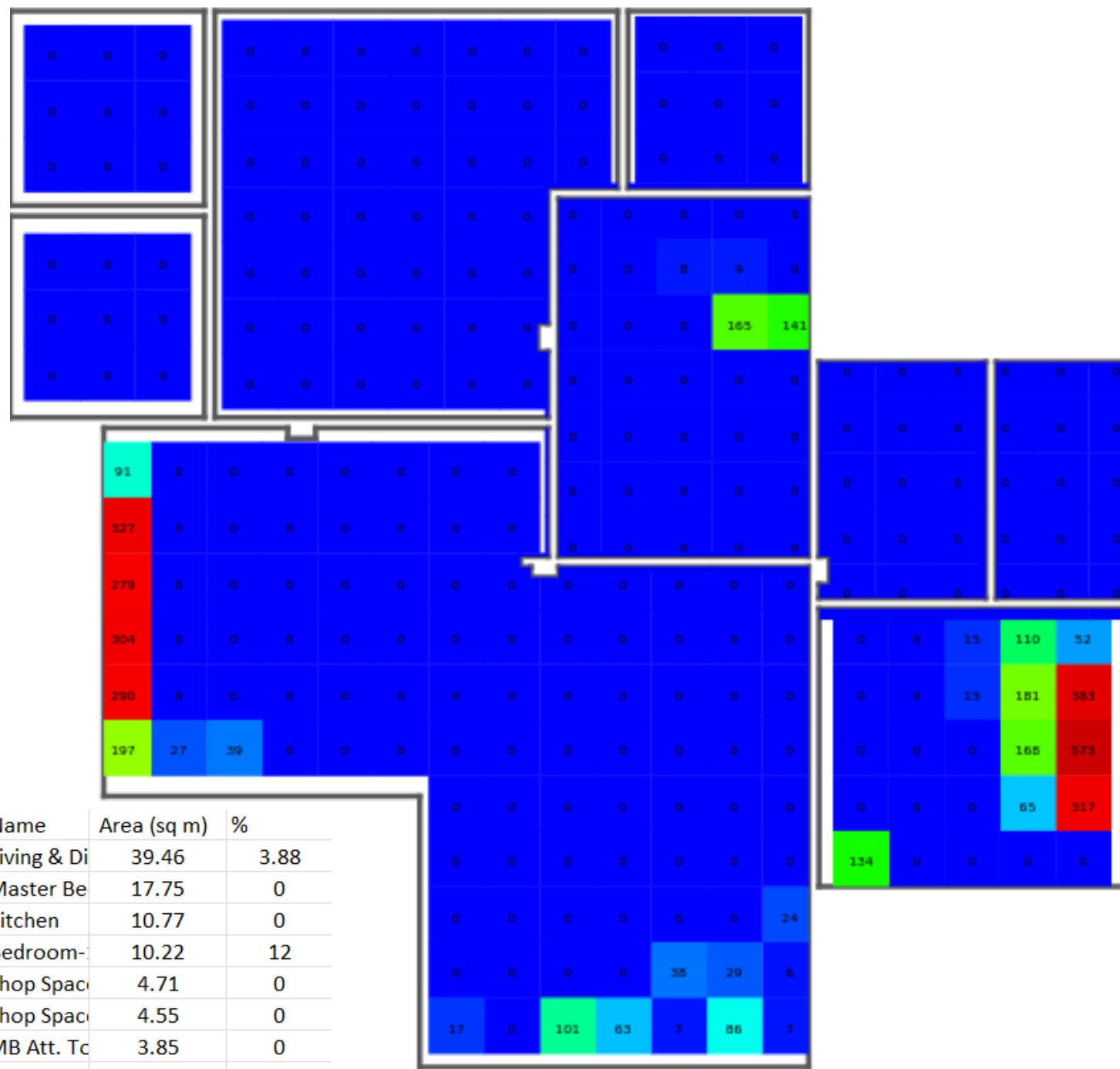




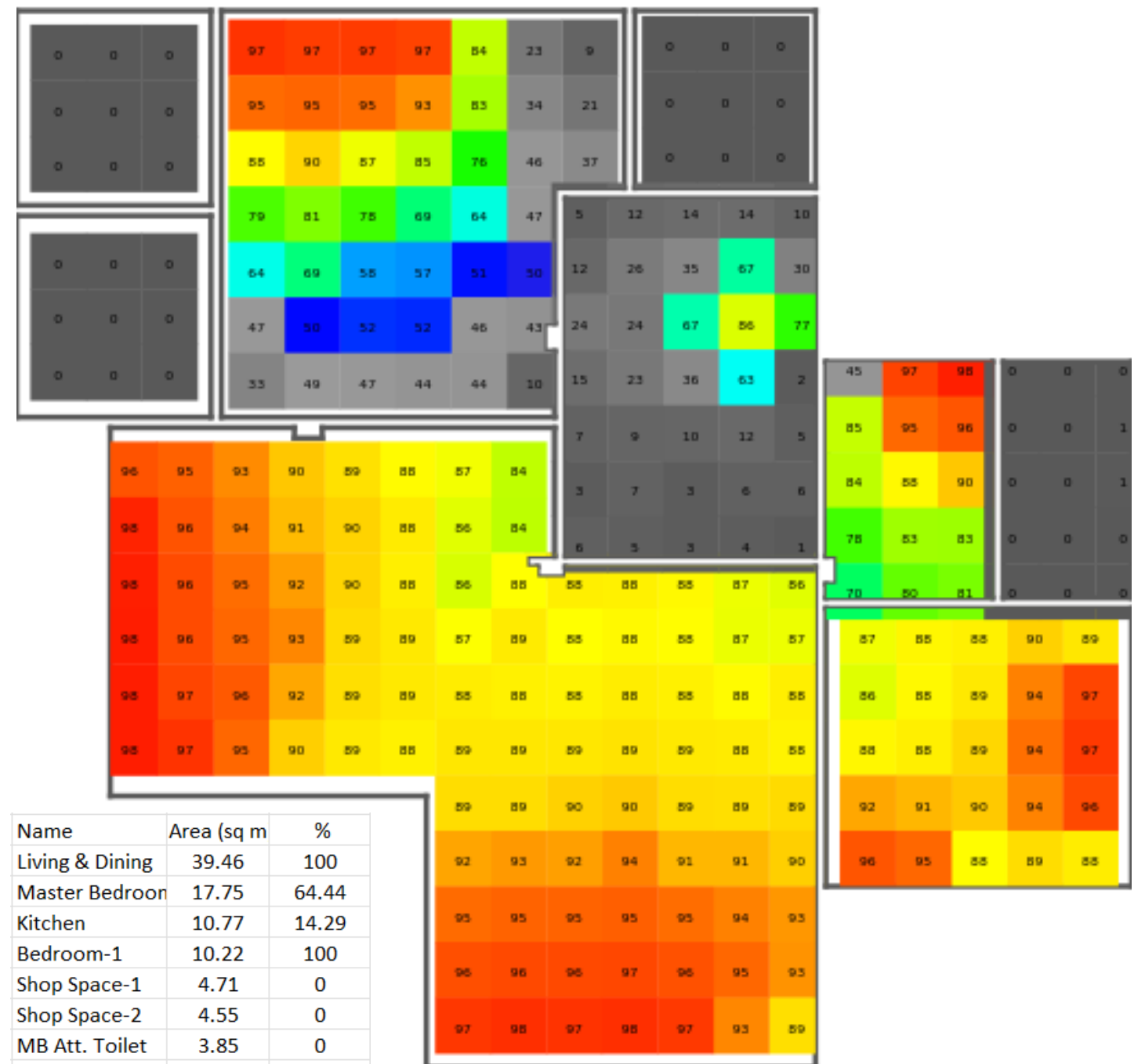
SITE CUM GROUND FLOOR PLAN



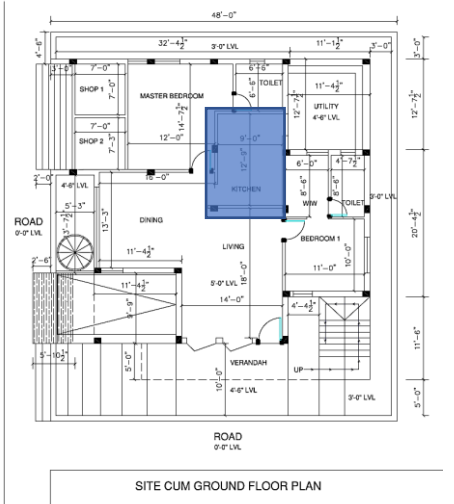
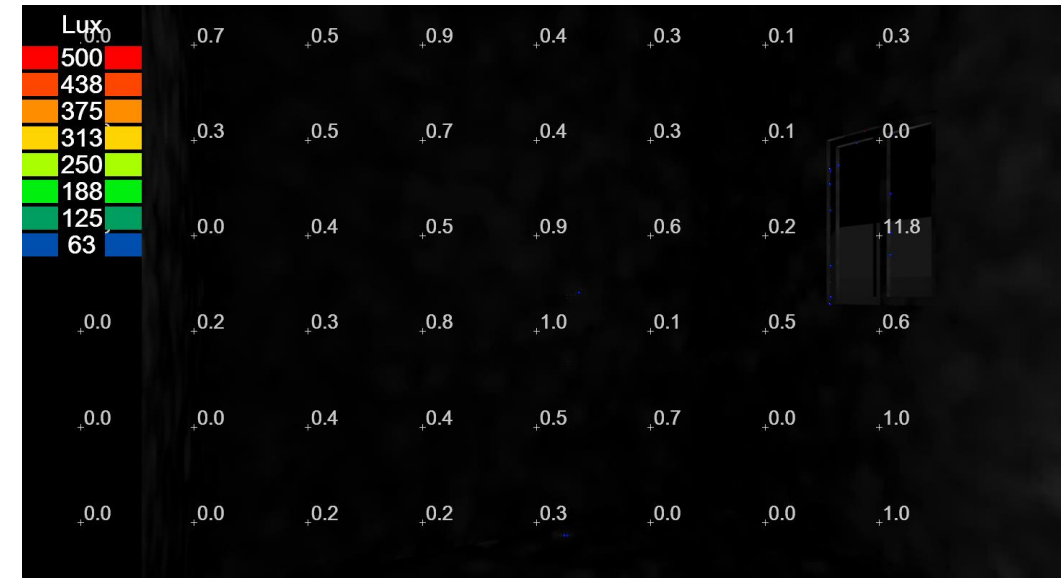
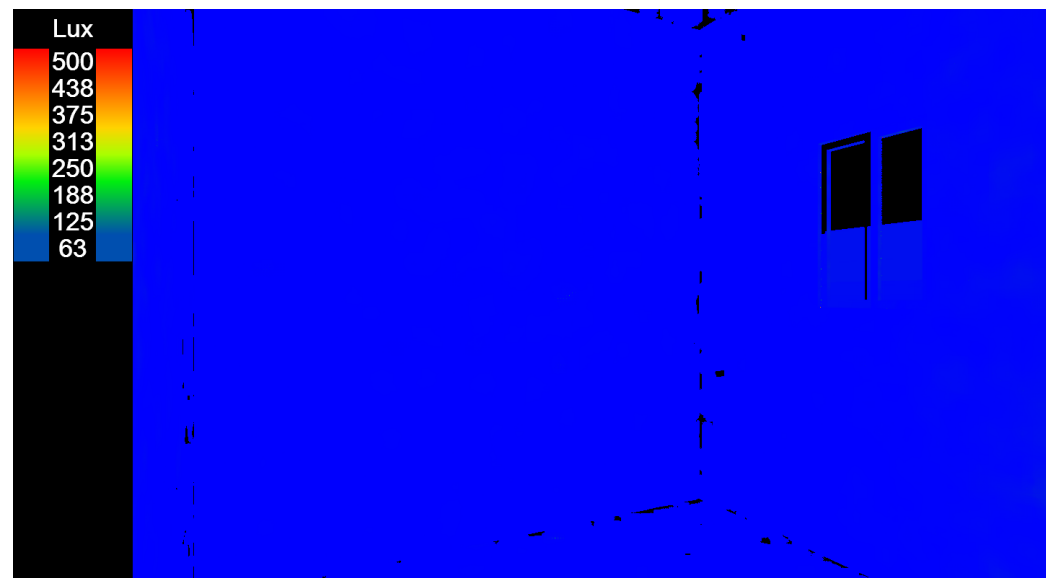
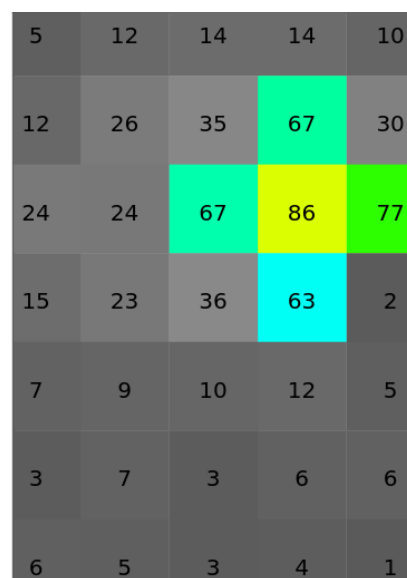
FIRST FLOOR PLAN

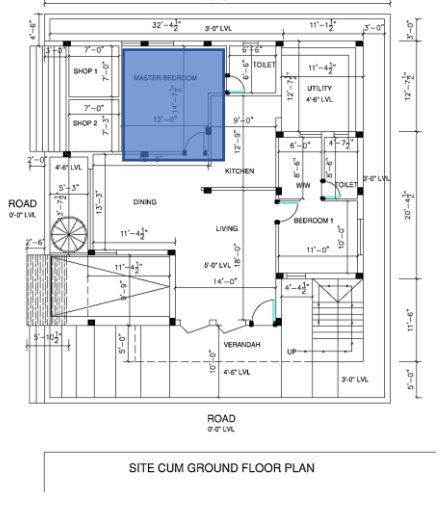
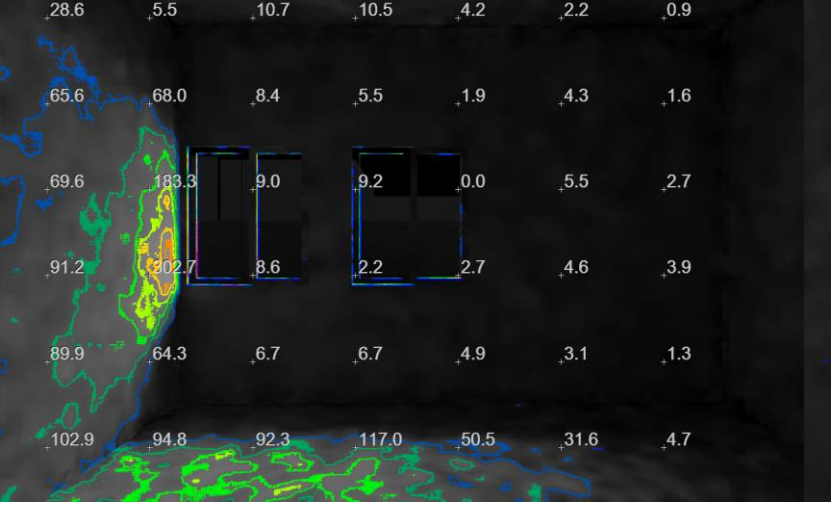
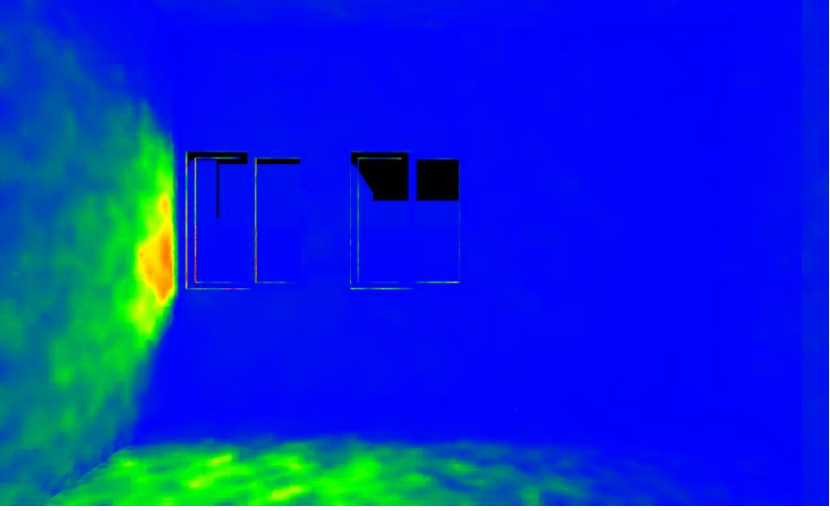
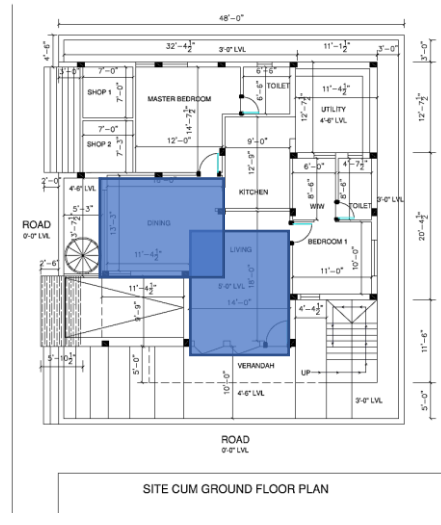
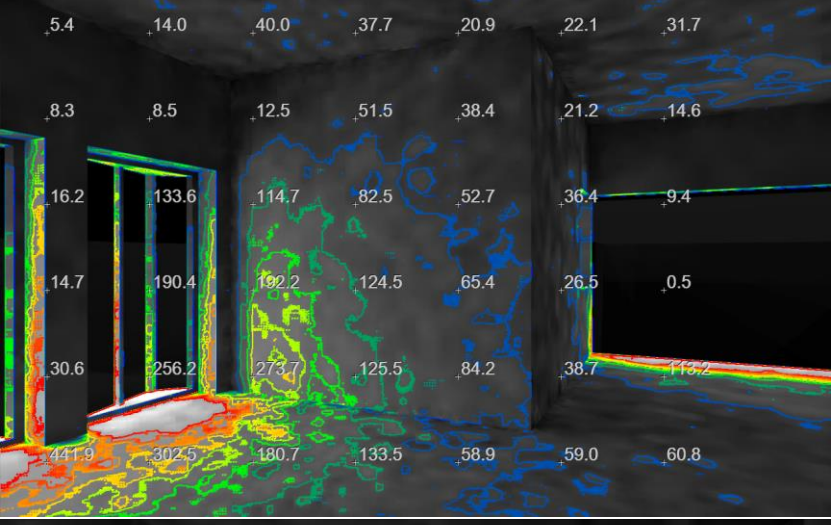
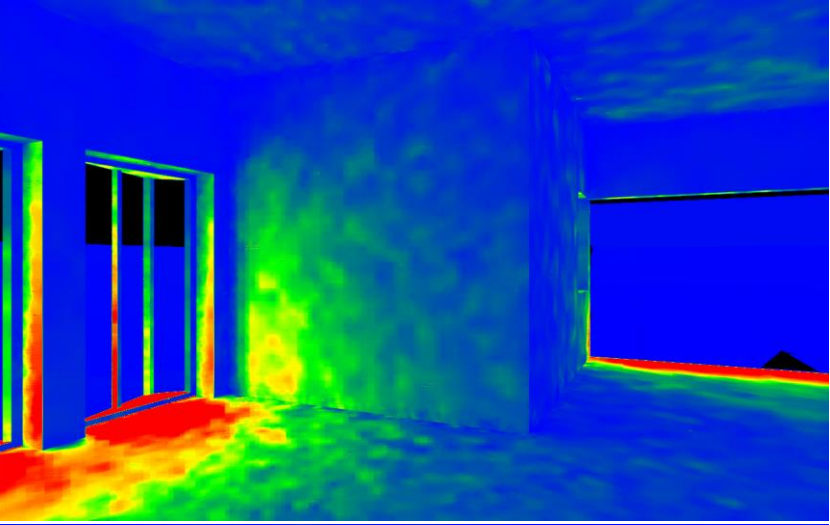
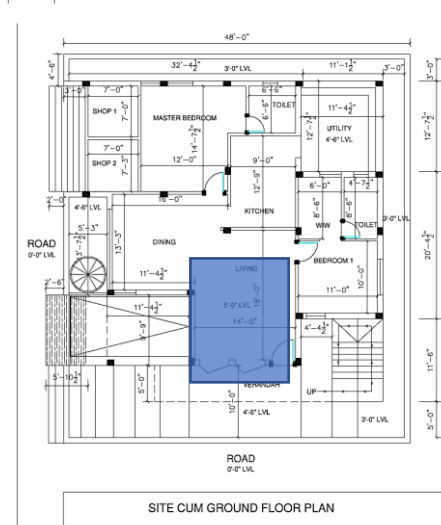
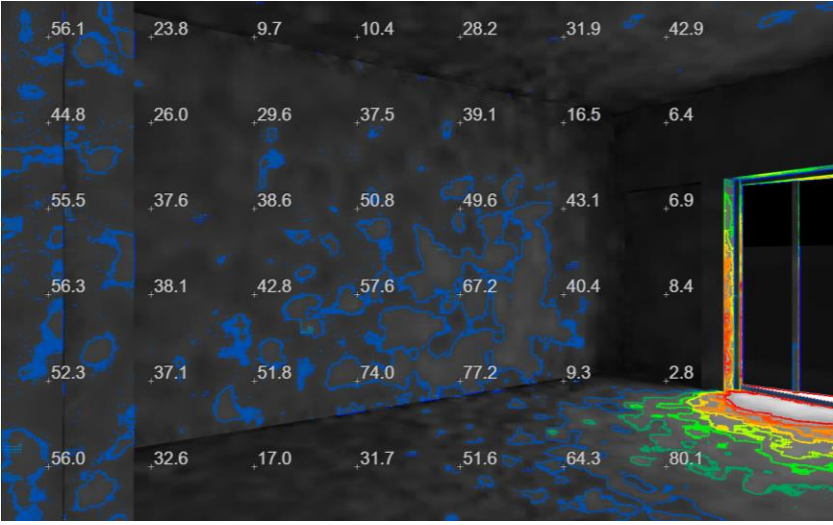
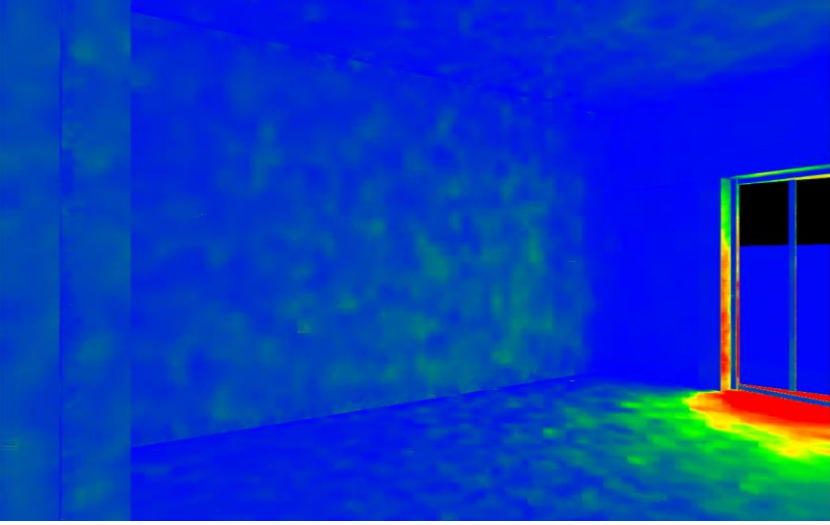
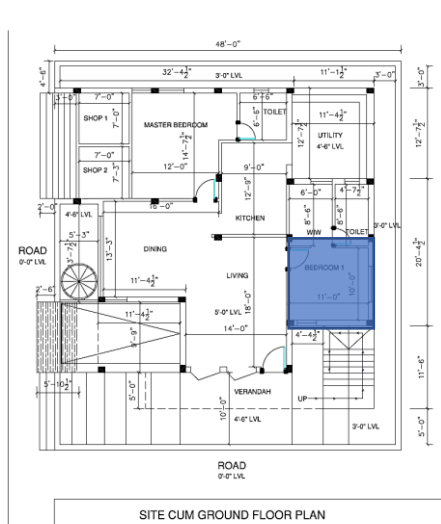
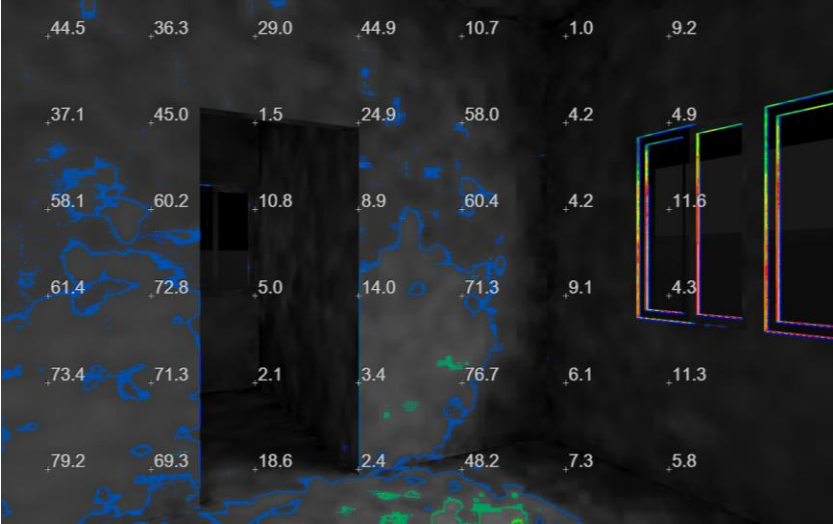
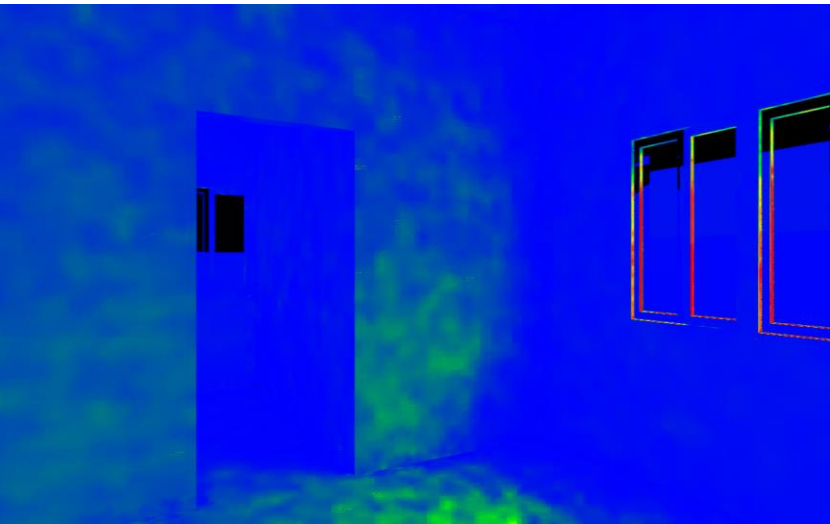
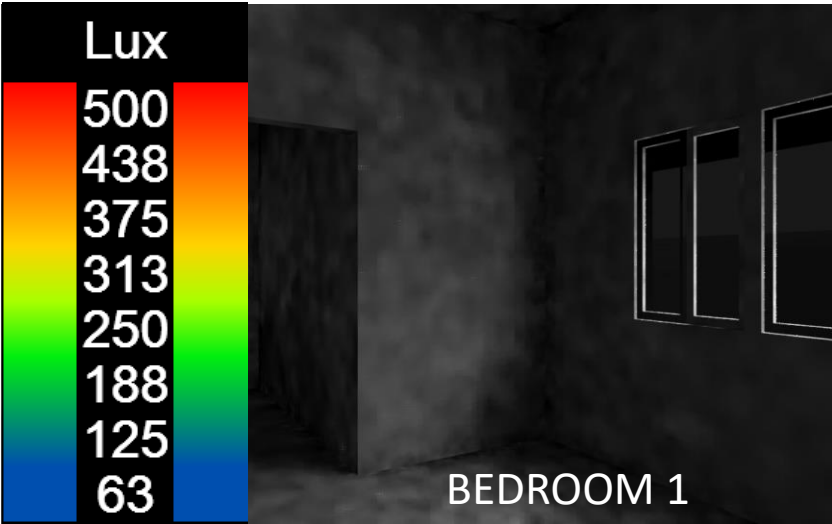


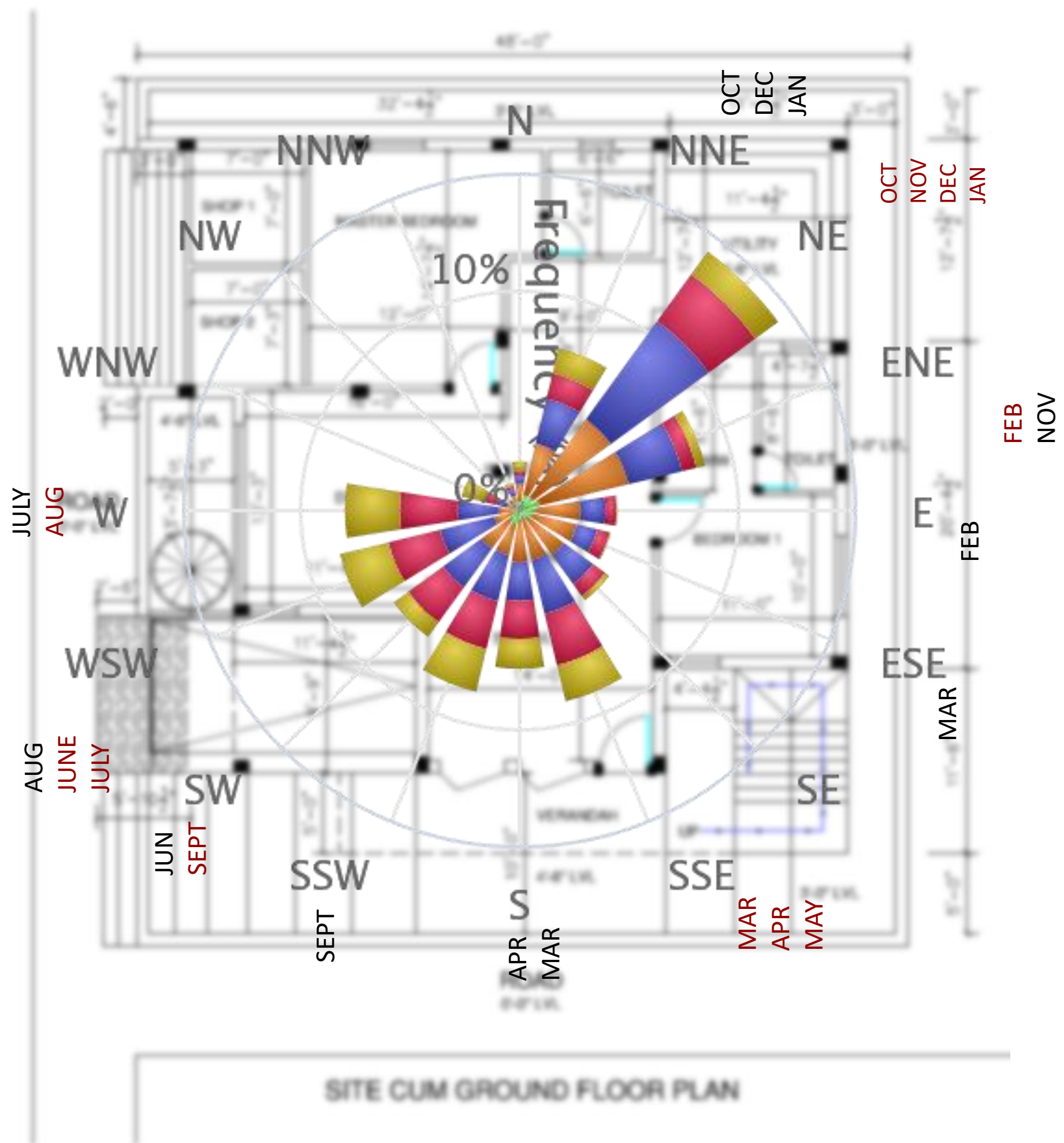
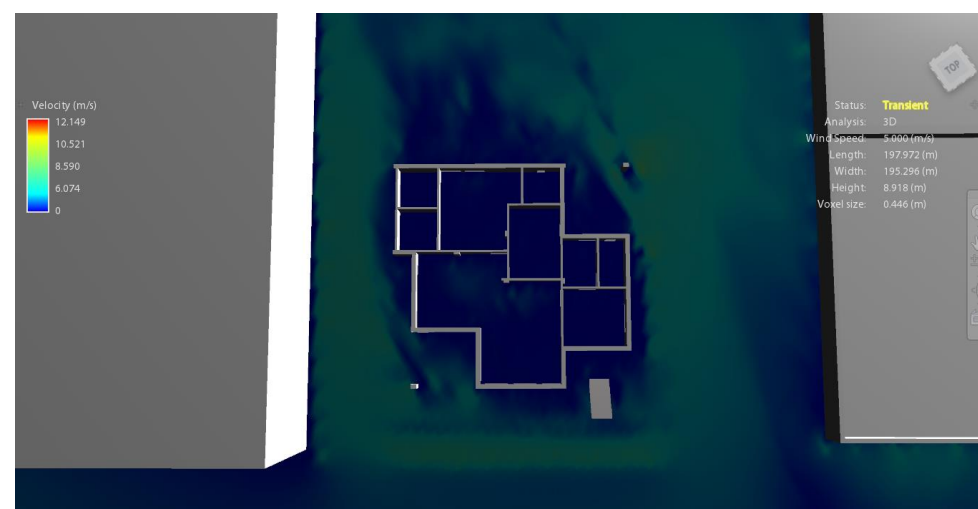
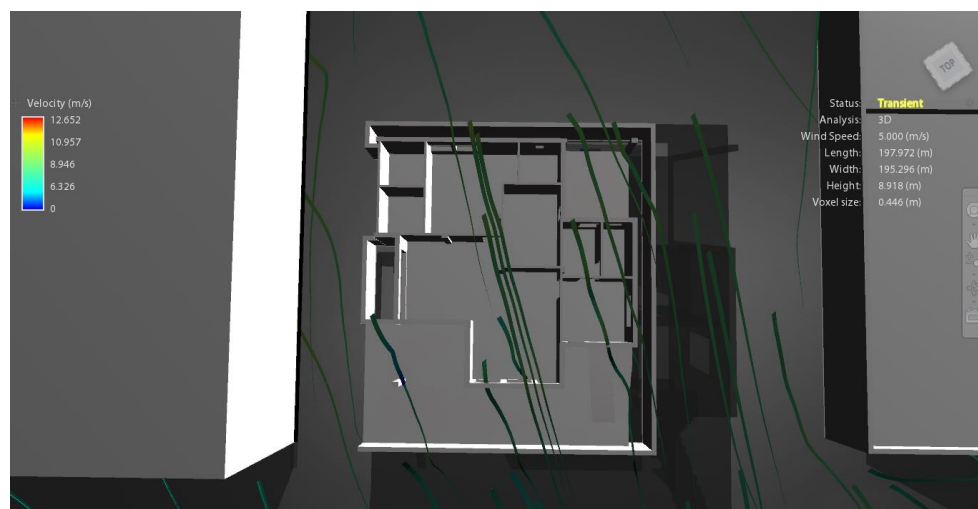
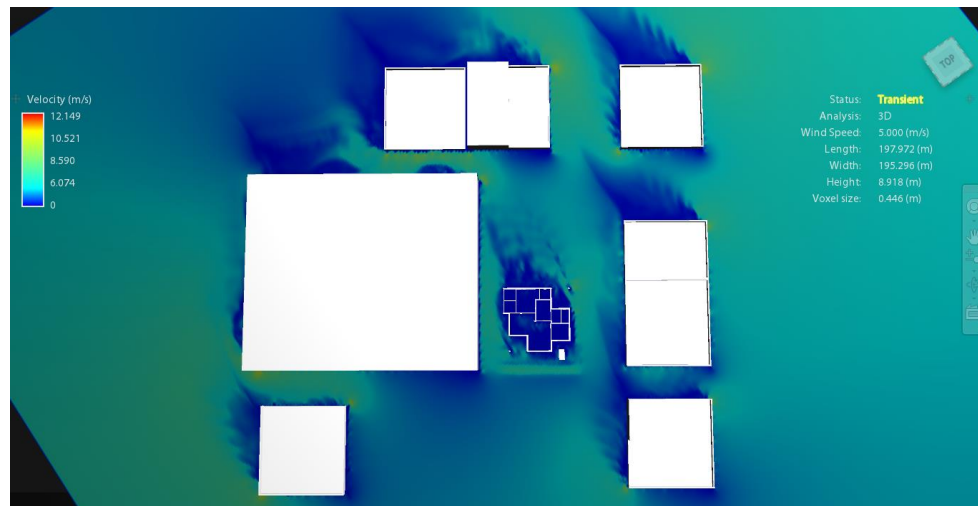
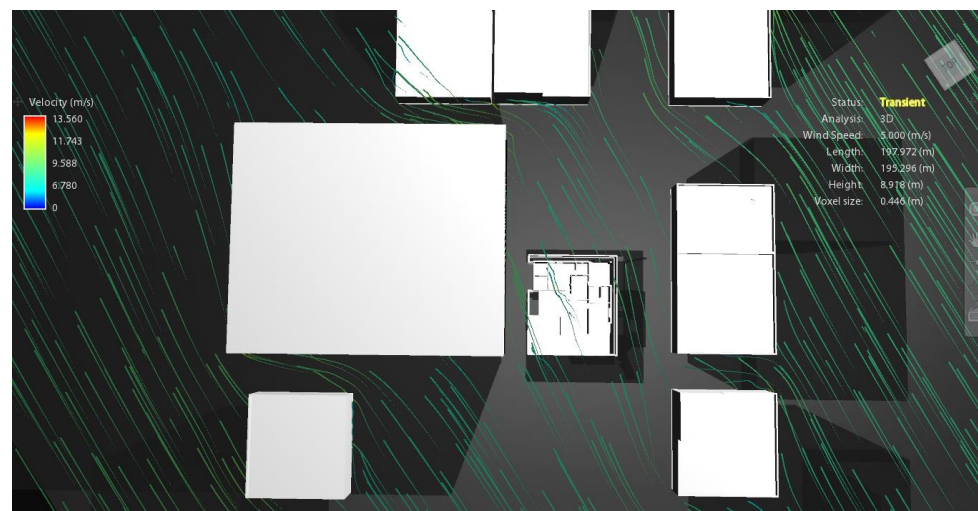
ANNUAL SOLAR EXPOSURE



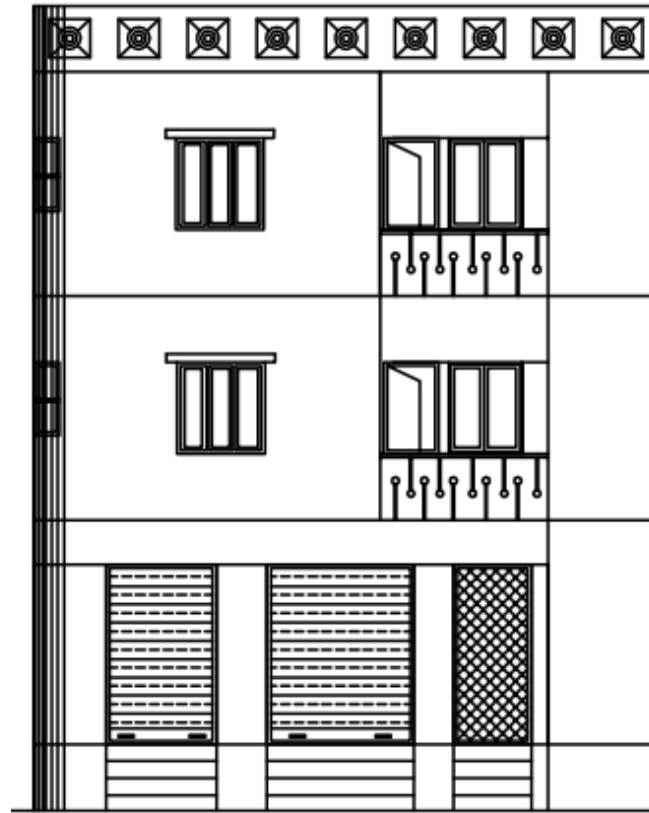
SPATIAL DAYLIGHT AUTONOMY



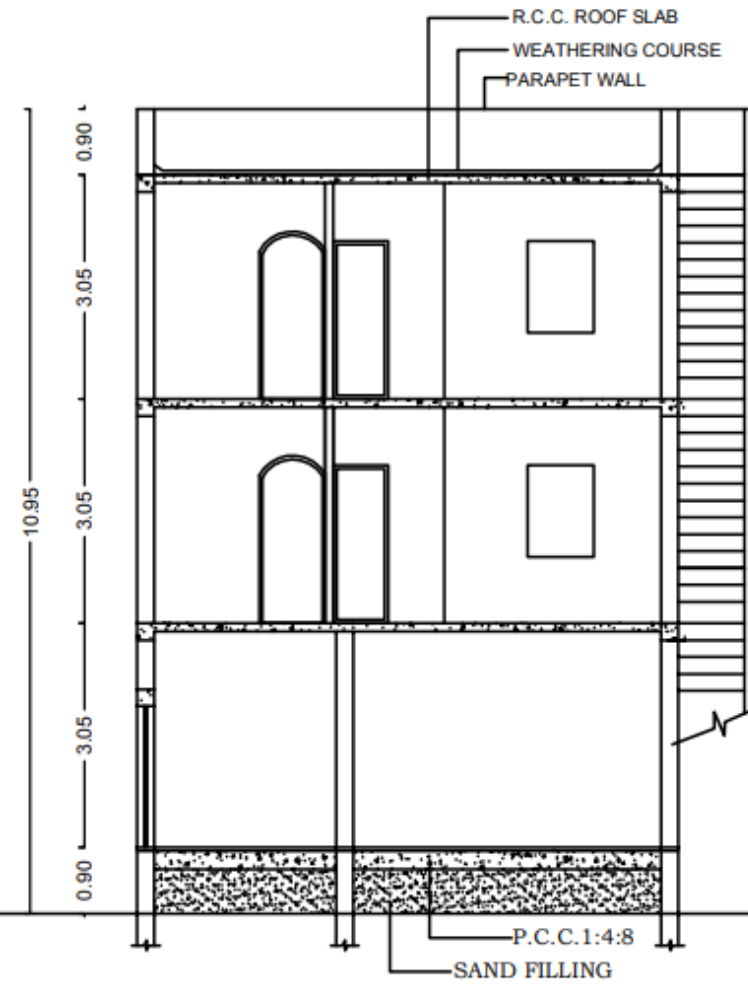




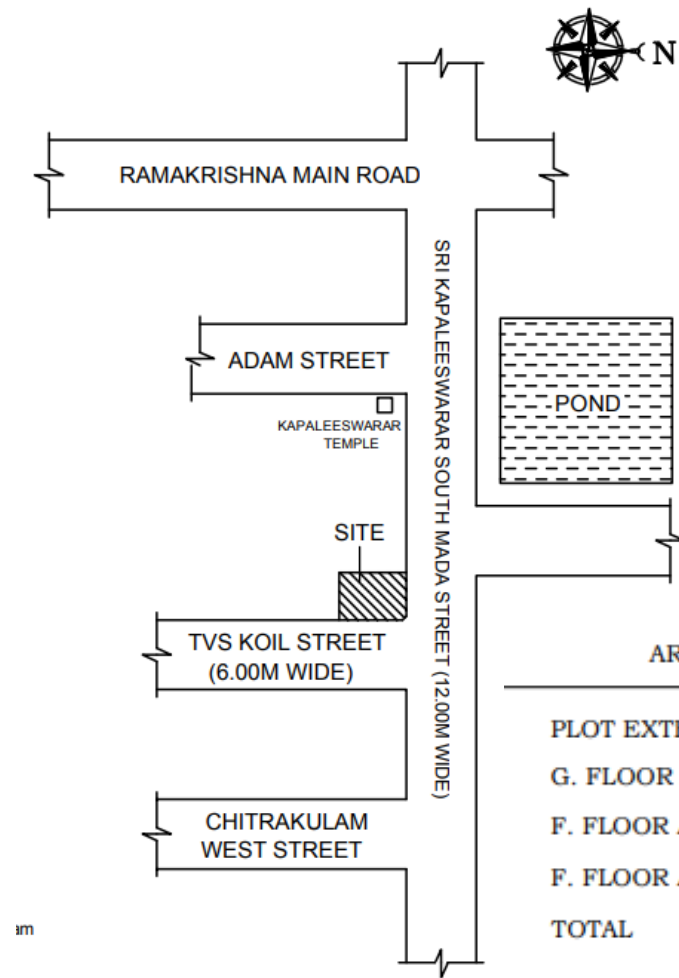
MYLAPORE RESIDENCE



ELEVATION
(TO BE DEMOLISH)

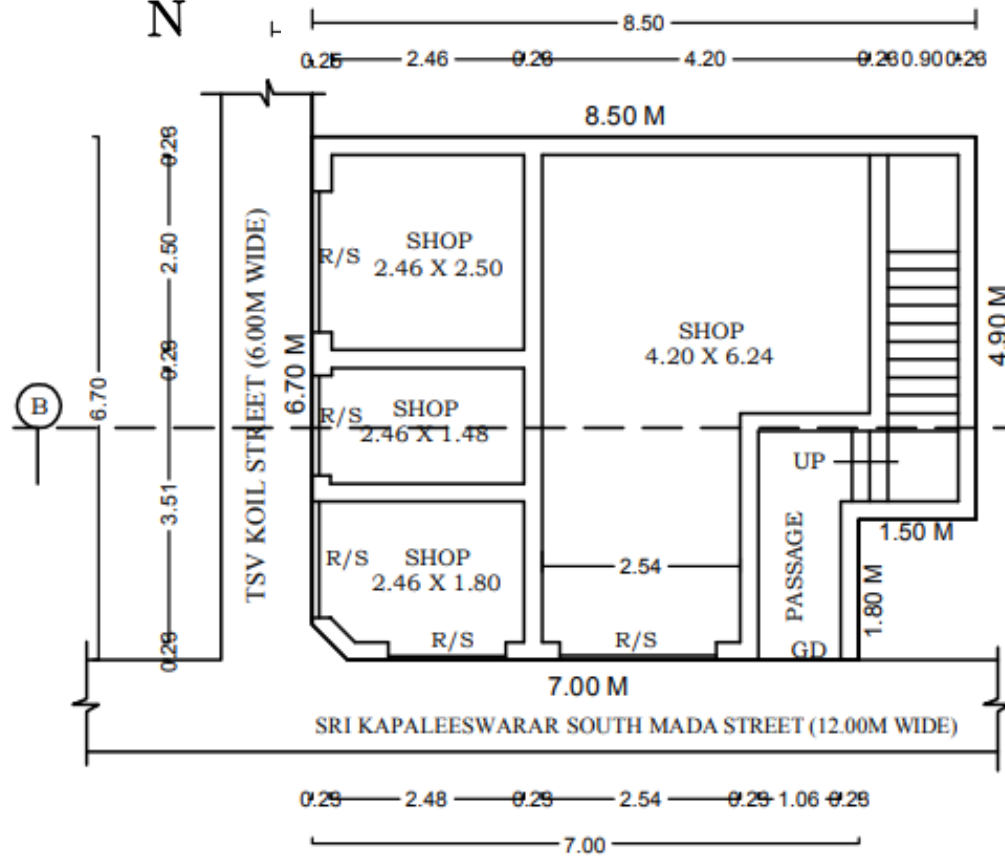


SECTION ON B - B
(TO BE DEMOLISH)

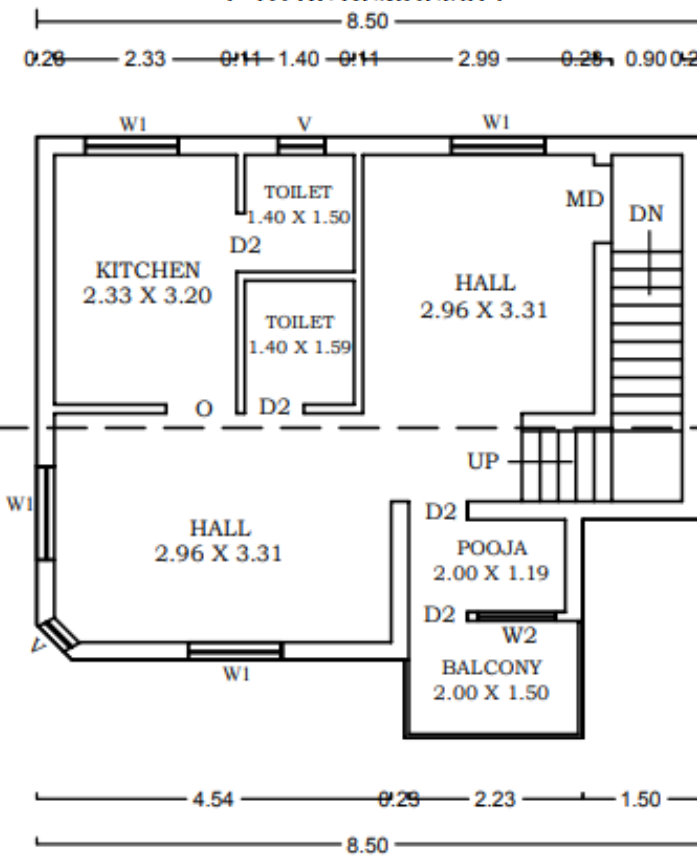


AREA STATEMENT

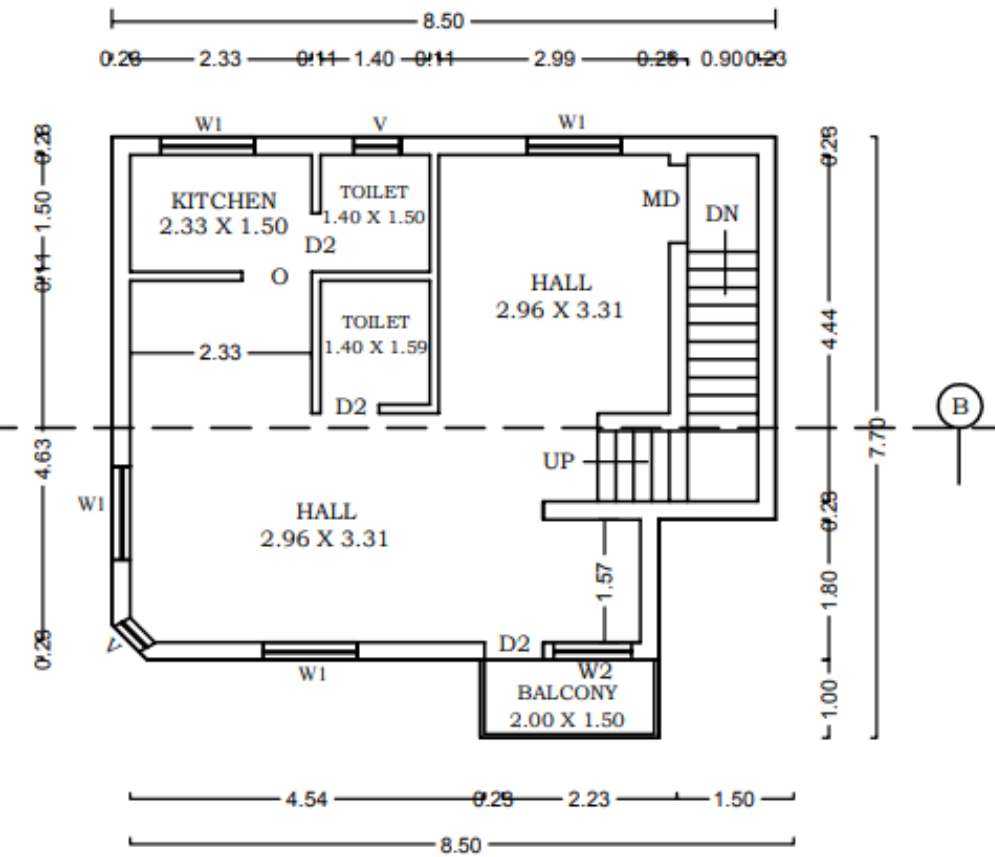
	Sq.Mt
PLOT EXTENT	= 55.00
G. FLOOR AREA	= 54.15
F. FLOOR AREA	= 56.44
F. FLOOR AREA	= 56.44
TOTAL	= 167.03



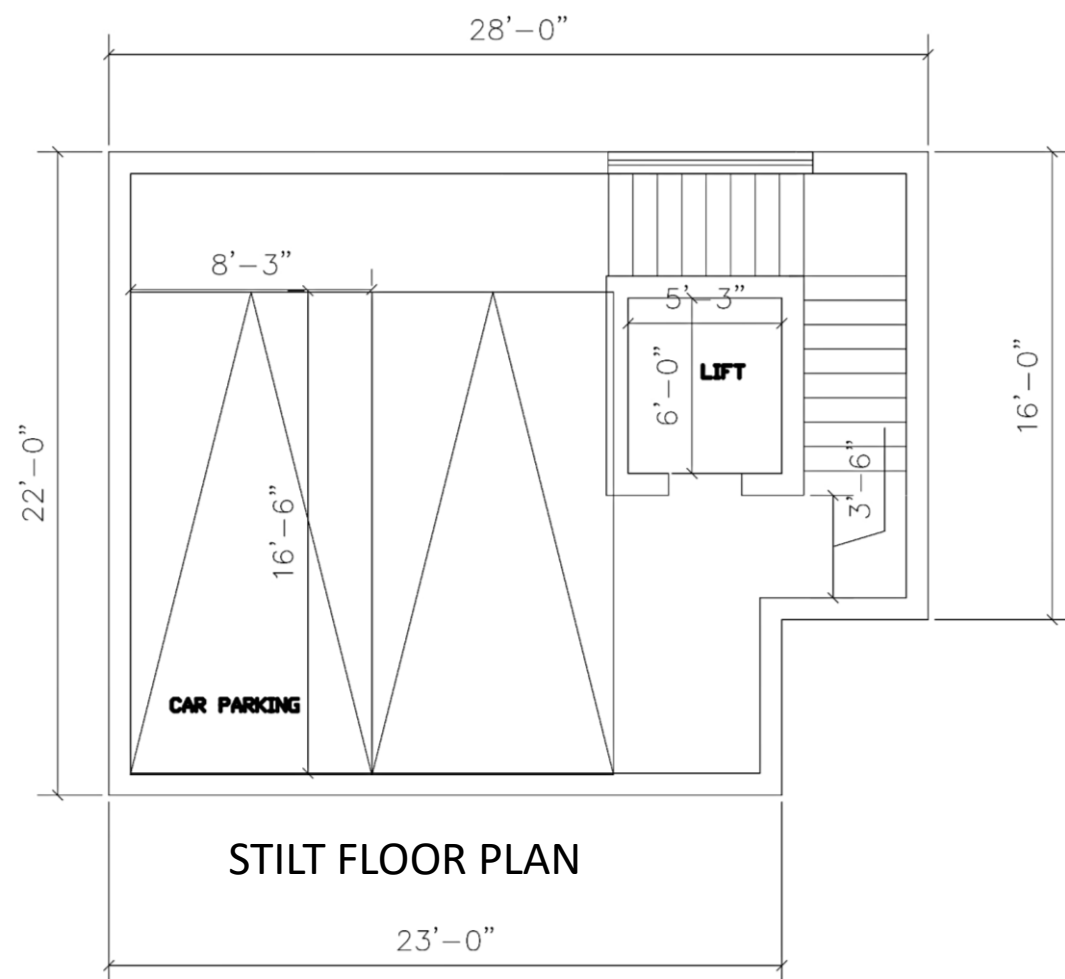
SITE CUM GROUND FLOOR PLAN
(TO BE DEMOLISHED)



FIRST FLOOR PLAN
(TO BE DEMOLISHED)



SECOND FLOOR PLAN
(TO BE DEMOLISHED)



PROJECT REQUIREMENTS

STILT
2 CAR PARKS

FIRST FLOOR
LIVING
COMMON TOILET
KITCHEN
UTILITY

SECOND FLOOR
2 BEDROOMS WITH ATTACHED
TOILET

THIRD FLOOR
DANCE STUDIO

NAME OF THE PROJECT	MYLAPORE RESIDENCE
PROJECT TYPE	RESIDENCE
LOCATION	MYLAPORE, CHENNAI
PLOT AREA	592 sq.ft
SITE SURROUNDINGS:	
NORTH	ROAD
SOUTH	RESIDENCE
EAST	ROAD
WEST	G+2 RESIDENCE

